

Dell PowerStore

REST API Reference Guide

Version 4.2

Notes, cautions, and warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

Storage cluster API

Table of Contents

Changelog	52
Version 4.2.0.0	52
Paths	52
Enumeration values	53
Definitions	53
Definition members	55
Version 4.1.0.0	56
Paths	56
Enumeration values	57
Definitions	57
Definition members	69
Version 4.0.0.0	81
Paths	81
Parameters	82
Enumeration values	82
Definitions	83
Definition members	89
Version 3.6.0.0	95
Paths	95
Enumeration values	95
Definitions	96
Definition members	96
Version 3.5.0.0	97
Paths	97
Parameters	98
Enumeration values	98
Definitions	98
Definition members	102
Version 3.2.0.0	106
Definitions	106
Definition members	107
Version 3.0.0.0	107
Paths	107
Responses	110
Enumeration values	110
Definitions	112

Definition members	123
Version 2.1.0.0	134
Paths	134
Enumeration values	134
Definitions	135
Definition members	137
Version 2.0.0.0	139
Paths	139
Parameters	140
Enumeration values	140
Definitions	140
Definition members	147
Version 1.0.3	152
Paths	152
Enumeration values	153
Definitions	153
Definition members	153
Version 1.0.2	153
Paths	153
Enumeration values	154
Definitions	154
Definition members	155
Version 1.0.0	157
Definitions	157
Resources	157
alert	157
GET /alert	157
GET /alert/{id}	157
PATCH /alert/{id}	158
anomalies	159
GET /anomalies	159
POST /anomalies	159
GET /anomalies/{id}	160
appliance	160
GET /appliance	160
POST /appliance	161
POST /appliance/validate_create	162
GET /appliance/{id}	162
GET /appliance/name:{name}	162
DELETE /appliance/{id}	163
DELETE /appliance/name:{name}	163

PATCH /appliance/{id}	164
PATCH /appliance/name:{name}	164
POST /appliance/{id}/forecast	165
POST /appliance/name:{name}/forecast	165
POST /appliance/{id}/time_to_full	166
POST /appliance/name:{name}/time_to_full	166
audit_event	167
GET /audit_event	167
bond	168
GET /bond	168
POST /bond	169
GET /bond/{id}	170
GET /bond/name:{name}	170
DELETE /bond/{id}	171
DELETE /bond/name:{name}	171
PATCH /bond/{id}	172
PATCH /bond/name:{name}	172
cert_role_mapping	173
GET /cert_role_mapping	173
POST /cert_role_mapping	174
GET /cert_role_mapping/{id}	174
DELETE /cert_role_mapping/{id}	175
PATCH /cert_role_mapping/{id}	175
chap_config	176
GET /chap_config	176
GET /chap_config/{id}	177
PATCH /chap_config/{id}	177
cluster	178
POST /cluster/{id}/forecast	178
POST /cluster/{id}/time_to_full	179
GET /cluster	180
POST /cluster	180
POST /cluster/validate_create	181
GET /cluster/{id}	182
PATCH /cluster/{id}	182
POST /cluster/{id}/discover_fc_targets	183
POST /cluster/{id}/validate_expand	184
datacollection	185
GET /datacollection	185
POST /datacollection	185
GET /datacollection/{id}	186

DELETE /datacollection/{id}	186
POST /datacollection/{id}/upload	187
datastore	188
GET /datastore	188
GET /datastore/{id}	188
GET /datastore/name:{name}	188
discovered_appliance	189
GET /discovered_appliance	189
GET /discovered_appliance/{id}	190
PATCH /discovered_appliance/{id}	190
POST /discovered_appliance/{id}/update_software	191
discovered_initiator	191
GET /discovered_initiator	192
dns	192
GET /dns	192
GET /dns/{id}	193
PATCH /dns/{id}	194
email_notify_destination	195
GET /email_notify_destination	195
POST /email_notify_destination	195
GET /email_notify_destination/{id}	196
DELETE /email_notify_destination/{id}	196
PATCH /email_notify_destination/{id}	197
POST /email_notify_destination/{id}/test	197
eth_be_port	198
GET /eth_be_port	198
GET /eth_be_port/{id}	198
GET /eth_be_port/name:{name}	199
eth_port	200
GET /eth_port	200
GET /eth_port/{id}	200
GET /eth_port/name:{name}	200
PATCH /eth_port/{id}	201
PATCH /eth_port/name:{name}	201
event	202
GET /event	202
GET /event/{id}	203
fast_metrics_config	203
GET /fast_metrics_config	203
POST /fast_metrics_config	204
GET /fast_metrics_config/{id}	205

DELETE /fast_metrics_config/{id}	205
fc_port	206
GET /fc_port	206
GET /fc_port/{id}	206
GET /fc_port/name:{name}	206
PATCH /fc_port/{id}	207
PATCH /fc_port/name:{name}	208
file_dhsm_config	208
GET /file_dhsm_config	209
POST /file_dhsm_config	209
GET /file_dhsm_config/{id}	209
DELETE /file_dhsm_config/{id}	210
PATCH /file_dhsm_config/{id}	211
file_dns	211
GET /file_dns	211
POST /file_dns	212
GET /file_dns/{id}	212
DELETE /file_dns/{id}	213
PATCH /file_dns/{id}	213
file_events_pool	214
GET /file_events_pool	214
POST /file_events_pool	215
GET /file_events_pool/{id}	215
GET /file_events_pool/name:{name}	215
DELETE /file_events_pool/{id}	216
DELETE /file_events_pool/name:{name}	216
PATCH /file_events_pool/{id}	217
PATCH /file_events_pool/name:{name}	217
file_events_publisher	217
GET /file_events_publisher	218
POST /file_events_publisher	218
GET /file_events_publisher/{id}	219
GET /file_events_publisher/name:{name}	219
DELETE /file_events_publisher/{id}	219
DELETE /file_events_publisher/name:{name}	219
PATCH /file_events_publisher/{id}	220
PATCH /file_events_publisher/name:{name}	220
file_ftp	221
GET /file_ftp	221
POST /file_ftp	221
GET /file_ftp/{id}	222

DELETE /file_ftp/{id}	222
PATCH /file_ftp/{id}	223
file_import_interface	224
GET /file_import_interface	224
POST /file_import_interface	224
GET /file_import_interface/{id}	225
DELETE /file_import_interface/{id}	225
PATCH /file_import_interface/{id}	226
file_import_nas_server	226
GET /file_import_nas_server	227
GET /file_import_nas_server/{id}	227
file_import_session	228
GET /file_import_session	228
POST /file_import_session	228
GET /file_import_session/{id}	229
GET /file_import_session/name:{name}	229
DELETE /file_import_session/{id}	229
DELETE /file_import_session/name:{name}	229
PATCH /file_import_session/{id}	230
PATCH /file_import_session/name:{name}	230
POST /file_import_session/{id}/cancel	231
POST /file_import_session/name:{name}/cancel	231
POST /file_import_session/{id}/cutover	232
POST /file_import_session/name:{name}/cutover	232
POST /file_import_session/{id}/pause	233
POST /file_import_session/name:{name}/pause	233
POST /file_import_session/{id}/resume	234
POST /file_import_session/name:{name}/resume	234
POST /file_import_session/{id}/report	234
POST /file_import_session/name:{name}/report	235
POST /file_import_session/{id}/commit	235
POST /file_import_session/name:{name}/commit	235
POST /file_import_session/{id}/destination_objects_sync	236
POST /file_import_session/name:{name}/destination_objects_sync	236
file_interface	237
GET /file_interface	237
POST /file_interface	237
GET /file_interface/{id}	238
GET /file_interface/name:{name}	238
DELETE /file_interface/{id}	238
DELETE /file_interface/name:{name}	239

PATCH /file_interface/{id}	239
PATCH /file_interface/name:{name}	239
file_interface_route	240
GET /file_interface_route	240
POST /file_interface_route	241
GET /file_interface_route/{id}	241
DELETE /file_interface_route/{id}	242
PATCH /file_interface_route/{id}	242
file_io_limit_rule	243
GET /file_io_limit_rule	243
POST /file_io_limit_rule	244
GET /file_io_limit_rule/{id}	244
GET /file_io_limit_rule/name:{name}	244
DELETE /file_io_limit_rule/{id}	245
DELETE /file_io_limit_rule/name:{name}	245
PATCH /file_io_limit_rule/{id}	246
PATCH /file_io_limit_rule/name:{name}	246
file_kerberos	247
GET /file_kerberos	247
POST /file_kerberos	247
GET /file_kerberos/{id}	248
DELETE /file_kerberos/{id}	248
PATCH /file_kerberos/{id}	249
POST /file_kerberos/{id}/upload_keytab	249
GET /file_kerberos/{id}/download_keytab	250
file_ldap	251
GET /file_ldap	251
POST /file_ldap	251
GET /file_ldap/{id}	252
DELETE /file_ldap/{id}	253
PATCH /file_ldap/{id}	253
POST /file_ldap/{id}/upload_config	254
GET /file_ldap/{id}/download_config	254
POST /file_ldap/{id}/upload_certificate	255
GET /file_ldap/{id}/download_certificate	256
file_ndmp	256
GET /file_ndmp	256
POST /file_ndmp	257
GET /file_ndmp/{id}	257
DELETE /file_ndmp/{id}	258
PATCH /file_ndmp/{id}	258

file_nis	259
GET /file_nis	259
POST /file_nis	260
GET /file_nis/{id}	260
DELETE /file_nis/{id}	261
PATCH /file_nis/{id}	261
file_system	262
GET /file_system	262
POST /file_system	262
GET /file_system/{id}	263
GET /file_system/name:{name}	263
DELETE /file_system/{id}	263
DELETE /file_system/name:{name}	263
PATCH /file_system/{id}	264
PATCH /file_system/name:{name}	264
POST /file_system/{id}/clone	265
POST /file_system/name:{name}/clone	265
POST /file_system/{id}/snapshot	266
POST /file_system/name:{name}/snapshot	266
POST /file_system/{id}/refresh	266
POST /file_system/name:{name}/refresh	267
POST /file_system/{id}/restore	267
POST /file_system/name:{name}/restore	267
POST /file_system/{id}/refresh_quota	268
POST /file_system/name:{name}/refresh_quota	268
file_tree_quota	269
GET /file_tree_quota	269
POST /file_tree_quota	269
GET /file_tree_quota/{id}	270
DELETE /file_tree_quota/{id}	270
PATCH /file_tree_quota/{id}	271
POST /file_tree_quota/{id}/refresh	272
file_user_quota	272
GET /file_user_quota	272
POST /file_user_quota	273
GET /file_user_quota/{id}	273
PATCH /file_user_quota/{id}	274
POST /file_user_quota/{id}/refresh	274
file_virus_checker	275
GET /file_virus_checker	275
POST /file_virus_checker	276

GET /file_virus_checker/{id}	276
DELETE /file_virus_checker/{id}	277
PATCH /file_virus_checker/{id}	277
POST /file_virus_checker/{id}/upload_config	278
GET /file_virus_checker/{id}/download_config	279
POST /file_virus_checker/{id}/start_scan	279
POST /file_virus_checker/{id}/stop_scan	280
POST /file_virus_checker/{id}/scan_status	281
POST /file_virus_checker/{id}/get_viruschecker_audit_info	282
POST /file_virus_checker/{id}/add_privileged_account	282
POST /file_virus_checker/{id}/remove_privileged_account	283
POST /file_virus_checker/{id}/get_privileged_accounts	284
fsn	284
GET /fsn	285
POST /fsn	285
GET /fsn/{id}	285
GET /fsn/name:{name}	286
DELETE /fsn/{id}	287
DELETE /fsn/name:{name}	287
PATCH /fsn/{id}	287
PATCH /fsn/name:{name}	287
hardware	288
GET /hardware	288
GET /hardware/{id}	289
GET /hardware/name:{name}	289
PATCH /hardware/{id}	289
PATCH /hardware/name:{name}	289
POST /hardware/{id}/drive_repurpose	290
POST /hardware/name:{name}/drive_repurpose	290
POST /hardware/{id}/upgrade	291
POST /hardware/name:{name}/upgrade	291
POST /hardware/{id}/validate_upgrade	292
POST /hardware/name:{name}/validate_upgrade	292
host	293
GET /host	293
POST /host	294
GET /host/{id}	294
GET /host/name:{name}	294
DELETE /host/{id}	295
DELETE /host/name:{name}	295
PATCH /host/{id}	296

PATCH /host/name:{name}	296
POST /host/{id}/attach	297
POST /host/name:{name}/attach	297
POST /host/{id}/detach	298
POST /host/name:{name}/detach	298
host_group	298
GET /host_group	299
POST /host_group	299
GET /host_group/{id}	300
GET /host_group/name:{name}	300
DELETE /host_group/{id}	301
DELETE /host_group/name:{name}	301
PATCH /host_group/{id}	301
PATCH /host_group/name:{name}	301
POST /host_group/{id}/attach	302
POST /host_group/name:{name}/attach	302
POST /host_group/{id}/detach	303
POST /host_group/name:{name}/detach	303
host_virtual_volume_mapping	304
GET /host_virtual_volume_mapping	304
GET /host_virtual_volume_mapping/{id}	304
host_volume_mapping	305
GET /host_volume_mapping	305
GET /host_volume_mapping/{id}	305
import_host_initiator	306
GET /import_host_initiator	306
GET /import_host_initiator/{id}	307
import_host_system	307
GET /import_host_system	307
POST /import_host_system	308
GET /import_host_system/{id}	308
DELETE /import_host_system/{id}	309
POST /import_host_system/{id}/refresh	309
import_host_volume	310
GET /import_host_volume	310
GET /import_host_volume/{id}	311
GET /import_host_volume/name:{name}	311
import_netapp	311
GET /import_netapp	311
GET /import_netapp/{id}	312
GET /import_netapp/name:{name}	312

import_netapp_volume	312
GET /import_netapp_volume	313
GET /import_netapp_volume/{id}	313
GET /import_netapp_volume/name:{name}	313
POST /import_netapp_volume/{id}/import_snapshot_schedules	314
POST /import_netapp_volume/name:{name}/import_snapshot_schedules	314
import_psgroup	314
GET /import_psgroup	315
GET /import_psgroup/{id}	315
GET /import_psgroup/name:{name}	315
POST /import_psgroup/{id}/discover	316
POST /import_psgroup/name:{name}/discover	316
import_psgroup_volume	316
GET /import_psgroup_volume	316
GET /import_psgroup_volume/{id}	317
GET /import_psgroup_volume/name:{name}	317
POST /import_psgroup_volume/{id}/import_snapshot_schedules	318
POST /import_psgroup_volume/name:{name}/import_snapshot_schedules	318
import_session	318
GET /import_session	319
POST /import_session	319
GET /import_session/{id}	319
GET /import_session/name:{name}	320
DELETE /import_session/{id}	320
DELETE /import_session/name:{name}	320
PATCH /import_session/{id}	321
PATCH /import_session/name:{name}	321
POST /import_session/{id}/cutover	322
POST /import_session/name:{name}/cutover	322
POST /import_session/{id}/cancel	322
POST /import_session/name:{name}/cancel	322
POST /import_session/{id}/pause	323
POST /import_session/name:{name}/pause	323
POST /import_session/{id}/resume	324
POST /import_session/name:{name}/resume	324
POST /import_session/{id}/enable_destination_volume	325
POST /import_session/name:{name}/enable_destination_volume	325
POST /import_session/{id}/start_copy	326
POST /import_session/name:{name}/start_copy	326
POST /import_session/{id}/cleanup	327
POST /import_session/name:{name}/cleanup	327

import_storage_center	327
GET /import_storage_center	327
GET /import_storage_center/{id}	328
GET /import_storage_center/name:{name}	328
POST /import_storage_center/{id}/discover	328
POST /import_storage_center/name:{name}/discover	328
import_storage_center_consistency_group	329
GET /import_storage_center_consistency_group	329
GET /import_storage_center_consistency_group/{id}	330
GET /import_storage_center_consistency_group/name:{name}	330
POST /import_storage_center_consistency_group/{id}/import_snapshot_profiles	331
POST /import_storage_center_consistency_group/name:{name}/import_snapshot_profiles ..	331
import_storage_center_volume	331
GET /import_storage_center_volume	332
GET /import_storage_center_volume/{id}	332
GET /import_storage_center_volume/name:{name}	332
POST /import_storage_center_volume/{id}/import_snapshot_profiles	333
POST /import_storage_center_volume/name:{name}/import_snapshot_profiles	333
import_unity	333
GET /import_unity	334
GET /import_unity/{id}	334
GET /import_unity/name:{name}	334
POST /import_unity/{id}/discover	335
POST /import_unity/name:{name}/discover	335
import_unity_consistency_group	335
GET /import_unity_consistency_group	335
GET /import_unity_consistency_group/{id}	336
GET /import_unity_consistency_group/name:{name}	336
POST /import_unity_consistency_group/{id}/import_snapshot_schedules	336
POST /import_unity_consistency_group/name:{name}/import_snapshot_schedules	337
import_unity_volume	337
GET /import_unity_volume	337
GET /import_unity_volume/{id}	338
GET /import_unity_volume/name:{name}	338
POST /import_unity_volume/{id}/import_snapshot_schedules	338
POST /import_unity_volume/name:{name}/import_snapshot_schedules	339
import_universal_consistency_group	339
GET /import_universal_consistency_group	339
POST /import_universal_consistency_group	340
GET /import_universal_consistency_group/{id}	340
GET /import_universal_consistency_group/name:{name}	340

DELETE /import_universal_consistency_group/{id}	341
DELETE /import_universal_consistency_group/name:{name}	341
PATCH /import_universal_consistency_group/{id}	342
PATCH /import_universal_consistency_group/name:{name}	342
POST /import_universal_consistency_group/{id}/add_members	343
POST /import_universal_consistency_group/name:{name}/add_members	343
POST /import_universal_consistency_group/{id}/remove_members	343
POST /import_universal_consistency_group/name:{name}/remove_members	343
import_universal_volume	344
GET /import_universal_volume	344
GET /import_universal_volume/{id}	345
GET /import_universal_volume/name:{name}	345
PATCH /import_universal_volume/{id}	345
PATCH /import_universal_volume/name:{name}	345
import_vmax	346
GET /import_vmax	346
GET /import_vmax/{id}	347
import_vmax_storage_group	347
GET /import_vmax_storage_group	347
GET /import_vmax_storage_group/{id}	348
GET /import_vmax_storage_group/name:{name}	348
POST /import_vmax_storage_group/{id}/import_snapshot_policy	348
POST /import_vmax_storage_group/name:{name}/import_snapshot_policy	349
import_vmax_volume	349
GET /import_vmax_volume	349
GET /import_vmax_volume/{id}	350
GET /import_vmax_volume/name:{name}	350
import_vnx_array	350
GET /import_vnx_array	351
GET /import_vnx_array/{id}	351
GET /import_vnx_array/name:{name}	351
POST /import_vnx_array/{id}/discover	352
POST /import_vnx_array/name:{name}/discover	352
import_vnx_consistency_group	352
GET /import_vnx_consistency_group	352
GET /import_vnx_consistency_group/{id}	353
GET /import_vnx_consistency_group/name:{name}	353
import_vnx_volume	353
GET /import_vnx_volume	354
GET /import_vnx_volume/{id}	354
GET /import_vnx_volume/name:{name}	354

import_xtremio	355
GET /import_xtremio	355
GET /import_xtremio/{id}	355
GET /import_xtremio/name:{name}	355
POST /import_xtremio/{id}/discover	356
POST /import_xtremio/name:{name}/discover	356
import_xtremio_consistency_group	356
GET /import_xtremio_consistency_group	357
GET /import_xtremio_consistency_group/{id}	357
GET /import_xtremio_consistency_group/name:{name}	357
POST /import_xtremio_consistency_group/{id}/import_snapshot_schedules	358
POST /import_xtremio_consistency_group/name:{name}/import_snapshot_schedules	358
import_xtremio_volume	359
GET /import_xtremio_volume	359
GET /import_xtremio_volume/{id}	359
GET /import_xtremio_volume/name:{name}	359
POST /import_xtremio_volume/{id}/import_snapshot_schedules	360
POST /import_xtremio_volume/name:{name}/import_snapshot_schedules	360
initiator	361
GET /initiator	361
GET /initiator/{id}	361
io_limit_rule	362
GET /io_limit_rule	362
POST /io_limit_rule	363
GET /io_limit_rule/{id}	363
GET /io_limit_rule/name:{name}	363
DELETE /io_limit_rule/{id}	364
DELETE /io_limit_rule/name:{name}	364
PATCH /io_limit_rule/{id}	365
PATCH /io_limit_rule/name:{name}	365
ip_pool_address	366
GET /ip_pool_address	366
GET /ip_pool_address/{id}	367
GET /ip_pool_address/name:{name}	367
ip_port	368
GET /ip_port	368
GET /ip_port/{id}	371
PATCH /ip_port/{id}	371
job	372
GET /job	372
GET /job/{id}	373

keystore_archive	373
POST /keystore_archive/regenerate	373
GET /keystore_archive/{filename}	374
kmip_config	375
GET /kmip_config	375
GET /kmip_config/{id}	376
PATCH /kmip_config/{id}	377
POST /kmip_config/{id}/verify	378
ldap_account	379
GET /ldap_account	379
POST /ldap_account	379
GET /ldap_account/{id}	380
DELETE /ldap_account/{id}	380
PATCH /ldap_account/{id}	381
ldap_domain	382
GET /ldap_domain	382
POST /ldap_domain	382
GET /ldap_domain/{id}	383
DELETE /ldap_domain/{id}	383
PATCH /ldap_domain/{id}	384
POST /ldap_domain/{id}/verify	384
license	385
GET /license	386
GET /license/{id}	386
POST /license/upload	386
POST /license/retrieve	387
POST /license/extend_trial	387
local_user	388
GET /local_user	388
POST /local_user	388
GET /local_user/{id}	389
DELETE /local_user/{id}	389
PATCH /local_user/{id}	390
login_banner	391
GET /login_banner	391
GET /login_banner/{id}	391
PATCH /login_banner/{id}	392
login_session	393
GET /login_session	393
logout	393
POST /logout	393

maintenance_window	394
GET /maintenance_window	394
GET /maintenance_window/{id}	395
PATCH /maintenance_window/{id}	395
metrics	396
POST /metrics/generate	396
metrics_archive	396
GET /metrics_archive	397
POST /metrics_archive/generate	397
GET /metrics_archive/{id}	398
GET /metrics_archive/name:{name}	398
GET /metrics_archive/{id}/download	398
GET /metrics_archive/name:{name}/download	398
mfa_cacpiv	399
GET /mfa_cacpiv	399
POST /mfa_cacpiv	400
GET /mfa_cacpiv/{id}	400
DELETE /mfa_cacpiv/{id}	401
PATCH /mfa_cacpiv/{id}	402
mfa_securid	402
GET /mfa_securid	402
POST /mfa_securid	403
GET /mfa_securid/{id}	404
DELETE /mfa_securid/{id}	404
PATCH /mfa_securid/{id}	405
migration_recommendation	406
GET /migration_recommendation	406
POST /migration_recommendation	406
GET /migration_recommendation/{id}	407
DELETE /migration_recommendation/{id}	407
PATCH /migration_recommendation/{id}	408
POST /migration_recommendation/{id}/create_migration_sessions	409
POST /migration_recommendation/{id}/start_migration_sessions	409
migration_session	410
GET /migration_session	410
POST /migration_session	410
GET /migration_session/{id}	411
GET /migration_session/name:{name}	411
DELETE /migration_session/{id}	412
DELETE /migration_session/name:{name}	412
POST /migration_session/{id}/pause	412

POST /migration_session/name:{name}/pause	412
POST /migration_session/{id}/resume	413
POST /migration_session/name:{name}/resume	413
POST /migration_session/{id}/sync	414
POST /migration_session/name:{name}/sync	414
POST /migration_session/{id}/cutover	415
POST /migration_session/name:{name}/cutover	415
nas_server	415
GET /nas_server	415
POST /nas_server	416
GET /nas_server/{id}	416
GET /nas_server/name:{name}	416
DELETE /nas_server/{id}	417
DELETE /nas_server/name:{name}	417
PATCH /nas_server/{id}	418
PATCH /nas_server/name:{name}	418
POST /nas_server/{id}/ping	419
POST /nas_server/name:{name}/ping	419
POST /nas_server/{id}/upload/passwd	419
POST /nas_server/name:{name}/upload/passwd	419
GET /nas_server/{id}/download/passwd	420
GET /nas_server/name:{name}/download/passwd	420
POST /nas_server/{id}/upload/hosts	421
POST /nas_server/name:{name}/upload/hosts	421
GET /nas_server/{id}/download/hosts	422
GET /nas_server/name:{name}/download/hosts	422
POST /nas_server/{id}/upload/group	422
POST /nas_server/name:{name}/upload/group	422
GET /nas_server/{id}/download/group	423
GET /nas_server/name:{name}/download/group	423
POST /nas_server/{id}/upload/netgroup	424
POST /nas_server/name:{name}/upload/netgroup	424
GET /nas_server/{id}/download/netgroup	425
GET /nas_server/name:{name}/download/netgroup	425
POST /nas_server/{id}/upload/nsswitch	426
POST /nas_server/name:{name}/upload/nsswitch	426
GET /nas_server/{id}/download/nsswitch	426
GET /nas_server/name:{name}/download/nsswitch	426
POST /nas_server/{id}/upload/homedir	427
POST /nas_server/name:{name}/upload/homedir	427
GET /nas_server/{id}/download/homedir	428

GET /nas_server/name:{name}/download/homedir	428
POST /nas_server/{id}/upload/ntxmap	429
POST /nas_server/name:{name}/upload/ntxmap	429
GET /nas_server/{id}/download/ntxmap	430
GET /nas_server/name:{name}/download/ntxmap	430
POST /nas_server/{id}/update_user_mappings	430
POST /nas_server/name:{name}/update_user_mappings	430
GET /nas_server/{id}/download/user_mapping_report	431
GET /nas_server/name:{name}/download/user_mapping_report	431
POST /nas_server/{id}/clone	432
POST /nas_server/name:{name}/clone	432
network	433
GET /network	433
POST /network	434
GET /network/{id}	435
GET /network/name:{name}	435
DELETE /network/{id}	437
DELETE /network/name:{name}	437
PATCH /network/{id}	437
PATCH /network/name:{name}	437
POST /network/{id}/replace	439
POST /network/name:{name}/replace	439
POST /network/{id}/scale	440
POST /network/name:{name}/scale	440
POST /network/{id}/scaling_modify	441
POST /network/name:{name}/scaling_modify	441
nfs_export	443
GET /nfs_export	443
POST /nfs_export	443
GET /nfs_export/{id}	444
GET /nfs_export/name:{name}	444
DELETE /nfs_export/{id}	444
DELETE /nfs_export/name:{name}	444
PATCH /nfs_export/{id}	445
PATCH /nfs_export/name:{name}	445
nfs_server	446
GET /nfs_server	446
POST /nfs_server	446
GET /nfs_server/{id}	447
DELETE /nfs_server/{id}	447
PATCH /nfs_server/{id}	448

POST /nfs_server/{id}/join	448
POST /nfs_server/{id}/unjoin	449
node	450
GET /node	450
GET /node/{id}	450
ntp	451
GET /ntp	451
GET /ntp/{id}	451
PATCH /ntp/{id}	452
ntp_server	453
GET /ntp_server	453
POST /ntp_server	454
GET /ntp_server/{id}	454
DELETE /ntp_server/{id}	455
PATCH /ntp_server/{id}	455
nvme_discovered_cdc	456
GET /nvme_discovered_cdc	456
oidc_service	457
GET /oidc_service	457
POST /oidc_service	458
GET /oidc_service/{id}	458
DELETE /oidc_service/{id}	459
PATCH /oidc_service/{id}	460
POST /oidc_service/{id}/syncup_metadata	460
performance_rule	461
GET /performance_rule	461
GET /performance_rule/{id}	462
GET /performance_rule/name:{name}	462
physical_switch	462
GET /physical_switch	462
POST /physical_switch	463
GET /physical_switch/{id}	465
GET /physical_switch/name:{name}	465
DELETE /physical_switch/{id}	465
DELETE /physical_switch/name:{name}	466
PATCH /physical_switch/{id}	466
PATCH /physical_switch/name:{name}	466
policy	468
GET /policy	468
POST /policy	469
GET /policy/{id}	470

GET /policy/name:{name}	470
DELETE /policy/{id}	470
DELETE /policy/name:{name}	470
PATCH /policy/{id}	471
PATCH /policy/name:{name}	471
POST /policy/{id}/clone	472
POST /policy/name:{name}/clone	472
recycle_bin	472
GET /recycle_bin	473
GET /recycle_bin/{id}	473
GET /recycle_bin/name:{name}	473
DELETE /recycle_bin/{id}	474
DELETE /recycle_bin/name:{name}	474
POST /recycle_bin/{id}/recover	474
POST /recycle_bin/name:{name}/recover	474
POST /recycle_bin/empty	475
recycle_bin_config	475
GET /recycle_bin_config	475
GET /recycle_bin_config/{id}	476
PATCH /recycle_bin_config/{id}	476
remote_support	477
GET /remote_support	477
GET /remote_support/{id}	478
PATCH /remote_support/{id}	478
POST /remote_support/{id}/verify	479
POST /remote_support/{id}/send_test_alert	479
remote_support_contact	480
GET /remote_support_contact	480
GET /remote_support_contact/{id}	481
PATCH /remote_support_contact/{id}	481
remote_syslog_server	482
GET /remote_syslog_server	482
POST /remote_syslog_server	482
GET /remote_syslog_server/{id}	483
DELETE /remote_syslog_server/{id}	483
PATCH /remote_syslog_server/{id}	484
POST /remote_syslog_server/{id}/test	484
remote_system	485
GET /remote_system	486
POST /remote_system	486
GET /remote_system/{id}	489

GET /remote_system/name:{name}	489
DELETE /remote_system/{id}	490
DELETE /remote_system/name:{name}	490
PATCH /remote_system/{id}	490
PATCH /remote_system/name:{name}	490
POST /remote_system/{id}/verify	492
POST /remote_system/name:{name}/verify	492
POST /remote_system/{id}/discover	493
POST /remote_system/name:{name}/discover	493
POST /remote_system/{id}/query_available_powerstore_networks	494
POST /remote_system/name:{name}/query_available_powerstore_networks	494
replication_group	495
GET /replication_group	495
GET /replication_group/{id}	495
GET /replication_group/name:{name}	495
DELETE /replication_group/{id}	496
DELETE /replication_group/name:{name}	496
PATCH /replication_group/{id}	497
PATCH /replication_group/name:{name}	497
replication_rule	498
GET /replication_rule	498
POST /replication_rule	498
GET /replication_rule/{id}	499
GET /replication_rule/name:{name}	499
DELETE /replication_rule/{id}	499
DELETE /replication_rule/name:{name}	499
PATCH /replication_rule/{id}	500
PATCH /replication_rule/name:{name}	500
POST /replication_rule/{id}/clone	501
POST /replication_rule/name:{name}/clone	501
replication_session	502
GET /replication_session	503
GET /replication_session/{id}	503
PATCH /replication_session/{id}	503
POST /replication_session/{id}/sync	504
POST /replication_session/{id}/pause	505
POST /replication_session/{id}/resume	507
POST /replication_session/{id}/failover	507
POST /replication_session/{id}/reprotect	509
POST /replication_session/{id}/promote	509
POST /replication_session/{id}/start_failover_test	510

POST /replication_session/{id}/stop_failover_test	512
POST /replication_session/{id}/demote	513
role	513
GET /role	513
GET /role/{id}	514
sas_port	514
GET /sas_port	515
GET /sas_port/{id}	515
GET /sas_port/name:{name}	515
security_config	516
GET /security_config	516
GET /security_config/{id}	517
PATCH /security_config/{id}	517
POST /security_config/generate_temp_credentials	518
service_action	518
GET /service_action	519
GET /service_action/{id}	519
POST /service_action/{id}/execute	520
service_config	520
GET /service_config	520
GET /service_config/{id}	521
PATCH /service_config/{id}	521
service_user	522
GET /service_user	522
GET /service_user/{id}	523
PATCH /service_user/{id}	523
smb_server	524
GET /smb_server	524
POST /smb_server	525
GET /smb_server/{id}	525
DELETE /smb_server/{id}	526
PATCH /smb_server/{id}	527
POST /smb_server/{id}/join	527
POST /smb_server/{id}/unjoin	528
smb_share	528
GET /smb_share	529
POST /smb_share	529
GET /smb_share/{id}	529
GET /smb_share/name:{name}	530
DELETE /smb_share/{id}	530
DELETE /smb_share/name:{name}	530

PATCH /smb_share/{id}	531
PATCH /smb_share/name:{name}	531
POST /smb_share/{id}/get_acl	532
POST /smb_share/name:{name}/get_acl	532
POST /smb_share/{id}/set_acl	532
POST /smb_share/name:{name}/set_acl	532
smtp_config	533
GET /smtp_config	533
GET /smtp_config/{id}	534
PATCH /smtp_config/{id}	534
POST /smtp_config/{id}/test	535
snapshot_rule	536
GET /snapshot_rule	536
POST /snapshot_rule	536
GET /snapshot_rule/{id}	537
GET /snapshot_rule/name:{name}	537
DELETE /snapshot_rule/{id}	537
DELETE /snapshot_rule/name:{name}	537
PATCH /snapshot_rule/{id}	538
PATCH /snapshot_rule/name:{name}	538
POST /snapshot_rule/{id}/clone	539
POST /snapshot_rule/name:{name}/clone	539
snmp_server	540
GET /snmp_server	540
POST /snmp_server	540
GET /snmp_server/{id}	541
DELETE /snmp_server/{id}	541
PATCH /snmp_server/{id}	542
POST /snmp_server/{id}/test	542
software_installed	543
GET /software_installed	543
GET /software_installed/{id}	544
software_package	544
GET /software_package	544
POST /software_package	545
GET /software_package/{id}	545
GET /software_package/name:{name}	546
DELETE /software_package/{id}	546
DELETE /software_package/name:{name}	546
POST /software_package/{id}/install	547
POST /software_package/name:{name}/install	547

POST /software_package/{id}/puhc	548
POST /software_package/name:{name}/puhc	548
POST /software_package/{id}/download	549
POST /software_package/name:{name}/download	549
POST /software_package/check_for_updates	550
POST /software_package/{id}/cancel_download	550
POST /software_package/name:{name}/cancel_download	550
sso_claim_role_mapping	551
GET /sso_claim_role_mapping	551
POST /sso_claim_role_mapping	551
GET /sso_claim_role_mapping/{id}	552
DELETE /sso_claim_role_mapping/{id}	553
PATCH /sso_claim_role_mapping/{id}	553
sso_metadata	554
GET /sso_metadata	554
GET /sso_metadata/{id}	555
storage_container	555
GET /storage_container	555
POST /storage_container	556
GET /storage_container/{id}	557
GET /storage_container/name:{name}	557
DELETE /storage_container/{id}	557
DELETE /storage_container/name:{name}	557
PATCH /storage_container/{id}	558
PATCH /storage_container/name:{name}	558
POST /storage_container/{id}/mount	559
POST /storage_container/name:{name}/mount	559
POST /storage_container/{id}/unmount	560
POST /storage_container/name:{name}/unmount	560
storage_container_destination	560
GET /storage_container_destination	561
POST /storage_container_destination	561
GET /storage_container_destination/{id}	562
DELETE /storage_container_destination/{id}	562
vcenter	563
GET /vcenter	563
POST /vcenter	564
GET /vcenter/{id}	564
DELETE /vcenter/{id}	565
PATCH /vcenter/{id}	565
veth_port	566

GET /veth_port	566
GET /veth_port/{id}	567
GET /veth_port/name:{name}	568
virtual_machine	568
GET /virtual_machine	568
GET /virtual_machine/{id}	569
GET /virtual_machine/name:{name}	569
DELETE /virtual_machine/{id}	569
DELETE /virtual_machine/name:{name}	569
PATCH /virtual_machine/{id}	570
PATCH /virtual_machine/name:{name}	570
POST /virtual_machine/{id}/snapshot	571
POST /virtual_machine/name:{name}/snapshot	571
virtual_volume	572
GET /virtual_volume	572
GET /virtual_volume/{id}	572
GET /virtual_volume/name:{name}	572
DELETE /virtual_volume/{id}	573
DELETE /virtual_volume/name:{name}	573
POST /virtual_volume/{id}/detach	574
POST /virtual_volume/name:{name}/detach	574
volume	575
GET /volume	575
POST /volume	575
GET /volume/{id}	575
GET /volume/name:{name}	576
DELETE /volume/{id}	576
DELETE /volume/name:{name}	576
PATCH /volume/{id}	577
PATCH /volume/name:{name}	577
POST /volume/{id}/snapshot	578
POST /volume/name:{name}/snapshot	578
POST /volume/{id}/clone	579
POST /volume/name:{name}/clone	579
POST /volume/{id}/refresh	580
POST /volume/name:{name}/refresh	580
POST /volume/{id}/restore	581
POST /volume/name:{name}/restore	581
POST /volume/{id}/attach	582
POST /volume/name:{name}/attach	582
POST /volume/{id}/detach	582

POST /volume/name:{name}/detach	582
POST /volume/{id}/configure_metro	583
POST /volume/name:{name}/configure_metro	583
POST /volume/{id}/end_metro	584
POST /volume/name:{name}/end_metro	584
volume_group	585
GET /volume_group	585
POST /volume_group	585
GET /volume_group/{id}	586
GET /volume_group/name:{name}	586
DELETE /volume_group/{id}	587
DELETE /volume_group/name:{name}	587
PATCH /volume_group/{id}	587
PATCH /volume_group/name:{name}	587
POST /volume_group/{id}/add_members	588
POST /volume_group/name:{name}/add_members	588
POST /volume_group/{id}/remove_members	589
POST /volume_group/name:{name}/remove_members	589
POST /volume_group/{id}/snapshot	590
POST /volume_group/name:{name}/snapshot	590
POST /volume_group/{id}/clone	591
POST /volume_group/name:{name}/clone	591
POST /volume_group/{id}/restore	592
POST /volume_group/name:{name}/restore	592
POST /volume_group/{id}/refresh	593
POST /volume_group/name:{name}/refresh	593
POST /volume_group/{id}/configure_metro	595
POST /volume_group/name:{name}/configure_metro	595
POST /volume_group/{id}/end_metro	596
POST /volume_group/name:{name}/end_metro	596
vsphere_host	597
GET /vsphere_host	597
GET /vsphere_host/{id}	597
GET /vsphere_host/name:{name}	597
vsphere_host_license_assignment	598
GET /vsphere_host_license_assignment	598
GET /vsphere_host_license_assignment/{id}	598
GET /vsphere_host_license_assignment/name:{name}	598
witness	599
GET /witness	599
POST /witness	599

GET /witness/{id}	600
GET /witness/name:{name}	600
DELETE /witness/{id}	601
DELETE /witness/name:{name}	601
PATCH /witness/{id}	601
PATCH /witness/name:{name}	601
x509_certificate	602
GET /x509_certificate	602
POST /x509_certificate	603
GET /x509_certificate/{id}	604
PATCH /x509_certificate/{id}	604
POST /x509_certificate/csr	605
POST /x509_certificate/exchange	606
POST /x509_certificate/reset_certificates	607
Definitions	607
ActivePathEnum	607
AlertStateEnum	608
AnomaliesMetricTypeEnum	608
AnomaliesStatusEnum	608
AnomaliesTypeEnum	608
AppTypeEnum	609
ApplianceModeEnum	610
ApplianceStorageClassEnum	611
ArrayTypeEnum	611
AuditEventTypeEnum	611
BandwidthLimitTypeEnum	612
BondStatusEnum	612
BondingModeEnum	613
BondingTypeEnum	613
CGImportableCriteriaEnum	613
CHAPModeEnum	614
CertUserNamePolicyEnum	614
ClusterExpansionIssueEnum	614
ClusterStateEnum	615
CodeChallengeMethodEnum	616
CopySessionTypeEnum	616
DataCollectionProfileStatusEnum	616
DataConnectionStateEnum	616
DataConnectionTypeEnum	617
DataTransferStateEnum	617
DatacollectionCreatorTypeEnum	618

DatacollectionResourceTypeEnum	618
DatacollectionStatusEnum	619
DatastoreTypeEnum	619
DayOfWeekEnum	619
DaysOfWeekEnum	620
DiscoveredApplianceCompatibilityEnum	620
DiscoveredApplianceSoftwareVersionCompatibilityEnum	621
DiscoveredApplianceStateEnum	621
DriveFailureToleranceAvailabilityEnum	622
DriveFailureToleranceLevelEnum	622
EncryptionTypeEnum	622
EthBEPortProtocolEnum	623
EthBEPortSpeedEnum	623
EthPortSpeedEnum	623
FSNStatusEnum	624
FastMetricsResourceTypeEnum	624
FcPortProtocolEnum	624
FcPortScsiModeEnum	625
FcPortSpeedEnum	625
FileDNSTransportEnum	625
FileEventsCategoryEnum	626
FileEventsPublishingModeEnum	626
FileImportDestinationResourceTypeEnum	626
FileImportNasServerImportableCriteriaEnum	627
FileImportNasServerProtocolTypeEnum	630
FileImportSessionCurrentOperationEnum	630
FileImportSessionReportProtocolEnum	631
FileImportSessionStateEnum	631
FileInterfaceRoleEnum	632
FileInterfaceRouteOperationalStatusEnum	633
FileLDAPAuthenticationTypeEnum	633
FileLDAPProtocolEnum	633
FileLDAPSchemaTypeEnum	634
FileQuotaStateEnum	634
FileSystemAccessPolicyEnum	634
FileSystemConfigTypeEnum	635
FileSystemFLRModeEnum	635
FileSystemFolderRenamePolicyEnum	635
FileSystemHostIoSizeEnum	636
FileSystemLockingPolicyEnum	636
FileSystemSnapshotAccessTypeEnum	636

FileSystemSnapshotCreatorTypeEnum	637
FileSystemTypeEnum	637
FileVirusCheckerOfflinePolicyEnum	637
FileVirusCheckerStatusEnum	637
ForecastMetricTypeEnum	638
ForecastTimeToFullStatusEnum	638
FrontEndPortConnectionTypeEnum	638
HAOSTypeEnum	639
HardwareDriveEncryptionStatusEnum	640
HardwareDriveFIPSSStatusEnum	640
HardwareDriveTypeEnum	640
HardwareEnclosureModelDescriptionEnum	641
HardwareLifecycleStateEnum	641
HardwareModelTypeEnum	642
HardwareSFPConnectorTypeEnum	642
HardwareSFPModeEnum	643
HardwareSFPSpeedEnum	644
HardwareSFPSupportedProtocolEnum	644
HardwareStaleStateEnum	645
HardwareStatusLEDStateEnum	645
HardwareTypeEnum	645
HardwareUpgradeTypeEnum	646
HostAgentStatusEnum	647
HostAgentTypeEnum	647
HostConnectivityEnum	647
HostInitiatorProtocolTypeEnum	648
HostTypeEnum	648
HttpStatusEnum	649
IDPTypeEnum	650
ImportDestinationResourceTypeEnum	650
ImportOperationStatusEnum	650
ImportPsgroupScheduleStatusEnum	651
ImportPsgroupScheduleTypeEnum	651
ImportSessionStateEnum	651
ImportSessionTypeEnum	654
ImportStatusEnum	654
InitiatorProtocolTypeEnum	654
IoPriorityEnum	655
IpPortUsageEnum	655
IpPurposeTypeEnum	656
IpVersionTypeEnum	657

JobPhaseEnum	658
JobStateEnum	658
KMIPConfigStatusEnum	659
LDAPAccountTypeEnum	659
LDAPProtocolEnum	659
LDAPServerTypeEnum	660
LicenseTypeEnum	660
LocationHistoryReasonEnum	660
MFAServiceTypeEnum	661
MessageSeverityEnum	661
MetricsEntityEnum	661
MetricsIntervalEnum	665
MfaSecuridStatusEnum	665
MigrationRecommendationActionStateEnum	665
MigrationRecommendationPrimaryResourceTypeEnum	666
MigrationRecommendationReasonEnum	667
MigrationRecommendationStateEnum	667
MigrationRecommendationTypeEnum	668
MigrationResourceTypeEnum	669
MigrationSessionStateEnum	669
MigrationStateEnum	670
MonthOfYearEnum	671
NASAccessTypeEnum	671
NASServerCurrentUnixDirectoryServiceEnum	672
NASServerOperationalStatusEnum	672
NFSEExportDefaultAccessEnum	673
NFSEExportMinSecurityEnum	673
NVMeDiscoveryModeEnum	673
NetAppContainerStateEnum	674
NetAppSVMStateEnum	674
NetAppScheduleTypeEnum	675
NetAppVolumeStateEnum	675
NetworkPurposeEnum	675
NetworkTypeEnum	676
NodeAffinityEnum	676
NtpAuthnHashAlgorithmEnum	677
NvmeCdcConnectionStateEnum	677
NvmeTransportTypeEnum	678
OSTypeEnum	678
PerformanceBottleneckEnum	678
PhysicalSwitchConnectMethodEnum	679

PhysicalSwitchPurposeEnum	679
PolicyManagedByEnum	679
PolicyTypeEnum	680
PortStateStateEnum	680
PostEventPolicyEnum	680
ProtocolTypeEnum	681
RPOEnum	681
RecycleBinResourceTypeEnum	682
RemoteProtectionCapabilityEnum	682
RemoteSnapshotCreatorTypeEnum	683
RemoteSnapshotResourceTypeEnum	683
RemoteSnapshotSessionStateEnum	683
RemoteSnapshotSessionTypeEnum	685
RemoteSnapshotStateEnum	685
RemoteSupportApplianceConnectivityStatusEnum	685
RemoteSupportTypeEnum	686
RemoteSyslogServerStatusEnum	686
RemoteSystemChapModeEnum	687
RemoteSystemFileConnectionStateEnum	687
RemoteSystemLatencyEnum	687
RemoteSystemStateEnum	688
RemoteSystemTypeEnum	688
ReplicatedResourceTypeEnum	689
ReplicationResourceStateEnum	689
ReplicationRoleEnum	690
ReplicationSessionTypeEnum	690
ReplicationSessionWitnessStateEnum	691
ReplicationStateEnum	691
ResourceActionEnum	693
ResourceTypeEnum	694
SCStatusEnum	694
SMBShareAccessLevelEnum	695
SMBShareAccessTypeEnum	695
SMBShareOfflineAvailabilityEnum	695
SMBShareTrusteeTypeEnum	695
SNMPAuthProtocolEnum	696
SNMPPrivacyProtocolEnum	696
SNMPSeverityEnum	697
SNMPVersionEnum	697
SasPortSpeedEnum	697
ScScheduleTypeEnum	697

ScSnapshotProfileTypeEnum	698
SecurityProtocolModeEnum	698
SensitivityEnum	698
ServiceActionResourceTypeEnum	699
ServiceActionTypeEnum	699
SeverityEnum	699
SnapRuleIntervalEnum	699
SoftwareInstalledBuildFlavorEnum	700
SoftwareInstalledBuildTypeEnum	700
SoftwarePackageBuildFlavorEnum	700
SoftwarePackageBuildTypeEnum	701
SoftwarePackageClassificationChoiceEnum	701
SoftwarePackageStateEnum	701
SoftwarePackageTypeEnum	702
StandardizedSSOClaimsEnum	703
StorageContainerStorageProtocolEnum	703
StorageCreatorTypeEnum	703
StorageElementTypeEnum	704
SupportedCodeChallengeMethodsEnum	704
SupportedGrantTypesEnum	704
SupportedIdTokenSigningAlgValuesEnum	704
SupportedImportTypeEnum	705
SupportedIntrospectionEndpointAuthMethodsEnum	705
SupportedRevocationEndpointAuthMethodsEnum	705
SupportedSubjectTypesEnum	705
SupportedTokenEndpointAuthMethodsEnum	706
ThumbprintAlgorithmEnum	706
TimeZoneEnum	706
TransitConnectionStatusEnum	710
UnityDayOfWeekEnum	711
UnityHealthEnum	711
UnityScheduleTypeEnum	712
UnityScheduleVersionEnum	713
UnityVolumeMigrationStateEnum	713
UnityVolumeTypeEnum	713
VGPlacementRule	714
VendorProviderStatusEnum	714
VirtualMachinePowerStateEnum	714
VirtualMachineStatusEnum	715
VirtualMachineTypeEnum	715
VirtualVolumeTypeEnum	715

VirtualVolumeUsageTypeEnum	716
VmaxVolumeStateEnum	716
VnxVolumeMigrationStateEnum	716
VnxVolumeStateEnum	717
VolumeBlockSizeEnum	717
VolumeImportableCriteriaEnum	718
VolumeStateEnum	720
VolumeStatusEnum	720
VolumeTypeEnum	720
WeekOfMonthEnum	721
WitnessConnectionStateEnum	721
WitnessStateEnum	722
X509CertificateServiceEnum	722
X509CertificateUsageTypeEnum	723
XtremIOCertaintyEnum	723
XtremIODurationUnitEnum	724
XtremIOObjectSeverityEnum	724
XtremIOPlatformEnum	725
XtremIOScheduleStateEnum	725
XtremIOScheduleTypeEnum	725
XtremIOStateEnum	725
active_session_instance	726
alert_instance	727
alert_modify	729
anomalies_create	730
anomalies_in_host_io	730
anomalies_in_host_io_data_instance	733
anomalies_instance	736
appliance_create	737
appliance_create_error_response	738
appliance_delete	738
appliance_forecast	738
appliance_forecast_response	738
appliance_instance	739
appliance_modify	741
appliance_time_to_full	742
appliance_time_to_full_response	742
appliance_validate_create	743
appliance_validate_create_response	743
audit_event_instance	743
base_anomalies_data_instance	745

base_capacity_forecast_response	745
base_copy_metrics_by_appliance	746
base_copy_metrics_by_appliance_rollup	747
base_copy_metrics_by_cluster	748
base_copy_metrics_by_cluster_rollup	749
base_copy_metrics_by_file_system	751
base_copy_metrics_by_file_system_rollup	752
base_copy_metrics_by_nas_server	753
base_copy_metrics_by_nas_server_rollup	754
base_copy_metrics_by_remote_system	755
base_copy_metrics_by_remote_system_rollup	756
base_copy_metrics_by_rg	757
base_copy_metrics_by_rg_rollup	758
base_copy_metrics_by_vg	760
base_copy_metrics_by_vg_rollup	761
base_copy_metrics_by_volume	762
base_copy_metrics_by_volume_rollup	763
base_performance_headroom_by_appliance	765
base_performance_headroom_by_appliance_rollup	772
base_performance_metrics_by_appliance	779
base_performance_metrics_by_appliance_resource_util_rollup	783
base_performance_metrics_by_appliance_rollup	786
base_performance_metrics_by_cluster	795
base_performance_metrics_by_cluster_rollup	798
base_performance_metrics_by_fe_eth_node	806
base_performance_metrics_by_fe_eth_node_rollup	807
base_performance_metrics_by_fe_eth_port	809
base_performance_metrics_by_fe_eth_port_rollup	810
base_performance_metrics_by_fe_fc_node	812
base_performance_metrics_by_fe_fc_node_rollup	816
base_performance_metrics_by_fe_fc_port	825
base_performance_metrics_by_fe_fc_port_rollup	829
base_performance_metrics_by_file_system	838
base_performance_metrics_by_file_system_rollup	840
base_performance_metrics_by_hg	846
base_performance_metrics_by_hg_rollup	849
base_performance_metrics_by_host	856
base_performance_metrics_by_host_rollup	859
base_performance_metrics_by_initiator	866
base_performance_metrics_by_initiator_rollup	869
base_performance_metrics_by_ip_port	876

base_performance_metrics_by_ip_port_iscsi	879
base_performance_metrics_by_ip_port_iscsi_rollup	881
base_performance_metrics_by_ip_port_rollup	889
base_performance_metrics_by_nas_server	896
base_performance_metrics_by_nas_server_rollup	898
base_performance_metrics_by_nfs	905
base_performance_metrics_by_nfs_rollup	907
base_performance_metrics_by_nfsv3	911
base_performance_metrics_by_nfsv3_rollup	912
base_performance_metrics_by_nfsv4	914
base_performance_metrics_by_nfsv4_rollup	915
base_performance_metrics_by_node	917
base_performance_metrics_by_node_rollup	921
base_performance_metrics_by_smb_cache	931
base_performance_metrics_by_smb_cache_rollup	932
base_performance_metrics_by_smb_client	934
base_performance_metrics_by_smb_client_rollup	936
base_performance_metrics_by_smb_node	939
base_performance_metrics_by_smb_node_rollup	941
base_performance_metrics_by_smb_v1_builtin_client	945
base_performance_metrics_by_smb_v1_builtin_client_rollup	946
base_performance_metrics_by_smb_v1_node	950
base_performance_metrics_by_smb_v1_node_rollup	951
base_performance_metrics_by_smb_v2_builtin_client	955
base_performance_metrics_by_smb_v2_builtin_client_rollup	956
base_performance_metrics_by_smb_v2_node	959
base_performance_metrics_by_smb_v2_node_rollup	961
base_performance_metrics_by_vg	964
base_performance_metrics_by_vg_rollup	966
base_performance_metrics_by_vm	970
base_performance_metrics_by_vm_rollup	971
base_performance_metrics_by_volume	974
base_performance_metrics_by_volume_rollup	976
base_performance_metrics_file_by_appliance	980
base_performance_metrics_file_by_appliance_rollup	982
base_performance_metrics_file_by_cluster	986
base_performance_metrics_file_by_cluster_rollup	988
base_performance_metrics_file_by_node	993
base_performance_metrics_file_by_node_rollup	995
base_response	999
base_space_metrics_by_appliance	1000

base_space_metrics_by_appliance_rollup	1003
base_space_metrics_by_cluster	1007
base_space_metrics_by_cluster_rollup	1011
base_space_metrics_by_file_system	1015
base_space_metrics_by_file_system_rollup	1016
base_space_metrics_by_storage_container	1019
base_space_metrics_by_storage_container_rollup	1020
base_space_metrics_by_vg	1024
base_space_metrics_by_vg_rollup	1025
base_space_metrics_by_vm	1028
base_space_metrics_by_vm_rollup	1030
base_space_metrics_by_volume	1033
base_space_metrics_by_volume_family	1034
base_space_metrics_by_volume_family_rollup	1035
base_space_metrics_by_volume_rollup	1038
base_vsphere_appson_metrics_by_appliance	1039
base_vsphere_appson_metrics_by_node	1039
base_vsphere_metrics_by_vm	1040
base_wear_metrics_by_drive_daily_instance	1041
base_wear_metrics_by_drive_instance	1041
bond_create	1042
bond_instance	1042
bond_modify	1044
cert_role_mapping_create	1044
cert_role_mapping_instance	1044
cert_role_mapping_modify	1045
chap_config_instance	1045
chap_config_modify	1046
chap_credentials_instance	1046
cluster_create	1047
cluster_create_appliances	1048
cluster_create_cluster	1048
cluster_create_error_response	1049
cluster_create_networks	1049
cluster_create_physical_switch_connection	1050
cluster_create_physical_switches	1051
cluster_create_security_config	1051
cluster_create_vasa_provider_credentials	1051
cluster_create_vcenters	1052
cluster_discover_fc_targets_response	1053
cluster_forecast	1053

cluster_forecast_response	1053
cluster_instance	1054
cluster_modify	1056
cluster_time_to_full	1056
cluster_time_to_full_response	1057
cluster_validate_create	1057
cluster_validate_create_response	1058
cluster_validate_expand_issue	1058
cluster_validate_expand_response	1059
consistency_group_member_host_group_mapping	1059
consistency_group_member_host_mapping	1060
copy_metrics_by_appliance	1060
copy_metrics_by_appliance_rollup	1061
copy_metrics_by_cluster	1063
copy_metrics_by_cluster_rollup	1064
copy_metrics_by_file_system	1066
copy_metrics_by_file_system_rollup	1067
copy_metrics_by_nas_server	1069
copy_metrics_by_nas_server_rollup	1070
copy_metrics_by_remote_system	1071
copy_metrics_by_remote_system_rollup	1073
copy_metrics_by_replication_session	1074
copy_metrics_by_replication_session_rollup	1076
copy_metrics_by_rg	1077
copy_metrics_by_rg_rollup	1079
copy_metrics_by_vg	1081
copy_metrics_by_vg_rollup	1082
copy_metrics_by_volume	1083
copy_metrics_by_volume_rollup	1085
create_response	1086
data_connection_instance	1087
datacollection_appliance_instance	1087
datacollection_create	1089
datacollection_instance	1090
datacollection_profile_instance	1092
datacollection_resource_instance	1092
datacollection_upload	1093
datastore_instance	1093
discovered_appliance_compatibility	1094
discovered_appliance_drive_failure_tolerance_level_availability	1095
discovered_appliance_instance	1095

discovered_appliance_modify	1098
discovered_appliance_update_software	1098
discovered_initiator_instance	1098
dns_instance	1099
dns_modify	1099
email_notify_destination_create	1100
email_notify_destination_instance	1100
email_notify_destination_modify	1101
error_instance	1101
error_message	1101
error_response	1102
esxi_credentials	1102
eth_be_port_instance	1103
eth_port_instance	1105
eth_port_modify	1109
event_instance	1109
fast_metrics_config_create	1110
fast_metrics_config_instance	1110
fc_port_instance	1111
fc_port_modify	1114
fc_target_instance	1114
file_dhsm_config_create	1114
file_dhsm_config_instance	1115
file_dhsm_config_modify	1115
file_dns_create	1115
file_dns_instance	1116
file_dns_modify	1117
file_events_pool_create	1118
file_events_pool_instance	1118
file_events_pool_modify	1119
file_events_publisher_create	1120
file_events_publisher_instance	1121
file_events_publisher_modify	1123
file_events_settings_instance	1124
file_extended_localized_message	1127
file_ftp_create	1127
file_ftp_instance	1130
file_ftp_modify	1133
file_import_interface_create	1136
file_import_interface_instance	1137
file_import_interface_modify	1138

file_import_nas_server_instance	1138
file_import_session_cancel	1140
file_import_session_commit	1141
file_import_session_create	1141
file_import_session_cutover	1143
file_import_session_cutover_smb_properties	1143
file_import_session_file_interface_mapping	1146
file_import_session_instance	1146
file_import_session_modify	1148
file_import_session_report_current_operation_duration	1149
file_import_session_report_file_system	1151
file_import_session_report_production_net_interface	1152
file_import_session_report_response	1153
file_import_session_report_source_net_interface	1156
file_import_session_report_stage_change_log	1157
file_import_session_report_statistics	1157
file_import_session_report_target_net_interface	1158
file_import_smb_configuration	1159
file_import_source_filesystem	1160
file_import_source_network_interface	1161
file_interface_create	1162
file_interface_instance	1163
file_interface_modify	1165
file_interface_route_create	1166
file_interface_route_instance	1166
file_interface_route_modify	1167
file_interface_source_parameters	1168
file_io_limit_rule_create	1169
file_io_limit_rule_instance	1169
file_io_limit_rule_modify	1170
file_kerberos_create	1170
file_kerberos_instance	1170
file_kerberos_keytab_file	1171
file_kerberos_modify	1171
file_ldap_create	1172
file_ldap_instance	1174
file_ldap_modify	1176
file_ndmp_create	1178
file_ndmp_instance	1179
file_ndmp_modify	1179
file_nis_create	1179

file_nis_instance	1180
file_nis_modify	1181
file_system_clone	1181
file_system_clone_response	1183
file_system_create	1184
file_system_import_state	1187
file_system_instance	1187
file_system_modify	1194
file_system_restore	1199
file_system_restore_response	1199
file_system_snapshot	1199
file_system_snapshot_response	1202
file_tree_quota_create	1202
file_tree_quota_instance	1203
file_tree_quota_modify	1205
file_user_quota_create	1206
file_user_quota_instance	1207
file_user_quota_modify	1209
file_virus_checker_add_privileged_account	1209
file_virus_checker_create	1209
file_virus_checker_get_privileged_accounts_response	1212
file_virus_checker_get_viruschecker_audit_info_response	1212
file_virus_checker_instance	1213
file_virus_checker_modify	1217
file_virus_checker_remove_privileged_account	1220
file_virus_checker_scan_status	1220
file_virus_checker_scan_status_response	1221
file_virus_checker_start_scan	1222
file_virus_checker_stop_scan	1222
flr_clone	1223
flr_create	1223
flr_instance	1224
flr_modify	1226
fsn_create	1228
fsn_instance	1228
fsn_modify	1230
hardware_drive_repurpose	1230
hardware_extra_details_instance	1230
hardware_instance	1233
hardware_modify	1237
hardware_upgrade	1237

hardware_validate_upgrade	1237
host_attach	1238
host_create	1238
host_delete	1239
host_detach	1239
host_group_attach	1239
host_group_create	1239
host_group_detach	1240
host_group_instance	1240
host_group_modify	1241
host_initiator_instance	1241
host_instance	1242
host_modify	1244
host_virtual_volume_mapping_instance	1245
host_volume_mapping_instance	1245
import_host_initiator_instance	1246
import_host_system_create	1247
import_host_system_instance	1247
import_host_volume_instance	1249
import_netapp_cron_schedule_instance	1250
import_netapp_instance	1251
import_netapp_snapshot_schedule_instance	1252
import_netapp_volume_import_snapshot_schedules_response	1253
import_netapp_volume_instance	1253
import_psgroup_instance	1254
import_psgroup_schedule_instance	1255
import_psgroup_volume_import_snapshot_schedules_response	1257
import_psgroup_volume_instance	1257
import_session_cancel	1258
import_session_create	1259
import_session_enable_destination_volume	1261
import_session_instance	1262
import_session_modify	1264
import_storage_center_consistency_group_import_snapshot_profiles_response	1264
import_storage_center_consistency_group_instance	1265
import_storage_center_instance	1265
import_storage_center_snapshot_profile_instance	1267
import_storage_center_volume_import_snapshot_profiles_response	1267
import_storage_center_volume_instance	1267
import_unity_consistency_group_import_snapshot_schedules_response	1269
import_unity_consistency_group_instance	1269

import_unity_instance	1270
import_unity_snapshot_schedule_instance	1272
import_unity_snapshot_schedule_rule_instance	1272
import_unity_volume_import_snapshot_schedules_response	1273
import_unity_volume_instance	1274
import_universal_consistency_group_add_members	1275
import_universal_consistency_group_create	1276
import_universal_consistency_group_instance	1276
import_universal_consistency_group_modify	1277
import_universal_consistency_group_remove_members	1277
import_universal_volume_instance	1278
import_universal_volume_modify	1279
import_vmax_instance	1279
import_vmax_snapshot_policy_instance	1280
import_vmax_storage_group_import_snapshot_policy_response	1281
import_vmax_storage_group_instance	1282
import_vmax_volume_instance	1282
import_vnx_array_instance	1284
import_vnx_consistency_group_instance	1285
import_vnx_volume_instance	1286
import_xtremio_consistency_group_import_snapshot_schedules_response	1288
import_xtremio_consistency_group_instance	1288
import_xtremio_instance	1289
import_xtremio_snapshot_schedule_instance	1291
import_xtremio_snapshot_schedule_retention_policy_instance	1292
import_xtremio_volume_import_snapshot_schedules_response	1294
import_xtremio_volume_instance	1294
initiator_create_modify	1295
initiator_instance	1296
io_limit_rule_create	1297
io_limit_rule_instance	1298
io_limit_rule_modify	1299
ip_pool_address_instance	1300
ip_port_instance	1301
ip_port_modify	1303
job_appliance_create_error_response	1304
job_appliance_forecast_response	1305
job_appliance_time_to_full_response	1305
job_appliance_validate_create_response	1306
job_base_capacity_forecast_response	1307
job_cluster_create_error_response	1307

job_cluster_discover_fc_targets_response	1308
job_cluster_forecast_response	1308
job_cluster_time_to_full_response	1309
job_cluster_validate_create_response	1310
job_cluster_validate_expand_response	1310
job_create_response	1311
job_error_response	1311
job_file_import_session_report_response	1311
job_file_system_clone_response	1314
job_file_system_restore_response	1315
job_file_system_snapshot_response	1315
job_file_virus_checker_get_privileged_accounts_response	1315
job_file_virus_checker_get_viruschecker_audit_info_response	1316
job_file_virus_checker_scan_status_response	1317
job_import_netapp_volume_import_snapshot_schedules_response	1318
job_import_vmax_storage_group_import_snapshot_policy_response	1318
job_instance	1319
job_job_response	1321
job_keystore_archive_regenerate_response	1321
job_metrics_archive_generate_response	1322
job_migration_recommendation_create_migration_sessions_response	1322
job_migration_session_create_response	1322
job_policy_clone_response	1323
job_remote_system_query_available_powerstore_networks_response	1323
job_replication_rule_clone_response	1324
job_replication_session_stop_failover_test_response	1324
job_response	1324
job_security_config_generate_temp_credentials_response	1325
job_smb_share_get_acl_response	1325
job_snapshot_rule_clone_response	1325
job_virtual_machine_snapshot_response	1326
job_volume_clone_response	1326
job_volume_configure_metro_response	1326
job_volume_group_clone_response	1327
job_volume_group_configure_metro_response	1327
job_volume_group_refresh_response	1328
job_volume_group_restore_response	1328
job_volume_group_snapshot_response	1328
job_volume_refresh_response	1329
job_volume_restore_response	1329
job_volume_snapshot_response	1329

job_vvol_error_response	1330
job_x509_certificate_csr_response	1330
keystore_archive_instance	1331
keystore_archive_regenerate_response	1331
kmip_config_instance	1332
kmip_config_member_instance	1332
kmip_config_modify	1333
l2_discovery_details_instance	1334
ldap_account_create	1334
ldap_account_instance	1335
ldap_account_modify	1336
ldap_domain_create	1336
ldap_domain_instance	1338
ldap_domain_modify	1340
license_instance	1342
local_user_create	1343
local_user_instance	1344
local_user_modify	1345
location_history_instance	1346
login_banner_instance	1346
login_banner_modify	1346
login_session_instance	1347
maintenance_window_instance	1347
maintenance_window_modify	1348
member_certificate_instance	1348
member_details_instance	1350
metrics_archive_file	1350
metrics_archive_generate	1350
metrics_archive_generate_response	1350
metrics_archive_instance	1351
metrics_generate	1351
metrics_generate_response	1352
mfa_cacpiv_create	1352
mfa_cacpiv_instance	1352
mfa_cacpiv_modify	1353
mfa_securid_create	1354
mfa_securid_instance	1355
mfa_securid_modify	1356
mfa_service_ref	1357
migration_recommendation_action	1357
migration_recommendation_action_modify	1359

migration_recommendation_create	1360
migration_recommendation_create_migration_sessions_response	1362
migration_recommendation_instance	1362
migration_session_create	1364
migration_session_create_response	1364
migration_session_delete	1365
migration_session_instance	1365
migration_session_sync	1367
nas_server_clone	1367
nas_server_create	1368
nas_server_delete	1369
nas_server_instance	1370
nas_server_modify	1375
nas_server_ping	1378
network_create	1379
network_instance	1381
network_modify	1383
network_replace	1386
network_replace_physical_switch	1388
network_replace_physical_switch_connection	1389
network_replace_smtp_config	1389
network_scale	1390
network_scaling_modify	1391
nfs_export_create	1391
nfs_export_instance	1393
nfs_export_modify	1396
nfs_server_create	1399
nfs_server_delete	1401
nfs_server_instance	1401
nfs_server_join	1403
nfs_server_modify	1403
nfs_server_unjoin	1405
node_instance	1405
ntp_instance	1405
ntp_modify	1406
ntp_server_create	1406
ntp_server_instance	1406
ntp_server_modify	1407
nvme_discovered_cdc_instance	1408
oidc_service_claim_instance	1408
oidc_service_create	1409

oidc_service_idp_application_create	1410
oidc_service_idp_application_instance	1411
oidc_service_idp_application_modify	1411
oidc_service_instance	1412
oidc_service_modify	1414
performance_headroom_by_appliance	1416
performance_headroom_by_appliance_rollup	1423
performance_metrics_by_appliance	1430
performance_metrics_by_appliance_resource_util_rollup	1434
performance_metrics_by_appliance_rollup	1438
performance_metrics_by_cluster	1447
performance_metrics_by_cluster_rollup	1451
performance_metrics_by_fe_eth_node	1459
performance_metrics_by_fe_eth_node_rollup	1460
performance_metrics_by_fe_eth_port	1462
performance_metrics_by_fe_eth_port_rollup	1464
performance_metrics_by_fe_fc_node	1466
performance_metrics_by_fe_fc_node_rollup	1471
performance_metrics_by_fe_fc_port	1479
performance_metrics_by_fe_fc_port_rollup	1484
performance_metrics_by_file_system	1493
performance_metrics_by_file_system_rollup	1495
performance_metrics_by_hg	1501
performance_metrics_by_hg_rollup	1504
performance_metrics_by_host	1512
performance_metrics_by_host_rollup	1515
performance_metrics_by_initiator	1522
performance_metrics_by_initiator_rollup	1525
performance_metrics_by_ip_port	1533
performance_metrics_by_ip_port_iscsi	1536
performance_metrics_by_ip_port_iscsi_rollup	1539
performance_metrics_by_ip_port_rollup	1547
performance_metrics_by_nas_server	1554
performance_metrics_by_nas_server_rollup	1557
performance_metrics_by_node	1564
performance_metrics_by_node_rollup	1569
performance_metrics_by_vg	1579
performance_metrics_by_vg_rollup	1581
performance_metrics_by_vm	1585
performance_metrics_by_vm_rollup	1587
performance_metrics_by_volume	1591

performance_metrics_by_volume_rollup	1593
performance_metrics_file_by_appliance	1597
performance_metrics_file_by_appliance_rollup	1599
performance_metrics_file_by_cluster	1604
performance_metrics_file_by_cluster_rollup	1606
performance_metrics_file_by_node	1611
performance_metrics_file_by_node_rollup	1613
performance_metrics_nfs_by_node	1618
performance_metrics_nfs_by_node_rollup	1620
performance_metrics_nfsv3_by_node	1624
performance_metrics_nfsv3_by_node_rollup	1626
performance_metrics_nfsv4_by_node	1628
performance_metrics_nfsv4_by_node_rollup	1629
performance_metrics_smb1_builtinclient_by_node	1631
performance_metrics_smb1_builtinclient_by_node_rollup	1633
performance_metrics_smb1_by_node	1637
performance_metrics_smb1_by_node_rollup	1639
performance_metrics_smb2_builtinclient_by_node	1642
performance_metrics_smb2_builtinclient_by_node_rollup	1644
performance_metrics_smb2_by_node	1648
performance_metrics_smb2_by_node_rollup	1649
performance_metrics_smb_branch_cache_by_node	1653
performance_metrics_smb_branch_cache_by_node_rollup	1655
performance_metrics_smb_builtinclient_by_node	1657
performance_metrics_smb_builtinclient_by_node_rollup	1659
performance_metrics_smb_by_node	1662
performance_metrics_smb_by_node_rollup	1664
performance_rule_instance	1669
physical_space_used_one_day	1669
physical_switch_connection_create	1670
physical_switch_connection_instance	1670
physical_switch_connection_modify	1671
physical_switch_create	1672
physical_switch_instance	1672
physical_switch_modify	1673
policy_clone	1673
policy_clone_response	1674
policy_create	1674
policy_instance	1674
policy_modify	1677
powerstore_data_network_group	1679

powerstore_network_info	1679
ppdd_storage_unit_details_create	1680
ppdd_storage_unit_details_instance	1681
ppdd_storage_unit_details_modify	1681
protection_data_instance	1682
recycle_bin_config_instance	1683
recycle_bin_config_modify	1684
recycle_bin_instance	1684
remote_appliance_details	1685
remote_member_details_instance	1685
remote_snapshot_instance	1686
remote_snapshot_session_instance	1688
remote_support_contact_instance	1691
remote_support_contact_modify	1692
remote_support_instance	1693
remote_support_modify	1695
remote_support_server_instance	1696
remote_support_server_modify	1697
remote_support_servers_appliance_status_instance	1697
remote_support_verify	1698
remote_syslog_server_create	1699
remote_syslog_server_instance	1700
remote_syslog_server_modify	1701
remote_syslog_server_test	1702
remote_system_create	1702
remote_system_delete	1704
remote_system_instance	1704
remote_system_modify	1709
remote_system_query_available_powerstore_networks	1711
remote_system_query_available_powerstore_networks_response	1711
remote_system_verify	1711
replication_element_pair	1712
replication_group_delete	1712
replication_group_instance	1713
replication_group_modify	1715
replication_rule_clone	1715
replication_rule_clone_response	1715
replication_rule_create	1715
replication_rule_instance	1716
replication_rule_modify	1718
replication_session_demote	1719

replication_session_failover	1719
replication_session_instance	1720
replication_session_modify	1724
replication_session_promote	1724
replication_session_reprotect	1724
replication_session_stop_failover_test_response	1725
replication_session_witness_details	1725
replication_start_failover_test	1726
replication_stop_failover_test	1726
role_instance	1726
sas_port_instance	1727
sc_profile_rule_instance	1729
security_config_generate_temp_credentials_response	1730
security_config_instance	1731
security_config_modify	1732
service_action_execute	1734
service_action_instance	1734
service_config_instance	1735
service_config_modify	1735
service_user_instance	1736
service_user_modify	1736
smb_server_create	1736
smb_server_delete	1738
smb_server_instance	1738
smb_server_join	1740
smb_server_modify	1740
smb_server_unjoin	1742
smb_share_ace	1742
smb_share_create	1743
smb_share_get_acl_response	1744
smb_share_instance	1745
smb_share_modify	1746
smb_share_set_acl	1747
smtp_config_instance	1747
smtp_config_modify	1748
smtp_config_test	1749
snapshot_rule_clone	1749
snapshot_rule_clone_response	1749
snapshot_rule_create	1750
snapshot_rule_delete	1751
snapshot_rule_instance	1751

snapshot_rule_modify	1754
snmp_server_create	1755
snmp_server_instance	1756
snmp_server_modify	1758
software_installed_instance	1758
software_package_install	1760
software_package_instance	1760
software_package_puhc	1762
space_metrics_by_appliance	1763
space_metrics_by_appliance_rollup	1766
space_metrics_by_cluster	1771
space_metrics_by_cluster_rollup	1775
space_metrics_by_file_system	1780
space_metrics_by_file_system_rollup	1781
space_metrics_by_storage_container	1784
space_metrics_by_storage_container_rollup	1786
space_metrics_by_vg	1789
space_metrics_by_vg_rollup	1792
space_metrics_by_vm	1795
space_metrics_by_vm_rollup	1797
space_metrics_by_volume	1800
space_metrics_by_volume_family	1801
space_metrics_by_volume_family_rollup	1803
space_metrics_by_volume_rollup	1805
sso_claim_role_mapping_create	1807
sso_claim_role_mapping_instance	1808
sso_claim_role_mapping_modify	1809
sso_metadata_instance	1809
storage_container_create	1810
storage_container_delete	1811
storage_container_destination_create	1811
storage_container_destination_instance	1812
storage_container_instance	1812
storage_container_modify	1814
storage_container_mount	1814
supported_idp_metadata_instance	1815
unity_file_details_create	1816
unity_file_details_instance	1817
unity_file_details_modify	1817
update_initiator_in_host	1817
valid_upgrade_instance	1818

validate_create_issue	1819
vasa_provider_credentials	1819
vcenter_create	1820
vcenter_delete	1821
vcenter_instance	1821
vcenter_modify	1822
veth_port_instance	1823
virtual_machine_instance	1825
virtual_machine_modify	1828
virtual_machine_snapshot	1828
virtual_machine_snapshot_response	1828
virtual_volume_delete	1828
virtual_volume_detach	1829
virtual_volume_instance	1829
vm_protection_data_instance	1833
volume_attach	1834
volume_clone	1834
volume_clone_response	1835
volume_configure_metro	1835
volume_configure_metro_response	1836
volume_create	1836
volume_delete	1838
volume_detach	1838
volume_end_metro	1839
volume_group_add_members	1839
volume_group_clone	1840
volume_group_clone_response	1841
volume_group_configure_metro	1841
volume_group_configure_metro_response	1841
volume_group_create	1841
volume_group_delete	1843
volume_group_end_metro	1843
volume_group_instance	1844
volume_group_modify	1847
volume_group_refresh	1849
volume_group_refresh_response	1850
volume_group_remove_members	1850
volume_group_restore	1850
volume_group_restore_response	1850
volume_group_snapshot	1851
volume_group_snapshot_response	1851

volume_instance	1852
volume_modify	1856
volume_refresh	1858
volume_refresh_response	1859
volume_restore	1859
volume_restore_response	1859
volume_snapshot	1860
volume_snapshot_response	1861
vsphere_appson_metrics_by_appliance	1861
vsphere_appson_metrics_by_node	1862
vsphere_host_instance	1863
vsphere_host_license_assignment_instance	1864
vsphere_metrics_by_vm	1864
vvol_error_response	1865
wear_metrics_by_drive	1866
wear_metrics_by_drive_daily	1866
wear_metrics_by_drive_daily_instance	1867
wear_metrics_by_drive_instance	1868
wear_metrics_by_drive_rollup	1869
witness_connection_instance	1869
witness_create	1870
witness_instance	1870
witness_modify	1871
x509_certificate_create	1872
x509_certificate_csr	1873
x509_certificate_csr_response	1875
x509_certificate_exchange	1876
x509_certificate_instance	1877
x509_certificate_modify	1879
x509_certificate_reset_certificates	1879

Changelog

Version 4.2.0.0

Paths

Added

- [GET /anomalies](#)
- [POST /anomalies](#)

- [GET /anomalies/{id}](#)
- [GET /oidc_service](#)
- [POST /oidc_service](#)
- [DELETE /oidc_service/{id}](#)
- [GET /oidc_service/{id}](#)
- [PATCH /oidc_service/{id}](#)
- [POST /oidc_service/{id}/syncup_metadata](#)
- [GET /service_action](#)
- [GET /service_action/{id}](#)
- [POST /service_action/{id}/execute](#)
- [GET /sso_claim_role_mapping](#)
- [POST /sso_claim_role_mapping](#)
- [DELETE /sso_claim_role_mapping/{id}](#)
- [GET /sso_claim_role_mapping/{id}](#)
- [PATCH /sso_claim_role_mapping/{id}](#)
- [GET /sso_metadata](#)
- [GET /sso_metadata/{id}](#)

Enumeration values

Deprecated

- [SRS_Gateway](#) in [RemoteSupportTypeEnum](#)
- [Rx_Definitions](#), [Analytics](#), [Pre_Upgrade_HCI](#) in [SoftwarePackageTypeEnum](#)

Added

- [OIDC_TLS](#), [SMTP_TLS](#) in [X509CertificateServiceEnum](#)

Definitions

Deprecated

- [base_performance_headroom_by_appliance::performance_bottleneck_l10n](#)

Added

- [AnomaliesMetricTypeEnum](#)
- [AnomaliesStatusEnum](#)
- [AnomaliesTypeEnum](#)
- [CodeChallengeMethodEnum](#)

- IDPTypeEnum
- SensitivityEnum
- ServiceActionResourceTypeEnum
- ServiceActionTypeEnum
- StandardizedSSOClaimsEnum
- SupportedCodeChallengeMethodsEnum
- SupportedGrantTypesEnum
- SupportedIdTokenSigningAlgValuesEnum
- SupportedIntrospectionEndpointAuthMethodsEnum
- SupportedRevocationEndpointAuthMethodsEnum
- SupportedSubjectTypesEnum
- SupportedTokenEndpointAuthMethodsEnum
- anomalies_create
- anomalies_in_host_io
- anomalies_in_host_io_data_instance
- anomalies_instance
- anomalies_instance::status_l10n
- anomalies_instance::sensitivity_l10n
- anomalies_instance::metric_type_l10n
- anomalies_instance::type_l10n
- base_anomalies_data_instance
- base_anomalies_data_instance::type_l10n
- base_performance_headroom_by_appliance_rollup
- oidc_service_claim_instance
- oidc_service_create
- oidc_service_idp_application_create
- oidc_service_idp_application_instance
- oidc_service_idp_application_modify
- oidc_service_instance
- oidc_service_modify
- performance_headroom_by_appliance_rollup
- service_action_execute
- service_action_instance
- service_action_instance::id_l10n
- smtp_config_instance::is_starttls_enabled

- `smtp_config_instance::smtp_username`
- `smtp_config_modify::is_starttls_enabled`
- `smtp_config_modify::smtp_username`
- `sso_claim_role_mapping_create`
- `sso_claim_role_mapping_instance`
- `sso_claim_role_mapping_modify`
- `sso_metadata_instance`
- `supported_idp_metadata_instance`

Definition members

Deprecated

- `performance_bottleneck` in `base_performance_headroom_by_appliance`
- `performance_bottleneck_l10n` in `base_performance_headroom_by_appliance`

Added

- `status_l10n` in `anomalies_instance`
- `sensitivity_l10n` in `anomalies_instance`
- `metric_type_l10n` in `anomalies_instance`
- `type_l10n` in `anomalies_instance`
- `type_l10n` in `base_anomalies_data_instance`
- `performance_bottlenecks` in `base_performance_headroom_by_appliance`
- `performance_bottlenecks_l10n` in `base_performance_headroom_by_appliance`
- `performance_bottlenecks_l10n` in `base_performance_headroom_by_appliance_rollup`
- `sso_preferred_system_addresses` in `security_config_instance`
- `sso_redirect_urls` in `security_config_instance`
- `sso_logout_urls` in `security_config_instance`
- `add_sso_preferred_system_addresses` in `security_config_modify`
- `remove_sso_preferred_system_addresses` in `security_config_modify`
- `resource_types` in `service_action_instance`
- `id_l10n` in `service_action_instance`
- `resource_types_l10n` in `service_action_instance`
- `is_starttls_enabled` in `smtp_config_instance`
- `smtp_username` in `smtp_config_instance`
- `is_starttls_enabled` in `smtp_config_modify`
- `smtp_username` in `smtp_config_modify`

- `smtp_password` in `smtp_config_modify`
- `supported_grant_types_110n` in `supported_idp_metadata_instance`
- `supported_subject_types_110n` in `supported_idp_metadata_instance`
- `supported_token_endpoint_auth_methods_110n` in `supported_idp_metadata_instance`
- `supported_revocation_endpoint_auth_methods_110n` in `supported_idp_metadata_instance`
- `supported_introspection_endpoint_auth_methods_110n` in `supported_idp_metadata_instance`

Version 4.1.0.0

Paths

Added

- GET `/cert_role_mapping`
- POST `/cert_role_mapping`
- DELETE `/cert_role_mapping/{id}`
- GET `/cert_role_mapping/{id}`
- PATCH `/cert_role_mapping/{id}`
- POST `/cluster/{id}/validate_expand`
- GET `/file_io_limit_rule`
- POST `/file_io_limit_rule`
- DELETE `/file_io_limit_rule/{id}`
- GET `/file_io_limit_rule/{id}`
- PATCH `/file_io_limit_rule/{id}`
- GET `/mfa_cacpiv`
- POST `/mfa_cacpiv`
- DELETE `/mfa_cacpiv/{id}`
- GET `/mfa_cacpiv/{id}`
- PATCH `/mfa_cacpiv/{id}`
- GET `/ntp_server`
- POST `/ntp_server`
- DELETE `/ntp_server/{id}`
- GET `/ntp_server/{id}`
- PATCH `/ntp_server/{id}`
- POST `/security_config/generate_temp_credentials`
- POST `/virtual_volume/{id}/detach`

Enumeration values

Added

- `Boot_Volume_Other` in `AppTypeEnum`
- `Incompatible_Object_Limit_Mismatch`, `Operation_Failed` in `DiscoveredApplianceCompatibilityEnum`
- `NFS_SMB_Multiprotocol`, `NFS_SMB_Non_Multiprotocol` in `FileImportNasServerProtocolTypeEnum`
- `NFS_SMB_Multiprotocol`, `NFS_SMB_Non_Multiprotocol` in `FileImportSessionReportProtocolEnum`
- `MFA_CACPIV` in `MFAServiceTypeEnum`
- `performance_headroom_by_appliance`, `performance_metrics_by_appliance_resource_util`, `copy_metrics_by_replication_session` in `MetricsEntityEnum`
- `File_Performance` in `PolicyTypeEnum`
- `CACPIV_HTTP` in `X509CertificateServiceEnum`

Definitions

Deprecated

- `nas_server_clone::clone_flr_file_systems`
- `remote_support_instance::is_clouddiq_enabled`
- `remote_support_modify::is_clouddiq_enabled`

Added

- `CertUserNamePolicyEnum`
- `ClusterExpansionIssueEnum`
- `DataCollectionProfileStatusEnum`
- `NtpAuthnHashAlgorithmEnum`
- `PerformanceBottleneckEnum`
- `base_performance_headroom_by_appliance`
- `base_performance_headroom_by_appliance::performance_bottleneck_l10n`
- `base_performance_metrics_by_appliance::unmap_iops`
- `base_performance_metrics_by_appliance::copy_iops`
- `base_performance_metrics_by_appliance::zero_iops`
- `base_performance_metrics_by_appliance::unmap_bandwidth`
- `base_performance_metrics_by_appliance::copy_bandwidth`
- `base_performance_metrics_by_appliance::zero_bandwidth`
- `base_performance_metrics_by_appliance::avg_unmap_io_size`
- `base_performance_metrics_by_appliance::avg_copy_io_size`

- `base_performance_metrics_by_appliance::avg_zero_io_size`
- `base_performance_metrics_by_appliance::avg_unmap_latency`
- `base_performance_metrics_by_appliance::avg_copy_latency`
- `base_performance_metrics_by_appliance::avg_zero_latency`
- `base_performance_metrics_by_appliance_resource_util_rollup`
- `base_performance_metrics_by_appliance_rollup::avg_unmap_iops`
- `base_performance_metrics_by_appliance_rollup::avg_copy_iops`
- `base_performance_metrics_by_appliance_rollup::avg_zero_iops`
- `base_performance_metrics_by_appliance_rollup::avg_unmap_bandwidth`
- `base_performance_metrics_by_appliance_rollup::avg_copy_bandwidth`
- `base_performance_metrics_by_appliance_rollup::avg_zero_bandwidth`
- `base_performance_metrics_by_appliance_rollup::avg_unmap_io_size`
- `base_performance_metrics_by_appliance_rollup::avg_copy_io_size`
- `base_performance_metrics_by_appliance_rollup::avg_zero_io_size`
- `base_performance_metrics_by_appliance_rollup::avg_unmap_latency`
- `base_performance_metrics_by_appliance_rollup::avg_copy_latency`
- `base_performance_metrics_by_appliance_rollup::avg_zero_latency`
- `base_performance_metrics_by_appliance_rollup::max_unmap_iops`
- `base_performance_metrics_by_appliance_rollup::max_copy_iops`
- `base_performance_metrics_by_appliance_rollup::max_zero_iops`
- `base_performance_metrics_by_appliance_rollup::max_unmap_bandwidth`
- `base_performance_metrics_by_appliance_rollup::max_copy_bandwidth`
- `base_performance_metrics_by_appliance_rollup::max_zero_bandwidth`
- `base_performance_metrics_by_appliance_rollup::max_avg_unmap_io_size`
- `base_performance_metrics_by_appliance_rollup::max_avg_copy_io_size`
- `base_performance_metrics_by_appliance_rollup::max_avg_zero_io_size`
- `base_performance_metrics_by_appliance_rollup::max_avg_unmap_latency`
- `base_performance_metrics_by_appliance_rollup::max_avg_copy_latency`
- `base_performance_metrics_by_appliance_rollup::max_avg_zero_latency`
- `base_performance_metrics_by_cluster::unmap_iops`
- `base_performance_metrics_by_cluster::copy_iops`
- `base_performance_metrics_by_cluster::zero_iops`
- `base_performance_metrics_by_cluster::unmap_bandwidth`
- `base_performance_metrics_by_cluster::copy_bandwidth`
- `base_performance_metrics_by_cluster::zero_bandwidth`

- `base_performance_metrics_by_cluster::avg_unmap_io_size`
- `base_performance_metrics_by_cluster::avg_copy_io_size`
- `base_performance_metrics_by_cluster::avg_zero_io_size`
- `base_performance_metrics_by_cluster::avg_unmap_latency`
- `base_performance_metrics_by_cluster::avg_copy_latency`
- `base_performance_metrics_by_cluster::avg_zero_latency`
- `base_performance_metrics_by_cluster_rollup::avg_unmap_iops`
- `base_performance_metrics_by_cluster_rollup::avg_copy_iops`
- `base_performance_metrics_by_cluster_rollup::avg_zero_iops`
- `base_performance_metrics_by_cluster_rollup::avg_unmap_bandwidth`
- `base_performance_metrics_by_cluster_rollup::avg_copy_bandwidth`
- `base_performance_metrics_by_cluster_rollup::avg_zero_bandwidth`
- `base_performance_metrics_by_cluster_rollup::avg_unmap_io_size`
- `base_performance_metrics_by_cluster_rollup::avg_copy_io_size`
- `base_performance_metrics_by_cluster_rollup::avg_zero_io_size`
- `base_performance_metrics_by_cluster_rollup::avg_unmap_latency`
- `base_performance_metrics_by_cluster_rollup::avg_copy_latency`
- `base_performance_metrics_by_cluster_rollup::avg_zero_latency`
- `base_performance_metrics_by_cluster_rollup::max_unmap_iops`
- `base_performance_metrics_by_cluster_rollup::max_copy_iops`
- `base_performance_metrics_by_cluster_rollup::max_zero_iops`
- `base_performance_metrics_by_cluster_rollup::max_unmap_bandwidth`
- `base_performance_metrics_by_cluster_rollup::max_copy_bandwidth`
- `base_performance_metrics_by_cluster_rollup::max_zero_bandwidth`
- `base_performance_metrics_by_cluster_rollup::max_avg_unmap_io_size`
- `base_performance_metrics_by_cluster_rollup::max_avg_copy_io_size`
- `base_performance_metrics_by_cluster_rollup::max_avg_zero_io_size`
- `base_performance_metrics_by_cluster_rollup::max_avg_unmap_latency`
- `base_performance_metrics_by_cluster_rollup::max_avg_copy_latency`
- `base_performance_metrics_by_cluster_rollup::max_avg_zero_latency`
- `base_performance_metrics_by_fe_fc_node::unmap_iops`
- `base_performance_metrics_by_fe_fc_node::copy_iops`
- `base_performance_metrics_by_fe_fc_node::zero_iops`
- `base_performance_metrics_by_fe_fc_node::unmap_bandwidth`
- `base_performance_metrics_by_fe_fc_node::copy_bandwidth`

- `base_performance_metrics_by_fe_fc_node::zero_bandwidth`
- `base_performance_metrics_by_fe_fc_node::avg_unmap_io_size`
- `base_performance_metrics_by_fe_fc_node::avg_copy_io_size`
- `base_performance_metrics_by_fe_fc_node::avg_zero_io_size`
- `base_performance_metrics_by_fe_fc_node::avg_unmap_latency`
- `base_performance_metrics_by_fe_fc_node::avg_copy_latency`
- `base_performance_metrics_by_fe_fc_node::avg_zero_latency`
- `base_performance_metrics_by_fe_fc_node_rollup::avg_unmap_iops`
- `base_performance_metrics_by_fe_fc_node_rollup::avg_copy_iops`
- `base_performance_metrics_by_fe_fc_node_rollup::avg_zero_iops`
- `base_performance_metrics_by_fe_fc_node_rollup::avg_unmap_bandwidth`
- `base_performance_metrics_by_fe_fc_node_rollup::avg_copy_bandwidth`
- `base_performance_metrics_by_fe_fc_node_rollup::avg_zero_bandwidth`
- `base_performance_metrics_by_fe_fc_node_rollup::avg_unmap_io_size`
- `base_performance_metrics_by_fe_fc_node_rollup::avg_copy_io_size`
- `base_performance_metrics_by_fe_fc_node_rollup::avg_zero_io_size`
- `base_performance_metrics_by_fe_fc_node_rollup::avg_unmap_latency`
- `base_performance_metrics_by_fe_fc_node_rollup::avg_copy_latency`
- `base_performance_metrics_by_fe_fc_node_rollup::avg_zero_latency`
- `base_performance_metrics_by_fe_fc_node_rollup::max_unmap_iops`
- `base_performance_metrics_by_fe_fc_node_rollup::max_copy_iops`
- `base_performance_metrics_by_fe_fc_node_rollup::max_zero_iops`
- `base_performance_metrics_by_fe_fc_node_rollup::max_unmap_bandwidth`
- `base_performance_metrics_by_fe_fc_node_rollup::max_copy_bandwidth`
- `base_performance_metrics_by_fe_fc_node_rollup::max_zero_bandwidth`
- `base_performance_metrics_by_fe_fc_node_rollup::max_avg_unmap_io_size`
- `base_performance_metrics_by_fe_fc_node_rollup::max_avg_copy_io_size`
- `base_performance_metrics_by_fe_fc_node_rollup::max_avg_zero_io_size`
- `base_performance_metrics_by_fe_fc_node_rollup::max_avg_unmap_latency`
- `base_performance_metrics_by_fe_fc_node_rollup::max_avg_copy_latency`
- `base_performance_metrics_by_fe_fc_node_rollup::max_avg_zero_latency`
- `base_performance_metrics_by_fe_fc_port::unmap_iops`
- `base_performance_metrics_by_fe_fc_port::copy_iops`
- `base_performance_metrics_by_fe_fc_port::zero_iops`
- `base_performance_metrics_by_fe_fc_port::unmap_bandwidth`

- `base_performance_metrics_by_fe_fc_port::copy_bandwidth`
- `base_performance_metrics_by_fe_fc_port::zero_bandwidth`
- `base_performance_metrics_by_fe_fc_port::avg_unmap_io_size`
- `base_performance_metrics_by_fe_fc_port::avg_copy_io_size`
- `base_performance_metrics_by_fe_fc_port::avg_zero_io_size`
- `base_performance_metrics_by_fe_fc_port::avg_unmap_latency`
- `base_performance_metrics_by_fe_fc_port::avg_copy_latency`
- `base_performance_metrics_by_fe_fc_port::avg_zero_latency`
- `base_performance_metrics_by_fe_fc_port_rollup::avg_unmap_iops`
- `base_performance_metrics_by_fe_fc_port_rollup::avg_copy_iops`
- `base_performance_metrics_by_fe_fc_port_rollup::avg_zero_iops`
- `base_performance_metrics_by_fe_fc_port_rollup::avg_unmap_bandwidth`
- `base_performance_metrics_by_fe_fc_port_rollup::avg_copy_bandwidth`
- `base_performance_metrics_by_fe_fc_port_rollup::avg_zero_bandwidth`
- `base_performance_metrics_by_fe_fc_port_rollup::avg_unmap_io_size`
- `base_performance_metrics_by_fe_fc_port_rollup::avg_copy_io_size`
- `base_performance_metrics_by_fe_fc_port_rollup::avg_zero_io_size`
- `base_performance_metrics_by_fe_fc_port_rollup::avg_unmap_latency`
- `base_performance_metrics_by_fe_fc_port_rollup::avg_copy_latency`
- `base_performance_metrics_by_fe_fc_port_rollup::avg_zero_latency`
- `base_performance_metrics_by_fe_fc_port_rollup::max_unmap_iops`
- `base_performance_metrics_by_fe_fc_port_rollup::max_copy_iops`
- `base_performance_metrics_by_fe_fc_port_rollup::max_zero_iops`
- `base_performance_metrics_by_fe_fc_port_rollup::max_unmap_bandwidth`
- `base_performance_metrics_by_fe_fc_port_rollup::max_copy_bandwidth`
- `base_performance_metrics_by_fe_fc_port_rollup::max_zero_bandwidth`
- `base_performance_metrics_by_fe_fc_port_rollup::max_avg_unmap_io_size`
- `base_performance_metrics_by_fe_fc_port_rollup::max_avg_copy_io_size`
- `base_performance_metrics_by_fe_fc_port_rollup::max_avg_zero_io_size`
- `base_performance_metrics_by_fe_fc_port_rollup::max_avg_unmap_latency`
- `base_performance_metrics_by_fe_fc_port_rollup::max_avg_copy_latency`
- `base_performance_metrics_by_fe_fc_port_rollup::max_avg_zero_latency`
- `base_performance_metrics_by_hg::unmap_iops`
- `base_performance_metrics_by_hg::copy_iops`
- `base_performance_metrics_by_hg::zero_iops`

- `base_performance_metrics_by_hg::unmap_bandwidth`
- `base_performance_metrics_by_hg::copy_bandwidth`
- `base_performance_metrics_by_hg::zero_bandwidth`
- `base_performance_metrics_by_hg::avg_unmap_io_size`
- `base_performance_metrics_by_hg::avg_copy_io_size`
- `base_performance_metrics_by_hg::avg_zero_io_size`
- `base_performance_metrics_by_hg::avg_unmap_latency`
- `base_performance_metrics_by_hg::avg_copy_latency`
- `base_performance_metrics_by_hg::avg_zero_latency`
- `base_performance_metrics_by_hg_rollup::avg_unmap_iops`
- `base_performance_metrics_by_hg_rollup::avg_copy_iops`
- `base_performance_metrics_by_hg_rollup::avg_zero_iops`
- `base_performance_metrics_by_hg_rollup::avg_unmap_bandwidth`
- `base_performance_metrics_by_hg_rollup::avg_copy_bandwidth`
- `base_performance_metrics_by_hg_rollup::avg_zero_bandwidth`
- `base_performance_metrics_by_hg_rollup::avg_unmap_io_size`
- `base_performance_metrics_by_hg_rollup::avg_copy_io_size`
- `base_performance_metrics_by_hg_rollup::avg_zero_io_size`
- `base_performance_metrics_by_hg_rollup::avg_unmap_latency`
- `base_performance_metrics_by_hg_rollup::avg_copy_latency`
- `base_performance_metrics_by_hg_rollup::avg_zero_latency`
- `base_performance_metrics_by_hg_rollup::max_unmap_iops`
- `base_performance_metrics_by_hg_rollup::max_copy_iops`
- `base_performance_metrics_by_hg_rollup::max_zero_iops`
- `base_performance_metrics_by_hg_rollup::max_unmap_bandwidth`
- `base_performance_metrics_by_hg_rollup::max_copy_bandwidth`
- `base_performance_metrics_by_hg_rollup::max_zero_bandwidth`
- `base_performance_metrics_by_hg_rollup::max_avg_unmap_io_size`
- `base_performance_metrics_by_hg_rollup::max_avg_copy_io_size`
- `base_performance_metrics_by_hg_rollup::max_avg_zero_io_size`
- `base_performance_metrics_by_hg_rollup::max_avg_unmap_latency`
- `base_performance_metrics_by_hg_rollup::max_avg_copy_latency`
- `base_performance_metrics_by_hg_rollup::max_avg_zero_latency`
- `base_performance_metrics_by_host::unmap_iops`
- `base_performance_metrics_by_host::copy_iops`

- `base_performance_metrics_by_host::zero_iops`
- `base_performance_metrics_by_host::unmap_bandwidth`
- `base_performance_metrics_by_host::copy_bandwidth`
- `base_performance_metrics_by_host::zero_bandwidth`
- `base_performance_metrics_by_host::avg_unmap_io_size`
- `base_performance_metrics_by_host::avg_copy_io_size`
- `base_performance_metrics_by_host::avg_zero_io_size`
- `base_performance_metrics_by_host::avg_unmap_latency`
- `base_performance_metrics_by_host::avg_copy_latency`
- `base_performance_metrics_by_host::avg_zero_latency`
- `base_performance_metrics_by_host_rollup::avg_unmap_iops`
- `base_performance_metrics_by_host_rollup::avg_copy_iops`
- `base_performance_metrics_by_host_rollup::avg_zero_iops`
- `base_performance_metrics_by_host_rollup::avg_unmap_bandwidth`
- `base_performance_metrics_by_host_rollup::avg_copy_bandwidth`
- `base_performance_metrics_by_host_rollup::avg_zero_bandwidth`
- `base_performance_metrics_by_host_rollup::avg_unmap_io_size`
- `base_performance_metrics_by_host_rollup::avg_copy_io_size`
- `base_performance_metrics_by_host_rollup::avg_zero_io_size`
- `base_performance_metrics_by_host_rollup::avg_unmap_latency`
- `base_performance_metrics_by_host_rollup::avg_copy_latency`
- `base_performance_metrics_by_host_rollup::avg_zero_latency`
- `base_performance_metrics_by_host_rollup::max_unmap_iops`
- `base_performance_metrics_by_host_rollup::max_copy_iops`
- `base_performance_metrics_by_host_rollup::max_zero_iops`
- `base_performance_metrics_by_host_rollup::max_unmap_bandwidth`
- `base_performance_metrics_by_host_rollup::max_copy_bandwidth`
- `base_performance_metrics_by_host_rollup::max_zero_bandwidth`
- `base_performance_metrics_by_host_rollup::max_avg_unmap_io_size`
- `base_performance_metrics_by_host_rollup::max_avg_copy_io_size`
- `base_performance_metrics_by_host_rollup::max_avg_zero_io_size`
- `base_performance_metrics_by_host_rollup::max_avg_unmap_latency`
- `base_performance_metrics_by_host_rollup::max_avg_copy_latency`
- `base_performance_metrics_by_host_rollup::max_avg_zero_latency`
- `base_performance_metrics_by_initiator::unmap_iops`

- `base_performance_metrics_by_initiator::copy_iops`
- `base_performance_metrics_by_initiator::zero_iops`
- `base_performance_metrics_by_initiator::unmap_bandwidth`
- `base_performance_metrics_by_initiator::copy_bandwidth`
- `base_performance_metrics_by_initiator::zero_bandwidth`
- `base_performance_metrics_by_initiator::avg_unmap_io_size`
- `base_performance_metrics_by_initiator::avg_copy_io_size`
- `base_performance_metrics_by_initiator::avg_zero_io_size`
- `base_performance_metrics_by_initiator::avg_unmap_latency`
- `base_performance_metrics_by_initiator::avg_copy_latency`
- `base_performance_metrics_by_initiator::avg_zero_latency`
- `base_performance_metrics_by_initiator_rollup::avg_unmap_iops`
- `base_performance_metrics_by_initiator_rollup::avg_copy_iops`
- `base_performance_metrics_by_initiator_rollup::avg_zero_iops`
- `base_performance_metrics_by_initiator_rollup::avg_unmap_bandwidth`
- `base_performance_metrics_by_initiator_rollup::avg_copy_bandwidth`
- `base_performance_metrics_by_initiator_rollup::avg_zero_bandwidth`
- `base_performance_metrics_by_initiator_rollup::avg_unmap_io_size`
- `base_performance_metrics_by_initiator_rollup::avg_copy_io_size`
- `base_performance_metrics_by_initiator_rollup::avg_zero_io_size`
- `base_performance_metrics_by_initiator_rollup::avg_unmap_latency`
- `base_performance_metrics_by_initiator_rollup::avg_copy_latency`
- `base_performance_metrics_by_initiator_rollup::avg_zero_latency`
- `base_performance_metrics_by_initiator_rollup::max_unmap_iops`
- `base_performance_metrics_by_initiator_rollup::max_copy_iops`
- `base_performance_metrics_by_initiator_rollup::max_zero_iops`
- `base_performance_metrics_by_initiator_rollup::max_unmap_bandwidth`
- `base_performance_metrics_by_initiator_rollup::max_copy_bandwidth`
- `base_performance_metrics_by_initiator_rollup::max_zero_bandwidth`
- `base_performance_metrics_by_initiator_rollup::max_avg_unmap_io_size`
- `base_performance_metrics_by_initiator_rollup::max_avg_copy_io_size`
- `base_performance_metrics_by_initiator_rollup::max_avg_zero_io_size`
- `base_performance_metrics_by_initiator_rollup::max_avg_unmap_latency`
- `base_performance_metrics_by_initiator_rollup::max_avg_copy_latency`
- `base_performance_metrics_by_initiator_rollup::max_avg_zero_latency`

- `base_performance_metrics_by_ip_port::unmap_iops`
- `base_performance_metrics_by_ip_port::copy_iops`
- `base_performance_metrics_by_ip_port::zero_iops`
- `base_performance_metrics_by_ip_port::unmap_bandwidth`
- `base_performance_metrics_by_ip_port::copy_bandwidth`
- `base_performance_metrics_by_ip_port::zero_bandwidth`
- `base_performance_metrics_by_ip_port::avg_unmap_io_size`
- `base_performance_metrics_by_ip_port::avg_copy_io_size`
- `base_performance_metrics_by_ip_port::avg_zero_io_size`
- `base_performance_metrics_by_ip_port::avg_unmap_latency`
- `base_performance_metrics_by_ip_port::avg_copy_latency`
- `base_performance_metrics_by_ip_port::avg_zero_latency`
- `base_performance_metrics_by_ip_port_iscsi::unmap_iops`
- `base_performance_metrics_by_ip_port_iscsi::copy_iops`
- `base_performance_metrics_by_ip_port_iscsi::zero_iops`
- `base_performance_metrics_by_ip_port_iscsi::unmap_bandwidth`
- `base_performance_metrics_by_ip_port_iscsi::copy_bandwidth`
- `base_performance_metrics_by_ip_port_iscsi::zero_bandwidth`
- `base_performance_metrics_by_ip_port_iscsi::avg_unmap_io_size`
- `base_performance_metrics_by_ip_port_iscsi::avg_copy_io_size`
- `base_performance_metrics_by_ip_port_iscsi::avg_zero_io_size`
- `base_performance_metrics_by_ip_port_iscsi::avg_unmap_latency`
- `base_performance_metrics_by_ip_port_iscsi::avg_copy_latency`
- `base_performance_metrics_by_ip_port_iscsi::avg_zero_latency`
- `base_performance_metrics_by_ip_port_iscsi_rollup::avg_unmap_iops`
- `base_performance_metrics_by_ip_port_iscsi_rollup::avg_copy_iops`
- `base_performance_metrics_by_ip_port_iscsi_rollup::avg_zero_iops`
- `base_performance_metrics_by_ip_port_iscsi_rollup::avg_unmap_bandwidth`
- `base_performance_metrics_by_ip_port_iscsi_rollup::avg_copy_bandwidth`
- `base_performance_metrics_by_ip_port_iscsi_rollup::avg_zero_bandwidth`
- `base_performance_metrics_by_ip_port_iscsi_rollup::avg_unmap_io_size`
- `base_performance_metrics_by_ip_port_iscsi_rollup::avg_copy_io_size`
- `base_performance_metrics_by_ip_port_iscsi_rollup::avg_zero_io_size`
- `base_performance_metrics_by_ip_port_iscsi_rollup::avg_unmap_latency`
- `base_performance_metrics_by_ip_port_iscsi_rollup::avg_copy_latency`

- `base_performance_metrics_by_ip_port_iscsi_rollup::avg_zero_latency`
- `base_performance_metrics_by_ip_port_iscsi_rollup::max_unmap_iops`
- `base_performance_metrics_by_ip_port_iscsi_rollup::max_copy_iops`
- `base_performance_metrics_by_ip_port_iscsi_rollup::max_zero_iops`
- `base_performance_metrics_by_ip_port_iscsi_rollup::max_unmap_bandwidth`
- `base_performance_metrics_by_ip_port_iscsi_rollup::max_copy_bandwidth`
- `base_performance_metrics_by_ip_port_iscsi_rollup::max_zero_bandwidth`
- `base_performance_metrics_by_ip_port_iscsi_rollup::max_avg_unmap_io_size`
- `base_performance_metrics_by_ip_port_iscsi_rollup::max_avg_copy_io_size`
- `base_performance_metrics_by_ip_port_iscsi_rollup::max_avg_zero_io_size`
- `base_performance_metrics_by_ip_port_iscsi_rollup::max_avg_unmap_latency`
- `base_performance_metrics_by_ip_port_iscsi_rollup::max_avg_copy_latency`
- `base_performance_metrics_by_ip_port_iscsi_rollup::max_avg_zero_latency`
- `base_performance_metrics_by_ip_port_rollup::avg_unmap_iops`
- `base_performance_metrics_by_ip_port_rollup::avg_copy_iops`
- `base_performance_metrics_by_ip_port_rollup::avg_zero_iops`
- `base_performance_metrics_by_ip_port_rollup::avg_unmap_bandwidth`
- `base_performance_metrics_by_ip_port_rollup::avg_copy_bandwidth`
- `base_performance_metrics_by_ip_port_rollup::avg_zero_bandwidth`
- `base_performance_metrics_by_ip_port_rollup::avg_unmap_io_size`
- `base_performance_metrics_by_ip_port_rollup::avg_copy_io_size`
- `base_performance_metrics_by_ip_port_rollup::avg_zero_io_size`
- `base_performance_metrics_by_ip_port_rollup::avg_unmap_latency`
- `base_performance_metrics_by_ip_port_rollup::avg_copy_latency`
- `base_performance_metrics_by_ip_port_rollup::avg_zero_latency`
- `base_performance_metrics_by_ip_port_rollup::max_unmap_iops`
- `base_performance_metrics_by_ip_port_rollup::max_copy_iops`
- `base_performance_metrics_by_ip_port_rollup::max_zero_iops`
- `base_performance_metrics_by_ip_port_rollup::max_unmap_bandwidth`
- `base_performance_metrics_by_ip_port_rollup::max_copy_bandwidth`
- `base_performance_metrics_by_ip_port_rollup::max_zero_bandwidth`
- `base_performance_metrics_by_ip_port_rollup::max_avg_unmap_io_size`
- `base_performance_metrics_by_ip_port_rollup::max_avg_copy_io_size`
- `base_performance_metrics_by_ip_port_rollup::max_avg_zero_io_size`
- `base_performance_metrics_by_ip_port_rollup::max_avg_unmap_latency`

- `base_performance_metrics_by_ip_port_rollup::max_avg_copy_latency`
- `base_performance_metrics_by_ip_port_rollup::max_avg_zero_latency`
- `base_performance_metrics_by_node::unmap_iops`
- `base_performance_metrics_by_node::copy_iops`
- `base_performance_metrics_by_node::zero_iops`
- `base_performance_metrics_by_node::unmap_bandwidth`
- `base_performance_metrics_by_node::copy_bandwidth`
- `base_performance_metrics_by_node::zero_bandwidth`
- `base_performance_metrics_by_node::avg_unmap_io_size`
- `base_performance_metrics_by_node::avg_copy_io_size`
- `base_performance_metrics_by_node::avg_zero_io_size`
- `base_performance_metrics_by_node::avg_unmap_latency`
- `base_performance_metrics_by_node::avg_copy_latency`
- `base_performance_metrics_by_node::avg_zero_latency`
- `base_performance_metrics_by_node_rollup::avg_unmap_iops`
- `base_performance_metrics_by_node_rollup::avg_copy_iops`
- `base_performance_metrics_by_node_rollup::avg_zero_iops`
- `base_performance_metrics_by_node_rollup::avg_unmap_bandwidth`
- `base_performance_metrics_by_node_rollup::avg_copy_bandwidth`
- `base_performance_metrics_by_node_rollup::avg_zero_bandwidth`
- `base_performance_metrics_by_node_rollup::avg_unmap_io_size`
- `base_performance_metrics_by_node_rollup::avg_copy_io_size`
- `base_performance_metrics_by_node_rollup::avg_zero_io_size`
- `base_performance_metrics_by_node_rollup::avg_unmap_latency`
- `base_performance_metrics_by_node_rollup::avg_copy_latency`
- `base_performance_metrics_by_node_rollup::avg_zero_latency`
- `base_performance_metrics_by_node_rollup::max_unmap_iops`
- `base_performance_metrics_by_node_rollup::max_copy_iops`
- `base_performance_metrics_by_node_rollup::max_zero_iops`
- `base_performance_metrics_by_node_rollup::max_unmap_bandwidth`
- `base_performance_metrics_by_node_rollup::max_copy_bandwidth`
- `base_performance_metrics_by_node_rollup::max_zero_bandwidth`
- `base_performance_metrics_by_node_rollup::max_avg_unmap_io_size`
- `base_performance_metrics_by_node_rollup::max_avg_copy_io_size`
- `base_performance_metrics_by_node_rollup::max_avg_zero_io_size`

- `base_performance_metrics_by_node_rollup::max_avg_unmap_latency`
- `base_performance_metrics_by_node_rollup::max_avg_copy_latency`
- `base_performance_metrics_by_node_rollup::max_avg_zero_latency`
- `base_space_metrics_by_file_system::unreducible_data`
- `base_space_metrics_by_file_system::data_reduction`
- `base_space_metrics_by_file_system::reducible_data_reduction`
- `base_space_metrics_by_file_system_rollup::last_unreducible_data`
- `base_space_metrics_by_file_system_rollup::max_unreducible_data`
- `base_space_metrics_by_file_system_rollup::last_data_reduction`
- `base_space_metrics_by_file_system_rollup::max_data_reduction`
- `base_space_metrics_by_file_system_rollup::last_reducible_data_reduction`
- `base_space_metrics_by_file_system_rollup::max_reducible_data_reduction`
- `cert_role_mapping_create`
- `cert_role_mapping_instance`
- `cert_role_mapping_modify`
- `cluster_validate_expand_issue`
- `cluster_validate_expand_issue::issue_type_l10n`
- `cluster_validate_expand_response`
- `copy_metrics_by_replication_session`
- `copy_metrics_by_replication_session_rollup`
- `datacollection_profile_instance::status_l10n`
- `file_import_nas_server_instance::is_cta_configured`
- `file_import_session_create::cta_admin_username`
- `file_import_session_instance::cta_admin_username`
- `file_import_session_modify::cta_admin_username`
- `file_io_limit_rule_create`
- `file_io_limit_rule_instance`
- `file_io_limit_rule_modify`
- `file_system_instance::performance_policy_id`
- `file_system_instance::is_secure`
- `file_system_modify::is_secure`
- `file_system_snapshot::is_secure`
- `job_cluster_validate_expand_response`
- `job_security_config_generate_temp_credentials_response`
- `l2_discovery_details_instance`

- [mfa_cacpiv_create](#)
- [mfa_cacpiv_instance](#)
- [mfa_cacpiv_modify](#)
- [mfa_securid_create::rsa_username](#)
- [mfa_securid_create::rsa_token](#)
- [mfa_securid_modify::rsa_username](#)
- [mfa_securid_modify::rsa_token](#)
- [nas_server_instance::performance_policy_id](#)
- [ntp_server_create](#)
- [ntp_server_instance](#)
- [ntp_server_modify](#)
- [performance_headroom_by_appliance](#)
- [performance_metrics_by_appliance_resource_util_rollup](#)
- [policy_instance::file_io_limit_rule_id](#)
- [remote_support_instance::is_observability_enabled](#)
- [remote_support_modify::is_observability_enabled](#)
- [security_config_generate_temp_credentials_response](#)
- [virtual_volume_detach](#)

Definition members

Deprecated

- [password](#) in [discovered_appliance_update_software](#)
- [clone_flr_file_systems](#) in [nas_server_clone](#)
- [ntp_addresses](#) in [network_replace](#)
- [is_clouidq_enabled](#) in [remote_support_instance](#)
- [is_clouidq_enabled](#) in [remote_support_modify](#)

Added

- [performance_bottleneck_l10n](#) in [base_performance_headroom_by_appliance](#)
- [unmap_iops](#) in [base_performance_metrics_by_appliance](#)
- [copy_iops](#) in [base_performance_metrics_by_appliance](#)
- [zero_iops](#) in [base_performance_metrics_by_appliance](#)
- [unmap_bandwidth](#) in [base_performance_metrics_by_appliance](#)
- [copy_bandwidth](#) in [base_performance_metrics_by_appliance](#)
- [zero_bandwidth](#) in [base_performance_metrics_by_appliance](#)

- `avg_unmap_io_size` in `base_performance_metrics_by_appliance`
- `avg_copy_io_size` in `base_performance_metrics_by_appliance`
- `avg_zero_io_size` in `base_performance_metrics_by_appliance`
- `avg_unmap_latency` in `base_performance_metrics_by_appliance`
- `avg_copy_latency` in `base_performance_metrics_by_appliance`
- `avg_zero_latency` in `base_performance_metrics_by_appliance`
- `avg_unmap_iops` in `base_performance_metrics_by_appliance_rollup`
- `avg_copy_iops` in `base_performance_metrics_by_appliance_rollup`
- `avg_zero_iops` in `base_performance_metrics_by_appliance_rollup`
- `avg_unmap_bandwidth` in `base_performance_metrics_by_appliance_rollup`
- `avg_copy_bandwidth` in `base_performance_metrics_by_appliance_rollup`
- `avg_zero_bandwidth` in `base_performance_metrics_by_appliance_rollup`
- `avg_unmap_io_size` in `base_performance_metrics_by_appliance_rollup`
- `avg_copy_io_size` in `base_performance_metrics_by_appliance_rollup`
- `avg_zero_io_size` in `base_performance_metrics_by_appliance_rollup`
- `avg_unmap_latency` in `base_performance_metrics_by_appliance_rollup`
- `avg_copy_latency` in `base_performance_metrics_by_appliance_rollup`
- `avg_zero_latency` in `base_performance_metrics_by_appliance_rollup`
- `max_unmap_iops` in `base_performance_metrics_by_appliance_rollup`
- `max_copy_iops` in `base_performance_metrics_by_appliance_rollup`
- `max_zero_iops` in `base_performance_metrics_by_appliance_rollup`
- `max_unmap_bandwidth` in `base_performance_metrics_by_appliance_rollup`
- `max_copy_bandwidth` in `base_performance_metrics_by_appliance_rollup`
- `max_zero_bandwidth` in `base_performance_metrics_by_appliance_rollup`
- `max_avg_unmap_io_size` in `base_performance_metrics_by_appliance_rollup`
- `max_avg_copy_io_size` in `base_performance_metrics_by_appliance_rollup`
- `max_avg_zero_io_size` in `base_performance_metrics_by_appliance_rollup`
- `max_avg_unmap_latency` in `base_performance_metrics_by_appliance_rollup`
- `max_avg_copy_latency` in `base_performance_metrics_by_appliance_rollup`
- `max_avg_zero_latency` in `base_performance_metrics_by_appliance_rollup`
- `unmap_iops` in `base_performance_metrics_by_cluster`
- `copy_iops` in `base_performance_metrics_by_cluster`
- `zero_iops` in `base_performance_metrics_by_cluster`
- `unmap_bandwidth` in `base_performance_metrics_by_cluster`
- `copy_bandwidth` in `base_performance_metrics_by_cluster`

- `zero_bandwidth` in `base_performance_metrics_by_cluster`
- `avg_unmap_io_size` in `base_performance_metrics_by_cluster`
- `avg_copy_io_size` in `base_performance_metrics_by_cluster`
- `avg_zero_io_size` in `base_performance_metrics_by_cluster`
- `avg_unmap_latency` in `base_performance_metrics_by_cluster`
- `avg_copy_latency` in `base_performance_metrics_by_cluster`
- `avg_zero_latency` in `base_performance_metrics_by_cluster`
- `avg_unmap_iops` in `base_performance_metrics_by_cluster_rollup`
- `avg_copy_iops` in `base_performance_metrics_by_cluster_rollup`
- `avg_zero_iops` in `base_performance_metrics_by_cluster_rollup`
- `avg_unmap_bandwidth` in `base_performance_metrics_by_cluster_rollup`
- `avg_copy_bandwidth` in `base_performance_metrics_by_cluster_rollup`
- `avg_zero_bandwidth` in `base_performance_metrics_by_cluster_rollup`
- `avg_unmap_io_size` in `base_performance_metrics_by_cluster_rollup`
- `avg_copy_io_size` in `base_performance_metrics_by_cluster_rollup`
- `avg_zero_io_size` in `base_performance_metrics_by_cluster_rollup`
- `avg_unmap_latency` in `base_performance_metrics_by_cluster_rollup`
- `avg_copy_latency` in `base_performance_metrics_by_cluster_rollup`
- `avg_zero_latency` in `base_performance_metrics_by_cluster_rollup`
- `max_unmap_iops` in `base_performance_metrics_by_cluster_rollup`
- `max_copy_iops` in `base_performance_metrics_by_cluster_rollup`
- `max_zero_iops` in `base_performance_metrics_by_cluster_rollup`
- `max_unmap_bandwidth` in `base_performance_metrics_by_cluster_rollup`
- `max_copy_bandwidth` in `base_performance_metrics_by_cluster_rollup`
- `max_zero_bandwidth` in `base_performance_metrics_by_cluster_rollup`
- `max_avg_unmap_io_size` in `base_performance_metrics_by_cluster_rollup`
- `max_avg_copy_io_size` in `base_performance_metrics_by_cluster_rollup`
- `max_avg_zero_io_size` in `base_performance_metrics_by_cluster_rollup`
- `max_avg_unmap_latency` in `base_performance_metrics_by_cluster_rollup`
- `max_avg_copy_latency` in `base_performance_metrics_by_cluster_rollup`
- `max_avg_zero_latency` in `base_performance_metrics_by_cluster_rollup`
- `unmap_iops` in `base_performance_metrics_by_fe_fc_node`
- `copy_iops` in `base_performance_metrics_by_fe_fc_node`
- `zero_iops` in `base_performance_metrics_by_fe_fc_node`
- `unmap_bandwidth` in `base_performance_metrics_by_fe_fc_node`

- `copy_bandwidth` in `base_performance_metrics_by_fe_fc_node`
- `zero_bandwidth` in `base_performance_metrics_by_fe_fc_node`
- `avg_unmap_io_size` in `base_performance_metrics_by_fe_fc_node`
- `avg_copy_io_size` in `base_performance_metrics_by_fe_fc_node`
- `avg_zero_io_size` in `base_performance_metrics_by_fe_fc_node`
- `avg_unmap_latency` in `base_performance_metrics_by_fe_fc_node`
- `avg_copy_latency` in `base_performance_metrics_by_fe_fc_node`
- `avg_zero_latency` in `base_performance_metrics_by_fe_fc_node`
- `avg_unmap_iops` in `base_performance_metrics_by_fe_fc_node_rollup`
- `avg_copy_iops` in `base_performance_metrics_by_fe_fc_node_rollup`
- `avg_zero_iops` in `base_performance_metrics_by_fe_fc_node_rollup`
- `avg_unmap_bandwidth` in `base_performance_metrics_by_fe_fc_node_rollup`
- `avg_copy_bandwidth` in `base_performance_metrics_by_fe_fc_node_rollup`
- `avg_zero_bandwidth` in `base_performance_metrics_by_fe_fc_node_rollup`
- `avg_unmap_io_size` in `base_performance_metrics_by_fe_fc_node_rollup`
- `avg_copy_io_size` in `base_performance_metrics_by_fe_fc_node_rollup`
- `avg_zero_io_size` in `base_performance_metrics_by_fe_fc_node_rollup`
- `avg_unmap_latency` in `base_performance_metrics_by_fe_fc_node_rollup`
- `avg_copy_latency` in `base_performance_metrics_by_fe_fc_node_rollup`
- `avg_zero_latency` in `base_performance_metrics_by_fe_fc_node_rollup`
- `max_unmap_iops` in `base_performance_metrics_by_fe_fc_node_rollup`
- `max_copy_iops` in `base_performance_metrics_by_fe_fc_node_rollup`
- `max_zero_iops` in `base_performance_metrics_by_fe_fc_node_rollup`
- `max_unmap_bandwidth` in `base_performance_metrics_by_fe_fc_node_rollup`
- `max_copy_bandwidth` in `base_performance_metrics_by_fe_fc_node_rollup`
- `max_zero_bandwidth` in `base_performance_metrics_by_fe_fc_node_rollup`
- `max_avg_unmap_io_size` in `base_performance_metrics_by_fe_fc_node_rollup`
- `max_avg_copy_io_size` in `base_performance_metrics_by_fe_fc_node_rollup`
- `max_avg_zero_io_size` in `base_performance_metrics_by_fe_fc_node_rollup`
- `max_avg_unmap_latency` in `base_performance_metrics_by_fe_fc_node_rollup`
- `max_avg_copy_latency` in `base_performance_metrics_by_fe_fc_node_rollup`
- `max_avg_zero_latency` in `base_performance_metrics_by_fe_fc_node_rollup`
- `unmap_iops` in `base_performance_metrics_by_fe_fc_port`
- `copy_iops` in `base_performance_metrics_by_fe_fc_port`
- `zero_iops` in `base_performance_metrics_by_fe_fc_port`

- `unmap_bandwidth` in `base_performance_metrics_by_fe_fc_port`
- `copy_bandwidth` in `base_performance_metrics_by_fe_fc_port`
- `zero_bandwidth` in `base_performance_metrics_by_fe_fc_port`
- `avg_unmap_io_size` in `base_performance_metrics_by_fe_fc_port`
- `avg_copy_io_size` in `base_performance_metrics_by_fe_fc_port`
- `avg_zero_io_size` in `base_performance_metrics_by_fe_fc_port`
- `avg_unmap_latency` in `base_performance_metrics_by_fe_fc_port`
- `avg_copy_latency` in `base_performance_metrics_by_fe_fc_port`
- `avg_zero_latency` in `base_performance_metrics_by_fe_fc_port`
- `avg_unmap_iops` in `base_performance_metrics_by_fe_fc_port_rollup`
- `avg_copy_iops` in `base_performance_metrics_by_fe_fc_port_rollup`
- `avg_zero_iops` in `base_performance_metrics_by_fe_fc_port_rollup`
- `avg_unmap_bandwidth` in `base_performance_metrics_by_fe_fc_port_rollup`
- `avg_copy_bandwidth` in `base_performance_metrics_by_fe_fc_port_rollup`
- `avg_zero_bandwidth` in `base_performance_metrics_by_fe_fc_port_rollup`
- `avg_unmap_io_size` in `base_performance_metrics_by_fe_fc_port_rollup`
- `avg_copy_io_size` in `base_performance_metrics_by_fe_fc_port_rollup`
- `avg_zero_io_size` in `base_performance_metrics_by_fe_fc_port_rollup`
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- `avg_copy_latency` in `base_performance_metrics_by_fe_fc_port_rollup`
- `avg_zero_latency` in `base_performance_metrics_by_fe_fc_port_rollup`
- `max_unmap_iops` in `base_performance_metrics_by_fe_fc_port_rollup`
- `max_copy_iops` in `base_performance_metrics_by_fe_fc_port_rollup`
- `max_zero_iops` in `base_performance_metrics_by_fe_fc_port_rollup`
- `max_unmap_bandwidth` in `base_performance_metrics_by_fe_fc_port_rollup`
- `max_copy_bandwidth` in `base_performance_metrics_by_fe_fc_port_rollup`
- `max_zero_bandwidth` in `base_performance_metrics_by_fe_fc_port_rollup`
- `max_avg_unmap_io_size` in `base_performance_metrics_by_fe_fc_port_rollup`
- `max_avg_copy_io_size` in `base_performance_metrics_by_fe_fc_port_rollup`
- `max_avg_zero_io_size` in `base_performance_metrics_by_fe_fc_port_rollup`
- `max_avg_unmap_latency` in `base_performance_metrics_by_fe_fc_port_rollup`
- `max_avg_copy_latency` in `base_performance_metrics_by_fe_fc_port_rollup`
- `max_avg_zero_latency` in `base_performance_metrics_by_fe_fc_port_rollup`
- `unmap_iops` in `base_performance_metrics_by_hg`
- `copy_iops` in `base_performance_metrics_by_hg`

- `zero_iops` in `base_performance_metrics_by_hg`
- `unmap_bandwidth` in `base_performance_metrics_by_hg`
- `copy_bandwidth` in `base_performance_metrics_by_hg`
- `zero_bandwidth` in `base_performance_metrics_by_hg`
- `avg_unmap_io_size` in `base_performance_metrics_by_hg`
- `avg_copy_io_size` in `base_performance_metrics_by_hg`
- `avg_zero_io_size` in `base_performance_metrics_by_hg`
- `avg_unmap_latency` in `base_performance_metrics_by_hg`
- `avg_copy_latency` in `base_performance_metrics_by_hg`
- `avg_zero_latency` in `base_performance_metrics_by_hg`
- `avg_unmap_iops` in `base_performance_metrics_by_hg_rollup`
- `avg_copy_iops` in `base_performance_metrics_by_hg_rollup`
- `avg_zero_iops` in `base_performance_metrics_by_hg_rollup`
- `avg_unmap_bandwidth` in `base_performance_metrics_by_hg_rollup`
- `avg_copy_bandwidth` in `base_performance_metrics_by_hg_rollup`
- `avg_zero_bandwidth` in `base_performance_metrics_by_hg_rollup`
- `avg_unmap_io_size` in `base_performance_metrics_by_hg_rollup`
- `avg_copy_io_size` in `base_performance_metrics_by_hg_rollup`
- `avg_zero_io_size` in `base_performance_metrics_by_hg_rollup`
- `avg_unmap_latency` in `base_performance_metrics_by_hg_rollup`
- `avg_copy_latency` in `base_performance_metrics_by_hg_rollup`
- `avg_zero_latency` in `base_performance_metrics_by_hg_rollup`
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- `max_copy_iops` in `base_performance_metrics_by_hg_rollup`
- `max_zero_iops` in `base_performance_metrics_by_hg_rollup`
- `max_unmap_bandwidth` in `base_performance_metrics_by_hg_rollup`
- `max_copy_bandwidth` in `base_performance_metrics_by_hg_rollup`
- `max_zero_bandwidth` in `base_performance_metrics_by_hg_rollup`
- `max_avg_unmap_io_size` in `base_performance_metrics_by_hg_rollup`
- `max_avg_copy_io_size` in `base_performance_metrics_by_hg_rollup`
- `max_avg_zero_io_size` in `base_performance_metrics_by_hg_rollup`
- `max_avg_unmap_latency` in `base_performance_metrics_by_hg_rollup`
- `max_avg_copy_latency` in `base_performance_metrics_by_hg_rollup`
- `max_avg_zero_latency` in `base_performance_metrics_by_hg_rollup`
- `unmap_iops` in `base_performance_metrics_by_host`

- `copy_iops` in `base_performance_metrics_by_host`
- `zero_iops` in `base_performance_metrics_by_host`
- `unmap_bandwidth` in `base_performance_metrics_by_host`
- `copy_bandwidth` in `base_performance_metrics_by_host`
- `zero_bandwidth` in `base_performance_metrics_by_host`
- `avg_unmap_io_size` in `base_performance_metrics_by_host`
- `avg_copy_io_size` in `base_performance_metrics_by_host`
- `avg_zero_io_size` in `base_performance_metrics_by_host`
- `avg_unmap_latency` in `base_performance_metrics_by_host`
- `avg_copy_latency` in `base_performance_metrics_by_host`
- `avg_zero_latency` in `base_performance_metrics_by_host`
- `avg_unmap_iops` in `base_performance_metrics_by_host_rollup`
- `avg_copy_iops` in `base_performance_metrics_by_host_rollup`
- `avg_zero_iops` in `base_performance_metrics_by_host_rollup`
- `avg_unmap_bandwidth` in `base_performance_metrics_by_host_rollup`
- `avg_copy_bandwidth` in `base_performance_metrics_by_host_rollup`
- `avg_zero_bandwidth` in `base_performance_metrics_by_host_rollup`
- `avg_unmap_io_size` in `base_performance_metrics_by_host_rollup`
- `avg_copy_io_size` in `base_performance_metrics_by_host_rollup`
- `avg_zero_io_size` in `base_performance_metrics_by_host_rollup`
- `avg_unmap_latency` in `base_performance_metrics_by_host_rollup`
- `avg_copy_latency` in `base_performance_metrics_by_host_rollup`
- `avg_zero_latency` in `base_performance_metrics_by_host_rollup`
- `max_unmap_iops` in `base_performance_metrics_by_host_rollup`
- `max_copy_iops` in `base_performance_metrics_by_host_rollup`
- `max_zero_iops` in `base_performance_metrics_by_host_rollup`
- `max_unmap_bandwidth` in `base_performance_metrics_by_host_rollup`
- `max_copy_bandwidth` in `base_performance_metrics_by_host_rollup`
- `max_zero_bandwidth` in `base_performance_metrics_by_host_rollup`
- `max_avg_unmap_io_size` in `base_performance_metrics_by_host_rollup`
- `max_avg_copy_io_size` in `base_performance_metrics_by_host_rollup`
- `max_avg_zero_io_size` in `base_performance_metrics_by_host_rollup`
- `max_avg_unmap_latency` in `base_performance_metrics_by_host_rollup`
- `max_avg_copy_latency` in `base_performance_metrics_by_host_rollup`
- `max_avg_zero_latency` in `base_performance_metrics_by_host_rollup`

- `unmap_iops` in `base_performance_metrics_by_initiator`
- `copy_iops` in `base_performance_metrics_by_initiator`
- `zero_iops` in `base_performance_metrics_by_initiator`
- `unmap_bandwidth` in `base_performance_metrics_by_initiator`
- `copy_bandwidth` in `base_performance_metrics_by_initiator`
- `zero_bandwidth` in `base_performance_metrics_by_initiator`
- `avg_unmap_io_size` in `base_performance_metrics_by_initiator`
- `avg_copy_io_size` in `base_performance_metrics_by_initiator`
- `avg_zero_io_size` in `base_performance_metrics_by_initiator`
- `avg_unmap_latency` in `base_performance_metrics_by_initiator`
- `avg_copy_latency` in `base_performance_metrics_by_initiator`
- `avg_zero_latency` in `base_performance_metrics_by_initiator`
- `avg_unmap_iops` in `base_performance_metrics_by_initiator_rollup`
- `avg_copy_iops` in `base_performance_metrics_by_initiator_rollup`
- `avg_zero_iops` in `base_performance_metrics_by_initiator_rollup`
- `avg_unmap_bandwidth` in `base_performance_metrics_by_initiator_rollup`
- `avg_copy_bandwidth` in `base_performance_metrics_by_initiator_rollup`
- `avg_zero_bandwidth` in `base_performance_metrics_by_initiator_rollup`
- `avg_unmap_io_size` in `base_performance_metrics_by_initiator_rollup`
- `avg_copy_io_size` in `base_performance_metrics_by_initiator_rollup`
- `avg_zero_io_size` in `base_performance_metrics_by_initiator_rollup`
- `avg_unmap_latency` in `base_performance_metrics_by_initiator_rollup`
- `avg_copy_latency` in `base_performance_metrics_by_initiator_rollup`
- `avg_zero_latency` in `base_performance_metrics_by_initiator_rollup`
- `max_unmap_iops` in `base_performance_metrics_by_initiator_rollup`
- `max_copy_iops` in `base_performance_metrics_by_initiator_rollup`
- `max_zero_iops` in `base_performance_metrics_by_initiator_rollup`
- `max_unmap_bandwidth` in `base_performance_metrics_by_initiator_rollup`
- `max_copy_bandwidth` in `base_performance_metrics_by_initiator_rollup`
- `max_zero_bandwidth` in `base_performance_metrics_by_initiator_rollup`
- `max_avg_unmap_io_size` in `base_performance_metrics_by_initiator_rollup`
- `max_avg_copy_io_size` in `base_performance_metrics_by_initiator_rollup`
- `max_avg_zero_io_size` in `base_performance_metrics_by_initiator_rollup`
- `max_avg_unmap_latency` in `base_performance_metrics_by_initiator_rollup`
- `max_avg_copy_latency` in `base_performance_metrics_by_initiator_rollup`

- `max_avg_zero_latency` in `base_performance_metrics_by_initiator_rollup`
- `unmap_iops` in `base_performance_metrics_by_ip_port`
- `copy_iops` in `base_performance_metrics_by_ip_port`
- `zero_iops` in `base_performance_metrics_by_ip_port`
- `unmap_bandwidth` in `base_performance_metrics_by_ip_port`
- `copy_bandwidth` in `base_performance_metrics_by_ip_port`
- `zero_bandwidth` in `base_performance_metrics_by_ip_port`
- `avg_unmap_io_size` in `base_performance_metrics_by_ip_port`
- `avg_copy_io_size` in `base_performance_metrics_by_ip_port`
- `avg_zero_io_size` in `base_performance_metrics_by_ip_port`
- `avg_unmap_latency` in `base_performance_metrics_by_ip_port`
- `avg_copy_latency` in `base_performance_metrics_by_ip_port`
- `avg_zero_latency` in `base_performance_metrics_by_ip_port`
- `unmap_iops` in `base_performance_metrics_by_ip_port_iscsi`
- `copy_iops` in `base_performance_metrics_by_ip_port_iscsi`
- `zero_iops` in `base_performance_metrics_by_ip_port_iscsi`
- `unmap_bandwidth` in `base_performance_metrics_by_ip_port_iscsi`
- `copy_bandwidth` in `base_performance_metrics_by_ip_port_iscsi`
- `zero_bandwidth` in `base_performance_metrics_by_ip_port_iscsi`
- `avg_unmap_io_size` in `base_performance_metrics_by_ip_port_iscsi`
- `avg_copy_io_size` in `base_performance_metrics_by_ip_port_iscsi`
- `avg_zero_io_size` in `base_performance_metrics_by_ip_port_iscsi`
- `avg_unmap_latency` in `base_performance_metrics_by_ip_port_iscsi`
- `avg_copy_latency` in `base_performance_metrics_by_ip_port_iscsi`
- `avg_zero_latency` in `base_performance_metrics_by_ip_port_iscsi`
- `avg_unmap_iops` in `base_performance_metrics_by_ip_port_iscsi_rollup`
- `avg_copy_iops` in `base_performance_metrics_by_ip_port_iscsi_rollup`
- `avg_zero_iops` in `base_performance_metrics_by_ip_port_iscsi_rollup`
- `avg_unmap_bandwidth` in `base_performance_metrics_by_ip_port_iscsi_rollup`
- `avg_copy_bandwidth` in `base_performance_metrics_by_ip_port_iscsi_rollup`
- `avg_zero_bandwidth` in `base_performance_metrics_by_ip_port_iscsi_rollup`
- `avg_unmap_io_size` in `base_performance_metrics_by_ip_port_iscsi_rollup`
- `avg_copy_io_size` in `base_performance_metrics_by_ip_port_iscsi_rollup`
- `avg_zero_io_size` in `base_performance_metrics_by_ip_port_iscsi_rollup`
- `avg_unmap_latency` in `base_performance_metrics_by_ip_port_iscsi_rollup`

- avg_copy_latency in base_performance_metrics_by_ip_port_iscsi_rollup
- avg_zero_latency in base_performance_metrics_by_ip_port_iscsi_rollup
- max_unmap_iops in base_performance_metrics_by_ip_port_iscsi_rollup
- max_copy_iops in base_performance_metrics_by_ip_port_iscsi_rollup
- max_zero_iops in base_performance_metrics_by_ip_port_iscsi_rollup
- max_unmap_bandwidth in base_performance_metrics_by_ip_port_iscsi_rollup
- max_copy_bandwidth in base_performance_metrics_by_ip_port_iscsi_rollup
- max_zero_bandwidth in base_performance_metrics_by_ip_port_iscsi_rollup
- max_avg_unmap_io_size in base_performance_metrics_by_ip_port_iscsi_rollup
- max_avg_copy_io_size in base_performance_metrics_by_ip_port_iscsi_rollup
- max_avg_zero_io_size in base_performance_metrics_by_ip_port_iscsi_rollup
- max_avg_unmap_latency in base_performance_metrics_by_ip_port_iscsi_rollup
- max_avg_copy_latency in base_performance_metrics_by_ip_port_iscsi_rollup
- max_avg_zero_latency in base_performance_metrics_by_ip_port_iscsi_rollup
- avg_unmap_iops in base_performance_metrics_by_ip_port_rollup
- avg_copy_iops in base_performance_metrics_by_ip_port_rollup
- avg_zero_iops in base_performance_metrics_by_ip_port_rollup
- avg_unmap_bandwidth in base_performance_metrics_by_ip_port_rollup
- avg_copy_bandwidth in base_performance_metrics_by_ip_port_rollup
- avg_zero_bandwidth in base_performance_metrics_by_ip_port_rollup
- avg_unmap_io_size in base_performance_metrics_by_ip_port_rollup
- avg_copy_io_size in base_performance_metrics_by_ip_port_rollup
- avg_zero_io_size in base_performance_metrics_by_ip_port_rollup
- avg_unmap_latency in base_performance_metrics_by_ip_port_rollup
- avg_copy_latency in base_performance_metrics_by_ip_port_rollup
- avg_zero_latency in base_performance_metrics_by_ip_port_rollup
- max_unmap_iops in base_performance_metrics_by_ip_port_rollup
- max_copy_iops in base_performance_metrics_by_ip_port_rollup
- max_zero_iops in base_performance_metrics_by_ip_port_rollup
- max_unmap_bandwidth in base_performance_metrics_by_ip_port_rollup
- max_copy_bandwidth in base_performance_metrics_by_ip_port_rollup
- max_zero_bandwidth in base_performance_metrics_by_ip_port_rollup
- max_avg_unmap_io_size in base_performance_metrics_by_ip_port_rollup
- max_avg_copy_io_size in base_performance_metrics_by_ip_port_rollup
- max_avg_zero_io_size in base_performance_metrics_by_ip_port_rollup

- `max_avg_unmap_latency` in `base_performance_metrics_by_ip_port_rollup`
- `max_avg_copy_latency` in `base_performance_metrics_by_ip_port_rollup`
- `max_avg_zero_latency` in `base_performance_metrics_by_ip_port_rollup`
- `unmap_iops` in `base_performance_metrics_by_node`
- `copy_iops` in `base_performance_metrics_by_node`
- `zero_iops` in `base_performance_metrics_by_node`
- `unmap_bandwidth` in `base_performance_metrics_by_node`
- `copy_bandwidth` in `base_performance_metrics_by_node`
- `zero_bandwidth` in `base_performance_metrics_by_node`
- `avg_unmap_io_size` in `base_performance_metrics_by_node`
- `avg_copy_io_size` in `base_performance_metrics_by_node`
- `avg_zero_io_size` in `base_performance_metrics_by_node`
- `avg_unmap_latency` in `base_performance_metrics_by_node`
- `avg_copy_latency` in `base_performance_metrics_by_node`
- `avg_zero_latency` in `base_performance_metrics_by_node`
- `avg_unmap_iops` in `base_performance_metrics_by_node_rollup`
- `avg_copy_iops` in `base_performance_metrics_by_node_rollup`
- `avg_zero_iops` in `base_performance_metrics_by_node_rollup`
- `avg_unmap_bandwidth` in `base_performance_metrics_by_node_rollup`
- `avg_copy_bandwidth` in `base_performance_metrics_by_node_rollup`
- `avg_zero_bandwidth` in `base_performance_metrics_by_node_rollup`
- `avg_unmap_io_size` in `base_performance_metrics_by_node_rollup`
- `avg_copy_io_size` in `base_performance_metrics_by_node_rollup`
- `avg_zero_io_size` in `base_performance_metrics_by_node_rollup`
- `avg_unmap_latency` in `base_performance_metrics_by_node_rollup`
- `avg_copy_latency` in `base_performance_metrics_by_node_rollup`
- `avg_zero_latency` in `base_performance_metrics_by_node_rollup`
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- `max_copy_iops` in `base_performance_metrics_by_node_rollup`
- `max_zero_iops` in `base_performance_metrics_by_node_rollup`
- `max_unmap_bandwidth` in `base_performance_metrics_by_node_rollup`
- `max_copy_bandwidth` in `base_performance_metrics_by_node_rollup`
- `max_zero_bandwidth` in `base_performance_metrics_by_node_rollup`
- `max_avg_unmap_io_size` in `base_performance_metrics_by_node_rollup`
- `max_avg_copy_io_size` in `base_performance_metrics_by_node_rollup`

- `max_avg_zero_io_size` in `base_performance_metrics_by_node_rollup`
- `max_avg_unmap_latency` in `base_performance_metrics_by_node_rollup`
- `max_avg_copy_latency` in `base_performance_metrics_by_node_rollup`
- `max_avg_zero_latency` in `base_performance_metrics_by_node_rollup`
- `unreducible_data` in `base_space_metrics_by_file_system`
- `data_reduction` in `base_space_metrics_by_file_system`
- `reducible_data_reduction` in `base_space_metrics_by_file_system`
- `last_unreducible_data` in `base_space_metrics_by_file_system_rollup`
- `max_unreducible_data` in `base_space_metrics_by_file_system_rollup`
- `last_data_reduction` in `base_space_metrics_by_file_system_rollup`
- `max_data_reduction` in `base_space_metrics_by_file_system_rollup`
- `last_reducible_data_reduction` in `base_space_metrics_by_file_system_rollup`
- `max_reducible_data_reduction` in `base_space_metrics_by_file_system_rollup`
- `issue_type_l10n` in `cluster_validate_expand_issue`
- `status` in `datacollection_profile_instance`
- `status_l10n` in `datacollection_profile_instance`
- `l2_discovery_details` in `eth_port_instance`
- `is_cta_configured` in `file_import_nas_server_instance`
- `cta_admin_username` in `file_import_session_create`
- `cta_admin_password` in `file_import_session_create`
- `cta_admin_username` in `file_import_session_instance`
- `cta_admin_username` in `file_import_session_modify`
- `cta_admin_password` in `file_import_session_modify`
- `policies` in `file_io_limit_rule_instance`
- `performance_policy_id` in `file_system_create`
- `performance_policy_id` in `file_system_instance`
- `is_secure` in `file_system_instance`
- `performance_policy` in `file_system_instance`
- `performance_policy_id` in `file_system_modify`
- `is_secure` in `file_system_modify`
- `is_secure` in `file_system_snapshot`
- `rsa_username` in `mfa_securid_create`
- `rsa_token` in `mfa_securid_create`
- `rsa_username` in `mfa_securid_modify`
- `rsa_token` in `mfa_securid_modify`

- `performance_policy_id` in `nas_server_create`
- `performance_policy_id` in `nas_server_instance`
- `performance_policy` in `nas_server_instance`
- `performance_policy_id` in `nas_server_modify`
- `ntp_servers` in `network_replace`
- `file_io_limit_rule_id` in `policy_create`
- `file_io_limit_rule_id` in `policy_instance`
- `file_io_limit_rule` in `policy_instance`
- `nas_servers_with_qos` in `policy_instance`
- `file_systems_with_qos` in `policy_instance`
- `file_io_limit_rule_id` in `policy_modify`
- `is_observability_enabled` in `remote_support_instance`
- `is_observability_enabled` in `remote_support_modify`
- `cert_user_name_policy` in `security_config_instance`
- `cert_user_name_policy` in `security_config_modify`

Version 4.0.0.0

Paths

Added

- `POST /cluster/{id}/discover_fc_targets`
- `GET /discovered_appliance/{id}`
- `PATCH /discovered_appliance/{id}`
- `POST /file_virus_checker/{id}/add_privileged_account`
- `POST /file_virus_checker/{id}/get_privileged_accounts`
- `POST /file_virus_checker/{id}/get_viruschecker_audit_info`
- `POST /file_virus_checker/{id}/remove_privileged_account`
- `POST /file_virus_checker/{id}/scan_status`
- `POST /file_virus_checker/{id}/start_scan`
- `POST /file_virus_checker/{id}/stop_scan`
- `GET /import_universal_consistency_group`
- `POST /import_universal_consistency_group`
- `DELETE /import_universal_consistency_group/{id}`
- `GET /import_universal_consistency_group/{id}`
- `PATCH /import_universal_consistency_group/{id}`

- [POST /import_universal_consistency_group/{id}/add_members](#)
- [POST /import_universal_consistency_group/{id}/remove_members](#)
- [GET /import_universal_volume](#)
- [GET /import_universal_volume/{id}](#)
- [PATCH /import_universal_volume/{id}](#)
- [GET /io_limit_rule](#)
- [POST /io_limit_rule](#)
- [DELETE /io_limit_rule/{id}](#)
- [GET /io_limit_rule/{id}](#)
- [PATCH /io_limit_rule/{id}](#)
- [POST /network/{id}/scaling_modify](#)
- [GET /remote_support](#)
- [GET /remote_support/{id}](#)
- [PATCH /remote_support/{id}](#)
- [POST /remote_support/{id}/send_test_alert](#)
- [POST /remote_support/{id}/verify](#)
- [POST /remote_system/{id}/query_available_powerstore_networks](#)
- [POST /software_package/check_for_updates](#)
- [POST /software_package/{id}/cancel_download](#)
- [POST /software_package/{id}/download](#)
- [POST /volume_group/{id}/configure_metro](#)
- [POST /volume_group/{id}/end_metro](#)

Parameters

Added

- [body](#) in [POST /replication_session/{id}/reprotect](#)

Enumeration values

Deprecated

- [External_Replication_Iscsi](#) in [IpPurposeTypeEnum](#)
- [STIG](#) in [SoftwarePackageTypeEnum](#)

Added

- [Data_Connection_Unstable](#) in [DataConnectionStateEnum](#)
- [MP0_1x12](#), [MP0_2x16](#) in [FrontEndPortConnectionTypeEnum](#)

- `NVMe_SSD_QLC` in `HardwareDriveTypeEnum`
- `MPO_1x12`, `MPO_2x16` in `HardwareSFPConnectorTypeEnum`
- `External_Replication` in `IpPurposeTypeEnum`
- `copy_metrics_by_file_system`, `copy_metrics_by_nas_server` in `MetricsEntityEnum`
- `External_Replication` in `NetworkPurposeEnum`
- `QoS` in `PolicyTypeEnum`
- `Zero` in `RPOEnum`
- `Synchronous_File_Replication` in `RemoteProtectionCapabilityEnum`
- `Universal` in `RemoteSystemTypeEnum`
- `Synchronous` in `ReplicationSessionTypeEnum`
- `Partial_Failed_Back`, `Switching_To_Synchronous` in `ReplicationStateEnum`
- `Download_Canceled`, `Downloading` in `SoftwarePackageStateEnum`
- `Rx_Definitions` in `SoftwarePackageTypeEnum`
- `Remote_Backup_HTTP` in `X509CertificateServiceEnum`

Definitions

Added

- `ApplianceModeEnum`
- `ApplianceStorageClassEnum`
- `BandwidthLimitTypeEnum`
- `DiscoveredApplianceCompatibilityEnum`
- `FileVirusCheckerOfflinePolicyEnum`
- `FileVirusCheckerStatusEnum`
- `RemoteSupportApplianceConnectivityStatusEnum`
- `RemoteSupportTypeEnum`
- `SoftwarePackageClassificationChoiceEnum`
- `appliance_instance::mode_l10n`
- `appliance_instance::storage_class_l10n`
- `base_copy_metrics_by_file_system`
- `base_copy_metrics_by_file_system_rollup`
- `base_copy_metrics_by_nas_server`
- `base_copy_metrics_by_nas_server_rollup`
- `base_performance_metrics_by_file_system::block_write_iops`
- `base_performance_metrics_by_file_system::mirror_write_iops`

- `base_performance_metrics_by_file_system::block_write_bandwidth`
- `base_performance_metrics_by_file_system::mirror_write_bandwidth`
- `base_performance_metrics_by_file_system::block_avg_write_latency`
- `base_performance_metrics_by_file_system::avg_mirror_overhead_latency`
- `base_performance_metrics_by_file_system_rollup::avg_block_write_iops`
- `base_performance_metrics_by_file_system_rollup::avg_mirror_write_iops`
- `base_performance_metrics_by_file_system_rollup::max_block_write_iops`
- `base_performance_metrics_by_file_system_rollup::max_mirror_write_iops`
- `base_performance_metrics_by_file_system_rollup::avg_block_write_bandwidth`
- `base_performance_metrics_by_file_system_rollup::avg_mirror_write_bandwidth`
- `base_performance_metrics_by_file_system_rollup::max_block_write_bandwidth`
- `base_performance_metrics_by_file_system_rollup::max_mirror_write_bandwidth`
- `base_performance_metrics_by_file_system_rollup::avg_block_write_latency`
- `base_performance_metrics_by_file_system_rollup::avg_mirror_overhead_latency`
- `base_performance_metrics_by_file_system_rollup::max_avg_block_write_latency`
- `base_performance_metrics_by_file_system_rollup::max_avg_mirror_overhead_latency`
- `base_performance_metrics_by_nas_server::block_write_bandwidth`
- `base_performance_metrics_by_nas_server::mirror_write_bandwidth`
- `base_performance_metrics_by_nas_server::block_avg_write_latency`
- `base_performance_metrics_by_nas_server::avg_mirror_overhead_latency`
- `base_performance_metrics_by_nas_server::block_write_iops`
- `base_performance_metrics_by_nas_server::mirror_write_iops`
- `base_performance_metrics_by_nas_server_rollup::avg_block_write_iops`
- `base_performance_metrics_by_nas_server_rollup::avg_mirror_write_iops`
- `base_performance_metrics_by_nas_server_rollup::max_block_write_iops`
- `base_performance_metrics_by_nas_server_rollup::max_mirror_write_iops`
- `base_performance_metrics_by_nas_server_rollup::avg_block_write_bandwidth`
- `base_performance_metrics_by_nas_server_rollup::avg_mirror_write_bandwidth`
- `base_performance_metrics_by_nas_server_rollup::max_block_write_bandwidth`
- `base_performance_metrics_by_nas_server_rollup::max_mirror_write_bandwidth`
- `base_performance_metrics_by_nas_server_rollup::avg_block_write_latency`
- `base_performance_metrics_by_nas_server_rollup::avg_mirror_overhead_latency`
- `base_performance_metrics_by_nas_server_rollup::max_avg_block_write_latency`
- `base_performance_metrics_by_nas_server_rollup::max_avg_mirror_overhead_latency`
- `base_performance_metrics_by_smb_client::current_tcp_connections`

- `base_performance_metrics_by_vg::avg_mirror_overhead_latency`
- `base_performance_metrics_by_vg::mirror_write_iops`
- `base_performance_metrics_by_vg::mirror_write_bandwidth`
- `base_performance_metrics_by_vg_rollup::avg_mirror_overhead_latency`
- `base_performance_metrics_by_vg_rollup::avg_mirror_write_iops`
- `base_performance_metrics_by_vg_rollup::avg_mirror_write_bandwidth`
- `base_performance_metrics_by_vg_rollup::max_avg_mirror_overhead_latency`
- `base_performance_metrics_by_vg_rollup::max_mirror_write_iops`
- `base_performance_metrics_by_vg_rollup::max_mirror_write_bandwidth`
- `base_space_metrics_by_appliance::unreducible_data`
- `base_space_metrics_by_appliance::reducible_data_reduction`
- `base_space_metrics_by_appliance_rollup::last_unreducible_data`
- `base_space_metrics_by_appliance_rollup::last_reducible_data_reduction`
- `base_space_metrics_by_appliance_rollup::max_unreducible_data`
- `base_space_metrics_by_appliance_rollup::max_reducible_data_reduction`
- `base_space_metrics_by_cluster::unreducible_data`
- `base_space_metrics_by_cluster::reducible_data_reduction`
- `base_space_metrics_by_cluster_rollup::last_unreducible_data`
- `base_space_metrics_by_cluster_rollup::last_reducible_data_reduction`
- `base_space_metrics_by_cluster_rollup::max_unreducible_data`
- `base_space_metrics_by_cluster_rollup::max_reducible_data_reduction`
- `base_space_metrics_by_storage_container::unreducible_data`
- `base_space_metrics_by_storage_container::data_reduction`
- `base_space_metrics_by_storage_container::reducible_data_reduction`
- `base_space_metrics_by_storage_container_rollup::last_unreducible_data`
- `base_space_metrics_by_storage_container_rollup::last_data_reduction`
- `base_space_metrics_by_storage_container_rollup::last_reducible_data_reduction`
- `base_space_metrics_by_storage_container_rollup::max_unreducible_data`
- `base_space_metrics_by_storage_container_rollup::max_data_reduction`
- `base_space_metrics_by_storage_container_rollup::max_reducible_data_reduction`
- `base_space_metrics_by_vg::unreducible_data`
- `base_space_metrics_by_vg::data_reduction`
- `base_space_metrics_by_vg::reducible_data_reduction`
- `base_space_metrics_by_vg_rollup::last_unreducible_data`
- `base_space_metrics_by_vg_rollup::last_data_reduction`

- `base_space_metrics_by_vg_rollup::last_reducible_data_reduction`
- `base_space_metrics_by_vg_rollup::max_unreducible_data`
- `base_space_metrics_by_vg_rollup::max_data_reduction`
- `base_space_metrics_by_vg_rollup::max_reducible_data_reduction`
- `base_space_metrics_by_vm::unreducible_data`
- `base_space_metrics_by_vm::data_reduction`
- `base_space_metrics_by_vm::reducible_data_reduction`
- `base_space_metrics_by_vm_rollup::last_unreducible_data`
- `base_space_metrics_by_vm_rollup::last_data_reduction`
- `base_space_metrics_by_vm_rollup::last_reducible_data_reduction`
- `base_space_metrics_by_vm_rollup::max_unreducible_data`
- `base_space_metrics_by_vm_rollup::max_data_reduction`
- `base_space_metrics_by_vm_rollup::max_reducible_data_reduction`
- `base_space_metrics_by_volume_family::unreducible_data`
- `base_space_metrics_by_volume_family::data_reduction`
- `base_space_metrics_by_volume_family::reducible_data_reduction`
- `base_space_metrics_by_volume_family_rollup::last_unreducible_data`
- `base_space_metrics_by_volume_family_rollup::last_data_reduction`
- `base_space_metrics_by_volume_family_rollup::last_reducible_data_reduction`
- `base_space_metrics_by_volume_family_rollup::max_unreducible_data`
- `base_space_metrics_by_volume_family_rollup::max_data_reduction`
- `base_space_metrics_by_volume_family_rollup::max_reducible_data_reduction`
- `cluster_discover_fc_targets_response`
- `copy_metrics_by_file_system`
- `copy_metrics_by_file_system_rollup`
- `copy_metrics_by_nas_server`
- `copy_metrics_by_nas_server_rollup`
- `discovered_appliance_compatibility`
- `discovered_appliance_compatibility::compatibility_l10n`
- `discovered_appliance_instance::version`
- `discovered_appliance_modify`
- `fc_target_instance`
- `file_import_session_create::source_interface`
- `file_import_session_instance::source_interface`
- `file_virus_checker_add_privileged_account`

- `file_virus_checker_create::max_file_size`
- `file_virus_checker_create::survey_time`
- `file_virus_checker_create::high_watermark`
- `file_virus_checker_create::low_watermark`
- `file_virus_checker_create::msrpc_user`
- `file_virus_checker_create::http_port`
- `file_virus_checker_get_privileged_accounts_response`
- `file_virus_checker_get_viruschecker_audit_info_response`
- `file_virus_checker_instance::max_file_size`
- `file_virus_checker_instance::survey_time`
- `file_virus_checker_instance::high_watermark`
- `file_virus_checker_instance::low_watermark`
- `file_virus_checker_instance::msrpc_user`
- `file_virus_checker_instance::rpc_retry_timeout`
- `file_virus_checker_instance::rpc_request_timeout`
- `file_virus_checker_instance::http_port`
- `file_virus_checker_instance::reference_time`
- `file_virus_checker_instance::offline_policy_l10n`
- `file_virus_checker_modify::max_file_size`
- `file_virus_checker_modify::survey_time`
- `file_virus_checker_modify::high_watermark`
- `file_virus_checker_modify::low_watermark`
- `file_virus_checker_modify::msrpc_user`
- `file_virus_checker_modify::rpc_retry_timeout`
- `file_virus_checker_modify::rpc_request_timeout`
- `file_virus_checker_modify::http_port`
- `file_virus_checker_modify::reference_time`
- `file_virus_checker_remove_privileged_account`
- `file_virus_checker_scan_status`
- `file_virus_checker_scan_status_response`
- `file_virus_checker_start_scan`
- `file_virus_checker_stop_scan`
- `hardware_extra_details_instance::storage_class_l10n`
- `import_universal_consistency_group_add_members`
- `import_universal_consistency_group_create`

- `import_universal_consistency_group_instance`
- `import_universal_consistency_group_instance::importable_criteria_l10n`
- `import_universal_consistency_group_modify`
- `import_universal_consistency_group_remove_members`
- `import_universal_volume_instance`
- `import_universal_volume_instance::block_size_l10n`
- `import_universal_volume_instance::importable_criteria_l10n`
- `import_universal_volume_modify`
- `io_limit_rule_create`
- `io_limit_rule_instance`
- `io_limit_rule_instance::type_l10n`
- `io_limit_rule_modify`
- `job_cluster_discover_fc_targets_response`
- `job_file_virus_checker_get_privileged_accounts_response`
- `job_file_virus_checker_get_viruschecker_audit_info_response`
- `job_file_virus_checker_scan_status_response`
- `job_remote_system_query_available_powerstore_networks_response`
- `job_volume_group_configure_metro_response`
- `network_scaling_modify`
- `powerstore_data_network_group`
- `powerstore_network_info`
- `remote_support_instance`
- `remote_support_instance::type_l10n`
- `remote_support_instance::connectivity_status_l10n`
- `remote_support_instance::classification_choice_l10n`
- `remote_support_modify`
- `remote_support_server_instance`
- `remote_support_server_modify`
- `remote_support_servers_appliance_status_instance`
- `remote_support_servers_appliance_status_instance::connectivity_status_l10n`
- `remote_support_verify`
- `remote_system_create::universal_details`
- `remote_system_query_available_powerstore_networks_response`
- `replication_session_reprotect`
- `replication_session_reprotect::discard_changes_after_failover`

- `software_package_instance::is_autodownloaded`
- `software_package_instance::kb_article_link`
- `software_package_instance::dependent_version`
- `software_package_instance::is_urgent`
- `unity_file_details_create`
- `unity_file_details_instance`
- `unity_file_details_modify`
- `vcenter_create::is_verify_server_cert`
- `vcenter_create::server_cert_thumbprint`
- `vcenter_instance::is_verify_server_cert`
- `vcenter_modify::is_verify_server_cert`
- `vcenter_modify::server_cert_thumbprint`
- `volume_group_configure_metro`
- `volume_group_configure_metro_response`
- `volume_group_end_metro`
- `volume_group_instance::qos_performance_policy_id`
- `volume_group_instance::metro_replication_session_id`
- `volume_group_instance::is_host_access_available`
- `volume_instance::qos_performance_policy_id`

Definition members

Deprecated

- `network_id` in `ip_port_modify`

Added

- `mode` in `appliance_instance`
- `storage_class` in `appliance_instance`
- `mode_l10n` in `appliance_instance`
- `storage_class_l10n` in `appliance_instance`
- `block_write_iops` in `base_performance_metrics_by_file_system`
- `mirror_write_iops` in `base_performance_metrics_by_file_system`
- `block_write_bandwidth` in `base_performance_metrics_by_file_system`
- `mirror_write_bandwidth` in `base_performance_metrics_by_file_system`
- `block_avg_write_latency` in `base_performance_metrics_by_file_system`
- `avg_mirror_overhead_latency` in `base_performance_metrics_by_file_system`

- avg_block_write_iops in base_performance_metrics_by_file_system_rollup
- avg_mirror_write_iops in base_performance_metrics_by_file_system_rollup
- max_block_write_iops in base_performance_metrics_by_file_system_rollup
- max_mirror_write_iops in base_performance_metrics_by_file_system_rollup
- avg_block_write_bandwidth in base_performance_metrics_by_file_system_rollup
- avg_mirror_write_bandwidth in base_performance_metrics_by_file_system_rollup
- max_block_write_bandwidth in base_performance_metrics_by_file_system_rollup
- max_mirror_write_bandwidth in base_performance_metrics_by_file_system_rollup
- avg_block_write_latency in base_performance_metrics_by_file_system_rollup
- avg_mirror_overhead_latency in base_performance_metrics_by_file_system_rollup
- max_avg_block_write_latency in base_performance_metrics_by_file_system_rollup
- max_avg_mirror_overhead_latency in base_performance_metrics_by_file_system_rollup
- block_write_bandwidth in base_performance_metrics_by_nas_server
- mirror_write_bandwidth in base_performance_metrics_by_nas_server
- block_avg_write_latency in base_performance_metrics_by_nas_server
- avg_mirror_overhead_latency in base_performance_metrics_by_nas_server
- block_write_iops in base_performance_metrics_by_nas_server
- mirror_write_iops in base_performance_metrics_by_nas_server
- avg_block_write_iops in base_performance_metrics_by_nas_server_rollup
- avg_mirror_write_iops in base_performance_metrics_by_nas_server_rollup
- max_block_write_iops in base_performance_metrics_by_nas_server_rollup
- max_mirror_write_iops in base_performance_metrics_by_nas_server_rollup
- avg_block_write_bandwidth in base_performance_metrics_by_nas_server_rollup
- avg_mirror_write_bandwidth in base_performance_metrics_by_nas_server_rollup
- max_block_write_bandwidth in base_performance_metrics_by_nas_server_rollup
- max_mirror_write_bandwidth in base_performance_metrics_by_nas_server_rollup
- avg_block_write_latency in base_performance_metrics_by_nas_server_rollup
- avg_mirror_overhead_latency in base_performance_metrics_by_nas_server_rollup
- max_avg_block_write_latency in base_performance_metrics_by_nas_server_rollup
- max_avg_mirror_overhead_latency in base_performance_metrics_by_nas_server_rollup
- current_tcp_connections in base_performance_metrics_by_smb_client
- avg_mirror_overhead_latency in base_performance_metrics_by_vg
- mirror_write_iops in base_performance_metrics_by_vg
- mirror_write_bandwidth in base_performance_metrics_by_vg
- avg_mirror_overhead_latency in base_performance_metrics_by_vg_rollup

- avg_mirror_write_iops in base_performance_metrics_by_vg_rollup
- avg_mirror_write_bandwidth in base_performance_metrics_by_vg_rollup
- max_avg_mirror_overhead_latency in base_performance_metrics_by_vg_rollup
- max_mirror_write_iops in base_performance_metrics_by_vg_rollup
- max_mirror_write_bandwidth in base_performance_metrics_by_vg_rollup
- unreducible_data in base_space_metrics_by_appliance
- reducible_data_reduction in base_space_metrics_by_appliance
- last_unreducible_data in base_space_metrics_by_appliance_rollup
- last_reducible_data_reduction in base_space_metrics_by_appliance_rollup
- max_unreducible_data in base_space_metrics_by_appliance_rollup
- max_reducible_data_reduction in base_space_metrics_by_appliance_rollup
- unreducible_data in base_space_metrics_by_cluster
- reducible_data_reduction in base_space_metrics_by_cluster
- last_unreducible_data in base_space_metrics_by_cluster_rollup
- last_reducible_data_reduction in base_space_metrics_by_cluster_rollup
- max_unreducible_data in base_space_metrics_by_cluster_rollup
- max_reducible_data_reduction in base_space_metrics_by_cluster_rollup
- unreducible_data in base_space_metrics_by_storage_container
- data_reduction in base_space_metrics_by_storage_container
- reducible_data_reduction in base_space_metrics_by_storage_container
- last_unreducible_data in base_space_metrics_by_storage_container_rollup
- last_data_reduction in base_space_metrics_by_storage_container_rollup
- last_reducible_data_reduction in base_space_metrics_by_storage_container_rollup
- max_unreducible_data in base_space_metrics_by_storage_container_rollup
- max_data_reduction in base_space_metrics_by_storage_container_rollup
- max_reducible_data_reduction in base_space_metrics_by_storage_container_rollup
- unreducible_data in base_space_metrics_by_vg
- data_reduction in base_space_metrics_by_vg
- reducible_data_reduction in base_space_metrics_by_vg
- last_unreducible_data in base_space_metrics_by_vg_rollup
- last_data_reduction in base_space_metrics_by_vg_rollup
- last_reducible_data_reduction in base_space_metrics_by_vg_rollup
- max_unreducible_data in base_space_metrics_by_vg_rollup
- max_data_reduction in base_space_metrics_by_vg_rollup
- max_reducible_data_reduction in base_space_metrics_by_vg_rollup

- `unreducible_data` in `base_space_metrics_by_vm`
- `data_reduction` in `base_space_metrics_by_vm`
- `reducible_data_reduction` in `base_space_metrics_by_vm`
- `last_unreducible_data` in `base_space_metrics_by_vm_rollup`
- `last_data_reduction` in `base_space_metrics_by_vm_rollup`
- `last_reducible_data_reduction` in `base_space_metrics_by_vm_rollup`
- `max_unreducible_data` in `base_space_metrics_by_vm_rollup`
- `max_data_reduction` in `base_space_metrics_by_vm_rollup`
- `max_reducible_data_reduction` in `base_space_metrics_by_vm_rollup`
- `unreducible_data` in `base_space_metrics_by_volume_family`
- `data_reduction` in `base_space_metrics_by_volume_family`
- `reducible_data_reduction` in `base_space_metrics_by_volume_family`
- `last_unreducible_data` in `base_space_metrics_by_volume_family_rollup`
- `last_data_reduction` in `base_space_metrics_by_volume_family_rollup`
- `last_reducible_data_reduction` in `base_space_metrics_by_volume_family_rollup`
- `max_unreducible_data` in `base_space_metrics_by_volume_family_rollup`
- `max_data_reduction` in `base_space_metrics_by_volume_family_rollup`
- `max_reducible_data_reduction` in `base_space_metrics_by_volume_family_rollup`
- `compatibility_l10n` in `discovered_appliance_compatibility`
- `storage_class` in `discovered_appliance_instance`
- `clustering_compatibilities` in `discovered_appliance_instance`
- `version` in `discovered_appliance_instance`
- `source_interface` in `file_import_session_create`
- `source_interface` in `file_import_session_instance`
- `ip_addresses` in `file_virus_checker_create`
- `files_to_scan` in `file_virus_checker_create`
- `files_to_exclude` in `file_virus_checker_create`
- `max_file_size` in `file_virus_checker_create`
- `survey_time` in `file_virus_checker_create`
- `offline_policy` in `file_virus_checker_create`
- `high_watermark` in `file_virus_checker_create`
- `low_watermark` in `file_virus_checker_create`
- `msrpc_user` in `file_virus_checker_create`
- `msrpc_user_password` in `file_virus_checker_create`
- `http_port` in `file_virus_checker_create`

- `ip_addresses` in `file_virus_checker_instance`
- `files_to_scan` in `file_virus_checker_instance`
- `files_to_exclude` in `file_virus_checker_instance`
- `max_file_size` in `file_virus_checker_instance`
- `survey_time` in `file_virus_checker_instance`
- `offline_policy` in `file_virus_checker_instance`
- `high_watermark` in `file_virus_checker_instance`
- `low_watermark` in `file_virus_checker_instance`
- `msrpc_user` in `file_virus_checker_instance`
- `rpc_retry_timeout` in `file_virus_checker_instance`
- `rpc_request_timeout` in `file_virus_checker_instance`
- `http_port` in `file_virus_checker_instance`
- `reference_time` in `file_virus_checker_instance`
- `offline_policy_l10n` in `file_virus_checker_instance`
- `ip_addresses` in `file_virus_checker_modify`
- `files_to_scan` in `file_virus_checker_modify`
- `files_to_exclude` in `file_virus_checker_modify`
- `max_file_size` in `file_virus_checker_modify`
- `survey_time` in `file_virus_checker_modify`
- `offline_policy` in `file_virus_checker_modify`
- `high_watermark` in `file_virus_checker_modify`
- `low_watermark` in `file_virus_checker_modify`
- `msrpc_user` in `file_virus_checker_modify`
- `msrpc_user_password` in `file_virus_checker_modify`
- `rpc_retry_timeout` in `file_virus_checker_modify`
- `rpc_request_timeout` in `file_virus_checker_modify`
- `http_port` in `file_virus_checker_modify`
- `reference_time` in `file_virus_checker_modify`
- `storage_class` in `hardware_extra_details_instance`
- `storage_class_l10n` in `hardware_extra_details_instance`
- `importable_criteria_l10n` in `import_universal_consistency_group_instance`
- `remote_system` in `import_universal_consistency_group_instance`
- `block_size_l10n` in `import_universal_volume_instance`
- `importable_criteria_l10n` in `import_universal_volume_instance`
- `remote_system` in `import_universal_volume_instance`

- `type_l10n` in `io_limit_rule_instance`
- `policies` in `io_limit_rule_instance`
- `remove_current_usages` in `ip_port_modify`
- `network_ids` in `ip_port_modify`
- `add_purposes_subset` in `network_scale`
- `io_limit_rule_id` in `policy_create`
- `io_limit_rule` in `policy_instance`
- `qos_volumes` in `policy_instance`
- `qos_volume_groups` in `policy_instance`
- `replication_groups` in `policy_instance`
- `io_limit_rule_id` in `policy_modify`
- `classification_choice` in `remote_support_instance`
- `type_l10n` in `remote_support_instance`
- `connectivity_status_l10n` in `remote_support_instance`
- `classification_choice_l10n` in `remote_support_instance`
- `classification_choice` in `remote_support_modify`
- `connectivity_status_l10n` in `remote_support_servers_appliance_status_instance`
- `universal_details` in `remote_system_create`
- `unity_file_details` in `remote_system_create`
- `unity_file_details` in `remote_system_instance`
- `powerstore_data_network_configuration` in `remote_system_instance`
- `import_universal_volumes` in `remote_system_instance`
- `import_universal_consistency_group` in `remote_system_instance`
- `unity_file_details` in `remote_system_modify`
- `add_powerstore_data_network_groups` in `remote_system_modify`
- `modify_powerstore_data_network_groups` in `remote_system_modify`
- `remove_powerstore_data_network_group_ids` in `remote_system_modify`
- `policies` in `replication_group_instance`
- `volumes` in `replication_session_instance`
- `volume_groups` in `replication_session_instance`
- `discard_changes_after_failover` in `replication_session_reprotect`
- `is_autodownloaded` in `software_package_instance`
- `kb_article_link` in `software_package_instance`
- `dependent_version` in `software_package_instance`
- `is_urgent` in `software_package_instance`

- `is_verify_server_cert` in `vcenter_create`
- `server_cert_thumbprint` in `vcenter_create`
- `is_verify_server_cert` in `vcenter_instance`
- `is_verify_server_cert` in `vcenter_modify`
- `server_cert_thumbprint` in `vcenter_modify`
- `qos_performance_policy_id` in `volume_clone`
- `qos_performance_policy_id` in `volume_create`
- `qos_performance_policy_id` in `volume_group_clone`
- `qos_performance_policy_id` in `volume_group_create`
- `qos_performance_policy_id` in `volume_group_instance`
- `metro_replication_session_id` in `volume_group_instance`
- `is_host_access_available` in `volume_group_instance`
- `qos_performance_policy` in `volume_group_instance`
- `replication_sessions` in `volume_group_instance`
- `qos_performance_policy_id` in `volume_group_modify`
- `qos_performance_policy_id` in `volume_instance`
- `qos_performance_policy` in `volume_instance`
- `replication_sessions` in `volume_instance`
- `qos_performance_policy_id` in `volume_modify`

Version 3.6.0.0

Paths

Added

- `POST /hardware/{id}/upgrade`
- `POST /hardware/{id}/validate_upgrade`
- `GET /witness`
- `POST /witness`
- `DELETE /witness/{id}`
- `GET /witness/{id}`
- `PATCH /witness/{id}`

Enumeration values

Added

- `SUCCESS`, `PARTIAL`, `FAILED`, `RUNNING` in `DatacollectionStatusEnum`
- `3_Gbps`, `6_Gbps`, `12_Gbps` in `HardwareSFPSpeedEnum`
- `file_system` in `ReplicatedResourceTypeEnum`
- `System_Promoted` in `ReplicationResourceStateEnum`

Definitions

Added

- `HardwareModelTypeEnum`
- `HardwareUpgradeTypeEnum`
- `ReplicationSessionWitnessStateEnum`
- `WitnessConnectionStateEnum`
- `WitnessStateEnum`
- `file_interface_instance::is_dr_test`
- `hardware_upgrade`
- `hardware_validate_upgrade`
- `nas_server_clone::is_dr_test`
- `nas_server_instance::is_dr_test`
- `remote_syslog_server_create::is_alert_events_included`
- `remote_syslog_server_instance::is_alert_events_included`
- `remote_syslog_server_modify::is_alert_events_included`
- `replication_session_witness_details`
- `replication_session_witness_details::state_l10n`
- `valid_upgrade_instance`
- `valid_upgrade_instance::model_name_l10n`
- `witness_connection_instance`
- `witness_connection_instance::state_l10n`
- `witness_create`
- `witness_instance`
- `witness_instance::state_l10n`
- `witness_modify`

Definition members

Added

- `is_dr_test` in `file_interface_instance`
- `valid_upgrades` in `hardware_instance`
- `is_dr_test` in `nas_server_clone`
- `is_dr_test` in `nas_server_instance`
- `is_alert_events_included` in `remote_syslog_server_create`
- `is_alert_events_included` in `remote_syslog_server_instance`
- `is_alert_events_included` in `remote_syslog_server_modify`
- `witness_details` in `replication_session_instance`
- `state_l10n` in `replication_session_witness_details`
- `model_name_l10n` in `valid_upgrade_instance`
- `state_l10n` in `witness_connection_instance`
- `state_l10n` in `witness_instance`

Version 3.5.0.0

Paths

Added

- GET `/fsn`
- POST `/fsn`
- DELETE `/fsn/{id}`
- GET `/fsn/{id}`
- PATCH `/fsn/{id}`
- GET `/mfa_securid`
- POST `/mfa_securid`
- DELETE `/mfa_securid/{id}`
- GET `/mfa_securid/{id}`
- PATCH `/mfa_securid/{id}`
- GET `/recycle_bin`
- POST `/recycle_bin/empty`
- DELETE `/recycle_bin/{id}`
- GET `/recycle_bin/{id}`
- POST `/recycle_bin/{id}/recover`
- GET `/recycle_bin_config`

- GET /recycle_bin_config/{id}
- PATCH /recycle_bin_config/{id}
- POST /smb_share/{id}/get_acl
- POST /smb_share/{id}/set_acl

Parameters

Added

- **body** in DELETE /volume/{id}

Enumeration values

Added

- **remote_snapshot_session** in CopySessionTypeEnum
- **DD_Boost** in DataConnectionTypeEnum
- **NVMe_Virtual** in HardwareDriveTypeEnum
- **Replaced**, **Prepare_Reset** in HardwareLifecycleStateEnum
- **ICM**, **ICD** in IpPortUsageEnum
- **space_metrics_by_remote_system** in MetricsEntityEnum
- **Remote_Backup** in RemoteProtectionCapabilityEnum
- **PowerProtect_DD** in RemoteSystemTypeEnum
- **External** in StorageCreatorTypeEnum
- **file_system** in StorageElementTypeEnum
- **Operation_Timeout** in TransitConnectionStatusEnum
- **Unavailable** in VendorProviderStatusEnum
- **Proxy** in VolumeTypeEnum
- **VIM_HTTP**, **SecurID_HTTP**, **Witness_HTTP** in X509CertificateServiceEnum

Definitions

Deprecated

- **file_import_session_report_current_opeartion_duration::total_Duration**
- **file_import_session_report_current_opeartion_duration::importing_configDuration**
- **file_import_session_report_production_net_interface::file_interface_id**
- **file_import_session_report_response::destination_resource_id**
- **volume_group_clone::is_replication_destination**

Added

- [FSNStatusEnum](#)
- [LicenseTypeEnum](#)
- [MFAServiceTypeEnum](#)
- [MfaSecuridStatusEnum](#)
- [RecycleBinResourceTypeEnum](#)
- [RemoteSnapshotCreatorTypeEnum](#)
- [RemoteSnapshotResourceTypeEnum](#)
- [RemoteSnapshotSessionStateEnum](#)
- [RemoteSnapshotSessionTypeEnum](#)
- [RemoteSnapshotStateEnum](#)
- [SMBShareAccessLevelEnum](#)
- [SMBShareAccessTypeEnum](#)
- [SMBShareTrusteeTypeEnum](#)
- [base_copy_metrics_by_appliance_rollup](#)
- [base_copy_metrics_by_cluster_rollup](#)
- [base_copy_metrics_by_remote_system_rollup](#)
- [base_copy_metrics_by_rg_rollup](#)
- [base_copy_metrics_by_vg_rollup](#)
- [base_copy_metrics_by_volume_rollup](#)
- [base_performance_metrics_by_fe_fc_node::appliance_id](#)
- [base_performance_metrics_by_fe_fc_node_rollup::appliance_id](#)
- [base_performance_metrics_by_ip_port::appliance_id](#)
- [base_performance_metrics_by_ip_port_iscsi::appliance_id](#)
- [base_performance_metrics_by_ip_port_iscsi_rollup::appliance_id](#)
- [base_performance_metrics_by_ip_port_rollup::appliance_id](#)
- [base_performance_metrics_by_nas_server](#)
- [base_performance_metrics_by_nas_server_rollup](#)
- [base_performance_metrics_by_nfsv3_rollup::max_md_ops](#)
- [base_performance_metrics_by_nfsv4_rollup::max_md_ops](#)
- [base_performance_metrics_by_smb_node::current_tcp_connections](#)
- [base_performance_metrics_by_smb_node_rollup::max_current_tcp_connections](#)
- [base_performance_metrics_by_smb_node_rollup::avg_current_tcp_connections](#)
- [base_performance_metrics_by_smb_v1_node::current_tcp_connections](#)

- `base_performance_metrics_by_smb_v1_node_rollup::max_current_tcp_connections`
- `base_performance_metrics_by_smb_v1_node_rollup::avg_current_tcp_connections`
- `base_performance_metrics_by_smb_v2_node::current_tcp_connections`
- `base_performance_metrics_by_smb_v2_node_rollup::max_current_tcp_connections`
- `base_performance_metrics_by_smb_v2_node_rollup::avg_current_tcp_connections`
- `base_performance_metrics_by_vg_rollup`
- `base_performance_metrics_file_by_cluster::cluster_id`
- `base_performance_metrics_file_by_cluster_rollup::cluster_id`
- `base_space_metrics_by_file_system`
- `base_space_metrics_by_file_system_rollup`
- `base_space_metrics_by_storage_container::unique_physical_used`
- `base_space_metrics_by_storage_container::snap_clone_logical_used`
- `base_space_metrics_by_storage_container::thin_savings`
- `base_space_metrics_by_storage_container_rollup::last_unique_physical_used`
- `base_space_metrics_by_storage_container_rollup::last_snap_clone_logical_used`
- `base_space_metrics_by_storage_container_rollup::last_thin_savings`
- `base_space_metrics_by_storage_container_rollup::max_unique_physical_used`
- `base_space_metrics_by_storage_container_rollup::max_snap_clone_logical_used`
- `base_space_metrics_by_storage_container_rollup::max_thin_savings`
- `base_space_metrics_by_vg::shared_logical_used`
- `base_space_metrics_by_vg::unique_physical_used`
- `base_space_metrics_by_vg_rollup::last_shared_logical_used`
- `base_space_metrics_by_vg_rollup::last_unique_physical_used`
- `base_space_metrics_by_vg_rollup::max_shared_logical_used`
- `base_space_metrics_by_vg_rollup::max_unique_physical_used`
- `base_space_metrics_by_vm::shared_logical_used`
- `base_space_metrics_by_vm_rollup::last_shared_logical_used`
- `base_space_metrics_by_vm_rollup::max_shared_logical_used`
- `bond_instance::fsn_id`
- `cluster_create_security_config::vasa_retain_certificate`
- `copy_metrics_by_appliance_rollup`
- `copy_metrics_by_cluster_rollup`
- `copy_metrics_by_remote_system_rollup`
- `copy_metrics_by_rg_rollup`
- `copy_metrics_by_vg_rollup`

- `copy_metrics_by_volume_rollup`
- `eth_port_instance::fsn_id`
- `file_import_session_report_current_operation_duration::total_Duration`
- `file_import_session_report_current_operation_duration::importing_configDuration`
- `file_import_session_report_production_net_interface::file_interface_id`
- `file_import_session_report_response::destination_nas_server_id`
- `fsn_create`
- `fsn_instance`
- `fsn_instance::status_l10n`
- `fsn_modify`
- `ip_port_instance::fsn_id`
- `job_smb_share_get_acl_response`
- `license_instance::license_type_l10n`
- `local_user_create::is_mfa_bypass`
- `local_user_instance::is_mfa_bypass`
- `local_user_instance::mfa_alias`
- `local_user_modify::is_mfa_bypass`
- `member_details_instance`
- `mfa_securid_create`
- `mfa_securid_instance`
- `mfa_securid_instance::status_l10n`
- `mfa_securid_modify`
- `mfa_service_ref`
- `mfa_service_ref::type_l10n`
- `performance_metrics_by_nas_server`
- `performance_metrics_by_nas_server_rollup`
- `performance_metrics_by_vg_rollup`
- `ppdd_storage_unit_details_create`
- `ppdd_storage_unit_details_instance`
- `ppdd_storage_unit_details_modify`
- `protection_data_instance::is_secure`
- `recycle_bin_config_instance`
- `recycle_bin_config_modify`
- `recycle_bin_instance`
- `recycle_bin_instance::resource_type_l10n`

- `recycle_bin_recover`
- `remote_member_details_instance`
- `remote_snapshot_instance`
- `remote_snapshot_instance::state_l10n`
- `remote_snapshot_instance::resource_type_l10n`
- `remote_snapshot_instance::creator_type_l10n`
- `remote_snapshot_session_instance`
- `remote_snapshot_session_instance::session_type_l10n`
- `remote_snapshot_session_instance::resource_type_l10n`
- `remote_snapshot_session_instance::state_l10n`
- `remote_snapshot_session_instance::creator_type_l10n`
- `security_config_instance::is_stig_enabled`
- `security_config_instance::is_fips_enabled`
- `security_config_instance::vasa_retain_certificate`
- `security_config_modify::is_stig_enabled`
- `security_config_modify::idle_timeout`
- `security_config_modify::vasa_retain_certificate`
- `smb_share_ace`
- `smb_share_get_acl_response`
- `smb_share_set_acl`
- `snapshot_rule_create::is_secure`
- `snapshot_rule_instance::remote_system_id`
- `snapshot_rule_instance::is_secure`
- `snapshot_rule_modify::is_secure`
- `space_metrics_by_file_system`
- `space_metrics_by_file_system_rollup`
- `volume_delete`
- `volume_group_delete::immediate`
- `volume_group_modify::is_secure`
- `volume_group_snapshot::is_secure`
- `volume_modify::is_secure`
- `volume_snapshot::is_secure`

Definition members

Deprecated

- `total_Duration` in `file_import_session_report_current_opeartion_duration`
- `importing_configDuration` in `file_import_session_report_current_opeartion_duration`
- `file_interface_id` in `file_import_session_report_production_net_interface`
- `destination_resource_id` in `file_import_session_report_response`
- `is_replication_destination` in `volume_group_clone`

Added

- `fsns` in `appliance_instance`
- `appliance_id` in `base_performance_metrics_by_fe_fc_node`
- `appliance_id` in `base_performance_metrics_by_fe_fc_node_rollup`
- `appliance_id` in `base_performance_metrics_by_ip_port`
- `appliance_id` in `base_performance_metrics_by_ip_port_iscsi`
- `appliance_id` in `base_performance_metrics_by_ip_port_iscsi_rollup`
- `appliance_id` in `base_performance_metrics_by_ip_port_rollup`
- `max_md_ops` in `base_performance_metrics_by_nfsv3_rollup`
- `max_md_ops` in `base_performance_metrics_by_nfsv4_rollup`
- `current_tcp_connections` in `base_performance_metrics_by_smb_node`
- `max_current_tcp_connections` in `base_performance_metrics_by_smb_node_rollup`
- `avg_current_tcp_connections` in `base_performance_metrics_by_smb_node_rollup`
- `current_tcp_connections` in `base_performance_metrics_by_smb_v1_node`
- `max_current_tcp_connections` in `base_performance_metrics_by_smb_v1_node_rollup`
- `avg_current_tcp_connections` in `base_performance_metrics_by_smb_v1_node_rollup`
- `current_tcp_connections` in `base_performance_metrics_by_smb_v2_node`
- `max_current_tcp_connections` in `base_performance_metrics_by_smb_v2_node_rollup`
- `avg_current_tcp_connections` in `base_performance_metrics_by_smb_v2_node_rollup`
- `cluster_id` in `base_performance_metrics_file_by_cluster`
- `cluster_id` in `base_performance_metrics_file_by_cluster_rollup`
- `unique_physical_used` in `base_space_metrics_by_storage_container`
- `snap_clone_logical_used` in `base_space_metrics_by_storage_container`
- `thin_savings` in `base_space_metrics_by_storage_container`
- `last_unique_physical_used` in `base_space_metrics_by_storage_container_rollup`
- `last_snap_clone_logical_used` in `base_space_metrics_by_storage_container_rollup`
- `last_thin_savings` in `base_space_metrics_by_storage_container_rollup`
- `max_unique_physical_used` in `base_space_metrics_by_storage_container_rollup`

- `max_snap_clone_logical_used` in `base_space_metrics_by_storage_container_rollup`
- `max_thin_savings` in `base_space_metrics_by_storage_container_rollup`
- `shared_logical_used` in `base_space_metrics_by_vg`
- `unique_physical_used` in `base_space_metrics_by_vg`
- `last_shared_logical_used` in `base_space_metrics_by_vg_rollup`
- `last_unique_physical_used` in `base_space_metrics_by_vg_rollup`
- `max_shared_logical_used` in `base_space_metrics_by_vg_rollup`
- `max_unique_physical_used` in `base_space_metrics_by_vg_rollup`
- `shared_logical_used` in `base_space_metrics_by_vm`
- `last_shared_logical_used` in `base_space_metrics_by_vm_rollup`
- `max_shared_logical_used` in `base_space_metrics_by_vm_rollup`
- `fsn_id` in `bond_instance`
- `fsn` in `bond_instance`
- `vasa_retain_certificate` in `cluster_create_security_config`
- `fsn_id` in `eth_port_instance`
- `fsn` in `eth_port_instance`
- `total_Duration` in `file_import_session_report_current_ooperation_duration`
- `importing_configDuration` in `file_import_session_report_current_ooperation_duration`
- `file_interface_id` in `file_import_session_report_production_net_interface`
- `destination_nas_server_id` in `file_import_session_report_response`
- `status_l10n` in `fsn_instance`
- `ip_ports` in `fsn_instance`
- `bonds` in `fsn_instance`
- `partner` in `fsn_instance`
- `appliance` in `fsn_instance`
- `eth_ports` in `fsn_instance`
- `fsn_id` in `ip_port_instance`
- `fsn` in `ip_port_instance`
- `license_type` in `license_instance`
- `license_type_l10n` in `license_instance`
- `is_mfa_bypass` in `local_user_create`
- `is_mfa_bypass` in `local_user_instance`
- `mfa_alias` in `local_user_instance`
- `is_mfa_bypass` in `local_user_modify`
- `status_l10n` in `mfa_securid_instance`

- `type_l10n` in `mfa_service_ref`
- `is_secure` in `protection_data_instance`
- `resource_type_l10n` in `recycle_bin_instance`
- `state_l10n` in `remote_snapshot_instance`
- `resource_type_l10n` in `remote_snapshot_instance`
- `creator_type_l10n` in `remote_snapshot_instance`
- `remote_snapshots` in `remote_snapshot_instance`
- `volume` in `remote_snapshot_instance`
- `volume_group` in `remote_snapshot_instance`
- `remote_system` in `remote_snapshot_instance`
- `session_type_l10n` in `remote_snapshot_session_instance`
- `resource_type_l10n` in `remote_snapshot_session_instance`
- `state_l10n` in `remote_snapshot_session_instance`
- `creator_type_l10n` in `remote_snapshot_session_instance`
- `remote_system` in `remote_snapshot_session_instance`
- `volume` in `remote_snapshot_session_instance`
- `volume_group` in `remote_snapshot_session_instance`
- `remote_snapshot` in `remote_snapshot_session_instance`
- `rule` in `remote_snapshot_session_instance`
- `local_volume_snapshot` in `remote_snapshot_session_instance`
- `local_volume_group_snapshot` in `remote_snapshot_session_instance`
- `ppdd_storage_unit_details` in `remote_system_create`
- `ppdd_storage_unit_details` in `remote_system_instance`
- `snapshot_rules` in `remote_system_instance`
- `remote_snapshot_sessions` in `remote_system_instance`
- `remote_snapshots` in `remote_system_instance`
- `ppdd_storage_unit_details` in `remote_system_modify`
- `is_stig_enabled` in `security_config_instance`
- `is_fips_enabled` in `security_config_instance`
- `default_mfa_service` in `security_config_instance`
- `vasa_retain_certificate` in `security_config_instance`
- `is_stig_enabled` in `security_config_modify`
- `idle_timeout` in `security_config_modify`
- `vasa_retain_certificate` in `security_config_modify`
- `remove_aces` in `smb_share_set_acl`

- `remote_system_id` in `snapshot_rule_create`
- `is_secure` in `snapshot_rule_create`
- `remote_system_id` in `snapshot_rule_instance`
- `is_secure` in `snapshot_rule_instance`
- `remote_system` in `snapshot_rule_instance`
- `remote_snapshot_sessions` in `snapshot_rule_instance`
- `remote_system_id` in `snapshot_rule_modify`
- `is_secure` in `snapshot_rule_modify`
- `immediate` in `volume_group_delete`
- `remote_snapshot_sessions` in `volume_group_instance`
- `current_remote_snapshot_sessions` in `volume_group_instance`
- `remote_snapshots` in `volume_group_instance`
- `is_secure` in `volume_group_modify`
- `is_secure` in `volume_group_snapshot`
- `remote_snapshot_sessions` in `volume_instance`
- `current_remote_snapshot_sessions` in `volume_instance`
- `remote_snapshots` in `volume_instance`
- `is_secure` in `volume_modify`
- `is_secure` in `volume_snapshot`

Version 3.2.0.0

Definitions

Deprecated

- `file_import_smb_configuration::description`
- `file_import_source_filesystem::import_source_nas_server_id`
- `file_import_source_filesystem::sourcename`
- `file_import_source_filesystem::targetname`
- `file_import_source_network_interface::import_source_nas_server_id`
- `file_import_source_network_interface::netmask`

Added

- `FileImportNasServerImportableCriteriaEnum`
- `appliance_instance::is_hyper_converged`
- `discovered_appliance_instance::is_hyper_converged`

- [file_import_nas_server_instance::is_importable](#)
- [file_import_source_filesystem::name](#)

Definition members

Deprecated

- [description](#) in [file_import_smb_configuration](#)
- [import_source_nas_server_id](#) in [file_import_source_filesystem](#)
- [sourcename](#) in [file_import_source_filesystem](#)
- [targetname](#) in [file_import_source_filesystem](#)
- [import_source_nas_server_id](#) in [file_import_source_network_interface](#)
- [netmask](#) in [file_import_source_network_interface](#)

Added

- [is_hyper_converged](#) in [appliance_instance](#)
- [is_hyper_converged](#) in [discovered_appliance_instance](#)
- [is_importable](#) in [file_import_nas_server_instance](#)
- [non_importable_criteria](#) in [file_import_nas_server_instance](#)
- [non_importable_messages](#) in [file_import_nas_server_instance](#)
- [non_importable_criteria_list](#) in [file_import_nas_server_instance](#)
- [latest_failure_messages](#) in [file_import_session_report_response](#)
- [name](#) in [file_import_source_filesystem](#)

Version 3.0.0.0

Paths

Deprecated

- [POST /import_psgroup/{id}/discover](#)
- [POST /import_storage_center/{id}/discover](#)
- [POST /import_unity/{id}/discover](#)
- [POST /import_vnx_array/{id}/discover](#)
- [POST /import_xtremio/{id}/discover](#)
- [PATCH /virtual_machine/{id}](#)

Added

- [POST /bond](#)

- DELETE /bond/{id}
- PATCH /bond/{id}
- GET /datacollection
- POST /datacollection
- DELETE /datacollection/{id}
- GET /datacollection/{id}
- POST /datacollection/{id}/upload
- GET /datastore
- GET /datastore/{id}
- GET /discovered_appliance
- POST /discovered_appliance/{id}/update_software
- GET /eth_be_port
- GET /eth_be_port/{id}
- GET /fast_metrics_config
- POST /fast_metrics_config
- DELETE /fast_metrics_config/{id}
- GET /fast_metrics_config/{id}
- GET /file_dhsm_config
- POST /file_dhsm_config
- DELETE /file_dhsm_config/{id}
- GET /file_dhsm_config/{id}
- PATCH /file_dhsm_config/{id}
- GET /file_events_pool
- POST /file_events_pool
- DELETE /file_events_pool/{id}
- GET /file_events_pool/{id}
- PATCH /file_events_pool/{id}
- GET /file_events_publisher
- POST /file_events_publisher
- DELETE /file_events_publisher/{id}
- GET /file_events_publisher/{id}
- PATCH /file_events_publisher/{id}
- GET /file_import_interface
- POST /file_import_interface
- DELETE /file_import_interface/{id}

- GET /file_import_interface/{id}
- PATCH /file_import_interface/{id}
- GET /file_import_nas_server
- GET /file_import_nas_server/{id}
- GET /file_import_session
- POST /file_import_session
- DELETE /file_import_session/{id}
- GET /file_import_session/{id}
- PATCH /file_import_session/{id}
- POST /file_import_session/{id}/cancel
- POST /file_import_session/{id}/commit
- POST /file_import_session/{id}/cutover
- POST /file_import_session/{id}/destination_objects_sync
- POST /file_import_session/{id}/pause
- POST /file_import_session/{id}/report
- POST /file_import_session/{id}/resume
- GET /import_netapp
- GET /import_netapp/{id}
- GET /import_netapp_volume
- GET /import_netapp_volume/{id}
- POST /import_netapp_volume/{id}/import_snapshot_schedules
- GET /import_vmax
- GET /import_vmax/{id}
- GET /import_vmax_storage_group
- GET /import_vmax_storage_group/{id}
- POST /import_vmax_storage_group/{id}/import_snapshot_policy
- GET /import_vmax_volume
- GET /import_vmax_volume/{id}
- GET /initiator
- GET /initiator/{id}
- GET /kmip_config
- GET /kmip_config/{id}
- PATCH /kmip_config/{id}
- POST /kmip_config/{id}/verify
- GET /metrics_archive

- [POST /metrics_archive/generate](#)
- [GET /metrics_archive/{id}](#)
- [GET /metrics_archive/{id}/download](#)
- [POST /nas_server/{id}/clone](#)
- [GET /nvme_discovered_cdc](#)
- [POST /policy/{id}/clone](#)
- [POST /remote_system/{id}/discover](#)
- [GET /replication_group](#)
- [DELETE /replication_group/{id}](#)
- [GET /replication_group/{id}](#)
- [PATCH /replication_group/{id}](#)
- [POST /replication_rule/{id}/clone](#)
- [PATCH /replication_session/{id}](#)
- [POST /replication_session/{id}/demote](#)
- [POST /replication_session/{id}/promote](#)
- [POST /snapshot_rule/{id}/clone](#)
- [GET /storage_container_destination](#)
- [POST /storage_container_destination](#)
- [DELETE /storage_container_destination/{id}](#)
- [GET /storage_container_destination/{id}](#)
- [POST /volume/{id}/configure_metro](#)
- [POST /volume/{id}/end_metro](#)
- [GET /vsphere_host](#)
- [GET /vsphere_host/{id}](#)
- [GET /vsphere_host_license_assignment](#)
- [GET /vsphere_host_license_assignment/{id}](#)

Responses

Deprecated

- **202** in [DELETE /software_package/{id}](#)
- **400** in [DELETE /storage_container/{id}](#)

Enumeration values

Added

- AIDE, Service in [AuditEventTypeEnum](#)
- None in [DriveFailureToleranceLevelEnum](#)
- 100_Gbps in [EthPortSpeedEnum](#)
- NFS, SMB in [FileImportNasServerProtocolTypeEnum](#)
- NFS, SMB in [FileImportSessionReportProtocolEnum](#)
- System in [FileInterfaceRoleEnum](#)
- 100_Gbps in [HardwareSFPsSpeedEnum](#)
- CDB, Access_Module in [HardwareTypeEnum](#)
- NVMe_vVol in [InitiatorProtocolTypeEnum](#)
- File_Mobility, File_Data in [IpPortUsageEnum](#)
- ICM_Postgres_Floating, ICM_Controlpath_Floating, File_Mobility_Node, File_Mobility_Floating in [IpPurposeTypeEnum](#)
- Up, Down in [KMIPConfigStatusEnum](#)
- performance_metrics_by_nas_server, space_metrics_by_file_system, performance_metrics_by_initiator, performance_metrics_by_host, performance_metrics_by_hg, vsphere_metrics_by_vm, vsphere_appson_metrics_by_node, vsphere_appson_metrics_by_appliance, copy_metrics_by_rg, performance_metrics_by_ip_port_iscsi in [MetricsEntityEnum](#)
- Best_Available, Five_Sec in [MetricsIntervalEnum](#)
- replication_group in [MigrationRecommendationPrimaryResourceTypeEnum](#)
- Virtual_Machine, Replication_Group, Virtual_Machine_Family in [MigrationRecommendationReasonEnum](#)
- virtual_machine, replication_group in [MigrationResourceTypeEnum](#)
- Automatic_Rescan_In_Progress, Manual_Rescan_Required in [MigrationSessionStateEnum](#)
- File_Mobility in [NetworkPurposeEnum](#)
- File_Mobility in [NetworkTypeEnum](#)
- Low_Medium, Medium, Medium_High in [RemoteSystemLatencyEnum](#)
- Partial_Delete in [RemoteSystemStateEnum](#)
- NetApp, PowerMax_VMAX in [RemoteSystemTypeEnum](#)
- replication_group, nas_server in [ReplicatedResourceTypeEnum](#)
- Metro_Preferred, Metro_Non_Preferred in [ReplicationRoleEnum](#)
- Switching_To_Metro_Sync, Modify_Role_In_Progress, Fractured, Deleting, Pausing, Partial_OK, Partial_Paused, Partial_Failed_Over, Partial_Reprotected, Error in [ReplicationStateEnum](#)
- add_or_replace, bulk_disable_mirror, bulk_enable_mirror, switch_mode_to_sync, create_nas_volume_session in [ResourceActionEnum](#)
- Analytics, STIG in [SoftwarePackageTypeEnum](#)

- `NetApp_System_State_Inappropriate`, `NetApp_Volume_State_Inappropriate`, `Volume_Size_Not_Multiple_of_8192`, `Unsupported_Protocol`, `Vmax_Volume_State_Inappropriate` in `VolumeImportableCriteriaEnum`
- `KMIP_HTTP` in `X509CertificateServiceEnum`

Definitions

Deprecated

- `appliance_forecast_response::timestamp`
- `appliance_forecast_response::low_value`
- `appliance_forecast_response::mean_value`
- `appliance_forecast_response::high_value`
- `cluster_create_vcenters::data_center_create`
- `discovered_initiator_instance::protocol_type_l10n`
- `file_import_nas_server_instance::importable_criteria`
- `file_import_nas_server_instance::non_importable_reasons`
- `host_initiator_instance::port_type_l10n`
- `remote_support_instance::is_icw_configured`
- `security_config_instance::protocol_mode_l10n`
- `validate_create_issue::applianceId`

Added

- `BondStatusEnum`
- `DataConnectionTypeEnum`
- `DataTransferStateEnum`
- `DatacollectionCreatorTypeEnum`
- `DatacollectionResourceTypeEnum`
- `DatacollectionStatusEnum`
- `DatastoreTypeEnum`
- `DiscoveredApplianceSoftwareVersionCompatibilityEnum`
- `DiscoveredApplianceStateEnum`
- `EthBEPortProtocolEnum`
- `EthBEPortSpeedEnum`
- `FastMetricsResourceTypeEnum`
- `FcPortScsiModeEnum`
- `FileEventsCategoryEnum`

- FileEventsPublishingModeEnum
- FileImportDestinationResourceTypeEnum
- FileImportNasServerProtocolTypeEnum
- FileImportSessionCurrentOperationEnum
- FileImportSessionReportProtocolEnum
- FileImportSessionStateEnum
- FileSystemConfigTypeEnum
- FileSystemFLRModeEnum
- FileSystemHostIoSizeEnum
- HardwareEnclosureModelDescriptionEnum
- HostConnectivityEnum
- KMIPConfigStatusEnum
- NASAccessTypeEnum
- NVMeDiscoveryModeEnum
- NetAppContainerStateEnum
- NetAppSVMStateEnum
- NetAppScheduleTypeEnum
- NetAppVolumeStateEnum
- NvmeCdcConnectionStateEnum
- PolicyManagedByEnum
- PostEventPolicyEnum
- RemoteProtectionCapabilityEnum
- RemoteSystemFileConnectionStateEnum
- ReplicationResourceStateEnum
- ReplicationSessionTypeEnum
- StorageContainerStorageProtocolEnum
- VirtualMachinePowerStateEnum
- VmaxVolumeStateEnum
- active_session_instance::nvme_transport_type_l10n
- appliance_forecast_response::metric_type
- appliance_instance::node_count
- base_capacity_forecast_response
- base_copy_metrics_by_rg
- base_performance_metrics_by_appliance::avg_mirror_overhead_latency
- base_performance_metrics_by_appliance::avg_mirror_write_latency

- `base_performance_metrics_by_appliance::mirror_write_iops`
- `base_performance_metrics_by_appliance::mirror_write_bandwidth`
- `base_performance_metrics_by_appliance_rollup::avg_mirror_write_latency`
- `base_performance_metrics_by_appliance_rollup::avg_mirror_overhead_latency`
- `base_performance_metrics_by_appliance_rollup::avg_mirror_write_iops`
- `base_performance_metrics_by_appliance_rollup::avg_mirror_write_bandwidth`
- `base_performance_metrics_by_appliance_rollup::max_avg_mirror_write_latency`
- `base_performance_metrics_by_appliance_rollup::max_avg_mirror_overhead_latency`
- `base_performance_metrics_by_appliance_rollup::max_mirror_write_iops`
- `base_performance_metrics_by_appliance_rollup::max_mirror_write_bandwidth`
- `base_performance_metrics_by_cluster::avg_mirror_write_latency`
- `base_performance_metrics_by_cluster::avg_mirror_overhead_latency`
- `base_performance_metrics_by_cluster::mirror_write_iops`
- `base_performance_metrics_by_cluster::mirror_write_bandwidth`
- `base_performance_metrics_by_cluster_rollup::avg_mirror_write_latency`
- `base_performance_metrics_by_cluster_rollup::avg_mirror_overhead_latency`
- `base_performance_metrics_by_cluster_rollup::avg_mirror_write_iops`
- `base_performance_metrics_by_cluster_rollup::avg_mirror_write_bandwidth`
- `base_performance_metrics_by_cluster_rollup::max_avg_mirror_write_latency`
- `base_performance_metrics_by_cluster_rollup::max_avg_mirror_overhead_latency`
- `base_performance_metrics_by_cluster_rollup::max_mirror_write_iops`
- `base_performance_metrics_by_cluster_rollup::max_mirror_write_bandwidth`
- `base_performance_metrics_by_file_system::appliance_id`
- `base_performance_metrics_by_file_system_rollup::appliance_id`
- `base_performance_metrics_by_hg`
- `base_performance_metrics_by_hg_rollup`
- `base_performance_metrics_by_host`
- `base_performance_metrics_by_host_rollup`
- `base_performance_metrics_by_initiator`
- `base_performance_metrics_by_initiator_rollup`
- `base_performance_metrics_by_nfs::appliance_id`
- `base_performance_metrics_by_nfs_rollup::appliance_id`
- `base_performance_metrics_by_nfsv3::appliance_id`
- `base_performance_metrics_by_nfsv3_rollup::appliance_id`
- `base_performance_metrics_by_nfsv4::appliance_id`

- `base_performance_metrics_by_nfsv4_rollup::appliance_id`
- `base_performance_metrics_by_node::avg_mirror_write_latency`
- `base_performance_metrics_by_node::avg_mirror_overhead_latency`
- `base_performance_metrics_by_node::mirror_write_iops`
- `base_performance_metrics_by_node::mirror_write_bandwidth`
- `base_performance_metrics_by_node_rollup::avg_mirror_write_latency`
- `base_performance_metrics_by_node_rollup::avg_mirror_overhead_latency`
- `base_performance_metrics_by_node_rollup::avg_mirror_write_iops`
- `base_performance_metrics_by_node_rollup::avg_mirror_write_bandwidth`
- `base_performance_metrics_by_node_rollup::max_avg_mirror_write_latency`
- `base_performance_metrics_by_node_rollup::max_avg_mirror_overhead_latency`
- `base_performance_metrics_by_node_rollup::max_mirror_write_iops`
- `base_performance_metrics_by_node_rollup::max_mirror_write_bandwidth`
- `base_performance_metrics_by_smb_cache::appliance_id`
- `base_performance_metrics_by_smb_cache_rollup::appliance_id`
- `base_performance_metrics_by_smb_client::appliance_id`
- `base_performance_metrics_by_smb_client_rollup::appliance_id`
- `base_performance_metrics_by_smb_node::appliance_id`
- `base_performance_metrics_by_smb_node_rollup::appliance_id`
- `base_performance_metrics_by_smb_v1_builtin_client::appliance_id`
- `base_performance_metrics_by_smb_v1_builtin_client_rollup::appliance_id`
- `base_performance_metrics_by_smb_v1_node::appliance_id`
- `base_performance_metrics_by_smb_v1_node_rollup::appliance_id`
- `base_performance_metrics_by_smb_v2_builtin_client::appliance_id`
- `base_performance_metrics_by_smb_v2_builtin_client_rollup::appliance_id`
- `base_performance_metrics_by_smb_v2_node::appliance_id`
- `base_performance_metrics_by_smb_v2_node_rollup::appliance_id`
- `base_performance_metrics_by_volume::avg_mirror_overhead_latency`
- `base_performance_metrics_by_volume::mirror_write_iops`
- `base_performance_metrics_by_volume::mirror_write_bandwidth`
- `base_performance_metrics_by_volume_rollup::avg_mirror_overhead_latency`
- `base_performance_metrics_by_volume_rollup::avg_mirror_write_iops`
- `base_performance_metrics_by_volume_rollup::avg_mirror_write_bandwidth`
- `base_performance_metrics_by_volume_rollup::max_avg_mirror_overhead_latency`
- `base_performance_metrics_by_volume_rollup::max_mirror_write_iops`

- `base_performance_metrics_by_volume_rollup::max_mirror_write_bandwidth`
- `base_performance_metrics_file_by_node::appliance_id`
- `base_performance_metrics_file_by_node_rollup::appliance_id`
- `base_space_metrics_by_appliance::system_free_space`
- `base_space_metrics_by_appliance_rollup::last_system_free_space`
- `base_space_metrics_by_appliance_rollup::max_system_free_space`
- `base_space_metrics_by_cluster::system_free_space`
- `base_space_metrics_by_cluster_rollup::last_system_free_space`
- `base_space_metrics_by_cluster_rollup::max_system_free_space`
- `base_vsphere_appson_metrics_by_appliance`
- `base_vsphere_appson_metrics_by_node`
- `base_vsphere_metrics_by_vm`
- `bond_create`
- `bond_instance::status_l10n`
- `bond_modify`
- `cluster_create_security_config`
- `cluster_create_security_config::is_http_redirect_enabled`
- `cluster_create_vcenters::data_center_id`
- `cluster_create_vcenters::data_center_create`
- `cluster_instance::nvm_subsystem_nqn`
- `copy_metrics_by_rg`
- `data_connection_instance::data_connection_type_l10n`
- `datacollection_appliance_instance`
- `datacollection_appliance_instance::status_l10n`
- `datacollection_create`
- `datacollection_instance`
- `datacollection_instance::status_l10n`
- `datacollection_instance::creator_type_l10n`
- `datacollection_profile_instance`
- `datacollection_resource_instance`
- `datacollection_upload`
- `datastore_instance`
- `datastore_instance::type_l10n`
- `discovered_appliance_drive_failure_tolerance_level_availability`
- `discovered_appliance_drive_failure_tolerance_level_availability::level_l10n`

- `discovered_appliance_instance`
- `discovered_appliance_update_software`
- `eth_be_port_instance`
- `eth_be_port_instance::speed_l10n`
- `eth_be_port_instance::port_connector_type_l10n`
- `eth_be_port_instance::stale_state_l10n`
- `eth_port_instance::permanent_mac_address`
- `eth_port_instance::is_in_use`
- `fast_metrics_config_create`
- `fast_metrics_config_instance`
- `fast_metrics_config_instance::resource_type_l10n`
- `fc_port_instance::wwn_node`
- `fc_port_instance::is_in_use`
- `fc_port_instance::scsi_mode_l10n`
- `file_dhsm_config_create`
- `file_dhsm_config_instance`
- `file_dhsm_config_modify`
- `file_dns_instance::is_destination_override_enabled`
- `file_dns_instance::source_parameters`
- `file_dns_modify::is_destination_override_enabled`
- `file_events_pool_create`
- `file_events_pool_instance`
- `file_events_pool_modify`
- `file_events_publisher_create`
- `file_events_publisher_instance`
- `file_events_publisher_instance::post_event_policy_l10n`
- `file_events_publisher_modify`
- `file_events_settings_instance`
- `file_extended_localized_message`
- `file_import_interface_create`
- `file_import_interface_instance`
- `file_import_interface_modify`
- `file_import_nas_server_instance`
- `file_import_nas_server_instance::importable_criteria`
- `file_import_nas_server_instance::non_importable_reasons`

- file_import_nas_server_instance::protocol_type_l10n
- file_import_session_cancel
- file_import_session_commit
- file_import_session_create
- file_import_session_cutover
- file_import_session_cutover_smb_properties
- file_import_session_file_interface_mapping
- file_import_session_instance
- file_import_session_instance::destination_resource_type_l10n
- file_import_session_instance::state_l10n
- file_import_session_instance::current_operation_l10n
- file_import_session_modify
- file_import_session_report_current_operation_duration
- file_import_session_report_file_system
- file_import_session_report_production_net_interface
- file_import_session_report_response
- file_import_session_report_response::protocol_type_l10n
- file_import_session_report_response::state_l10n
- file_import_session_report_response::current_operation_l10n
- file_import_session_report_source_net_interface
- file_import_session_report_stage_change_log
- file_import_session_report_stage_change_log::state_l10n
- file_import_session_report_statistics
- file_import_session_report_target_net_interface
- file_import_smb_configuration
- file_import_source_filesystem
- file_import_source_filesystem::import_source_nas_server_id
- file_import_source_filesystem::sourcename
- file_import_source_filesystem::targetname
- file_import_source_network_interface
- file_import_source_network_interface::import_source_nas_server_id
- file_import_source_network_interface::netmask
- file_interface_instance::is_destination_override_enabled
- file_interface_instance::ip_port_id
- file_interface_modify::is_destination_override_enabled

- `file_interface_source_parameters`
- `file_interface_source_parameters::ip_port_id`
- `file_ldap_instance::is_destination_override_enabled`
- `file_ldap_instance::source_parameters`
- `file_ldap_modify::is_destination_override_enabled`
- `file_nis_instance::is_destination_override_enabled`
- `file_nis_instance::source_parameters`
- `file_nis_modify::is_destination_override_enabled`
- `file_system_import_state`
- `file_system_instance::config_type_l10n`
- `file_system_instance::file_events_publishing_mode_l10n`
- `file_system_instance::host_io_size_l10n`
- `file_virus_checker_instance::is_destination_override_enabled`
- `file_virus_checker_modify::is_destination_override_enabled`
- `flr_clone`
- `flr_create`
- `flr_instance`
- `flr_instance::mode_l10n`
- `flr_modify`
- `hardware_extra_details_instance::enclosure_model_description_l10n`
- `host_group_instance::host_connectivity_l10n`
- `host_instance::host_connectivity_l10n`
- `import_netapp_cron_schedule_instance`
- `import_netapp_instance`
- `import_netapp_instance::supported_import_type_l10n`
- `import_netapp_instance::state_l10n`
- `import_netapp_snapshot_schedule_instance`
- `import_netapp_snapshot_schedule_instance::type_l10n`
- `import_netapp_volume_import_snapshot_schedules_response`
- `import_netapp_volume_instance`
- `import_netapp_volume_instance::state_l10n`
- `import_netapp_volume_instance::container_state_l10n`
- `import_netapp_volume_instance::importable_criteria_l10n`
- `import_session_create::global_storage_discovery_address`
- `import_session_instance::global_storage_discovery_address`

- `import_vmax_instance`
- `import_vmax_instance::supported_import_type_l10n`
- `import_vmax_snapshot_policy_instance`
- `import_vmax_storage_group_import_snapshot_policy_response`
- `import_vmax_storage_group_instance`
- `import_vmax_storage_group_instance::importable_criteria_l10n`
- `import_vmax_volume_instance`
- `import_vmax_volume_instance::state_l10n`
- `import_vmax_volume_instance::importable_criteria_l10n`
- `import_vmax_volume_instance::block_size_l10n`
- `initiator_instance`
- `job_base_capacity_forecast_response`
- `job_file_import_session_report_response`
- `job_import_netapp_volume_import_snapshot_schedules_response`
- `job_import_vmax_storage_group_import_snapshot_policy_response`
- `job_metrics_archive_generate_response`
- `job_policy_clone_response`
- `job_replication_rule_clone_response`
- `job_snapshot_rule_clone_response`
- `job_volume_configure_metro_response`
- `kmip_config_instance`
- `kmip_config_member_instance`
- `kmip_config_member_instance::status_l10n`
- `kmip_config_modify`
- `local_user_instance::password_expiration_timestamp`
- `metrics_archive_file`
- `metrics_archive_generate`
- `metrics_archive_generate_response`
- `metrics_archive_instance`
- `nas_server_clone`
- `nas_server_instance::protection_policy_id`
- `nas_server_instance::is_replication_destination`
- `nas_server_instance::is_production_mode_enabled`
- `nas_server_instance::file_events_publishing_mode_l10n`
- `nas_server_modify::is_replication_destination`

- nas_server_modify::is_production_mode_enabled
- nas_server_modify::force
- network_create::cluster_mgmt_address
- network_create::nvme_cdc_address
- network_create::nvme_cdc_port
- network_instance::nvme_cdc_address
- network_instance::nvme_cdc_port
- network_instance::nvme_discovery_mode_l10n
- network_modify::nvme_cdc_address
- network_modify::nvme_cdc_port
- nfs_export_create::nfs_owner_username
- nfs_export_modify::nfs_owner_username
- nvme_discovered_cdc_instance
- nvme_discovered_cdc_instance::nvme_cdc_connection_state_l10n
- performance_metrics_by_hg
- performance_metrics_by_hg_rollup
- performance_metrics_by_host
- performance_metrics_by_host_rollup
- performance_metrics_by_initiator
- performance_metrics_by_initiator_rollup
- physical_space_used_one_day
- policy_clone
- policy_clone_response
- policy_instance::managed_by_id
- policy_instance::is_read_only
- policy_instance::managed_by_l10n
- remote_appliance_details
- remote_support_instance::is_software_autodownload_enabled
- remote_support_modify::is_software_autodownload_enabled
- remote_system_create::management_port
- remote_system_create::file_connection_address
- remote_system_create::vnx_file_username
- remote_system_instance::management_port
- remote_system_instance::file_connection_address
- remote_system_instance::vnx_file_username

- remote_system_instance::data_connection_type_l10n
- remote_system_instance::file_connection_state_l10n
- remote_system_modify::management_port
- remote_system_modify::file_connection_address
- remote_system_modify::vnx_file_username
- remote_system_verify::update_transport
- replication_group_delete
- replication_group_instance
- replication_group_instance::creator_type_l10n
- replication_group_modify
- replication_rule_clone
- replication_rule_clone_response
- replication_rule_create::is_read_only
- replication_rule_instance::is_read_only
- replication_rule_instance::managed_by_id
- replication_rule_instance::managed_by_l10n
- replication_session_demote
- replication_session_instance::error_code
- replication_session_instance::parent_replication_session_id
- replication_session_instance::data_transfer_state_l10n
- replication_session_instance::type_l10n
- replication_session_instance::data_connection_state_l10n
- replication_session_instance::local_resource_state_l10n
- replication_session_modify
- replication_session_promote
- sas_port_instance::is_in_use
- security_config_instance::is_http_redirect_enabled
- security_config_modify::is_http_redirect_enabled
- snapshot_rule_clone
- snapshot_rule_clone_response
- snapshot_rule_create::is_read_only
- snapshot_rule_instance::is_read_only
- snapshot_rule_instance::managed_by_id
- snapshot_rule_instance::nas_access_type_l10n
- snapshot_rule_instance::managed_by_l10n

- `software_package_puhc`
- `storage_container_create::high_water_mark`
- `storage_container_create::mount`
- `storage_container_create::datastore_name`
- `storage_container_delete::unmount`
- `storage_container_destination_create`
- `storage_container_destination_instance`
- `storage_container_instance::storage_protocol_l10n`
- `vcenter_instance::version`
- `virtual_machine_instance::vsphere_object_id`
- `virtual_machine_instance::replication_group_id`
- `virtual_machine_instance::power_state_l10n`
- `virtual_volume_instance::replication_group_id`
- `virtual_volume_instance::naa_name`
- `virtual_volume_instance::is_replication_destination`
- `virtual_volume_instance::protection_policy_id`
- `virtual_volume_instance::nsid`
- `virtual_volume_instance::nguid`
- `volume_configure_metro`
- `volume_configure_metro_response`
- `volume_detach::clear_host_agent_data`
- `volume_end_metro`
- `volume_instance::logical_used`
- `volume_instance::metro_replication_session_id`
- `volume_instance::is_host_access_available`
- `vsphere_appson_metrics_by_appliance`
- `vsphere_appson_metrics_by_node`
- `vsphere_host_instance`
- `vsphere_host_license_assignment_instance`
- `vsphere_metrics_by_vm`
- `x509_certificate_instance::scope`
- `x509_certificate_reset_certificates::scope`

Definition members

Deprecated

- `timestamp` in `appliance_forecast_response`
- `low_value` in `appliance_forecast_response`
- `mean_value` in `appliance_forecast_response`
- `high_value` in `appliance_forecast_response`
- `data_center_create` in `cluster_create_vcenters`
- `protocol_type_l10n` in `discovered_initiator_instance`
- `importable_criteria` in `file_import_nas_server_instance`
- `non_importable_reasons` in `file_import_nas_server_instance`
- `port_type_l10n` in `host_initiator_instance`
- `host_initiators` in `host_instance`
- `is_icw_configured` in `remote_support_instance`
- `protocol_mode_l10n` in `security_config_instance`
- `applianceId` in `validate_create_issue`

Added

- `nvme_transport_addresses` in `active_session_instance`
- `nvme_transport_type` in `active_session_instance`
- `nvme_transport_type_l10n` in `active_session_instance`
- `metric_type` in `appliance_forecast_response`
- `node_count` in `appliance_instance`
- `eth_be_ports` in `appliance_instance`
- `avg_mirror_overhead_latency` in `base_performance_metrics_by_appliance`
- `avg_mirror_write_latency` in `base_performance_metrics_by_appliance`
- `mirror_write_iops` in `base_performance_metrics_by_appliance`
- `mirror_write_bandwidth` in `base_performance_metrics_by_appliance`
- `avg_mirror_write_latency` in `base_performance_metrics_by_appliance_rollup`
- `avg_mirror_overhead_latency` in `base_performance_metrics_by_appliance_rollup`
- `avg_mirror_write_iops` in `base_performance_metrics_by_appliance_rollup`
- `avg_mirror_write_bandwidth` in `base_performance_metrics_by_appliance_rollup`
- `max_avg_mirror_write_latency` in `base_performance_metrics_by_appliance_rollup`
- `max_avg_mirror_overhead_latency` in `base_performance_metrics_by_appliance_rollup`
- `max_mirror_write_iops` in `base_performance_metrics_by_appliance_rollup`
- `max_mirror_write_bandwidth` in `base_performance_metrics_by_appliance_rollup`
- `avg_mirror_write_latency` in `base_performance_metrics_by_cluster`

- avg_mirror_overhead_latency in base_performance_metrics_by_cluster
- mirror_write_iops in base_performance_metrics_by_cluster
- mirror_write_bandwidth in base_performance_metrics_by_cluster
- avg_mirror_write_latency in base_performance_metrics_by_cluster_rollup
- avg_mirror_overhead_latency in base_performance_metrics_by_cluster_rollup
- avg_mirror_write_iops in base_performance_metrics_by_cluster_rollup
- avg_mirror_write_bandwidth in base_performance_metrics_by_cluster_rollup
- max_avg_mirror_write_latency in base_performance_metrics_by_cluster_rollup
- max_avg_mirror_overhead_latency in base_performance_metrics_by_cluster_rollup
- max_mirror_write_iops in base_performance_metrics_by_cluster_rollup
- max_mirror_write_bandwidth in base_performance_metrics_by_cluster_rollup
- appliance_id in base_performance_metrics_by_file_system
- appliance_id in base_performance_metrics_by_file_system_rollup
- appliance_id in base_performance_metrics_by_nfs
- appliance_id in base_performance_metrics_by_nfs_rollup
- appliance_id in base_performance_metrics_by_nfsv3
- appliance_id in base_performance_metrics_by_nfsv3_rollup
- appliance_id in base_performance_metrics_by_nfsv4
- appliance_id in base_performance_metrics_by_nfsv4_rollup
- avg_mirror_write_latency in base_performance_metrics_by_node
- avg_mirror_overhead_latency in base_performance_metrics_by_node
- mirror_write_iops in base_performance_metrics_by_node
- mirror_write_bandwidth in base_performance_metrics_by_node
- avg_mirror_write_latency in base_performance_metrics_by_node_rollup
- avg_mirror_overhead_latency in base_performance_metrics_by_node_rollup
- avg_mirror_write_iops in base_performance_metrics_by_node_rollup
- avg_mirror_write_bandwidth in base_performance_metrics_by_node_rollup
- max_avg_mirror_write_latency in base_performance_metrics_by_node_rollup
- max_avg_mirror_overhead_latency in base_performance_metrics_by_node_rollup
- max_mirror_write_iops in base_performance_metrics_by_node_rollup
- max_mirror_write_bandwidth in base_performance_metrics_by_node_rollup
- appliance_id in base_performance_metrics_by_smb_cache
- appliance_id in base_performance_metrics_by_smb_cache_rollup
- appliance_id in base_performance_metrics_by_smb_client
- appliance_id in base_performance_metrics_by_smb_client_rollup

- `appliance_id` in `base_performance_metrics_by_smb_node`
- `appliance_id` in `base_performance_metrics_by_smb_node_rollup`
- `appliance_id` in `base_performance_metrics_by_smb_v1_builtin_client`
- `appliance_id` in `base_performance_metrics_by_smb_v1_builtin_client_rollup`
- `appliance_id` in `base_performance_metrics_by_smb_v1_node`
- `appliance_id` in `base_performance_metrics_by_smb_v1_node_rollup`
- `appliance_id` in `base_performance_metrics_by_smb_v2_builtin_client`
- `appliance_id` in `base_performance_metrics_by_smb_v2_builtin_client_rollup`
- `appliance_id` in `base_performance_metrics_by_smb_v2_node`
- `appliance_id` in `base_performance_metrics_by_smb_v2_node_rollup`
- `avg_mirror_overhead_latency` in `base_performance_metrics_by_volume`
- `mirror_write_iops` in `base_performance_metrics_by_volume`
- `mirror_write_bandwidth` in `base_performance_metrics_by_volume`
- `avg_mirror_overhead_latency` in `base_performance_metrics_by_volume_rollup`
- `avg_mirror_write_iops` in `base_performance_metrics_by_volume_rollup`
- `avg_mirror_write_bandwidth` in `base_performance_metrics_by_volume_rollup`
- `max_avg_mirror_overhead_latency` in `base_performance_metrics_by_volume_rollup`
- `max_mirror_write_iops` in `base_performance_metrics_by_volume_rollup`
- `max_mirror_write_bandwidth` in `base_performance_metrics_by_volume_rollup`
- `appliance_id` in `base_performance_metrics_file_by_node`
- `appliance_id` in `base_performance_metrics_file_by_node_rollup`
- `system_free_space` in `base_space_metrics_by_appliance`
- `last_system_free_space` in `base_space_metrics_by_appliance_rollup`
- `max_system_free_space` in `base_space_metrics_by_appliance_rollup`
- `system_free_space` in `base_space_metrics_by_cluster`
- `last_system_free_space` in `base_space_metrics_by_cluster_rollup`
- `max_system_free_space` in `base_space_metrics_by_cluster_rollup`
- `status` in `bond_instance`
- `status_l10n` in `bond_instance`
- `security_config` in `cluster_create`
- `is_http_redirect_enabled` in `cluster_create_security_config`
- `data_center_id` in `cluster_create_vcenters`
- `data_center_create` in `cluster_create_vcenters`
- `nvm_subsystem_nqn` in `cluster_instance`
- `security_config` in `cluster_validate_create`

- `data_connection_type` in `data_connection_instance`
- `data_connection_type_l10n` in `data_connection_instance`
- `status_l10n` in `datacollection_appliance_instance`
- `status_l10n` in `datacollection_instance`
- `creator_type_l10n` in `datacollection_instance`
- `type_l10n` in `datastore_instance`
- `vcenter` in `datastore_instance`
- `storage_container` in `datastore_instance`
- `nfs_export` in `datastore_instance`
- `virtual_machines` in `datastore_instance`
- `volumes` in `datastore_instance`
- `vsphere_hosts` in `datastore_instance`
- `level_l10n` in `discovered_appliance_drive_failure_tolerance_level_availability`
- `speed_l10n` in `eth_be_port_instance`
- `port_connector_type_l10n` in `eth_be_port_instance`
- `protocols_l10n` in `eth_be_port_instance`
- `stale_state_l10n` in `eth_be_port_instance`
- `appliance` in `eth_be_port_instance`
- `node` in `eth_be_port_instance`
- `sfp` in `eth_be_port_instance`
- `hardware_parent` in `eth_be_port_instance`
- `expected_peer` in `eth_be_port_instance`
- `actual_peer` in `eth_be_port_instance`
- `permanent_mac_address` in `eth_port_instance`
- `is_in_use` in `eth_port_instance`
- `resource_type_l10n` in `fast_metrics_config_instance`
- `wwn_node` in `fc_port_instance`
- `is_in_use` in `fc_port_instance`
- `scsi_mode` in `fc_port_instance`
- `scsi_mode_l10n` in `fc_port_instance`
- `nas_server` in `file_dhsm_config_instance`
- `is_destination_override_enabled` in `file_dns_instance`
- `source_parameters` in `file_dns_instance`
- `is_destination_override_enabled` in `file_dns_modify`
- `file_events_publishers` in `file_events_pool_instance`

- `post_event_policy_l10n` in `file_events_publisher_instance`
- `file_events_pools` in `file_events_publisher_instance`
- `nas_servers` in `file_events_publisher_instance`
- `importable_criteria` in `file_import_nas_server_instance`
- `non_importable_reasons` in `file_import_nas_server_instance`
- `protocol_type_l10n` in `file_import_nas_server_instance`
- `destination_resource_type_l10n` in `file_import_session_instance`
- `state_l10n` in `file_import_session_instance`
- `current_operation_l10n` in `file_import_session_instance`
- `protocol_type_l10n` in `file_import_session_report_response`
- `state_l10n` in `file_import_session_report_response`
- `current_operation_l10n` in `file_import_session_report_response`
- `state_l10n` in `file_import_session_report_stage_change_log`
- `import_source_nas_server_id` in `file_import_source_filesystem`
- `sourcename` in `file_import_source_filesystem`
- `targetname` in `file_import_source_filesystem`
- `import_source_nas_server_id` in `file_import_source_network_interface`
- `netmask` in `file_import_source_network_interface`
- `ip_port_id` in `file_interface_create`
- `is_destination_override_enabled` in `file_interface_instance`
- `ip_port_id` in `file_interface_instance`
- `source_parameters` in `file_interface_instance`
- `ip_port` in `file_interface_instance`
- `is_destination_override_enabled` in `file_interface_modify`
- `ip_port_id` in `file_interface_modify`
- `ip_port_id` in `file_interface_source_parameters`
- `is_destination_override_enabled` in `file_ldap_instance`
- `source_parameters` in `file_ldap_instance`
- `is_destination_override_enabled` in `file_ldap_modify`
- `is_destination_override_enabled` in `file_nis_instance`
- `source_parameters` in `file_nis_instance`
- `is_destination_override_enabled` in `file_nis_modify`
- `file_events_publishing_mode` in `file_system_clone`
- `flr_attributes` in `file_system_clone`
- `config_type` in `file_system_create`

- `file_events_publishing_mode` in `file_system_create`
- `flr_attributes` in `file_system_create`
- `host_io_size` in `file_system_create`
- `config_type` in `file_system_instance`
- `file_events_publishing_mode` in `file_system_instance`
- `flr_attributes` in `file_system_instance`
- `host_io_size` in `file_system_instance`
- `config_type_l10n` in `file_system_instance`
- `file_events_publishing_mode_l10n` in `file_system_instance`
- `host_io_size_l10n` in `file_system_instance`
- `file_events_publishing_mode` in `file_system_modify`
- `flr_attributes` in `file_system_modify`
- `file_events_publishing_mode` in `file_system_snapshot`
- `is_destination_override_enabled` in `file_virus_checker_instance`
- `is_destination_override_enabled` in `file_virus_checker_modify`
- `mode_l10n` in `flr_instance`
- `enclosure_model_description` in `hardware_extra_details_instance`
- `enclosure_model_description_l10n` in `hardware_extra_details_instance`
- `node_eth_be_ports` in `hardware_instance`
- `sfp_eth_be_ports` in `hardware_instance`
- `hardware_parent_eth_be_ports` in `hardware_instance`
- `host_connectivity` in `host_create`
- `host_connectivity` in `host_group_instance`
- `host_connectivity_l10n` in `host_group_instance`
- `host_connectivity` in `host_group_modify`
- `host_connectivity` in `host_instance`
- `host_connectivity_l10n` in `host_instance`
- `initiators` in `host_instance`
- `vsphere_hosts` in `host_instance`
- `host_connectivity` in `host_modify`
- `supported_import_type_l10n` in `import_netapp_instance`
- `state_l10n` in `import_netapp_instance`
- `import_netapp_volumes` in `import_netapp_instance`
- `type_l10n` in `import_netapp_snapshot_schedule_instance`
- `state_l10n` in `import_netapp_volume_instance`

- `container_state_l10n` in `import_netapp_volume_instance`
- `importable_criteria_l10n` in `import_netapp_volume_instance`
- `import_netapp` in `import_netapp_volume_instance`
- `global_storage_discovery_address` in `import_session_create`
- `global_storage_discovery_address` in `import_session_instance`
- `supported_import_type_l10n` in `import_vmax_instance`
- `import_vmax_volumes` in `import_vmax_instance`
- `import_vmax_storage_group` in `import_vmax_instance`
- `importable_criteria_l10n` in `import_vmax_storage_group_instance`
- `import_vmax_volume` in `import_vmax_storage_group_instance`
- `import_vmax` in `import_vmax_storage_group_instance`
- `state_l10n` in `import_vmax_volume_instance`
- `importable_criteria_l10n` in `import_vmax_volume_instance`
- `block_size_l10n` in `import_vmax_volume_instance`
- `import_vmax` in `import_vmax_volume_instance`
- `import_vmax_storage_group` in `import_vmax_volume_instance`
- `host` in `initiator_instance`
- `nvme_discovered_cdc` in `ip_pool_address_instance`
- `file_interfaces` in `ip_port_instance`
- `status_l10n` in `kmip_config_member_instance`
- `password_expiration_timestamp` in `local_user_instance`
- `protection_policy_id` in `nas_server_create`
- `protection_policy_id` in `nas_server_instance`
- `file_events_publishing_mode` in `nas_server_instance`
- `is_replication_destination` in `nas_server_instance`
- `is_production_mode_enabled` in `nas_server_instance`
- `file_events_publishing_mode_l10n` in `nas_server_instance`
- `protection_policy` in `nas_server_instance`
- `file_dhsm_configs` in `nas_server_instance`
- `file_events_publishers` in `nas_server_instance`
- `file_events_publisher_id` in `nas_server_modify`
- `file_events_publishing_mode` in `nas_server_modify`
- `protection_policy_id` in `nas_server_modify`
- `is_replication_destination` in `nas_server_modify`
- `is_production_mode_enabled` in `nas_server_modify`

- `force` in `nas_server_modify`
- `cluster_mgmt_address` in `network_create`
- `nvme_discovery_mode` in `network_create`
- `nvme_cdc_address` in `network_create`
- `nvme_cdc_port` in `network_create`
- `nvme_discovery_mode` in `network_instance`
- `nvme_cdc_address` in `network_instance`
- `nvme_cdc_port` in `network_instance`
- `nvme_discovery_mode_l10n` in `network_instance`
- `nvme_discovery_mode` in `network_modify`
- `nvme_cdc_address` in `network_modify`
- `nvme_cdc_port` in `network_modify`
- `nfs_owner_username` in `nfs_export_create`
- `datastores` in `nfs_export_instance`
- `nfs_owner_username` in `nfs_export_modify`
- `nvme_cdc_connection_state_l10n` in `nvme_discovered_cdc_instance`
- `ip_pool_address` in `nvme_discovered_cdc_instance`
- `managed_by` in `policy_instance`
- `managed_by_id` in `policy_instance`
- `is_read_only` in `policy_instance`
- `managed_by_l10n` in `policy_instance`
- `virtual_volumes` in `policy_instance`
- `nas_servers` in `policy_instance`
- `is_software_autodownload_enabled` in `remote_support_instance`
- `is_software_autodownload_enabled` in `remote_support_modify`
- `management_port` in `remote_system_create`
- `data_connection_type` in `remote_system_create`
- `file_connection_address` in `remote_system_create`
- `vnx_file_username` in `remote_system_create`
- `vnx_file_password` in `remote_system_create`
- `management_port` in `remote_system_instance`
- `data_connection_type` in `remote_system_instance`
- `fc_target_wwns` in `remote_system_instance`
- `capabilities` in `remote_system_instance`
- `file_connection_address` in `remote_system_instance`

- `file_connection_state` in `remote_system_instance`
- `vnx_file_username` in `remote_system_instance`
- `appliance_details` in `remote_system_instance`
- `data_connection_type_l10n` in `remote_system_instance`
- `capabilities_l10n` in `remote_system_instance`
- `file_connection_state_l10n` in `remote_system_instance`
- `storage_container_destinations` in `remote_system_instance`
- `management_port` in `remote_system_modify`
- `file_connection_address` in `remote_system_modify`
- `vnx_file_username` in `remote_system_modify`
- `vnx_file_password` in `remote_system_modify`
- `update_transport` in `remote_system_verify`
- `creator_type_l10n` in `replication_group_instance`
- `virtual_volumes` in `replication_group_instance`
- `storage_container` in `replication_group_instance`
- `parent` in `replication_group_instance`
- `child_replication_groups` in `replication_group_instance`
- `source` in `replication_group_instance`
- `target_replication_groups` in `replication_group_instance`
- `virtual_machines` in `replication_group_instance`
- `is_read_only` in `replication_rule_create`
- `is_read_only` in `replication_rule_instance`
- `managed_by` in `replication_rule_instance`
- `managed_by_id` in `replication_rule_instance`
- `managed_by_l10n` in `replication_rule_instance`
- `data_transfer_state` in `replication_session_instance`
- `type` in `replication_session_instance`
- `error_code` in `replication_session_instance`
- `data_connection_state` in `replication_session_instance`
- `parent_replication_session_id` in `replication_session_instance`
- `local_resource_state` in `replication_session_instance`
- `data_transfer_state_l10n` in `replication_session_instance`
- `type_l10n` in `replication_session_instance`
- `data_connection_state_l10n` in `replication_session_instance`
- `local_resource_state_l10n` in `replication_session_instance`

- `role` in `replication_session_modify`
- `is_in_use` in `sas_port_instance`
- `is_http_redirect_enabled` in `security_config_instance`
- `is_http_redirect_enabled` in `security_config_modify`
- `nas_access_type` in `snapshot_rule_create`
- `is_read_only` in `snapshot_rule_create`
- `nas_access_type` in `snapshot_rule_instance`
- `is_read_only` in `snapshot_rule_instance`
- `managed_by` in `snapshot_rule_instance`
- `managed_by_id` in `snapshot_rule_instance`
- `nas_access_type_l10n` in `snapshot_rule_instance`
- `managed_by_l10n` in `snapshot_rule_instance`
- `nas_access_type` in `snapshot_rule_modify`
- `storage_protocol` in `storage_container_create`
- `high_water_mark` in `storage_container_create`
- `mount` in `storage_container_create`
- `datastore_name` in `storage_container_create`
- `vsphere_host_ids` in `storage_container_create`
- `unmount` in `storage_container_delete`
- `storage_container` in `storage_container_destination_instance`
- `remote_system` in `storage_container_destination_instance`
- `storage_protocol` in `storage_container_instance`
- `storage_protocol_l10n` in `storage_container_instance`
- `replication_groups` in `storage_container_instance`
- `datastores` in `storage_container_instance`
- `destinations` in `storage_container_instance`
- `storage_protocol` in `storage_container_modify`
- `vsphere_host_ids` in `storage_container_mount`
- `version` in `vcenter_instance`
- `datastores` in `vcenter_instance`
- `vsphere_hosts` in `vcenter_instance`
- `vsphere_object_id` in `virtual_machine_instance`
- `replication_group_id` in `virtual_machine_instance`
- `power_state` in `virtual_machine_instance`
- `power_state_l10n` in `virtual_machine_instance`

- `replication_group` in `virtual_machine_instance`
- `datastores` in `virtual_machine_instance`
- `vsphere_host` in `virtual_machine_instance`
- `replication_group_id` in `virtual_volume_instance`
- `naa_name` in `virtual_volume_instance`
- `is_replication_destination` in `virtual_volume_instance`
- `protection_policy_id` in `virtual_volume_instance`
- `nsid` in `virtual_volume_instance`
- `nguid` in `virtual_volume_instance`
- `replication_group` in `virtual_volume_instance`
- `protection_policy` in `virtual_volume_instance`
- `clear_host_agent_data` in `volume_detach`
- `logical_used` in `volume_instance`
- `metro_replication_session_id` in `volume_instance`
- `is_host_access_available` in `volume_instance`
- `datastores` in `volume_instance`
- `vcenter` in `vsphere_host_instance`
- `license_assignments` in `vsphere_host_instance`
- `virtual_machines` in `vsphere_host_instance`
- `datastores` in `vsphere_host_instance`
- `hosts` in `vsphere_host_instance`
- `vsphere_host` in `vsphere_host_license_assignment_instance`
- `scope` in `x509_certificate_instance`
- `scope` in `x509_certificate_reset_certificates`

Version 2.1.0.0

Paths

Added

- `GET /login_banner`
- `GET /login_banner/{id}`
- `PATCH /login_banner/{id}`

Enumeration values

Added

- `NVMe_TCP` in `IpPortUsageEnum`
- `Storage_NVMe_TCP_Port` in `IpPurposeTypeEnum`
- `NVMe_TCP` in `NetworkPurposeEnum`
- `Health_Check` in `SoftwarePackageTypeEnum`

Definitions

Deprecated

- `base_performance_metrics_by_fe_fc_node::unaligned_read_iops`
- `base_performance_metrics_by_fe_fc_node::unaligned_write_iops`
- `base_performance_metrics_by_fe_fc_node::unaligned_iops`
- `base_performance_metrics_by_fe_fc_node::unaligned_read_bandwidth`
- `base_performance_metrics_by_fe_fc_node::unaligned_write_bandwidth`
- `base_performance_metrics_by_fe_fc_node::unaligned_bandwidth`
- `base_performance_metrics_by_fe_fc_node_rollup::avg_unaligned_read_iops`
- `base_performance_metrics_by_fe_fc_node_rollup::avg_unaligned_write_iops`
- `base_performance_metrics_by_fe_fc_node_rollup::avg_unaligned_iops`
- `base_performance_metrics_by_fe_fc_node_rollup::avg_unaligned_read_bandwidth`
- `base_performance_metrics_by_fe_fc_node_rollup::avg_unaligned_write_bandwidth`
- `base_performance_metrics_by_fe_fc_node_rollup::avg_unaligned_bandwidth`
- `base_performance_metrics_by_fe_fc_node_rollup::max_unaligned_read_iops`
- `base_performance_metrics_by_fe_fc_node_rollup::max_unaligned_write_iops`
- `base_performance_metrics_by_fe_fc_node_rollup::max_unaligned_iops`
- `base_performance_metrics_by_fe_fc_node_rollup::max_unaligned_read_bandwidth`
- `base_performance_metrics_by_fe_fc_node_rollup::max_unaligned_write_bandwidth`
- `base_performance_metrics_by_fe_fc_node_rollup::max_unaligned_bandwidth`
- `base_performance_metrics_by_fe_fc_port::unaligned_read_iops`
- `base_performance_metrics_by_fe_fc_port::unaligned_write_iops`
- `base_performance_metrics_by_fe_fc_port::unaligned_iops`
- `base_performance_metrics_by_fe_fc_port::unaligned_read_bandwidth`
- `base_performance_metrics_by_fe_fc_port::unaligned_write_bandwidth`
- `base_performance_metrics_by_fe_fc_port::unaligned_bandwidth`
- `base_performance_metrics_by_fe_fc_port_rollup::avg_unaligned_iops`
- `base_performance_metrics_by_fe_fc_port_rollup::avg_unaligned_read_bandwidth`

- `base_performance_metrics_by_fe_fc_port_rollup::avg_unaligned_write_bandwidth`
- `base_performance_metrics_by_fe_fc_port_rollup::avg_unaligned_bandwidth`
- `base_performance_metrics_by_fe_fc_port_rollup::max_unaligned_read_iops`
- `base_performance_metrics_by_fe_fc_port_rollup::max_unaligned_write_iops`
- `base_performance_metrics_by_fe_fc_port_rollup::max_unaligned_iops`
- `base_performance_metrics_by_fe_fc_port_rollup::max_unaligned_read_bandwidth`
- `base_performance_metrics_by_fe_fc_port_rollup::max_unaligned_write_bandwidth`
- `base_performance_metrics_by_fe_fc_port_rollup::max_unaligned_bandwidth`
- `base_performance_metrics_by_node::unaligned_read_iops`
- `base_performance_metrics_by_node::unaligned_write_iops`
- `base_performance_metrics_by_node::unaligned_iops`
- `base_performance_metrics_by_node::unaligned_read_bandwidth`
- `base_performance_metrics_by_node::unaligned_write_bandwidth`
- `base_performance_metrics_by_node::unaligned_bandwidth`
- `base_performance_metrics_by_node_rollup::avg_unaligned_read_iops`
- `base_performance_metrics_by_node_rollup::avg_unaligned_write_iops`
- `base_performance_metrics_by_node_rollup::avg_unaligned_iops`
- `base_performance_metrics_by_node_rollup::avg_unaligned_read_bandwidth`
- `base_performance_metrics_by_node_rollup::avg_unaligned_write_bandwidth`
- `base_performance_metrics_by_node_rollup::avg_unaligned_bandwidth`
- `base_performance_metrics_by_node_rollup::max_unaligned_read_iops`
- `base_performance_metrics_by_node_rollup::max_unaligned_write_iops`
- `base_performance_metrics_by_node_rollup::max_unaligned_iops`
- `base_performance_metrics_by_node_rollup::max_unaligned_read_bandwidth`
- `base_performance_metrics_by_node_rollup::max_unaligned_write_bandwidth`
- `base_performance_metrics_by_node_rollup::max_unaligned_bandwidth`

Added

- `AppTypeEnum`
- `NvmeTransportTypeEnum`
- `login_banner_instance`
- `login_banner_modify`
- `volume_create::app_type_other`
- `volume_instance::app_type_other`
- `volume_instance::app_type_l10n`

- `volume_modify::app_type_other`

Definition members

Deprecated

- `unaligned_read_iops` in `base_performance_metrics_by_fe_fc_node`
- `unaligned_write_iops` in `base_performance_metrics_by_fe_fc_node`
- `unaligned_iops` in `base_performance_metrics_by_fe_fc_node`
- `unaligned_read_bandwidth` in `base_performance_metrics_by_fe_fc_node`
- `unaligned_write_bandwidth` in `base_performance_metrics_by_fe_fc_node`
- `unaligned_bandwidth` in `base_performance_metrics_by_fe_fc_node`
- `avg_unaligned_read_iops` in `base_performance_metrics_by_fe_fc_node_rollup`
- `avg_unaligned_write_iops` in `base_performance_metrics_by_fe_fc_node_rollup`
- `avg_unaligned_iops` in `base_performance_metrics_by_fe_fc_node_rollup`
- `avg_unaligned_read_bandwidth` in `base_performance_metrics_by_fe_fc_node_rollup`
- `avg_unaligned_write_bandwidth` in `base_performance_metrics_by_fe_fc_node_rollup`
- `avg_unaligned_bandwidth` in `base_performance_metrics_by_fe_fc_node_rollup`
- `max_unaligned_read_iops` in `base_performance_metrics_by_fe_fc_node_rollup`
- `max_unaligned_write_iops` in `base_performance_metrics_by_fe_fc_node_rollup`
- `max_unaligned_iops` in `base_performance_metrics_by_fe_fc_node_rollup`
- `max_unaligned_read_bandwidth` in `base_performance_metrics_by_fe_fc_node_rollup`
- `max_unaligned_write_bandwidth` in `base_performance_metrics_by_fe_fc_node_rollup`
- `max_unaligned_bandwidth` in `base_performance_metrics_by_fe_fc_node_rollup`
- `unaligned_read_iops` in `base_performance_metrics_by_fe_fc_port`
- `unaligned_write_iops` in `base_performance_metrics_by_fe_fc_port`
- `unaligned_iops` in `base_performance_metrics_by_fe_fc_port`
- `unaligned_read_bandwidth` in `base_performance_metrics_by_fe_fc_port`
- `unaligned_write_bandwidth` in `base_performance_metrics_by_fe_fc_port`
- `unaligned_bandwidth` in `base_performance_metrics_by_fe_fc_port`
- `avg_unaligned_iops` in `base_performance_metrics_by_fe_fc_port_rollup`
- `avg_unaligned_read_bandwidth` in `base_performance_metrics_by_fe_fc_port_rollup`
- `avg_unaligned_write_bandwidth` in `base_performance_metrics_by_fe_fc_port_rollup`
- `avg_unaligned_bandwidth` in `base_performance_metrics_by_fe_fc_port_rollup`
- `max_unaligned_read_iops` in `base_performance_metrics_by_fe_fc_port_rollup`
- `max_unaligned_write_iops` in `base_performance_metrics_by_fe_fc_port_rollup`

- `max_unaligned_iops` in `base_performance_metrics_by_fe_fc_port_rollup`
- `max_unaligned_read_bandwidth` in `base_performance_metrics_by_fe_fc_port_rollup`
- `max_unaligned_write_bandwidth` in `base_performance_metrics_by_fe_fc_port_rollup`
- `max_unaligned_bandwidth` in `base_performance_metrics_by_fe_fc_port_rollup`
- `unaligned_read_iops` in `base_performance_metrics_by_node`
- `unaligned_write_iops` in `base_performance_metrics_by_node`
- `unaligned_iops` in `base_performance_metrics_by_node`
- `unaligned_read_bandwidth` in `base_performance_metrics_by_node`
- `unaligned_write_bandwidth` in `base_performance_metrics_by_node`
- `unaligned_bandwidth` in `base_performance_metrics_by_node`
- `avg_unaligned_read_iops` in `base_performance_metrics_by_node_rollup`
- `avg_unaligned_write_iops` in `base_performance_metrics_by_node_rollup`
- `avg_unaligned_iops` in `base_performance_metrics_by_node_rollup`
- `avg_unaligned_read_bandwidth` in `base_performance_metrics_by_node_rollup`
- `avg_unaligned_write_bandwidth` in `base_performance_metrics_by_node_rollup`
- `avg_unaligned_bandwidth` in `base_performance_metrics_by_node_rollup`
- `max_unaligned_read_iops` in `base_performance_metrics_by_node_rollup`
- `max_unaligned_write_iops` in `base_performance_metrics_by_node_rollup`
- `max_unaligned_iops` in `base_performance_metrics_by_node_rollup`
- `max_unaligned_read_bandwidth` in `base_performance_metrics_by_node_rollup`
- `max_unaligned_write_bandwidth` in `base_performance_metrics_by_node_rollup`
- `max_unaligned_bandwidth` in `base_performance_metrics_by_node_rollup`

Added

- `purposes` in `cluster_create_networks`
- `nvme_transport_types` in `discovered_initiator_instance`
- `nvme_transport_types_l10n` in `discovered_initiator_instance`
- `add_purposes` in `network_modify`
- `remove_purposes` in `network_modify`
- `app_type` in `volume_create`
- `app_type_other` in `volume_create`
- `app_type` in `volume_instance`
- `app_type_other` in `volume_instance`
- `app_type_l10n` in `volume_instance`
- `app_type` in `volume_modify`

- `app_type_other` in `volume_modify`

Version 2.0.0.0

Paths

Added

- `POST /appliance`
- `POST /appliance/validate_create`
- `DELETE /appliance/{id}`
- `POST /cluster`
- `POST /cluster/validate_create`
- `POST /license/extend_trial`
- `PATCH /migration_recommendation/{id}`
- `POST /network`
- `DELETE /network/{id}`
- `GET /remote_support_contact`
- `GET /remote_support_contact/{id}`
- `PATCH /remote_support_contact/{id}`
- `GET /remote_syslog_server`
- `POST /remote_syslog_server`
- `DELETE /remote_syslog_server/{id}`
- `GET /remote_syslog_server/{id}`
- `PATCH /remote_syslog_server/{id}`
- `POST /remote_syslog_server/{id}/test`
- `POST /replication_session/{id}/start_failover_test`
- `POST /replication_session/{id}/stop_failover_test`
- `PATCH /security_config/{id}`
- `GET /snmp_server`
- `POST /snmp_server`
- `DELETE /snmp_server/{id}`
- `GET /snmp_server/{id}`
- `PATCH /snmp_server/{id}`
- `POST /snmp_server/{id}/test`
- `POST /x509_certificate`
- `POST /x509_certificate/csr`

- [POST /x509_certificate/reset_certificates](#)
- [PATCH /x509_certificate/{id}](#)

Parameters

Added

- [body](#) in [DELETE /vcenter/{id}](#)

Enumeration values

Deprecated

- [Configuring](#), [Clustering_Failed](#) in [ClusterStateEnum](#)
- [Storage_Global](#) in [IpPurposeTypeEnum](#)
- [wear_metrics_by_drive](#) in [MetricsEntityEnum](#)

Added

- [Core_Initialization](#), [Core_Initialization_Failed](#), [Post_Core_Initialization](#), [Removed](#), [Unknown](#) in [ClusterStateEnum](#)
- [NVMe](#) in [InitiatorProtocolTypeEnum](#)
- [External_Replication_Iscsi](#) in [IpPurposeTypeEnum](#)
- [performance_metrics_by_ip_port](#), [performance_metrics_file_by_appliance](#), [performance_metrics_file_by_node](#), [performance_metrics_file_by_cluster](#) in [MetricsEntityEnum](#)
- [Migration_Start_Failed](#) in [MigrationRecommendationStateEnum](#)
- [Evacuate_Objects](#) in [MigrationRecommendationTypeEnum](#)
- [start_failover_test](#), [stop_failover_test](#) in [ResourceActionEnum](#)
- [Pre_Upgrade_HCI](#) in [SoftwarePackageTypeEnum](#)

Definitions

Deprecated

- [VGPlacementRule](#)
- [base_wear_metrics_by_drive_instance](#)
- [cluster_instance::master_appliance_id](#)
- [eth_port_instance::io_module_id](#)
- [fc_port_instance::io_module_id](#)
- [nfs_server_modify::is_skip_unjoin](#)
- [remote_support_instance::policy_manager_address](#)

- remote_support_instance::policy_manager_port
- sas_port_instance::io_module_id
- virtual_machine_instance::vcenter_instance_uuid
- wear_metrics_by_drive
- wear_metrics_by_drive_instance

Added

- BondingTypeEnum
- DriveFailureToleranceAvailabilityEnum
- DriveFailureToleranceLevelEnum
- EncryptionTypeEnum
- FcPortProtocolEnum
- HardwareStaleStateEnum
- HostTypeEnum
- HttpStatusEnum
- NetworkPurposeEnum
- PortStaleStateEnum
- ProtocolTypeEnum
- RemoteSyslogServerStatusEnum
- SNMPAuthProtocolEnum
- SNMPPrivacyProtocolEnum
- SNMPSeverityEnum
- SNMPVersionEnum
- SecurityProtocolModeEnum
- SoftwareInstalledBuildFlavorEnum
- SoftwareInstalledBuildTypeEnum
- SoftwarePackageBuildFlavorEnum
- SoftwarePackageBuildTypeEnum
- TimeZoneEnum
- VendorProviderStatusEnum
- alert_instance::snmp_sent_timestamp
- appliance_create
- appliance_create_error_response
- appliance_delete
- appliance_instance::drive_failure_tolerance_level_l10n

- `appliance_validate_create`
- `appliance_validate_create_response`
- `base_performance_metrics_by_ip_port`
- `base_performance_metrics_by_ip_port_iscsi`
- `base_performance_metrics_by_ip_port_iscsi_rollup`
- `base_performance_metrics_by_ip_port_rollup`
- `base_performance_metrics_by_nfs::read_bandwidth`
- `base_performance_metrics_by_nfs::write_bandwidth`
- `base_performance_metrics_by_nfs::total_bandwidth`
- `base_performance_metrics_by_nfs_rollup::avg_read_bandwidth`
- `base_performance_metrics_by_nfs_rollup::avg_write_bandwidth`
- `base_performance_metrics_by_nfs_rollup::avg_total_bandwidth`
- `base_performance_metrics_by_nfs_rollup::max_read_bandwidth`
- `base_performance_metrics_by_nfs_rollup::max_write_bandwidth`
- `base_performance_metrics_by_nfs_rollup::max_total_bandwidth`
- `base_performance_metrics_by_smb_node::read_bandwidth`
- `base_performance_metrics_by_smb_node::write_bandwidth`
- `base_performance_metrics_by_smb_node::total_bandwidth`
- `base_performance_metrics_by_smb_node_rollup::avg_read_bandwidth`
- `base_performance_metrics_by_smb_node_rollup::avg_write_bandwidth`
- `base_performance_metrics_by_smb_node_rollup::avg_total_bandwidth`
- `base_performance_metrics_by_smb_node_rollup::max_read_bandwidth`
- `base_performance_metrics_by_smb_node_rollup::max_write_bandwidth`
- `base_performance_metrics_by_smb_node_rollup::max_total_bandwidth`
- `base_performance_metrics_file_by_appliance`
- `base_performance_metrics_file_by_appliance_rollup`
- `base_performance_metrics_file_by_cluster`
- `base_performance_metrics_file_by_cluster_rollup`
- `base_performance_metrics_file_by_node`
- `base_performance_metrics_file_by_node_rollup`
- `base_space_metrics_by_appliance::logical_used_volume`
- `base_space_metrics_by_appliance::logical_used_file_system`
- `base_space_metrics_by_appliance::logical_used_vvol`
- `base_space_metrics_by_appliance::shared_logical_used_volume`
- `base_space_metrics_by_appliance::shared_logical_used_file_system`

- `base_space_metrics_by_appliance::shared_logical_used_vvol`
- `base_space_metrics_by_appliance_rollup::last_logical_used_volume`
- `base_space_metrics_by_appliance_rollup::last_logical_used_file_system`
- `base_space_metrics_by_appliance_rollup::last_logical_used_vvol`
- `base_space_metrics_by_appliance_rollup::last_shared_logical_used_volume`
- `base_space_metrics_by_appliance_rollup::last_shared_logical_used_file_system`
- `base_space_metrics_by_appliance_rollup::last_shared_logical_used_vvol`
- `base_space_metrics_by_appliance_rollup::max_logical_used_volume`
- `base_space_metrics_by_appliance_rollup::max_logical_used_file_system`
- `base_space_metrics_by_appliance_rollup::max_logical_used_vvol`
- `base_space_metrics_by_appliance_rollup::max_shared_logical_used_volume`
- `base_space_metrics_by_appliance_rollup::max_shared_logical_used_file_system`
- `base_space_metrics_by_appliance_rollup::max_shared_logical_used_vvol`
- `base_space_metrics_by_cluster::logical_used_volume`
- `base_space_metrics_by_cluster::logical_used_file_system`
- `base_space_metrics_by_cluster::logical_used_vvol`
- `base_space_metrics_by_cluster::shared_logical_used_volume`
- `base_space_metrics_by_cluster::shared_logical_used_file_system`
- `base_space_metrics_by_cluster::shared_logical_used_vvol`
- `base_space_metrics_by_cluster_rollup::last_logical_used_volume`
- `base_space_metrics_by_cluster_rollup::last_logical_used_file_system`
- `base_space_metrics_by_cluster_rollup::last_logical_used_vvol`
- `base_space_metrics_by_cluster_rollup::last_shared_logical_used_volume`
- `base_space_metrics_by_cluster_rollup::last_shared_logical_used_file_system`
- `base_space_metrics_by_cluster_rollup::last_shared_logical_used_vvol`
- `base_space_metrics_by_cluster_rollup::max_logical_used_volume`
- `base_space_metrics_by_cluster_rollup::max_logical_used_file_system`
- `base_space_metrics_by_cluster_rollup::max_logical_used_vvol`
- `base_space_metrics_by_cluster_rollup::max_shared_logical_used_volume`
- `base_space_metrics_by_cluster_rollup::max_shared_logical_used_file_system`
- `base_space_metrics_by_cluster_rollup::max_shared_logical_used_vvol`
- `base_space_metrics_by_storage_container::shared_logical_used`
- `base_space_metrics_by_storage_container_rollup::last_shared_logical_used`
- `base_space_metrics_by_storage_container_rollup::max_shared_logical_used`
- `base_wear_metrics_by_drive_daily_instance`

- `bond_instance::partner_id`
- `bond_instance::type_l10n`
- `cluster_create`
- `cluster_create_appliances`
- `cluster_create_cluster`
- `cluster_create_error_response`
- `cluster_create_networks`
- `cluster_create_physical_switch_connection`
- `cluster_create_physical_switches`
- `cluster_create_vasa_provider_credentials`
- `cluster_create_vcenters`
- `cluster_instance::primary_appliance_id`
- `cluster_instance::system_time`
- `cluster_validate_create`
- `cluster_validate_create_response`
- `consistency_group_member_host_group_mapping`
- `eth_port_instance::hardware_parent_id`
- `eth_port_instance::stale_state_l10n`
- `fc_port_instance::wwn_nvme`
- `fc_port_instance::hardware_parent_id`
- `fc_port_instance::stale_state_l10n`
- `file_tree_quota_create::grace_period`
- `file_tree_quota_instance::grace_period`
- `file_tree_quota_modify::grace_period`
- `hardware_extra_details_instance::rpm_reading`
- `hardware_instance::stale_state_l10n`
- `host_instance::type_l10n`
- `ip_pool_address_instance::name`
- `job_appliance_create_error_response`
- `job_appliance_validate_create_response`
- `job_cluster_create_error_response`
- `job_cluster_validate_create_response`
- `job_instance::response_status_l10n`
- `job_replication_session_stop_failover_test_response`
- `job_x509_certificate_csr_response`

- `migration_recommendation_action::active`
- `migration_recommendation_action_modify`
- `migration_recommendation_create::evacuate_objects`
- `migration_recommendation_create::evacuate_appliance_all`
- `network_create`
- `network_instance::name`
- `network_modify::name`
- `performance_metrics_by_ip_port`
- `performance_metrics_by_ip_port_iscsi`
- `performance_metrics_by_ip_port_iscsi_rollup`
- `performance_metrics_by_ip_port_rollup`
- `performance_metrics_file_by_appliance`
- `performance_metrics_file_by_appliance_rollup`
- `performance_metrics_file_by_cluster`
- `performance_metrics_file_by_cluster_rollup`
- `performance_metrics_file_by_node`
- `performance_metrics_file_by_node_rollup`
- `remote_support_contact_instance`
- `remote_support_contact_instance::first_name`
- `remote_support_contact_instance::last_name`
- `remote_support_contact_instance::email`
- `remote_support_contact_instance::phone`
- `remote_support_contact_modify`
- `remote_support_contact_modify::last_name`
- `remote_support_contact_modify::first_name`
- `remote_support_contact_modify::email`
- `remote_support_contact_modify::phone`
- `remote_syslog_server_create`
- `remote_syslog_server_instance`
- `remote_syslog_server_instance::protocol_type_l10n`
- `remote_syslog_server_instance::encryption_l10n`
- `remote_syslog_server_instance::status_l10n`
- `remote_syslog_server_modify`
- `remote_syslog_server_test`
- `remote_system_instance::version`

- replication_session_failover::use_test_copy
- replication_session_instance::last_sync_duration
- replication_session_instance::next_sync_timestamp
- replication_session_instance::failover_test_in_progress
- replication_session_stop_failover_test_response
- replication_start_failover_test
- replication_stop_failover_test
- sas_port_instance::hardware_parent_id
- sas_port_instance::stale_state_l10n
- security_config_modify
- snapshot_rule_instance::timezone_l10n
- snmp_server_create
- snmp_server_instance
- snmp_server_instance::version_l10n
- snmp_server_instance::alert_severity_l10n
- snmp_server_instance::auth_protocol_l10n
- snmp_server_instance::privacy_protocol_l10n
- snmp_server_modify
- software_installed_instance::build_version
- software_installed_instance::build_id
- software_installed_instance::build_flavor_l10n
- software_installed_instance::build_type_l10n
- software_package_instance::build_version
- software_package_instance::build_id
- software_package_instance::build_flavor_l10n
- software_package_instance::build_type_l10n
- validate_create_issue
- validate_create_issue::applianceId
- vasa_provider_credentials
- vcenter_delete
- vcenter_instance::vendor_provider_status_l10n
- veth_port_instance::partner_id
- virtual_machine_instance::vcenter_id
- volume_group_modify::expiration_timestamp
- volume_group_snapshot::expiration_timestamp

- `volume_instance::nsid`
- `volume_instance::nguid`
- `wear_metrics_by_drive_daily`
- `wear_metrics_by_drive_daily_instance`
- `wear_metrics_by_drive_rollup`
- `x509_certificate_create`
- `x509_certificate_csr`
- `x509_certificate_csr_response`
- `x509_certificate_csr_response::type_l10n`
- `x509_certificate_csr_response::service_l10n`
- `x509_certificate_modify`
- `x509_certificate_reset_certificates`

Definition members

Deprecated

- `master_appliance_id` in `cluster_instance`
- `io_module_id` in `eth_port_instance`
- `io_module` in `eth_port_instance`
- `io_module_id` in `fc_port_instance`
- `io_module` in `fc_port_instance`
- `io_module_fc_ports` in `hardware_instance`
- `io_module_sas_ports` in `hardware_instance`
- `io_module_eth_ports` in `hardware_instance`
- `is_skip_unjoin` in `nfs_server_modify`
- `policy_manager_address` in `remote_support_instance`
- `policy_manager_port` in `remote_support_instance`
- `io_module_id` in `sas_port_instance`
- `io_module` in `sas_port_instance`
- `vcenter_instance_uuid` in `virtual_machine_instance`

Added

- `snmp_sent_timestamp` in `alert_instance`
- `drive_failure_tolerance_level` in `appliance_instance`
- `drive_failure_tolerance_level_l10n` in `appliance_instance`
- `read_bandwidth` in `base_performance_metrics_by_nfs`

- `write_bandwidth` in `base_performance_metrics_by_nfs`
- `total_bandwidth` in `base_performance_metrics_by_nfs`
- `avg_read_bandwidth` in `base_performance_metrics_by_nfs_rollup`
- `avg_write_bandwidth` in `base_performance_metrics_by_nfs_rollup`
- `avg_total_bandwidth` in `base_performance_metrics_by_nfs_rollup`
- `max_read_bandwidth` in `base_performance_metrics_by_nfs_rollup`
- `max_write_bandwidth` in `base_performance_metrics_by_nfs_rollup`
- `max_total_bandwidth` in `base_performance_metrics_by_nfs_rollup`
- `read_bandwidth` in `base_performance_metrics_by_smb_node`
- `write_bandwidth` in `base_performance_metrics_by_smb_node`
- `total_bandwidth` in `base_performance_metrics_by_smb_node`
- `avg_read_bandwidth` in `base_performance_metrics_by_smb_node_rollup`
- `avg_write_bandwidth` in `base_performance_metrics_by_smb_node_rollup`
- `avg_total_bandwidth` in `base_performance_metrics_by_smb_node_rollup`
- `max_read_bandwidth` in `base_performance_metrics_by_smb_node_rollup`
- `max_write_bandwidth` in `base_performance_metrics_by_smb_node_rollup`
- `max_total_bandwidth` in `base_performance_metrics_by_smb_node_rollup`
- `logical_used_volume` in `base_space_metrics_by_appliance`
- `logical_used_file_system` in `base_space_metrics_by_appliance`
- `logical_used_vvol` in `base_space_metrics_by_appliance`
- `shared_logical_used_volume` in `base_space_metrics_by_appliance`
- `shared_logical_used_file_system` in `base_space_metrics_by_appliance`
- `shared_logical_used_vvol` in `base_space_metrics_by_appliance`
- `last_logical_used_volume` in `base_space_metrics_by_appliance_rollup`
- `last_logical_used_file_system` in `base_space_metrics_by_appliance_rollup`
- `last_logical_used_vvol` in `base_space_metrics_by_appliance_rollup`
- `last_shared_logical_used_volume` in `base_space_metrics_by_appliance_rollup`
- `last_shared_logical_used_file_system` in `base_space_metrics_by_appliance_rollup`
- `last_shared_logical_used_vvol` in `base_space_metrics_by_appliance_rollup`
- `max_logical_used_volume` in `base_space_metrics_by_appliance_rollup`
- `max_logical_used_file_system` in `base_space_metrics_by_appliance_rollup`
- `max_logical_used_vvol` in `base_space_metrics_by_appliance_rollup`
- `max_shared_logical_used_volume` in `base_space_metrics_by_appliance_rollup`
- `max_shared_logical_used_file_system` in `base_space_metrics_by_appliance_rollup`
- `max_shared_logical_used_vvol` in `base_space_metrics_by_appliance_rollup`

- `logical_used_volume` in `base_space_metrics_by_cluster`
- `logical_used_file_system` in `base_space_metrics_by_cluster`
- `logical_used_vvol` in `base_space_metrics_by_cluster`
- `shared_logical_used_volume` in `base_space_metrics_by_cluster`
- `shared_logical_used_file_system` in `base_space_metrics_by_cluster`
- `shared_logical_used_vvol` in `base_space_metrics_by_cluster`
- `last_logical_used_volume` in `base_space_metrics_by_cluster_rollup`
- `last_logical_used_file_system` in `base_space_metrics_by_cluster_rollup`
- `last_logical_used_vvol` in `base_space_metrics_by_cluster_rollup`
- `last_shared_logical_used_volume` in `base_space_metrics_by_cluster_rollup`
- `last_shared_logical_used_file_system` in `base_space_metrics_by_cluster_rollup`
- `last_shared_logical_used_vvol` in `base_space_metrics_by_cluster_rollup`
- `max_logical_used_volume` in `base_space_metrics_by_cluster_rollup`
- `max_logical_used_file_system` in `base_space_metrics_by_cluster_rollup`
- `max_logical_used_vvol` in `base_space_metrics_by_cluster_rollup`
- `max_shared_logical_used_volume` in `base_space_metrics_by_cluster_rollup`
- `max_shared_logical_used_file_system` in `base_space_metrics_by_cluster_rollup`
- `max_shared_logical_used_vvol` in `base_space_metrics_by_cluster_rollup`
- `shared_logical_used` in `base_space_metrics_by_storage_container`
- `last_shared_logical_used` in `base_space_metrics_by_storage_container_rollup`
- `max_shared_logical_used` in `base_space_metrics_by_storage_container_rollup`
- `partner_id` in `bond_instance`
- `type` in `bond_instance`
- `type_l10n` in `bond_instance`
- `partner` in `bond_instance`
- `primary_appliance_id` in `cluster_instance`
- `system_time` in `cluster_instance`
- `nvme_transport_addresses` in `discovered_initiator_instance`
- `hardware_parent_id` in `eth_port_instance`
- `stale_state` in `eth_port_instance`
- `stale_state_l10n` in `eth_port_instance`
- `hardware_parent` in `eth_port_instance`
- `wwn_nvme` in `fc_port_instance`
- `hardware_parent_id` in `fc_port_instance`
- `protocols` in `fc_port_instance`

- `stale_state` in `fc_port_instance`
- `protocols_l10n` in `fc_port_instance`
- `stale_state_l10n` in `fc_port_instance`
- `hardware_parent` in `fc_port_instance`
- `grace_period` in `file_tree_quota_create`
- `grace_period` in `file_tree_quota_instance`
- `grace_period` in `file_tree_quota_modify`
- `rpm_reading` in `hardware_extra_details_instance`
- `stale_state` in `hardware_instance`
- `stale_state_l10n` in `hardware_instance`
- `hardware_parent_fc_ports` in `hardware_instance`
- `hardware_parent_sas_ports` in `hardware_instance`
- `hardware_parent_eth_ports` in `hardware_instance`
- `type` in `host_instance`
- `type_l10n` in `host_instance`
- `host_group_ids` in `import_session_create`
- `consistency_group_member_host_group_ids` in `import_session_create`
- `name` in `ip_pool_address_instance`
- `network_id` in `ip_port_modify`
- `response_status` in `job_instance`
- `response_status_l10n` in `job_instance`
- `active` in `migration_recommendation_action`
- `connected_appliance_ids` in `migration_recommendation_action`
- `evacuate_objects` in `migration_recommendation_create`
- `evacuate_appliance_all` in `migration_recommendation_create`
- `name` in `network_instance`
- `purposes` in `network_instance`
- `purposes_l10n` in `network_instance`
- `name` in `network_modify`
- `first_name` in `remote_support_contact_instance`
- `last_name` in `remote_support_contact_instance`
- `email` in `remote_support_contact_instance`
- `phone` in `remote_support_contact_instance`
- `last_name` in `remote_support_contact_modify`
- `first_name` in `remote_support_contact_modify`

- `email` in `remote_support_contact_modify`
- `phone` in `remote_support_contact_modify`
- `protocol_type_l10n` in `remote_syslog_server_instance`
- `encryption_l10n` in `remote_syslog_server_instance`
- `audit_types_l10n` in `remote_syslog_server_instance`
- `status_l10n` in `remote_syslog_server_instance`
- `version` in `remote_system_instance`
- `use_test_copy` in `replication_session_failover`
- `failover_snapshot_id` in `replication_session_failover`
- `last_sync_duration` in `replication_session_instance`
- `next_sync_timestamp` in `replication_session_instance`
- `failover_test_in_progress` in `replication_session_instance`
- `hardware_parent_id` in `sas_port_instance`
- `stale_state` in `sas_port_instance`
- `stale_state_l10n` in `sas_port_instance`
- `hardware_parent` in `sas_port_instance`
- `protocol_mode` in `security_config_instance`
- `timezone` in `snapshot_rule_create`
- `timezone` in `snapshot_rule_instance`
- `timezone_l10n` in `snapshot_rule_instance`
- `timezone` in `snapshot_rule_modify`
- `version_l10n` in `snmp_server_instance`
- `alert_severity_l10n` in `snmp_server_instance`
- `auth_protocol_l10n` in `snmp_server_instance`
- `privacy_protocol_l10n` in `snmp_server_instance`
- `build_version` in `software_installed_instance`
- `build_flavor` in `software_installed_instance`
- `build_type` in `software_installed_instance`
- `build_id` in `software_installed_instance`
- `build_flavor_l10n` in `software_installed_instance`
- `build_type_l10n` in `software_installed_instance`
- `build_version` in `software_package_instance`
- `build_flavor` in `software_package_instance`
- `build_type` in `software_package_instance`
- `build_id` in `software_package_instance`

- `build_flavor_l10n` in `software_package_instance`
- `build_type_l10n` in `software_package_instance`
- `applianceId` in `validate_create_issue`
- `vasa_provider_credentials` in `vcenter_create`
- `vendor_provider_status` in `vcenter_instance`
- `vendor_provider_status_l10n` in `vcenter_instance`
- `virtual_machines` in `vcenter_instance`
- `vasa_provider_credentials` in `vcenter_modify`
- `partner_id` in `veth_port_instance`
- `partner` in `veth_port_instance`
- `vcenter_id` in `virtual_machine_instance`
- `vcenter` in `virtual_machine_instance`
- `virtual_volumes` in `virtual_machine_instance`
- `virtual_machines` in `virtual_volume_instance`
- `expiration_timestamp` in `volume_group_modify`
- `expiration_timestamp` in `volume_group_snapshot`
- `nsid` in `volume_instance`
- `nguid` in `volume_instance`
- `type_l10n` in `x509_certificate_csr_response`
- `service_l10n` in `x509_certificate_csr_response`

Version 1.0.3

Paths

Added

- `GET /ldap_account`
- `POST /ldap_account`
- `DELETE /ldap_account/{id}`
- `GET /ldap_account/{id}`
- `PATCH /ldap_account/{id}`
- `GET /ldap_domain`
- `POST /ldap_domain`
- `DELETE /ldap_domain/{id}`
- `GET /ldap_domain/{id}`
- `PATCH /ldap_domain/{id}`

- [POST /ldap_domain/{id}/verify](#)

Enumeration values

Added

- [LDAP_HTTP](#), [Syslog_HTTP](#) in [X509CertificateServiceEnum](#)

Definitions

Added

- [LDAPAccountTypeEnum](#)
- [LDAPProtocolEnum](#)
- [LDAPServerTypeEnum](#)
- [ldap_account_create](#)
- [ldap_account_instance](#)
- [ldap_account_instance::type_l10n](#)
- [ldap_account_modify](#)
- [ldap_domain_create](#)
- [ldap_domain_instance](#)
- [ldap_domain_instance::ldap_server_type_l10n](#)
- [ldap_domain_instance::protocol_l10n](#)

Definition members

Added

- [type_l10n](#) in [ldap_account_instance](#)
- [ldap_server_type_l10n](#) in [ldap_domain_instance](#)
- [protocol_l10n](#) in [ldap_domain_instance](#)

Version 1.0.2

Paths

Added

- [POST /import_session/{id}/enable_destination_volume](#)
- [POST /import_session/{id}/start_copy](#)
- [GET /import_xtremio](#)
- [GET /import_xtremio/{id}](#)

- [POST /import_xtremio/{id}/discover](#)
- [GET /import_xtremio_consistency_group](#)
- [GET /import_xtremio_consistency_group/{id}](#)
- [POST /import_xtremio_consistency_group/{id}/import_snapshot_schedules](#)
- [GET /import_xtremio_volume](#)
- [GET /import_xtremio_volume/{id}](#)
- [POST /import_xtremio_volume/{id}/import_snapshot_schedules](#)

Enumeration values

Added

- [Ready_For_Agentless_Import](#) in [CGImportableCriteriaEnum](#)
- [Cancel_Required](#) in [ImportSessionStateEnum](#)
- [FAILING](#) in [JobStateEnum](#)
- [Ready_For_Agentless_Import](#), [XtremIO_Severity_Inappropriate](#), [XtremIO_State_Inappropriate](#), [XtremIO_Volume_Severity_Inappropriate](#), [XtremIO_Volume_State_Inappropriate](#) in [VolumeImportableCriteriaEnum](#)

Definitions

Deprecated

- [JobStateEnum](#)
- [job_instance::state_l10n](#)

Added

- [ImportSessionTypeEnum](#)
- [JobPhaseEnum](#)
- [SupportedImportTypeEnum](#)
- [XtremIOCertaintyEnum](#)
- [XtremIODurationUnitEnum](#)
- [XtremIOObjectSeverityEnum](#)
- [XtremIOPlatformEnum](#)
- [XtremIOScheduleStateEnum](#)
- [XtremIOScheduleTypeEnum](#)
- [XtremIOStateEnum](#)
- [consistency_group_member_host_mapping](#)
- [import_psgroup_instance::supported_import_type_l10n](#)

- `import_session_enable_destination_volume`
- `import_session_instance::type_l10n`
- `import_storage_center_instance::supported_import_type_l10n`
- `import_unity_instance::supported_import_type_l10n`
- `import_vnx_array_instance::supported_import_type_l10n`
- `import_xtremio_consistency_group_import_snapshot_schedules_response`
- `import_xtremio_consistency_group_instance`
- `import_xtremio_consistency_group_instance::importable_criteria_l10n`
- `import_xtremio_instance`
- `import_xtremio_instance::platform_l10n`
- `import_xtremio_instance::supported_import_type_l10n`
- `import_xtremio_instance::state_l10n`
- `import_xtremio_instance::severity_l10n`
- `import_xtremio_snapshot_schedule_instance`
- `import_xtremio_snapshot_schedule_instance::state_l10n`
- `import_xtremio_snapshot_schedule_instance::schedule_type_l10n`
- `import_xtremio_snapshot_schedule_retention_policy_instance`
- `import_xtremio_snapshot_schedule_retention_policy_instance::short_period_unit_l10n`
- `import_xtremio_snapshot_schedule_retention_policy_instance::middle_period_unit_l10n`
- `import_xtremio_snapshot_schedule_retention_policy_instance::long_period_unit_l10n`
- `import_xtremio_volume_import_snapshot_schedules_response`
- `import_xtremio_volume_instance`
- `import_xtremio_volume_instance::severity_l10n`
- `import_xtremio_volume_instance::certainty_l10n`
- `import_xtremio_volume_instance::importable_criteria_l10n`
- `job_instance::phase_l10n`

Definition members

Deprecated

- `state` in `job_instance`
- `state_l10n` in `job_instance`

Added

- `supported_import_type` in `import_psgroup_instance`
- `supported_import_type_l10n` in `import_psgroup_instance`

- `type` in `import_session_create`
- `host_ids` in `import_session_create`
- `consistency_group_member_host_ids` in `import_session_create`
- `type` in `import_session_instance`
- `type_l10n` in `import_session_instance`
- `supported_import_type` in `import_storage_center_instance`
- `supported_import_type_l10n` in `import_storage_center_instance`
- `supported_import_type` in `import_unity_instance`
- `supported_import_type_l10n` in `import_unity_instance`
- `supported_import_type` in `import_vnx_array_instance`
- `supported_import_type_l10n` in `import_vnx_array_instance`
- `importable_criteria_l10n` in `import_xtremio_consistency_group_instance`
- `import_xtremio_volumes` in `import_xtremio_consistency_group_instance`
- `import_xtremio` in `import_xtremio_consistency_group_instance`
- `platform_l10n` in `import_xtremio_instance`
- `supported_import_type_l10n` in `import_xtremio_instance`
- `state_l10n` in `import_xtremio_instance`
- `severity_l10n` in `import_xtremio_instance`
- `import_xtremio_volumes` in `import_xtremio_instance`
- `import_xtremio_consistency_groups` in `import_xtremio_instance`
- `state_l10n` in `import_xtremio_snapshot_schedule_instance`
- `schedule_type_l10n` in `import_xtremio_snapshot_schedule_instance`
- `short_period_unit_l10n` in `import_xtremio_snapshot_schedule_retention_policy_instance`
- `middle_period_unit_l10n` in `import_xtremio_snapshot_schedule_retention_policy_instance`
- `long_period_unit_l10n` in `import_xtremio_snapshot_schedule_retention_policy_instance`
- `severity_l10n` in `import_xtremio_volume_instance`
- `certainty_l10n` in `import_xtremio_volume_instance`
- `importable_criteria_l10n` in `import_xtremio_volume_instance`
- `import_xtremio` in `import_xtremio_volume_instance`
- `import_xtremio_consistency_group` in `import_xtremio_volume_instance`
- `phase` in `job_instance`
- `phase_l10n` in `job_instance`

Version 1.0.0

Definitions

Added

- [wear_metrics_by_drive](#)
- [wear_metrics_by_drive_instance](#)

Resources

alert

Use these resource types to manage events and alerts in the system.

GET /alert

Description

Query all alerts.

Responses

HTTP Code	Description	Schema
200	Success	< alert_instance > array
206	Partial content of alert instance objects	< alert_instance > array

GET /alert/{id}

Description

Query a specific alert.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the alert.	string

Responses

HTTP Code	Description	Schema
200	Success	alert_instance
404	Not Found	error_response

PATCH /alert/{id}

Description

Modify an alert. `acknowledged_severity` parameter, if included, will cause the request to fail when the alert's severity is higher than the `acknowledged_severity` parameter value. `acknowledged_severity` is ignored when `is_acknowledged` is set to false.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the specific alert.	string
Body	alert_modify <i>required</i>		alert_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- `application/json`

Produces

- `application/json`

anomalies

Use this resource type to manage appliance anomaly detection reports. The reports contain anomalies found for the following metrics - Read IOPS, Write IOPS, Total IOPS, IO Bandwidth, IO Latency, IO Size. The anomaly detection model requires 14+1 days of (training + testing) data retention per appliance.

GET /anomalies

Description

Get list of anomalies detected in appliance I/O performance. Was added in version 4.2.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< anomalies_instance > array
206	Partial content of anomalies instance objects	< anomalies_instance > array

POST /anomalies

Description

Generate a new anomaly report for an appliance, replacing any previously created report. Was added in version 4.2.0.0.

Parameters

Type	Name	Schema
Body	body <i>required</i>	anomalies_create

Responses

HTTP Code	Description	Schema
201	Created	create_response

HTTP Code	Description	Schema
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /anomalies/{id}

Description

Get a single detected anomaly in appliance I/O performance. Was added in version 4.2.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique ID of the anomaly request.	string

Responses

HTTP Code	Description	Schema
200	Success	anomalies_instance
404	Not Found	error_response

appliance

Manage appliances

GET /appliance

Description

Query the appliances in a cluster.

Responses

HTTP Code	Description	Schema
200	Success	< appliance_instance > array
206	Partial content of appliance instance objects	< appliance_instance > array

POST /appliance

Description

Add an appliance to an existing cluster.

The cluster consisting of a single appliance without a 4-Port Card installed cannot be extended.

Before adding an appliance, verify whether the cluster has the appropriate number of unused IP addresses. Unused IP addresses for the Management and Storage Networks are required. In addition, PowerStore X appliances also require IP addresses for the vMotion Network. The required number of IP addresses for each network depends on the appliance model.

PowerStore T requires a minimum of 3 Management Network IPs and 2 Storage Network IPs.

PowerStore X requires a minimum of 5 Management Network IPs, 6 Storage Network IPs and 2 vMotion Network IPs.

The IP addresses are automatically pulled from the pool of unused IPs on the cluster. To add additional IP addresses, use the `/api/rest/network` REST endpoint.

Was added in version 2.0.0.0.

Parameters

Type	Name	Schema
Body	body <i>required</i>	appliance_create

Responses

HTTP Code	Description	Schema
201	Created	create_response

HTTP Code	Description	Schema
400	Invalid Request	appliance_create_error_response
422	Operation Failed	error_response

POST /appliance/validate_create

Description

Validate the add appliance configuration. Success is returned when all the validations have been run. The response includes any detected issues.

Was added in version 2.0.0.0.

Parameters

Type	Name	Schema
Body	body <i>required</i>	appliance_validate_create

Responses

HTTP Code	Description	Schema
200	Success	appliance_validate_create_response
204	Success	No Content
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /appliance/{id}

GET /appliance/name:{name}

Description

Query a specific appliance in a cluster.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the appliance.	string
Path	name <i>required</i>	Unique name of the appliance.	string

Responses

HTTP Code	Description	Schema
200	Success	appliance_instance
404	Not found	error_response

Consumes

- [application/json](#)

Produces

- [application/json](#)

DELETE /appliance/{id}

DELETE /appliance/name:{name}

Description

Remove an appliance from a cluster. Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the appliance.	string
Path	name <i>required</i>	Unique name of the appliance.	string

Type	Name	Description	Schema
Body	body <i>optional</i>	Delete request arguments.	appliance_delete

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- [application/json](#)

Produces

- [application/json](#)

PATCH /appliance/{id}

PATCH /appliance/name:{name}

Description

Modify an appliance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the appliance.	string
Path	name <i>required</i>	Unique name of the appliance.	string
Body	body <i>required</i>		appliance_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- [application/json](#)

Produces

- [application/json](#)

POST /appliance/{id}/forecast

POST /appliance/name:{name}/forecast

Description

Forecast capacity usage for an appliance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique id of the appliance.	string
Path	name <i>required</i>	Unique name of the appliance.	string
Body	body <i>required</i>		appliance_forecast

Responses

HTTP Code	Description	Schema
200	Success	< appliance_forecast_response > array
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

POST /appliance/{id}/time_to_full

POST /appliance/name:{name}/time_to_full

Description

Returns information about when an appliance is forecast to reach 100% capacity usage.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique id of the appliance.	string
Path	name <i>required</i>	Unique name of the appliance.	string
Body	body <i>required</i>		appliance_time_to_full

Responses

HTTP Code	Description	Schema
200	Success	appliance_time_to_full_response
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

audit_event

Use this resource type to query audit log information.

GET /audit_event

Description

Query audit log entries.

Responses

HTTP Code	Description	Schema
200	OK	< audit_event_instance > array
206	Partial content of audit event instance objects	< audit_event_instance > array

Produces

- [application/json](#)

bond

Use this resource type to manage the configuration of bonds. Bonds are implemented in pairs on each storage processor of the appliance.

GET /bond

Description

Query bonds.

Responses

HTTP Code	Description	Schema
200	Success	< bond_instance > array
206	Partial content of bond instance objects	< bond_instance > array

Example HTTP response

Response 200

```
[ {
  "id" : "BOND1",
  "name" : "BaseEnclosure-NodeA-bond0",
  "description" : "System Bond.",
  "partner_id" : "BOND2",
  "is_link_up" : true,
  "mtu" : 1500,
  "mode" : "LACP",
  "type" : "System_Bond"
}, {
  "id" : "BOND2",
  "name" : "BaseEnclosure-NodeB-bond0",
  "description" : "System Bond.",
  "partner_id" : "BOND1",
  "is_link_up" : true,
  "mtu" : 1500,
  "mode" : "LACP",
  "type" : "System_Bond"
}, {
  "id" : "BOND3",
  "name" : "BaseEnclosure-NodeA-bond1",
  "description" : "Our user defined bond.",
  "partner_id" : "BOND4",
  "is_link_up" : true,
  "mtu" : 1500,
  "mode" : "LACP",
  "type" : "User_Bond"
}, {
  "id" : "BOND4",
  "name" : "BaseEnclosure-NodeB-bond1",
  "description" : "Our user defined bond.",
  "partner_id" : "BOND3",
  "is_link_up" : true,
  "mode" : "LACP",
  "type" : "User_Bond"
} ]
```

POST /bond

Description

Create a user bond. Was added in version 3.0.0.0.

Parameters

Type	Name	Schema
Body	body <i>required</i>	bond_create

Responses

HTTP Code	Description	Schema
201	Success	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /bond/{id}

GET /bond/name:{name}

Description

Query bonds.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the bond.	string
Path	name <i>required</i>	Unique name of the bond.	string

Responses

HTTP Code	Description	Schema
200	Success	bond_instance
404	Not Found	error_response

Consumes

- `application/json`

Produces

- `application/json`

Example HTTP response

Response 200

```
[ {
  "id" : "BOND1",
  "name" : "BaseEnclosure-NodeA-bond0",
  "partner_id" : "BOND2",
  "is_link_up" : true,
  "mtu" : 1500,
  "mode" : "LACP",
  "type" : "System_Bond",
  "description" : "System Bond."
}, {
  "id" : "BOND4",
  "name" : "BaseEnclosure-NodeB-bond1",
  "partner_id" : "BOND3",
  "is_link_up" : true,
  "mtu" : 9000,
  "mode" : "LACP",
  "type" : "User_Bond",
  "description" : "User Bond."
} ]
```

DELETE /bond/{id}

DELETE /bond/name:{name}

Description

Delete a user bond. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the bond.	string
Path	name <i>required</i>	Unique name of the bond.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /bond/{id}

PATCH /bond/name:{name}

Description

Modify user bond. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the bond.	string
Path	name <i>required</i>	Unique name of the bond.	string
Body	body <i>required</i>		bond_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

cert_role_mapping

Use this resource type to manage certificate role mappings. It maps a client certificate to a management role on the system. This is an externally visible object used for authentication/login (similar to local users).

For current release, when certificate-based authentication (CAC/PIV only) is enabled, password-based authentication is disabled. It is a one way operation. The local/LDAP accounts are preserved in a disabled state when this switch occurs.

As part of enabling certificate-based authentication, the user is required to perform the following steps -

- Import a chain of trust for enabling Powerstore to trust the client certificate being used for certificate based authentication - using the /x509_certificate API.
- Set up certificate user name policy: Specifies the certificate user name policy between a client certificate attribute and the user account identity. This can be modified until cert-based authN is enabled. After enablement, it cannot be changed - using /security_config API
- Create at least one certificate role mapping with the role Administrator based on the certificate user name policy configuration - using /cert_role_mapping API.
- Enable certificate-based authentication - performed using /mfa_cacpiv API

GET /cert_role_mapping

Description

Query all certificate role mappings. Was added in version 4.1.0.0. This resource type collection query does not support filtering, sorting or pagination.

Responses

HTTP Code	Description	Schema
200	Success	< cert_role_mapping_instance > array
206	Partial content of cert role mapping instance objects	< cert_role_mapping_instance > array

Produces

- [application/json](#)

POST /cert_role_mapping

Description

Create a new certificate role mapping. Was added in version 4.1.0.0.

Parameters

Type	Name	Description	Schema
Body	body <i>required</i>	Request body.	cert_role_mapping_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

GET /cert_role_mapping/{id}

Description

Query a specific certificate role mapping. Was added in version 4.1.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the cert_role_mapping instance.	string

Responses

HTTP Code	Description	Schema
200	Success	cert_role_mapping_instance
404	Not Found	error_response

Produces

- [application/json](#)

DELETE /cert_role_mapping/{id}

Description

Delete a certificate role mapping. Was added in version 4.1.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the cert_role_mapping instance to be deleted.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

PATCH /cert_role_mapping/{id}

Description

Modify properties of a certificate role mapping. Was added in version 4.1.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the cert_role_mapping instance to be modified.	string
Body	body <i>required</i>		cert_role_mapping_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

chap_config

CHAP is enabled (or not) identically cluster-wide for all iSCSI targets. For both single and mutual CHAP authentication modes, the common username and password for all targets on the cluster are set here. For mutual mode, each initiator also has a CHAP username and password set. Changing the cluster CHAP mode disrupts all iSCSI connections, and will disable connections that are not completely and correctly configured. For example, an initiator without a valid CHAP username and password will lose connectivity to the target if mutual model is enable here. Both the settings here, and the settings on the initiators can be modified while CHAP mode is in disabled mode.

GET /chap_config

Description

Query the list of (one) CHAP configuration settings objects. This resource type collection query does not support filtering, sorting or pagination.

Responses

HTTP Code	Description	Schema
200	Success	< chap_config_instance > array
206	Partial content of chap config instance objects	< chap_config_instance > array

GET /chap_config/{id}

Description

Query the CHAP configuration settings object.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	The id of the CHAP configuration object (always "0").	string

Responses

HTTP Code	Description	Schema
200	Success	chap_config_instance
404	Not Found	error_response

PATCH /chap_config/{id}

Description

Modify the CHAP configuration settings object. To enable either Single or Mutual CHAP modes, the username and password must already be set, or included in the same request as the new mode.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	The id of the CHAP configuration object (always "0").	string

Type	Name	Description	Schema
Body	body <i>required</i>		chap_config_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

cluster

Manage clusters

POST /cluster/{id}/forecast

Description

Forecast capacity usage for the cluster.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique id of the cluster.	string
Body	body <i>required</i>		cluster_forecast

Responses

HTTP Code	Description	Schema
200	Success	< cluster_forecast_response > array

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

POST /cluster/{id}/time_to_full

Description

Returns information about when the cluster is forecast to reach 100% capacity usage.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique id of the cluster	string
Body	body <i>required</i>		cluster_time_to_full

Responses

HTTP Code	Description	Schema
200	Successful operation.	cluster_time_to_full_response
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- `application/json`

GET /cluster

Description

Query the details about the cluster. This resource type collection query does not support filtering, sorting or pagination.

Responses

HTTP Code	Description	Schema
200	Success	< cluster_instance > array
206	Partial content of cluster instance objects	< cluster_instance > array

Produces

- `application/json`

POST /cluster

Description

Create a Power Store or Power Store X Cluster of one or more appliances.

- You can create a cluster of up to 4 appliances.
- Except where explicitly noted, all parameters in **vcenters** object are mandatory when creating a PowerStoreX cluster.
- When creating a multi-appliance cluster, the most capable appliance is chosen as the Primary appliance based on the appliance configuration type.
- All of the appliances must have the 4-Port Card installed to be added into a multi-appliance cluster.
- When creating a multi-appliance cluster, best effort is made to successfully create the cluster. The create operation:
 - Fails, if the Primary appliance is not configured successfully.
 - Succeeds, if one or more secondary appliances fail to configure.
 - Any secondary appliance that is configured successfully will be added to the cluster.
- An alert is generated for any failed secondary appliance. Look for these alerts in the PowerStore Manager. Resolve issues on failed appliances before adding the appliances to the cluster.

- When creating a cluster asynchronously, wait for ~10 minutes until Job Service is initialized before querying the status of the running job.

Was added in version 2.0.0.0.

Parameters

Type	Name	Schema
Body	body <i>required</i>	cluster_create

Responses

HTTP Code	Description	Schema
201	Created Was added in version 2.0.0.0.	create_response
400	Invalid Request Was added in version 2.0.0.0.	cluster_create_error_response
422	Operation Failed Was added in version 2.0.0.0.	error_response

POST /cluster/validate_create

Description

Validate the create cluster configuration for a PowerStore or PowerStore X Cluster of one or more appliances. Success is returned when all the validations have been run. The response shows whether any of the validations detected any issues.

Was added in version 2.0.0.0.

Parameters

Type	Name	Schema
Body	body <i>required</i>	cluster_validate_create

Responses

HTTP Code	Description	Schema
200	Success	cluster_validate_create_response
204	Success	No Content
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /cluster/{id}

Description

Query details about the cluster.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the cluster.	string

Responses

HTTP Code	Description	Schema
200	Success	cluster_instance
404	Not Found	error_response

Produces

- [application/json](#)

PATCH /cluster/{id}

Description

Update properties of the cluster.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the cluster.	string
Body	body <i>optional</i>		cluster_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- `application/json`

Produces

- `application/json`

POST /cluster/{id}/discover_fc_targets

Description

Discover non-PowerStore FC targets accessible from the dual mode FC ports of any appliance.

Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the cluster. Was added in version 4.0.0.0.	string

Responses

HTTP Code	Description	Schema
200	Success	cluster_discover_fc_targets_response
204	Success	No Content
400	Invalid request	error_response
404	Invalid Request	error_response
422	Operation Failed	error_response

POST /cluster/{id}/validate_expand

Description

Validate whether the cluster configuration is ready for cluster expansion. Success is returned when all the validations have been run. The response shows whether any of the validations detected any issues.

Was added in version 4.1.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique id of the cluster	string

Responses

HTTP Code	Description	Schema
200	Success	cluster_validate_expand_response
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response

HTTP Code	Description	Schema
422	Operation Failed	error_response

datacollection

Data collection

GET /datacollection

Description

List data collections. Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success.	< datacollection_instance > array
206	Partial content of datacollection instance objects	< datacollection_instance > array

POST /datacollection

Description

Create a new datacollection by collecting and bundling support materials. Only one datacollection create may be running at a time. Was added in version 3.0.0.0.

Parameters

Type	Name	Schema
Body	body <i>optional</i>	datacollection_create

Responses

HTTP Code	Description	Schema
201	Success	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

GET /datacollection/{id}

Description

Query data collection instance. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier for an instance. Was added in version 3.0.0.0.	string

Responses

HTTP Code	Description	Schema
200	Success	datacollection_instance
404	Not Found	error_response

Produces

- [application/json](#)

DELETE /datacollection/{id}

Description

Delete the specified data collection. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier for an instance. Was added in version 3.0.0.0.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

POST /datacollection/{id}/upload

Description

Upload a data collection to your service provider. This operation is only available if SupportAssist is enabled. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier for an instance. Was added in version 3.0.0.0.	string
Body	body <i>optional</i>		datacollection_upload

Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

datastore

Use this resource type to retrieve cached information from vCenter about datastores that use storage from the storage system.

GET /datastore

Description

Query existing datastores that use storage from the storage system. Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< datastore_instance > array
206	Partial content of datastore instance objects	< datastore_instance > array

GET /datastore/{id}

GET /datastore/name:{name}

Description

Query a specific datastore instance. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the datastore to query.	string
Path	name <i>required</i>	Unique name of the datastore to query.	string

Responses

HTTP Code	Description	Schema
200	Success	datastore_instance
404	Not Found	error_response

discovered_appliance

Appliance Discovery

GET /discovered_appliance

Description

List information about unmanaged appliances on the local subnet. This resource type collection query does not support filtering, sorting or pagination. Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< discovered_appliance_instance > array
206	Partial content of discovered appliance instance objects	< discovered_appliance_instance > array

GET /discovered_appliance/{id}

Description

Get information about an unmanaged appliance. Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of a discovered appliance. Use 0 to get local appliance information.	string

Responses

HTTP Code	Description	Schema
200	Success	discovered_appliance_instance
404	Not Found	error_response

PATCH /discovered_appliance/{id}

Description

Modify a discovered appliance.

Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of a discovered appliance. Use 0 for the local appliance.	string
Body	body <i>required</i>		discovered_appliance_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /discovered_appliance/{id}/update_software

Description

Upload a software package on an unconfigured appliance and initiate a factory reset to bring that appliance to the same version as the cluster. This is a long-running operation. If you want to run the operation in the background, append "?async=true" to the request URL. Use the job id that is returned to monitor the operation.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of a discovered appliance.	string
Body	body <i>required</i>		discovered_appliance_update_software

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

discovered_initiator

Use this resource type to list initiators currently connected to the cluster that are not associated

with a host.

GET /discovered_initiator

Description

Query connected initiators that are not associated with a host.

This resource type collection query does not support filtering, sorting or pagination.

Responses

HTTP Code	Description	Schema
200	Success	< discovered_initiator_instance > array
206	Partial content of discovered initiator instance objects	< discovered_initiator_instance > array

Produces

- application/json

dns

Manage DNS and NTP settings for the cluster.

GET /dns

Description

Query DNS settings for a cluster.

Responses

HTTP Code	Description	Schema
200	Success	< dns_instance > array

HTTP Code	Description	Schema
206	Partial content of dns instance objects	< dns_instance > array

GET /dns/{id}

Description

Query a specific DNS setting.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the DNS setting.	string

Responses

HTTP Code	Description	Schema
200	Success	dns_instance
404	Not Found	error_response

Consumes

- [application/json](#)

Produces

- [application/json](#)

Example HTTP response

Response 200

```
{
  "id" : "DNS1",
  "addresses" : [ "10.244.53.108", "10.228.254.66" ]
}
```

PATCH /dns/{id}

Description

Modify a DNS setting.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the DNS setting.	string
Body	body <i>required</i>		dns_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- [application/json](#)

Produces

- [application/json](#)

Example HTTP request

Request body

```
{
  "addresses" : [ "10.244.53.110", "10.244.53.111" ]
}
```

email_notify_destination

Use these resource types to configure outgoing SMTP and email notifications.

GET /email_notify_destination

Description

Query all email notification destinations.

Responses

HTTP Code	Description	Schema
200	Success	< email_notify_destination_instance > array
206	Partial content of email notify destination instance objects	< email_notify_destination_instance > array

POST /email_notify_destination

Description

Add an email address to receive notifications.

Parameters

Type	Name	Description	Schema
Body	body <i>required</i>	Email address to receive notifications.	email_notify_destination_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response

HTTP Code	Description	Schema
422	Operation Failed	error_response

GET /email_notify_destination/{id}

Description

Query a specific email notification destination.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the email notification destination.	string

Responses

HTTP Code	Description	Schema
200	Success	email_notify_destination_instance
404	Not Found	error_response

DELETE /email_notify_destination/{id}

Description

Delete an email notification destination.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the email notification destination.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /email_notify_destination/{id}

Description

Modify an email notification destination.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the email notification destination.	string
Body	body <i>required</i>	Email address to receive notifications.	email_notify_destination_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /email_notify_destination/{id}/test

Description

Send a test email to an email address.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the email notification destination.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

eth_be_port

Use this resource type to retrieve information about Ethernet Backend ports.

GET /eth_be_port

Description

Query the Ethernet Backend port configuration for cluster nodes. Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< eth_be_port_instance > array
206	Partial content of eth be port instance objects	< eth_be_port_instance > array

GET /eth_be_port/{id}

GET /eth_be_port/name:{name}

Description

Query a specific Ethernet Backend port configuration. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the Ethernet Backend port.	string
Path	name <i>required</i>	Unique name of the Ethernet Backend port.	string

Responses

HTTP Code	Description	Schema
200	Success	eth_be_port_instance
404	Not Found	error_response

Example HTTP response

Response 200

```
{
  "id" : "cd919479ce234f31be4e31c551709910",
  "name" : "BaseEnclosure-NodeA-EmbeddedModule-BEPort0",
  "appliance_id" : "A1",
  "node_id" : "8889b456968142af81c71a9a91959690",
  "mac_address" : "string",
  "is_link_up" : true,
  "speed" : "25_Gbps",
  "sfp_id" : "d2882f9bf50a44d0a7261fa1c25dbb54",
  "port_index" : 1,
  "port_connector_type" : "QSFP",
  "hardware_parent_id" : "a3ef59feefaa49a3a3d6d5c8b0cbc055",
  "expected_peer_id" : "cd919479ce234f31be4e31c55170991a",
  "actual_peer_id" : "cd919479ce234f31be4e31c55170991a",
  "protocols" : "NVMe",
  "stale_state" : "Not_Stale"
}
```

eth_port

This is the REST API for cluster-wide retrieval and configuration of Ethernet front-end ports.

GET /eth_port

Description

Get Ethernet front-end port configuration for all cluster nodes.

Responses

HTTP Code	Description	Schema
200	Success	< eth_port_instance > array
206	Partial content of eth port instance objects	< eth_port_instance > array

GET /eth_port/{id}

GET /eth_port/name:{name}

Description

Get Ethernet front-end port configuration by instance identifier.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Ethernet front-end port instance identifier.	string
Path	name <i>required</i>	Ethernet front-end port instance name.	string

Responses

HTTP Code	Description	Schema
200	Success	eth_port_instance

HTTP Code	Description	Schema
404	Not Found	error_response

Example HTTP response

Response 200

```
{
  "id" : "8748ab0c3cdb4592a5b979d53e565d26",
  "name" : "BaseEnclosure-NodeA-4PortCard-hFEPort0",
  "appliance_id" : "A1",
  "node_id" : "8889b456968142af81c71a9a91959690",
  "mac_address" : "00601689ccc0",
  "is_link_up" : true,
  "is_in_use" : true,
  "supported_speeds" : [ "10_Mbps" ],
  "current_speed" : [ "10_Gbps" ],
  "current_mtu" : 1500,
  "sfp_id" : "835b6cffdc13436193030381470ad3a9",
  "io_module_id" : "ed82555a62694afb800d4de1db0f3c27",
  "hardware_parent_id" : "167d5cb4f1ff49dc87b5e07c26e0a0f4",
  "port_index" : 1,
  "port_connector_type" : "Copper_Pigtail",
  "partner_id" : "8749043a64f84280becb9f567033e1f6",
  "is_hypervisor_managed" : true,
  "hypervisor_port_name" : "vmnic6",
  "hypervisor_vswitch_name" : "DVS-H0666",
  "hypervisor_port_id" : 9,
  "hypervisor_vswitch_id" : "50 1e 2e a9 34 d9 9c 79-f2 da 35 45 3b 8b 0b 94",
  "l2_discovery_details" : {
    "remote_mac" : "8c:47:be:c0:23:c1",
    "remote_port_name" : "ethernet1/1/13",
    "remote_name" : "228-L3D5-31Y-063011",
    "remote_description" : "Networking OS10-Enterprise.\r\nCopyright (c) 1999-2019.
All Rights Reserved.",
    "remote_mtu" : 9152,
    "remote_native_vlan" : 1024
  },
  "stale_state" : "Not_Stale"
}
```

PATCH /eth_port/{id}

PATCH /eth_port/name:{name}

Description

Change the properties of the front-end port. Note that setting the port's requested speed may not cause the port speed to change immediately. In cases where the SFP is not inserted or the port is down the requested speed will be set but the `current_speed` will still show the old value until the SFP is able to change speed. By default, the partner port speed on the other node in the appliance is set to the same requested speed. If the requested speed is not supported by the partner port it is left unchanged.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the port.	string
Path	name <i>required</i>	Unique name of the port.	string
Body	body <i>required</i>		eth_port_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

event

Use these resource types to manage events and alerts in the system.

GET /event

Description

Returns all events in the database.

Responses

HTTP Code	Description	Schema
200	An array of events	< event_instance > array
206	Partial content of event instance objects	< event_instance > array

GET /event/{id}

Description

Get event by Event Id.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Event Id	string

Responses

HTTP Code	Description	Schema
200	Event Object	event_instance
404	Not Found	error_response

fast_metrics_config

Use this API to enable fast metrics collection for entities.

GET /fast_metrics_config

Description

Query fast metrics config instances for entities. Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< fast_metrics_config_instance > array
206	Partial content of fast metrics config instance objects	< fast_metrics_config_instance > array

Produces

- [application/json](#)

POST /fast_metrics_config

Description

Configure fast metrics for an entity. Was added in version 3.0.0.0.

Parameters

Type	Name	Schema
Body	body <i>required</i>	fast_metrics_config_create

Responses

HTTP Code	Description	Schema
201	Success	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

Consumes

- [application/json](#)

Produces

- [application/json](#)

GET /fast_metrics_config/{id}

Description

Query a specific fast_metrics_config instance. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the fast_metrics_config instance to query.	string

Responses

HTTP Code	Description	Schema
200	Success	fast_metrics_config_instance
404	Not Found	error_response

Produces

- [application/json](#)

DELETE /fast_metrics_config/{id}

Description

Delete a fast_metrics_config instance.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the fast_metrics_config instance to delete.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

fc_port

Use this resource type to retrieve information about Fibre Channel (FC) front-end ports and to set their connection speeds.

GET /fc_port

Description

Query the FC front-end port configurations for all cluster nodes.

Responses

HTTP Code	Description	Schema
200	Success	< fc_port_instance > array
206	Partial content of fc port instance objects	< fc_port_instance > array

GET /fc_port/{id}

GET /fc_port/name:{name}

Description

Query a specific FC front-end port configuration.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the FC front-end port.	string
Path	name <i>required</i>	Unique name of the FC front-end port.	string

Responses

HTTP Code	Description	Schema
200	Success	fc_port_instance
404	Not Found	error_response

Example HTTP response

Response 200

```
{
  "id" : "f687c14ae6bd4042b385af5dd9d9697c",
  "name" : "BaseEnclosure-NodeB-IoModule0-FEPort1",
  "appliance_id" : "A1",
  "node_id" : "720b23d7671d46299aa642111c48b2a3",
  "wwn" : "50:05:07:63:00:d0:97:9a",
  "wwn_nvme" : "50:05:08:63:00:d0:97:9a",
  "is_link_up" : true,
  "is_in_use" : true,
  "current_speed" : "16_Gbps",
  "requested_speed" : "16_Gbps",
  "supported_speeds" : [ "4_Gbps", "8_Gbps", "16_Gbps" ],
  "sfp_id" : "638ff4eebe7c47858790a2541bbee6cc",
  "io_module_id" : "00b958f01c7644c7be2e742988d55837",
  "hardware_parent_id" : "167d5cb4f1ff49dc87b5e07c26e0a0f4",
  "port_index" : 1,
  "port_connector_type" : "LC",
  "partner_id" : "01e1ab52bd944b9dbd108b242ef3b355",
  "protocol" : [ "SCSI", "NVMe" ],
  "stale_state" : "Not_Stale"
}
```

PATCH /fc_port/{id}

PATCH /fc_port/name:{name}

Description

Modify an FC front-end port's speed. Setting the port's requested speed might not cause the port speed to change immediately. In cases where the Small Form-Factor Pluggable (SFP) is not inserted or the port is down, the requested speed is set, but the `current_speed` attribute shows the old value until the SFP is able to change speed. By default, the partner port speed on the other node in the appliance is set to the same requested speed. If the requested speed is not supported by the partner port, it is left unchanged.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the FC front-end port.	string
Path	name <i>required</i>	Unique name of the FC front-end port.	string
Body	body <i>required</i>		fc_port_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request.	error_response
404	Not Found	error_response
422	Operation Failed	error_response

file_dhsm_config

DHSM (Distributed Hierarchical Storage Management) automates the archiving of NAS files across a hierarchy of storage platforms. When used with an external policy and archiving application such as Glider, DHSM automatically archives infrequently used files, or files of a particular type, to less-expensive storage devices. Archived files are then recalled to NAS storage when accessed by client applications.

GET /file_dhsm_config

Description

List configured DHSM server instances. Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< file_dhsm_config_instance > array
206	Partial content of file dhsm config instance objects	< file_dhsm_config_instance > array

POST /file_dhsm_config

Description

Add an DHSM server configuration to a NAS server. Only one DHSM server object can be configured per NAS server. Was added in version 3.0.0.0.

Parameters

Type	Name	Schema
Body	body <i>required</i>	file_dhsm_config_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /file_dhsm_config/{id}

Description

Query an DHSM server configuration instance. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the DHSM server object.	string

Responses

HTTP Code	Description	Schema
200	Success	file_dhsm_config_instance
404	Not Found	error_response

DELETE /file_dhsm_config/{id}

Description

Delete an DHSM server configuration instance of a NAS Server. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the DHSM server object.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /file_dhsm_config/{id}

Description

Modify an DHSM server configuration instance. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the DHSM server object.	string
Body	body <i>required</i>		file_dhsm_config_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

file_dns

Use these resources to configure the Domain Name System (DNS) settings for a NAS server. One DNS settings object may be configured per NAS server. A DNS is a hierarchical system responsible for converting domain names to their corresponding IP addresses. A NAS server's DNS settings should allow DNS resolution of all names within an SMB server's domain in order for the SMB protocol to operate normally within an Active Directory domain. The DNS default port is 53.

GET /file_dns

Description

Query of the DNS settings of NAS Servers.

Responses

HTTP Code	Description	Schema
200	Success.	< file_dns_instance > array
206	Partial content of file dns instance objects	< file_dns_instance > array

POST /file_dns

Description

Create a new DNS Server configuration for a NAS Server. Only one object can be created per NAS Server.

Parameters

Type	Name	Schema
Body	body <i>required</i>	file_dns_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /file_dns/{id}

Description

Query a specific DNS settings object of a NAS Server.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the DNS object.	string

Responses

HTTP Code	Description	Schema
200	Success	file_dns_instance
404	Not Found	error_response

DELETE /file_dns/{id}

Description

Delete DNS settings of a NAS Server.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the DNS object.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /file_dns/{id}

Description

Modify the DNS settings of a NAS Server.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the DNS object.	string
Body	body <i>required</i>		file_dns_modify

Responses

HTTP Code	Description	Schema
204	Success.	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

file_events_pool

A File Event Service pool is a pool of remote File Event Service servers (machines that run VEE and are capable of handling event notifications from a NAS Server). A NAS Server can be associated with up to three File Event Service pools. The File Event Service pool servers are responsible for: - Maintaining a topology and state mapping of all consumer applications - Delivering event type and associated event metadata through the publishing agent API.

GET /file_events_pool

Description

Query file events pools. Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< file_events_pool_i nstance > array

HTTP Code	Description	Schema
206	Partial content of file events pool instance objects	< file_events_pool_instance > array

POST /file_events_pool

Description

Create a file events pool. Was added in version 3.0.0.0.

Parameters

Type	Name	Schema
Body	body <i>required</i>	file_events_pool_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /file_events_pool/{id}

GET /file_events_pool/name:{name}

Description

Query one file events pool. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file events pool.	string

Type	Name	Description	Schema
Path	name <i>required</i>	Unique name of the file events pool.	string

Responses

HTTP Code	Description	Schema
200	Success	file_events_pool_instance
404	Not Found	error_response

DELETE /file_events_pool/{id}

DELETE /file_events_pool/name:{name}

Description

Delete a file events pool. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file events pool.	string
Path	name <i>required</i>	Unique name of the file events pool.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /file_events_pool/{id}

PATCH /file_events_pool/name:{name}

Description

Modify the settings of a file events pool. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the events pool.	string
Path	name <i>required</i>	Unique name of the events pool.	string
Body	body <i>required</i>		file_events_pool_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

file_events_publisher

The File Event Service is a mechanism whereby applications can register to receive notifications and context when particular events occur in file systems. File Event Service is a part of VNX Event Enabler Framework (VEE). VEE provides the working environment for the CAVA and CEPA (Common Event Publishing Agent) facilities. The event publishing agent delivers to the application both event notification and associated context in one message. Context may consist of file metadata or directory metadata needed to decide business policy. The CEPA sub-facilities include: - Auditing. A mechanism for delivering post-events to registered consumer applications in a synchronous manner. Events are delivered individually in real-time. - CQM. A mechanism for delivering pre-events to registered consumer applications in a synchronous manner. Events are delivered individually in real-time, allowing the consumer application to exercise business policy on the

event. - VCAPS. A mechanism for delivering post-events in asynchronous mode. The delivery cadence is based on a time period or a number of events. - MessageExchange. A mechanism for delivering post-events in asynchronous mode, when needed, without consumer use of the CEPA API. Events are published from CEPA to the RabbitMQ CEE_Events exchange. A consumer application creates a queue for itself in the exchange from which it can retrieve events.

GET /file_events_publisher

Description

List file events publisher service instances. Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< file_events_publisher_instance > array
206	Partial content of file events publisher instance objects	< file_events_publisher_instance > array

POST /file_events_publisher

Description

Create a file events publisher. Was added in version 3.0.0.0.

Parameters

Type	Name	Schema
Body	body <i>required</i>	file_events_publisher_create

Responses

HTTP Code	Description	Schema
201	Created	create_response

HTTP Code	Description	Schema
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /file_events_publisher/{id}

GET /file_events_publisher/name:{name}

Description

Query configuration details of a specific file events publisher service.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the File Events Publisher.	string
Path	name <i>required</i>	Unique name of the File Events Publisher.	string

Responses

HTTP Code	Description	Schema
200	Success	file_events_publisher_instance
404	Not Found	error_response

DELETE /file_events_publisher/{id}

DELETE /file_events_publisher/name:{name}

Description

Delete file events publisher. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file events publisher.	string
Path	name <i>required</i>	Unique name of the file events publisher.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /file_events_publisher/{id}

PATCH /file_events_publisher/name:{name}

Description

Modify a file events publisher. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file events publisher.	string
Path	name <i>required</i>	Unique name of the file events publisher.	string
Body	body <i>required</i>		file_events_publisher_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

file_ftp

Use this resource type to configure one File Transfer Protocol (FTP) server per NAS server. One FTP server can be configured per NAS server to have both secure and unsecure services running. By default when an FTP server is created, the unsecure service will be running. FTP is a standard network protocol used to transfer files from one host to another host over a TCP-based network, such as the Internet. For secure transmission that encrypts the username, password, and content, FTP is secured with SSH (SFTP). SFTP listens on port 22. You can activate an FTP server and SFTP server independently on each NAS server. The FTP and SFTP clients are authenticated using credentials defined on a Unix name server (such as an NIS server or an LDAP server) or a Windows domain. Windows user names need to be entered using the 'username@domain' or 'domain\\username' formats. Each secure and unsecure service must have a home directory defined in the name server that must be accessible on the NAS server. FTP also allows clients to connect as anonymous users.

GET /file_ftp

Description

Query FTP/SFTP instances.

Responses

HTTP Code	Description	Schema
200	Success	< file_ftp_instance > array
206	Partial content of file ftp instance objects	< file_ftp_instance > array

POST /file_ftp

Description

Create an FTP/SFTP server.

Parameters

Type	Name	Schema
Body	body <i>required</i>	file_ftp_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /file_ftp/{id}

Description

Query a specific FTP/SFTP server for its settings.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the FTP/SFTP Server object.	string

Responses

HTTP Code	Description	Schema
200	Success	file_ftp_instance
404	Not Found	error_response

DELETE /file_ftp/{id}

Description

Delete an FTP/SFTP Server.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the FTP/SFTP Server object.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /file_ftp/{id}

Description

Modify an FTP/SFTP server settings.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the FTP/SFTP Server object.	string
Body	body <i>required</i>		file_ftp_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

file_import_interface

Information about File import interfaces in the storage system.

GET /file_import_interface

Description

Query file import interfaces. Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< file_import_interface_instance > array
206	Partial content of file import interface instance objects	< file_import_interface_instance > array

POST /file_import_interface

Description

Create a file import interface. Was added in version 3.0.0.0.

Parameters

Type	Name	Schema
Body	body <i>required</i>	file_import_interface_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /file_import_interface/{id}

Description

Query a specific file import interface. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file import interface.	string

Responses

HTTP Code	Description	Schema
200	Success	file_import_interface_instance
404	Not Found	error_response

DELETE /file_import_interface/{id}

Description

Delete a file import interface. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file import interface.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /file_import_interface/{id}

Description

Modify the settings of a file import interface. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file import interface.	string
Body	body <i>required</i>		file_import_interface_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

file_import_nas_server

Import Source NAS Server on remote storage system.

GET /file_import_nas_server

Description

Query importable source NAS servers discovered on existing remote systems. Was added in version 3.0.0.0. This resource type collection query does not support filtering, sorting or pagination.

Responses

HTTP Code	Description	Schema
200	Success.	< file_import_nas_server_instance > array
206	Partial content of file import nas server instance objects	< file_import_nas_server_instance > array

GET /file_import_nas_server/{id}

Description

Query a specific discovered File Import NAS Server. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of a File Import NAS Server of the remote system.	string

Responses

HTTP Code	Description	Schema
200	Success	file_import_nas_server_instance
404	Not Found	error_response

file_import_session

Use the file_import_session resource type to initiate and manage the migration of file/NAS server from a heritage Dell storage system to a PowerStore storage system. The import is non-disruptive to hosts that access the file during the import. The import process runs as a background job. Clients should poll the job status until the import completes.

GET /file_import_session

Description

Query of the File Import Session. Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success.	< file_import_session_instance > array
206	Partial content of file import session instance objects	< file_import_session_instance > array

POST /file_import_session

Description

Create a new file import session to import the source file/NAS server discovered via the source file import storage system. The source storage system must be added prior to creating a file import session. The basic configuration (NAS server name, filesystems, production interfaces) of the source file server must not change after the file import session is created.

Was added in version 3.0.0.0.

Parameters

Type	Name	Schema
Body	body <i>required</i>	file_import_session_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /file_import_session/{id}

GET /file_import_session/name:{name}

Description

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file import session.	string
Path	name <i>required</i>	Unique name of the file import session.	string

Responses

HTTP Code	Description	Schema
200	Success	file_import_session_instance
404	Not Found	error_response

DELETE /file_import_session/{id}

DELETE /file_import_session/name:{name}

Description

Delete an File import session. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the File import session.	string
Path	name <i>required</i>	Unique name of the File import session.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /file_import_session/{id}

PATCH /file_import_session/name:{name}

Description

Modify the properties of the file import session. The new SMB administrator credentials are validated if the destination NAS Server and the destination import file interface have already been created. The new credentials become effective immediately.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file import session.	string
Path	name <i>required</i>	Unique name of the file import session.	string
Body	body <i>required</i>		file_import_session_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /file_import_session/{id}/cancel

POST /file_import_session/name:{name}/cancel

Description

Cancel an ongoing file import session. The action can be performed at any state of the file import session except in the 'Completed', 'Cancelling' and 'Cancelled' states. Any other ongoing operation on the file import session is terminated immediately. If it happens during/after 'Cutting_Over' state, clients are switched back to the source system (may be disruptive). The source system is cleaned up, the destination NAS server and all imported objects including filesystems are deleted. When cancel is complete the state of the file import session is changed to 'Completed' which is a terminal state. Cancel can be forced if the source system is unresponsive.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file import session	string
Path	name <i>required</i>	Unique name of the file import session	string
Body	body <i>optional</i>		file_import_session_cancel

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /file_import_session/{id}/cutover

POST /file_import_session/name:{name}/cutover

Description

Cutover a file import session that is during 'Ready_For_Cutover'. Cutover may cause a temporary data unavailability to the NAS clients. During cutover the production file interfaces are disabled on the source system and are enabled on the destination system. In case of SMB import, the switchover is disruptive for the clients and the Active Directory configuration is imported if needed. In case of NFS import, the switchover is transparent as file handles are preserved, NLM locks are reclaimed on the destination. The incremental background data copy operation begins after the cutover completes. The filesystem data is moved to the destination in the background. The destination system serves the clients; data requested by the client is synced immediately; write operations are synced back to the source system before acknowledging, so the source remains authoritative and a rollback is possible at any moment. I/O throughput is degraded at this stage. The service is interrupted if the source data becomes unavailable. When all files are synced, the status of the file import session is changed to 'Ready_For_Commit'. If cutover operation fails, a rollback is attempted and clients are switched back to the source system (may be disruptive). If it succeeds, the operation becomes 'Ready_For_Cutover' again and the operation can be retried. If it fails, the file import session cleans up the destination resources of the import and enters the 'Failed' state.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file import session	string
Path	name <i>required</i>	Unique name of the file import session	string

Type	Name	Description	Schema
Body	body <i>optional</i>		file_import_session_cutover

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /file_import_session/{id}/pause

POST /file_import_session/name:{name}/pause

Description

Pause an ongoing file import session during 'Initial_Copy' or 'Incremental_Copy' operations. When this occurs, the background data transfer stops, but I/O to the source continues if the file import session during 'Incremental_Copy'. A paused import session can be resumed or cancelled.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file import session.	string
Path	name <i>required</i>	Unique name of the file import session.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /file_import_session/{id}/resume

POST /file_import_session/name:{name}/resume

Description

File import session can be resumed from Paused state during Initial_Copy and Incremental_Copy stages. To recover from Failed state during Initial_Provisioning, Initial_Copy, Importing_Config, and Incremental_Copy stages.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file import session.	string
Path	name <i>required</i>	Unique name of the file import session.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /file_import_session/{id}/report

POST /file_import_session/name:{name}/report

Description

Provides a detailed report on the file import session. Report can be used at any time or session state until the session is deleted.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file import session.	string
Path	name <i>required</i>	Unique name of the file import session.	string

Responses

HTTP Code	Description	Schema
204	Success	file_import_session_report_response
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /file_import_session/{id}/commit

POST /file_import_session/name:{name}/commit

Description

Commit a file import session to complete the import. The operation is valid only during 'Ready_For_Commit', when all filesystem data has been synchronized with the source. During commit, the data connection between the source and the destination import file interface is dropped, and the sync of write data to the source system is stopped. The destination system becomes independent and the source system is cleaned up. When commit is complete the state of the file import session is changed to 'Completed'. Commit can be forced if the source system becomes unresponsive.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file import session.	string
Path	name <i>required</i>	Unique name of the file import session.	string
Body	body <i>optional</i>		file_import_session_commit

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /file_import_session/{id}/destination_objects_sync

POST /file_import_session/name:{name}/destination_objects_sync

Description

Synchronize new NAS objects created on SDNAS due to file import session into Trident CP DB.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file import session.	string
Path	name <i>required</i>	Unique name of the file import session.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

file_interface

Information about File network interfaces in the storage system. These interfaces control access to Windows (CIFS) and UNIX/Linux (NFS) file storage.

GET /file_interface

Description

Query file interfaces.

Responses

HTTP Code	Description	Schema
200	Success	< file_interface_instance > array
206	Partial content of file interface instance objects	< file_interface_instance > array

POST /file_interface

Description

Create a file interface. It is recommended to provide "ip_port_id" to configure the interface for a DRT(Disaster Recovery Testing) enabled nas_server. Please refer nas_server clone operation for DRT information.

Parameters

Type	Name	Schema
Body	body <i>required</i>	file_interface_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /file_interface/{id}

GET /file_interface/name:{name}

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file interface.	string
Path	name <i>required</i>	Unique name of the file interface.	string

Responses

HTTP Code	Description	Schema
200	Success	file_interface_instance
404	Not Found	error_response

DELETE /file_interface/{id}

DELETE /file_interface/name:{name}

Description

Delete a file interface.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file interface.	string
Path	name <i>required</i>	Unique name of the file interface.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /file_interface/{id}

PATCH /file_interface/name:{name}

Description

Modify the settings of a file interface.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file interface.	string
Path	name <i>required</i>	Unique name of the file interface.	string

Type	Name	Description	Schema
Body	body <i>required</i>		file_interface_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

file_interface_route

Use this resource type to manage static IP routes, including creating, modifying, and deleting these routes.

A route determines where to send a packet, next so it can reach its final destination. A static route is set explicitly and does not automatically adapt to the changing network infrastructure. A route is defined by an interface, destination IP address range and an IP address of a corresponding gateway.

Note: IP routes connect an interface (IP address) to the larger network through gateways. Without routes and gateway specified, the interface is no longer accessible outside of its immediate subnet. As a result, network shares and exports associated with the interface are no longer available to clients outside their immediate subnet.

GET /file_interface_route

Description

Query file interface routes.

Responses

HTTP Code	Description	Schema
200	Success	< file_interface_route_instance > array

HTTP Code	Description	Schema
206	Partial content of file interface route instance objects	< file_interface_route_instance > array

POST /file_interface_route

Description

Create and configure a new file interface route. There are three types of routes - Subnet, Default, and Host.

- A default route establishes a static route to a default gateway. To create a default route, specify gateway value for the related file interface.
- A host route establishes a static route to a specific host. To create a host route, provide the IP address of the specific host in the destination field, and the gateway.
- A subnet route establishes a static route to a particular subnet. To create a subnet route, provide the IP address of the target subnet in the destination, the prefix length for that subnet, and the gateway.

Parameters

Type	Name	Schema
Body	body <i>required</i>	file_interface_route_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /file_interface_route/{id}

Description

Query a specific file interface route for details.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file interface route object.	string

Responses

HTTP Code	Description	Schema
200	Success	file_interface_route_instance
404	Not Found	error_response

DELETE /file_interface_route/{id}

Description

Delete file interface route.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file interface route object.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /file_interface_route/{id}

Description

Modify file interface route settings.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file interface route object.	string
Body	body <i>required</i>		file_interface_route_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

file_io_limit_rule

REST APIs to manage file IO limit rules for File Quality of Service (QoS). This provides the ability to set a bandwidth limit for a `file_system` or `nas_server`. When applied to a `nas_server`, all the `file_systems` of the `nas_server` share the maximum bandwidth. If an individual `file_system` on such a `nas_server` also has an individual limit, both will apply, and whichever is reached first will limit IO to that `file_system`.

GET /file_io_limit_rule

Description

Query `file_io_limit_rule` instances. Was added in version 4.1.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< file_io_limit_rule_instance > array
206	Partial content of file io limit rule instance objects	< file_io_limit_rule_instance > array

POST /file_io_limit_rule

Description

Create a `file_io_limit_rule`. Was added in version 4.1.0.0.

Parameters

Type	Name	Schema
Body	body <i>required</i>	file_io_limit_rule_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /file_io_limit_rule/{id}

GET /file_io_limit_rule/name:{name}

Description

Query a specific `file_io_limit_rule`. Was added in version 4.1.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file_io_limit_rule instance.	string
Path	name <i>required</i>	Unique name of the file_io_limit_rule instance.	string Was added in version 4.1.0.0.

Responses

HTTP Code	Description	Schema
200	Success	file_io_limit_rule_instance
404	Not Found	error_response

DELETE /file_io_limit_rule/{id}

DELETE /file_io_limit_rule/name:{name}

Description

Remove a file_io_limit_rule. A file_io_limit_rule cannot be deleted if it is used in a policy that is associated with any nas_server or file_system.

Was added in version 4.1.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file_io_limit_rule instance.	string
Path	name <i>required</i>	Unique name of the file_io_limit_rule instance.	string Was added in version 4.1.0.0.

Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /file_io_limit_rule/{id}

PATCH /file_io_limit_rule/name:{name}

Description

Modify a file_io_limit_rule. Was added in version 4.1.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file_io_limit_rule instance.	string
Path	name <i>required</i>	Unique name of the file_io_limit_rule instance.	string Was added in version 4.1.0.0.
string	Body	body <i>required</i>	

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

file_kerberos

Use these resources to manage the Kerberos service for a NAS server. One Kerberos service object may be configured per NAS Server. Kerberos is a distributed authentication service designed to provide strong authentication with secret-key cryptography. It works on the basis of "tickets" that allow nodes communicating over a non-secure network to prove their identity in a secure manner. When configured to act as a secure NFS server, the NAS Server uses the RPCSEC_GSS security framework and Kerberos authentication protocol to verify users and services. You can configure a secure NFS environment for a multiprotocol NAS Server or one that supports Unix-only shares. In this environment, user access to NFS file systems is granted based on Kerberos principal names.

GET /file_kerberos

Description

Query of the Kerberos service settings of NAS Servers.

Responses

HTTP Code	Description	Schema
200	Success.	< file_kerberos_instance > array
206	Partial content of file kerberos instance objects	< file_kerberos_instance > array

POST /file_kerberos

Description

Create a Kerberos configuration. The operation will fail if a Kerberos configuration already exists.

Parameters

Type	Name	Schema
Body	body <i>required</i>	file_kerberos_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /file_kerberos/{id}

Description

Query a specific Kerberos service settings of a NAS Server.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Kerberos service object.	string

Responses

HTTP Code	Description	Schema
200	Success	file_kerberos_instance
404	Not Found	error_response

DELETE /file_kerberos/{id}

Description

Delete Kerberos configuration of a NAS Server.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the Kerberos service object.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /file_kerberos/{id}

Description

Modify the Kerberos service settings of a NAS Server.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the Kerberos service object.	string
Body	body <i>required</i>		file_kerberos_modify

Responses

HTTP Code	Description	Schema
204	Success.	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /file_kerberos/{id}/upload_keytab

Description

A keytab file is required for secure NFS service with a Linux or Unix Kerberos Key Distribution Center (KDC). The keytab file can be generated using the KDC server.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the Kerberos service object.	string
FormData	body <i>optional</i>		file

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- `multipart/form-data`

GET /file_kerberos/{id}/download_keytab

Description

Download previously uploaded keytab file for secure NFS service.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the Kerberos service object.	string

Responses

HTTP Code	Description	Schema
200	Ok	file_kerberos_keytab_file
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/binary](#)

file_ldap

Use these resources to manage the Lightweight Directory Access Protocol (LDAP) settings for the NAS Server. You can configure one LDAP settings object per NAS Server. LDAP is an application protocol for querying and modifying directory services running on TCP/IP networks. LDAP provides central management for network authentication and authorization operations by helping to centralize user and group management across the network. A NAS Server can use LDAP as a Unix Directory Service to map users, retrieve netgroups, and build a Unix credential. When an initial LDAP configuration is applied, the system checks for the type of LDAP server. It can be an Active Directory schema or an RFC 2307 schema.

GET /file_ldap

Description

List LDAP Service instances.

Responses

HTTP Code	Description	Schema
200	Success	< file_ldap_instance > array
206	Partial content of file ldap instance objects	< file_ldap_instance > array

POST /file_ldap

Description

Create an LDAP service on a NAS Server. Only one LDAP Service object can be created per NAS Server.

Parameters

Type	Name	Description	Schema
Body	body <i>required</i>	Name of the LDAP service to create.	file_ldap_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /file_ldap/{id}

Description

Query a specific NAS Server's LDAP settings object.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the LDAP settings object.	string

Responses

HTTP Code	Description	Schema
200	Success	file_ldap_instance
404	Not Found	error_response

DELETE /file_ldap/{id}

Description

Delete a NAS Server's LDAP settings.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	LDAP settings object Id.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /file_ldap/{id}

Description

Modify a NAS Server's LDAP settings object.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the LDAP settings object id.	string
Body	body <i>required</i>		file_ldap_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /file_ldap/{id}/upload_config

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the LDAP settings object.	string
FormData	body <i>required</i>		file

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- `multipart/form-data`

GET /file_ldap/{id}/download_config

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the LDAP settings object.	string

Responses

HTTP Code	Description	Schema
200	Success	No Content
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [document/text](#)

POST /file_ldap/{id}/upload_certificate

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the LDAP settings object.	string
FormData	body <i>required</i>		file

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- `multipart/form-data`

GET /file_ldap/{id}/download_certificate

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the LDAP settings object.	string

Responses

HTTP Code	Description	Schema
200	Success	No Content
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- `document/text`

file_ndmp

Use this resource type to manage NDMP services. NDMP is a standard for backing up file servers on a network. NDMP allows centralized applications to back up file servers that run on various platforms and platform versions. NDMP reduces network congestion by isolating control path traffic from data path traffic, which permits centrally managed and monitored local backup operations. Storage systems support NDMP v2-v4 over the network. Direct-attach NDMP is not supported. This means that the tape drives need to be connected to a media server, and the NAS server communicates with the media server over the network. NDMP has an advantage when using multiprotocol file systems because it backs up the Windows ACLs as well as the UNIX security information.

GET /file_ndmp

Description

Query configured NDMP service instances.

Responses

HTTP Code	Description	Schema
200	Success	file_ndmp_instance > array
206	Partial content of file ndmp instance objects	file_ndmp_instance > array

POST /file_ndmp

Description

Add an NDMP service configuration to a NAS server. Only one NDMP service object can be configured per NAS server.

Parameters

Type	Name	Schema
Body	body <i>required</i>	file_ndmp_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /file_ndmp/{id}

Description

Query an NDMP service configuration instance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NDMP service object.	string

Responses

HTTP Code	Description	Schema
200	Success	file_ndmp_instance
404	Not Found	error_response

DELETE /file_ndmp/{id}

Description

Delete an NDMP service configuration instance of a NAS Server.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NDMP service object.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /file_ndmp/{id}

Description

Modify an NDMP service configuration instance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NDMP service object.	string
Body	body <i>required</i>		file_ndmp_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

file_nis

Use these resources to manage the Network Information Service (NIS) settings object for a NAS Server. One NIS settings object may be configured per NAS server. NIS consists of a directory service protocol for maintaining and distributing system configuration information, such as user and group information, hostnames, and such. The port for NIS Service is 111.

GET /file_nis

Description

Query the NIS settings of NAS Servers.

Responses

HTTP Code	Description	Schema
200	Success.	< file_nis_instance > array
206	Partial content of file nis instance objects	< file_nis_instance > array

POST /file_nis

Description

Create a new NIS Service on a NAS Server. Only one NIS Setting object can be created per NAS Server.

Parameters

Type	Name	Schema
Body	body <i>required</i>	file_nis_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /file_nis/{id}

Description

Query a specific NIS settings object of a NAS Server.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NIS object.	string

Responses

HTTP Code	Description	Schema
200	Success	file_nis_instance
404	Not Found	error_response

DELETE /file_nis/{id}

Description

Delete NIS settings of a NAS Server.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NIS object.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /file_nis/{id}

Description

Modify the NIS settings of a NAS Server.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NIS object.	string
Body	body <i>required</i>		file_nis_modify

Responses

HTTP Code	Description	Schema
204	Success.	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

file_system

Use this resource type to manage NAS file systems.

GET /file_system

Description

Query file systems.

Responses

HTTP Code	Description	Schema
200	Success	< file_system_instance > array
206	Partial content of file system instance objects	< file_system_instance > array

POST /file_system

Description

Create a file system.

Parameters

Type	Name	Schema
Body	body <i>required</i>	file_system_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /file_system/{id}

GET /file_system/name:{name}

Description

Query a specific file system.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file system.	string
Path	name <i>required</i>	Unique name of the file system.	string

Responses

HTTP Code	Description	Schema
200	Success	file_system_instance
404	Not Found	error_response

DELETE /file_system/{id}

DELETE /file_system/name:{name}

Description

Delete a file system.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file system.	string
Path	name <i>required</i>	Unique name of the file system.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /file_system/{id}

PATCH /file_system/name:{name}

Description

Modify a file system.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file system.	string
Path	name <i>required</i>	Unique name of the file system.	string
Body	body <i>required</i>		file_system_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /file_system/{id}/clone

POST /file_system/name:{name}/clone

Description

Create a clone of a file system.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file system.	string
Path	name <i>required</i>	Unique name of the file system.	string
Body	body <i>required</i>		file_system_clone

Responses

HTTP Code	Description	Schema
200	Created	file_system_clone_response
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response

HTTP Code	Description	Schema
422	Operation Failed	error_response

POST /file_system/{id}/snapshot

POST /file_system/name:{name}/snapshot

Description

Create a snapshot of a file system.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file system.	string
Path	name <i>required</i>	Unique name of the file system.	string
Body	body <i>optional</i>		file_system_snapshot

Responses

HTTP Code	Description	Schema
200	Success	file_system_snapshot_response
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /file_system/{id}/refresh

POST /file_system/name:{name}/refresh

Description

Refresh a snapshot of a file system. The content of the snapshot is replaced with the current content of the parent file system.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file system snapshot.	string
Path	name <i>required</i>	Unique name of the file system snapshot.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /file_system/{id}/restore

POST /file_system/name:{name}/restore

Description

Restore from a snapshot of a file system. Success responses indicates the following:

- 200** Success with backup snapshot.
- 204** Success without backup snapshot.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file system snapshot.	string
Path	name <i>required</i>	Unique name of the file system snapshot.	string
Body	body <i>optional</i>		file_system_restore

Responses

HTTP Code	Description	Schema
200	Success	file_system_restore_response
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /file_system/{id}/refresh_quota

POST /file_system/name:{name}/refresh_quota

Description

Refresh the actual content of tree and user quotas objects.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file system.	string
Path	name <i>required</i>	Unique name of the file system.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

file_tree_quota

Use this resource type to manage tree quota settings in the storage system. A tree quota instance represents a quota limit applied to a specific directory tree in a file system.

GET /file_tree_quota

Description

Query tree quota instances.

Responses

HTTP Code	Description	Schema
200	Success	< file_tree_quota_instance > array
206	Partial content of file tree quota instance objects	< file_tree_quota_instance > array

POST /file_tree_quota

Description

Create a tree quota instance.

Parameters

Type	Name	Schema
Body	body <i>required</i>	file_tree_quota_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /file_tree_quota/{id}

Description

Query a tree quota instance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the tree quota.	string

Responses

HTTP Code	Description	Schema
200	Success	file_tree_quota_instance
404	Not Found	error_response

DELETE /file_tree_quota/{id}

Description

Delete a tree quota instance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the tree quota.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /file_tree_quota/{id}

Description

Modify a tree quota instance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the tree quota.	string
Body	body <i>required</i>		file_tree_quota_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response

HTTP Code	Description	Schema
422	Operation Failed	error_response

POST /file_tree_quota/{id}/refresh

Description

Refresh the cache with the actual value of the tree quota.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the tree quota.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

file_user_quota

User quota settings in the storage system. A user quota instance represents a quota limit applied to a user within a quota tree or a filesystem.

GET /file_user_quota

Description

List user quota instances.

Responses

HTTP Code	Description	Schema
200	Success	< file_user_quota_instance > array
206	Partial content of file user quota instance objects	< file_user_quota_instance > array

POST /file_user_quota

Description

Create a user quota instance.

Parameters

Type	Name	Schema
Body	body <i>required</i>	file_user_quota_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /file_user_quota/{id}

Description

Query a user quota instance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file user quota.	string

Responses

HTTP Code	Description	Schema
200	Success	file_user_quota_instance
404	Not Found	error_response

PATCH /file_user_quota/{id}

Description

Modify a user quota instance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file user quota.	string
Body	body <i>required</i>		file_user_quota_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /file_user_quota/{id}/refresh

Description

Refresh the cache with the actual value of the user quota.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the file user quota.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

file_virus_checker

Use these resource types to manage the virus checker service of a NAS server. A virus checker instance is created each time the anti-virus service is enabled on a NAS server. A configuration file (named viruschecker.conf) needs to be uploaded before enabling the anti-virus service. The cluster supports third-party anti-virus servers that perform virus scans and reports back to the storage system. For example, when an SMB client creates, moves, or modifies a file, the NAS server invokes the anti-virus server to scan the file for known viruses. During the scan any access to this file is blocked. If the file does not contain a virus, it is written to the file system. If the file is infected, corrective action (fixed, removed or placed in quarantine) is taken as defined by the anti-virus server. You can optionally set up the service to scan the file on read access based on last access of the file compared to last update of the third-party anti-virus date.

GET /file_virus_checker

Description

Query all virus checker settings of the NAS Servers.

Responses

HTTP Code	Description	Schema
200	Success	< file_virus_checker_instance > array

HTTP Code	Description	Schema
206	Partial content of file virus checker instance objects	< file_virus_checker_instance > array

POST /file_virus_checker

Description

Add a new virus checker setting to a NAS Server. Only one instance can be created per NAS Server. Workflow to enable the virus checker settings on the NAS Server is as follows: \n 1. Create a virus checker instance on NAS Server. 2. Download template virus checker configuration file. 3. Edit the configuration file with virus checker configuration details. 4. Upload the configuration file. 5. Enable the virus checker on the NAS Server.

Parameters

Type	Name	Schema
Body	body <i>required</i>	file_virus_checker_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /file_virus_checker/{id}

Description

Query a specific virus checker setting of a NAS Server.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the virus checker instance.	string

Responses

HTTP Code	Description	Schema
200	Success	file_virus_checker_instance
404	Not Found	error_response

DELETE /file_virus_checker/{id}

Description

Delete virus checker settings of a NAS Server.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the virus checker instance.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /file_virus_checker/{id}

Description

Modify the virus checker settings of a NAS Server.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the virus checker instance.	string
Body	body <i>required</i>		file_virus_checker_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /file_virus_checker/{id}/upload_config

Description

Upload a virus checker configuration file containing the virus checker configuration settings.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the virus checker instance.	string
FormData	body <i>optional</i>	Upload virus checker configuration file.	file

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response

HTTP Code	Description	Schema
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- `multipart/form-data`

GET /file_virus_checker/{id}/download_config

Description

Download a virus checker configuration file containing the template or the actual (if already uploaded) virus checker configuration settings.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the virus checker instance.	string

Responses

HTTP Code	Description	Schema
200	Ok	No Content
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- `document/text`

POST /file_virus_checker/{id}/start_scan

Description

Start a full file system scan, you can monitor the scan status with the status API. Note that only read-write file systems can be scanned for viruses. During the scan, only files matching the masks configuration of the virus checker object are sent to the checker.

Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the virus checker instance.	string
Body	body <i>required</i>		file_virus_checker_start_scan

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /file_virus_checker/{id}/stop_scan

Description

Stop virus scan. Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the virus checker instance.	string
Body	body <i>required</i>		file_virus_checker_stop_scan

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /file_virus_checker/{id}/scan_status

Description

Get information about a running anti virus scan. Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the virus checker instance.	string
Body	body <i>required</i>		file_virus_checker_scan_status

Responses

HTTP Code	Description	Schema
200	Success	file_virus_checker_scan_status_response
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /file_virus_checker/{id}/get_viruschecker_audit_info

Description

Get CAVA servers audit information.. Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the virus checker instance.	string

Responses

HTTP Code	Description	Schema
200	Success	file_virus_checker_get_viruschecker_audit_info_response
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /file_virus_checker/{id}/add_privileged_account

Description

Add an account that will be allowed full read access to all shares of the nas_server (aka AV privilege). If the AV privilege is set while CAVA service on CAVA server is enabled, CAVA service must be restarted by disabling it and enabling it in order to take into account the privilege change.

Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the virus checker instance.	string

Type	Name	Description	Schema
Body	body <i>required</i>		file_virus_checker_add_privileged_account

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /file_virus_checker/{id}/remove_privileged_account

Description

The Virus Checker of the NAS server can revoke special permission of skipping the scan to user/domain account by removing account as privileged account.

Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the virus checker instance.	string
Body	body <i>required</i>		file_virus_checker_remove_privileged_account

Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /file_virus_checker/{id}/get_privileged_accounts

Description

Get the list of accounts that are allowed full read access to all shares of the nas_server (aka AV privilege). Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the virus checker instance.	string

Responses

HTTP Code	Description	Schema
200	Success	file_virus_checker_get_privileged_accounts_response
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

fsn

Use this resource type to query fail-safe network configurations.

GET /fsn

Description

Query fail-safe networks. Was added in version 3.5.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< fsn_instance > array
206	Partial content of fsn instance objects	< fsn_instance > array

POST /fsn

Description

Create a fail-safe network.

Was added in version 3.5.0.0.

Parameters

Type	Name	Schema
Body	body <i>required</i>	fsn_create

Responses

HTTP Code	Description	Schema
201	Success	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /fsn/{id}

GET /fsn/name:{name}

Description

Query a specific fail-safe network configuration. Was added in version 3.5.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the FSN.	string
Path	name <i>required</i>	Unique name of the FSN.	string

Responses

HTTP Code	Description	Schema
200	Success	fsn_instance
404	Not Found	error_response

Consumes

- `application/json`

Produces

- `application/json`

Example HTTP response

Response 200

```
{
  "id" : "FSN0",
  "partner_id" : "FSN1",
  "name" : "BaseEnclosure-NodeA-fsn0",
  "is_link_up" : true,
  "status" : "Healthy",
  "description" : "My fail-safe network.",
  "mtu" : 1500,
  "primary_port_id" : "BOND3",
  "active_port_id" : "BOND4"
}
```


DELETE /fsn/{id}

DELETE /fsn/name:{name}

Description

Delete a fail-safe network. Was added in version 3.5.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the FSN.	string
Path	name <i>required</i>	Unique name of the FSN.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /fsn/{id}

PATCH /fsn/name:{name}

Description

Modify a fail-safe network. Was added in version 3.5.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the FSN.	string

Type	Name	Description	Schema
Path	name <i>required</i>	Unique name of the FSN.	string
Body	body <i>required</i>		fsn_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

hardware

This provides the hardware component inventory of the system.

GET /hardware

Description

Query hardware components

Responses

HTTP Code	Description	Schema
200	Success	< hardware_instance > array
206	Partial content of hardware instance objects	< hardware_instance > array

Produces

- `application/json`

GET /hardware/{id}

GET /hardware/name:{name}

Description

Get a specific hardware component instance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique id of hardware component to get.	string
Path	name <i>required</i>	Unique name of hardware component to get.	string

Responses

HTTP Code	Description	Schema
200	Success	hardware_instance
404	Not Found	error_response

Produces

- `application/json`

PATCH /hardware/{id}

PATCH /hardware/name:{name}

Description

Modify a hardware instance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	The hardware component to modify.	string
Path	name <i>required</i>	The hardware component to modify.	string
Body	body <i>required</i>		hardware_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- `application/json`

Produces

- `application/json`

POST /hardware/{id}/drive_repurpose

POST /hardware/name:{name}/drive_repurpose

Description

A drive that has been used in a different appliance will be locked for use only in that appliance. This operation will allow a locked drive to be used in the current appliance. All data on the drive will become unrecoverable. It will fail if the drive is not locked to a different appliance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Identifier of the drive to repurpose.	string
Path	name <i>required</i>	Name of the drive to repurpose.	string
Body	body <i>required</i>	Fields required to repurpose the specified drive.	hardware_drive_repurpose

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

POST /hardware/{id}/upgrade

POST /hardware/name:{name}/upgrade

Description

Perform a hardware upgrade on the specified hardware component. An upgrade transforms a component from one model to a different model. Currently, only appliances can be upgraded.

Was added in version 3.6.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Identifier of the conversion process.	string

Type	Name	Description	Schema
Path	name <i>required</i>	Name of the conversion process.	string
Body	body <i>required</i>	Fields required to conversion process.	hardware_upgrade

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

POST /hardware/{id}/validate_upgrade

POST /hardware/name:{name}/validate_upgrade

Description

Validate the hardware upgrade process to determine whether an upgrade can be performed on this hardware component. The response includes any detected issues.

Was added in version 3.6.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Identifier of the validation of the hardware upgrade process.	string
Path	name <i>required</i>	Name of the validation of the hardware upgrade process.	string

Type	Name	Description	Schema
Body	body <i>required</i>	Checks whether a hardware upgrade can be successfully performed.	hardware_validate_upgrade

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

host

Use this resource type to manage hosts that access the cluster. Only External type hosts can be managed directly, Internal type hosts are managed automatically by the system and cannot be created, deleted, modified, nor can their storage associations.

GET /host

Description

Query hosts

Responses

HTTP Code	Description	Schema
200	Success	< host_instance > array
206	Partial content of host instance objects	< host_instance > array

Produces

- `application/json`

POST /host

Description

Add a host.

Parameters

Type	Name	Schema
Body	body <i>required</i>	host_create

Responses

HTTP Code	Description	Schema
201	Success	create_response
400	Invalid request	error_response
422	Operation Failed	error_response

Consumes

- `application/json`

Produces

- `application/json`

GET /host/{id}

GET /host/name:{name}

Description

Query details about a specific host.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the host.	string
Path	name <i>required</i>	Unique name of the host.	string

Responses

HTTP Code	Description	Schema
200	Success	host_instance
404	Not Found	error_response

Produces

- [application/json](#)

DELETE /host/{id}

DELETE /host/name:{name}

Description

Delete a host. Delete fails if host is attached to a volume or consistency group.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the host.	string
Path	name <i>required</i>	Unique name of the host.	string
Body	body <i>optional</i>		host_delete

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Input	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

PATCH /host/{id}

PATCH /host/name:{name}

Description

Modify a host. Only one of add, remove and update initiator operations are supported in a single request.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the host.	string
Path	name <i>required</i>	Unique name of the host.	string
Body	body <i>required</i>		host_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response

HTTP Code	Description	Schema
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

POST /host/{id}/attach

POST /host/name:{name}/attach

Description

Attach host to volume.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the host.	string
Path	name <i>required</i>	Unique name of the host.	string
Body	body <i>required</i>		host_attach

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- `application/json`

POST /host/{id}/detach

POST /host/name:{name}/detach

Description

Detach host from volume.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the host.	string
Path	name <i>required</i>	Unique name of the host.	string
Body	body <i>required</i>		host_detach

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- `application/json`

host_group

Use this resource type to manage host groups.

A host group is a mechanism to provision hosts and volumes to be consistent across the Cyclone

cluster. Operations that can be performed include, creating or deleting a host group, modifying host group (i.e. adding or removing hosts from a host group).

GET /host_group

Description

Query host groups

Responses

HTTP Code	Description	Schema
200	Success	< host_group_instance > array
206	Partial content of host group instance objects	< host_group_instance > array

Produces

- [application/json](#)

POST /host_group

Description

Create a host group. The hosts added to a host group at creation time determine the value of the host_connectivity attribute. If all hosts added during the create operation do not have the same values for this attribute, this operation will fail.

Parameters

Type	Name	Schema
Body	body <i>required</i>	host_group_create

Responses

HTTP Code	Description	Schema
201	Created	create_response

HTTP Code	Description	Schema
400	Invalid request	error_response
422	Operation Failed	error_response

Consumes

- [application/json](#)

Produces

- [application/json](#)

GET /host_group/{id}

GET /host_group/name:{name}

Description

Get details about a specific host group.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the host group.	string
Path	name <i>required</i>	Unique name of the host group.	string

Responses

HTTP Code	Description	Schema
200	Success	host_group_instance
404	Not Found	error_response

Produces

- [application/json](#)

DELETE /host_group/{id}

DELETE /host_group/name:{name}

Description

Delete a host group. Delete fails if host group is attached to a volume.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the host group.	string
Path	name <i>required</i>	Unique name of the host group.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

PATCH /host_group/{id}

PATCH /host_group/name:{name}

Description

Modify a host group. Modify does not support rename and add or modify at the same time. Similar to create, adding additional hosts where the host_connectivity attribute does not match the existing value of the host group will cause the operation to fail. Modifying the host_connectivity attribute will cause all hosts in the host group to take on these same values. The host_connectivity attribute may not be modified when adding or removing hosts from the host group.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the host group.	string
Path	name <i>required</i>	Unique name of the host group.	string
Body	body <i>required</i>		host_group_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

POST /host_group/{id}/attach

POST /host_group/name:{name}/attach

Description

Attach host group to volume.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the host group.	string
Path	name <i>required</i>	Unique name of the host group.	string

Type	Name	Description	Schema
Body	body <i>required</i>		host_group_attach

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

POST /host_group/{id}/detach

POST /host_group/name:{name}/detach

Description

Detach host group from volume.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the host group.	string
Path	name <i>required</i>	Unique name of the host group.	string
Body	body <i>required</i>		host_group_detach

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

host_virtual_volume_mapping

Virtual volume mapping details.

GET /host_virtual_volume_mapping

Description

Query associations between a virtual volume and the host(s) it is attached to.

Responses

HTTP Code	Description	Schema
200	Success	< host_virtual_volume_mapping_instance > array
206	Partial content of host virtual volume mapping instance objects	< host_virtual_volume_mapping_instance > array

GET /host_virtual_volume_mapping/{id}

Description

Query a specific virtual volume mapping.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the virtual volume mapping.	string

Responses

HTTP Code	Description	Schema
200	Success	host_virtual_volume_mapping_instance
404	Not Found	error_response

host_volume_mapping

Storage cluster REST API definition.

GET /host_volume_mapping

Description

Query associations between a volume and the host or host group it is attached to.

Responses

HTTP Code	Description	Schema
200	Success	host_volume_mapping_instance > array
206	Partial content of host volume mapping instance objects	host_volume_mapping_instance > array

GET /host_volume_mapping/{id}

Description

Query a specific host volume mapping.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the host volume mapping to query.	string

Responses

HTTP Code	Description	Schema
200	Success	host_volume_mapping_instance
404	Not Found	error_response

import_host_initiator

Use these resource types to manage import host initiators. Once import host is configured, host initiators can be queried and corresponding mapped volumes can be imported.

GET /import_host_initiator

Description

Query import host initiators.

Responses

HTTP Code	Description	Schema
200	Success	< import_host_initiator_instance > array
206	Partial content of import host initiator instance objects	< import_host_initiator_instance > array

GET /import_host_initiator/{id}

Description

Query a specific import host initiator instance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the import host initiator to query.	string

Responses

HTTP Code	Description	Schema
200	Success	import_host_initiator_instance
404	Not Found	error_response

import_host_system

Use these resource types to manage import host systems. Import host enables communication with multipathing software on the host system to perform import operations. While configuring the import_host_system if the host is not present a new Host will be created. If Host is already present, the same Host will be updated with the import_host_system details. Also, import_host_system supports FC and ISCSI connections between Host and source arrays. So for a single import_host_system which supports both FC and ISCSI; there would be two Hosts entries for representing the FC and iSCSI connections.

GET /import_host_system

Description

Query import host systems that are attached to volumes.

Responses

HTTP Code	Description	Schema
200	Success	import_host_system_instance array
206	Partial content of import host system instance objects	import_host_system_instance array

POST /import_host_system

Description

Add an import host system so that it can be mapped to a volume. Before mapping an import host system, ensure that a host agent is installed. Host agents can be installed on Linux, Windows, and ESXi host systems only. While adding import_host_system if Host is not present a new Host shall be created. If Host is already present, the same Host will be updated with the import_host_system details.

Parameters

Type	Name	Description	Schema
Body	request <i>required</i>	Request parameters.	import_host_system_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /import_host_system/{id}

Description

Query a specific import host system instance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the import host system to query.	string

Responses

HTTP Code	Description	Schema
200	Success	import_host_system_instance
404	Not Found	error_response

DELETE /import_host_system/{id}

Description

Delete an import host system. You cannot delete an import host system if there are import sessions active in the system referencing the import host system instance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the import host system	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /import_host_system/{id}/refresh

Description

Refresh the details of a specific import host system. Use this operation when there is a change to the import host or import host volumes.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the import host system for which to refresh details.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

import_host_volume

Use these resource types to manage import host volumes. Host volumes are source storage volumes that are mapped to the host systems for application access. Once import host is configured, host volumes can be queried and then corresponding volumes can be imported.

GET /import_host_volume

Description

Query import host volumes.

Responses

HTTP Code	Description	Schema
200	Success	< import_host_volume_instance > array

HTTP Code	Description	Schema
206	Partial content of import host volume instance objects	< import_host_volume_instance > array

GET /import_host_volume/{id}

GET /import_host_volume/name:{name}

Description

Query a specific import host volume instance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the import host volume to query.	string
Path	name <i>required</i>	Unique name of the import host volume to query.	string

Responses

HTTP Code	Description	Schema
200	Success	import_host_volume_instance
404	Not Found	error_response

import_netapp

Use these resource types to discover the NetApp volumes that can be imported to PowerStore.

GET /import_netapp

Description

List NetApp storage systems configured for import. Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< import_netapp_instance > array
206	Partial content of import netapp instance objects	< import_netapp_instance > array

GET /import_netapp/{id}

GET /import_netapp/name:{name}

Description

Query a specific NetApp storage system that is configured for import Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NetApp storage system.	string
Path	name <i>required</i>	Unique name of the NetApp storage system.	string

Responses

HTTP Code	Description	Schema
200	Success	import_netapp_instance
404	Not Found	error_response

import_netapp_volume

Use these resource types to discover the NetApp volumes that can be imported to PowerStore.

GET /import_netapp_volume

Description

Query importable NetApp volumes. Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	import_netapp_volume_instance > array
206	Partial content of import netapp volume instance objects	import_netapp_volume_instance > array

GET /import_netapp_volume/{id}

GET /import_netapp_volume/name:{name}

Description

Query a specific importable NetApp volume. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NetApp volume.	string
Path	name <i>required</i>	Unique name of the NetApp volume.	string

Responses

HTTP Code	Description	Schema
200	Success	import_netapp_volume_instance

HTTP Code	Description	Schema
404	Not Found	error_response

POST /import_netapp_volume/{id}/import_snapshot_schedules

POST /import_netapp_volume/name:{name}/import_snapshot_schedules

Description

Return the snapshot schedules associated with the specified NetApp volume.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NetApp volume.	string
Path	name <i>required</i>	Unique name of the NetApp volume.	string

Responses

HTTP Code	Description	Schema
200	Success	import_netapp_volume_import_snapshot_schedules_response
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

import_psgroup

Use these resource types to discover the Peer Storage Group (PS Group) volumes that can be

imported to PowerStore.

GET /import_psgroup

Description

Query PS Group storage arrays.

Responses

HTTP Code	Description	Schema
200	Success	< import_psgroup_instance > array
206	Partial content of import psgroup instance objects	< import_psgroup_instance > array

GET /import_psgroup/{id}

GET /import_psgroup/name:{name}

Description

Query a specific PS Group storage array.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the PS Group.	string
Path	name <i>required</i>	Unique name of the PS Group.	string

Responses

HTTP Code	Description	Schema
200	Success	import_psgroup_instance

HTTP Code	Description	Schema
404	Not Found	error_response

POST /import_psgroup/{id}/discover

POST /import_psgroup/name:{name}/discover

Description

Discover the importable volumes and snapshot schedules in the PS Group. Was deprecated in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the PS Group.	string
Path	name <i>required</i>	Unique name of the PS Group.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

import_psgroup_volume

Use these resource types to discover the Peer Storage Group (PS Group) volumes that can be imported to PowerStore.

GET /import_psgroup_volume

Description

Query PS Group volumes.

Responses

HTTP Code	Description	Schema
200	Success	import_psgroup_volume_instance > array
206	Partial content of import psgroup volume instance objects	import_psgroup_volume_instance > array

GET /import_psgroup_volume/{id}

GET /import_psgroup_volume/name:{name}

Description

Query a specific PS Group volume.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the PS Group volume.	string
Path	name <i>required</i>	Unique name of the PS Group volume.	string

Responses

HTTP Code	Description	Schema
200	Success	import_psgroup_volume_instance
404	Not Found	error_response

POST /import_psgroup_volume/{id}/import_snapshot_schedules

POST /import_psgroup_volume/name:{name}/import_snapshot_schedules

Description

Return the snapshot schedules for a PS Group volume.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the PS Group volume.	string
Path	name <i>required</i>	Unique name of the PS Group volume.	string

Responses

HTTP Code	Description	Schema
200	Success	import_psgroup_volume_import_snapshot_schedules_response
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

import_session

Use the import_session resource type to initiate and manage the migration of volumes and consistency groups from a heritage Dell storage system to a PowerStore storage system. The import is non-disruptive or minimally disruptive to hosts that access the volume during the import. The import process runs as a background job. Clients should poll the job status until the import completes. Note: In these descriptions, LUNs are referred to as volumes and storage arrays are referred to as storage systems.

GET /import_session

Description

Query import sessions.

Responses

HTTP Code	Description	Schema
200	Success	< import_session_instance > array
206	Partial content of import session instance objects	< import_session_instance > array

POST /import_session

Description

Create a new import session. The source storage system and hosts that access the volumes or consistency groups must be added prior to creating an import session. The volumes or consistency groups must be in a migration-ready state.

Parameters

Type	Name	Schema
Body	body <i>required</i>	import_session_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /import_session/{id}

GET /import_session/name:{name}

Description

Query a specific session.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the import session	string
Path	name <i>required</i>	Unique name of the import session	string

Responses

HTTP Code	Description	Schema
200	Success	import_session_in_stance
404	Not Found	error_response

DELETE /import_session/{id}

DELETE /import_session/name:{name}

Description

Delete an import session that is in a Completed, Failed, or Cancelled state. Delete removes the historical record of the import. To stop active import sessions, use the Cancel operation. You can delete the import session after cancelling it.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the import session	string
Path	name <i>required</i>	Unique name of the import session	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /import_session/{id}

PATCH /import_session/name:{name}

Description

Modify the scheduled date and time of the specified import session.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the import session.	string
Path	name <i>required</i>	Unique name of the import session.	string
Body	body <i>required</i>		import_session_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /import_session/{id}/cutover

POST /import_session/name:{name}/cutover

Description

Commit an import session that is in a Ready_For_Cutover state. When the import session is created with the automatic_cutover attribute set to false, you must use the Cutover operation to complete the import. Until the cutover is complete, PowerStore forwards IO to the source volume to keep it in sync with all host IOs. You can cancel the import during this state if you want to continue using the source volume.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of an import session	string
Path	name <i>required</i>	Unique name of an import session	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /import_session/{id}/cancel

POST /import_session/name:{name}/cancel

Description

Cancel an active import session. Cancel is allowed when the import is in a Scheduled, Queued, Copy_In_Progress, or Ready_For_Cutover state. After a successful cancellation, the host is mapped to original source volume, all paths are cleaned up, and the import state is Cancelled. The import can be attempted again in the future. In most cases, the Cancel operation gracefully rolls back the import based on the source and host error responses. Use the force option to stop the import job irrespective of whether the storage system or hosts have issues. When the force option is true, the

import process tries to reach out to the source and host to gracefully terminate the import. If either are not reachable or if the request fails, the import is terminated without rolling back.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the import session	string
Path	name <i>required</i>	Unique name of the import session	string
Body	body <i>optional</i>		import_session_cancel

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /import_session/{id}/pause

POST /import_session/name:{name}/pause

Description

Pauses an ongoing import session. When this occurs, the background data copy stops, but IO to the source still occurs. Pause is only supported when the import job is in a in Copy_In_Progress state. You can resume or cancel the paused import.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the import session	string

Type	Name	Description	Schema
Path	name <i>required</i>	Unique name of the import session	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /import_session/{id}/resume

POST /import_session/name:{name}/resume

Description

Resumes the paused import session. The background data copy continues from where it was stopped. Resume is only applicable when the import in a Paused state.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the import session	string
Path	name <i>required</i>	Unique name of the import session	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response

HTTP Code	Description	Schema
404	Not Found	error_response
422	Operation Failed	error_response

POST /import_session/{id}/enable_destination_volume

POST /import_session/name:{name}/enable_destination_volume

Description

Enable the destination volume of an import session.

This action can only be used on an agentless import session that is in the 'Mirror_Enabled' state after the host application using the source volume is brought offline. The host application can be reconfigured to use the destination volume of the import session after enabling the destination volume.

To prevent accidental writes to the source volume through the source storage system path due to the incorrect reconfiguration, you can specify the removal of all host mappings of the source volume in the source storage system.

Was added in version 1.0.2.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the import session.	string
Path	name <i>required</i>	Unique name of the import session.	string
Body	body <i>optional</i>	Parameters to enable destination volume of an agentless import session.	import_session_enable_destination_volume

Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /import_session/{id}/start_copy

POST /import_session/name:{name}/start_copy

Description

Start the background data copy operation to import data from the source volume.

This action can only be used on an agentless import session that is in the 'Ready_To_Start_Copy' state after the host application is reconfigured and brought online to use the destination volume of the import session.

Was added in version 1.0.2.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the import session.	string
Path	name <i>required</i>	Unique name of the import session.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not found	error_response
422	Operation Failed	error_response

POST /import_session/{id}/cleanup

POST /import_session/name:{name}/cleanup

Description

Clean up an import session that is in Cleanup_Required state and requires user intervention to revert the source volume to its pre-import state as part of the recovery procedure to restore host IO operations.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the import session.	string
Path	name <i>required</i>	Unique name of the import session.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

import_storage_center

Use these resource types to discover the Storage Center (SC) volumes and consistency groups that can be imported to PowerStore.

GET /import_storage_center

Description

Query SC arrays.

Responses

HTTP Code	Description	Schema
200	Success	import_storage_center_instance > array
206	Partial content of import storage center instance objects	import_storage_center_instance > array

GET /import_storage_center/{id}

GET /import_storage_center/name:{name}

Description

Query a specific SC array.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the SC array.	string
Path	name <i>required</i>	Unique name of the SC array.	string

Responses

HTTP Code	Description	Schema
200	Success	import_storage_center_instance
404	Not Found	error_response

POST /import_storage_center/{id}/discover

POST /import_storage_center/name:{name}/discover

Description

Discover the importable volumes and snapshot profiles in the SC array. Was deprecated in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the SC array.	string
Path	name <i>required</i>	Unique name of the SC array.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

import_storage_center_consistency_group

Use these resource types to discover the Storage Center (SC) volumes and consistency groups that can be imported to PowerStore.

GET /import_storage_center_consistency_group

Description

Query SC consistency groups.

Responses

HTTP Code	Description	Schema
200	Success	import_storage_center_consistency_group_instance > array
206	Partial content of import storage center consistency group instance objects	import_storage_center_consistency_group_instance > array

GET /import_storage_center_consistency_group/{id}

GET /import_storage_center_consistency_group/name:{name}

Description

Query a specific SC consistency group.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the SC consistency group.	string
Path	name <i>required</i>	Unique name of the SC consistency group.	string

Responses

HTTP Code	Description	Schema
200	Success	import_storage_center_consistency_group_instance
404	Not Found	error_response

POST

/import_storage_center_consistency_group/{id}/import_snapshot_profiles

POST

/import_storage_center_consistency_group/name:{name}/import_snapshot_profiles

Description

Return the snapshot profiles of an SC consistency group.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the SC consistency group.	string
Path	name <i>required</i>	Unique name of the SC consistency group.	string

Responses

HTTP Code	Description	Schema
200	Success	import_storage_center_consistency_group_import_snapshot_profiles_response
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed.	error_response

import_storage_center_volume

Use these resource types to discover the Storage Center (SC) volumes that can be imported to PowerStore.

GET /import_storage_center_volume

Description

Query SC volumes.

Responses

HTTP Code	Description	Schema
200	Success	import_storage_center_volume_instance > array
206	Partial content of import storage center volume instance objects	import_storage_center_volume_instance > array

GET /import_storage_center_volume/{id}

GET /import_storage_center_volume/name:{name}

Description

Query a specific SC volume.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the SC volume.	string
Path	name <i>required</i>	Unique name of the SC volume.	string

Responses

HTTP Code	Description	Schema
200	Success	import_storage_center_volume_instance

HTTP Code	Description	Schema
404	Not Found	error_response

POST /import_storage_center_volume/{id}/import_snapshot_profiles

POST

/import_storage_center_volume/name:{name}/import_snapshot_profiles

Description

Return the snapshot profiles of an SC volume.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the SC volume.	string
Path	name <i>required</i>	Unique name of the SC volume.	string

Responses

HTTP Code	Description	Schema
200	Success	import_storage_center_volume_import_snapshot_profiles_response
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed.	error_response

import_unity

Use this resource type to discover the Unity system that is a source storage system for import

GET /import_unity

Description

Query Unity storage systems.

Responses

HTTP Code	Description	Schema
200	Success	< import_unity_instance > array
206	Partial content of import unity instance objects	< import_unity_instance > array

GET /import_unity/{id}

GET /import_unity/name:{name}

Description

Query a specific Unity storage system.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the Unity storage system.	string
Path	name <i>required</i>	Unique name of the Unity storage system.	string

Responses

HTTP Code	Description	Schema
200	Success	import_unity_instance
404	Not Found	error_response

POST /import_unity/{id}/discover

POST /import_unity/name:{name}/discover

Description

Discover the importable volumes and consistency groups in the Unity storage system.

Was deprecated in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the Unity storage system.	string
Path	name <i>required</i>	Unique name of the Unity storage system.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

import_unity_consistency_group

Use this resource type to discover the Unity consistency groups that can be imported to PowerStore.

GET /import_unity_consistency_group

Description

Query Unity consistency groups.

Responses

HTTP Code	Description	Schema
200	Success	< import_unity_consistency_group_instance > array
206	Partial content of import unity consistency group instance objects	< import_unity_consistency_group_instance > array

GET /import_unity_consistency_group/{id}

GET /import_unity_consistency_group/name:{name}

Description

Query a specific Unity consistency group.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the Unity consistency group.	string
Path	name <i>required</i>	Unique name of the Unity consistency group.	string

Responses

HTTP Code	Description	Schema
200	Success	import_unity_consistency_group_instance
404	Not Found	error_response

POST /import_unity_consistency_group/{id}/import_snapshot_schedules

POST

/import_unity_consistency_group/name:{name}/import_snapshot_schedules

Description

Return the snapshot schedules associated with the specified Unity consistency group.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the Unity consistency group.	string
Path	name <i>required</i>	Unique name of the Unity consistency group.	string

Responses

HTTP Code	Description	Schema
200	Success	import_unity_consistency_group_import_snapshot_schedules_response
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

import_unity_volume

Use this resource type to discover the Unity volumes that can be imported to PowerStore.

GET /import_unity_volume

Description

Query Unity volumes.

Responses

HTTP Code	Description	Schema
200	Success	import_unity_volume_instance array
206	Partial content of import unity volume instance objects	import_unity_volume_instance array

GET /import_unity_volume/{id}

GET /import_unity_volume/name:{name}

Description

Query a specific Unity volume.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the Unity volume.	string
Path	name <i>required</i>	Unique name of the Unity volume.	string

Responses

HTTP Code	Description	Schema
200	Success	import_unity_volume_instance
404	Not Found	error_response

POST /import_unity_volume/{id}/import_snapshot_schedules

POST /import_unity_volume/name:{name}/import_snapshot_schedules

Description

Return the snapshot schedules associated with the specified Unity volume.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the Unity volume.	string
Path	name <i>required</i>	Unique name of the Unity volume.	string

Responses

HTTP Code	Description	Schema
200	Success	import_unity_volume_import_snapshot_schedules_response
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

import_universal_consistency_group

Use this resource type to manually group import_universal_volumes into consistency groups for import. The created consistency group inherits the name of this resource, and is write order consistent.

GET /import_universal_consistency_group

Description

Query universal consistency groups.

Was added in version 4.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	import_universal_consistency_group_instance > array
206	Partial content of import universal consistency group instance objects	import_universal_consistency_group_instance > array

POST /import_universal_consistency_group

Description

Create a new universal consistency group.

Was added in version 4.0.0.0.

Parameters

Type	Name	Schema
Body	body <i>required</i>	import_universal_consistency_group_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /import_universal_consistency_group/{id}

GET /import_universal_consistency_group/name:{name}

Description

Query a specific universal consistency group. Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the universal consistency group.	string
Path	name <i>required</i>	Unique name of the universal consistency group.	string

Responses

HTTP Code	Description	Schema
200	Success	import_universal_consistency_group_instance
404	Not Found	error_response

DELETE /import_universal_consistency_group/{id}

DELETE /import_universal_consistency_group/name:{name}

Description

Delete a universal consistency group.

Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the universal consistency group.	string
Path	name <i>required</i>	Unique name of the universal consistency group.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /import_universal_consistency_group/{id}

PATCH /import_universal_consistency_group/name:{name}

Description

Modify a universal consistency group. Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the universal consistency group.	string
Path	name <i>required</i>	Unique name of the universal consistency group.	string
Body	body <i>required</i>		import_universal_consistency_group_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /import_universal_consistency_group/{id}/add_members

POST /import_universal_consistency_group/name:{name}/add_members

Description

Add member universal storage array volumes to an existing universal storage array consistency group. To add volumes to the consistency group, volume state should be ready for agentless import and volume should not be part of any other CG. Addition of volume will not be allowed if the import is ongoing.

Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the universal consistency group.	string
Path	name <i>required</i>	Unique name of the universal consistency group.	string
Body	body <i>required</i>		import_universal_consistency_group_add_members

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Invalid Request	error_response

POST /import_universal_consistency_group/{id}/remove_members

POST /import_universal_consistency_group/name:{name}/remove_members

Description

Remove members from an existing universal storage array consistency group. Removal of volume

will not be allowed if the import is ongoing.

Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the universal consistency group.	string
Path	name <i>required</i>	Unique name of the universal consistency group.	string
Body	body <i>required</i>		import_universal_consistency_group_remove_members

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Invalid Request	error_response

import_universal_volume

Use this resource types to show the Universal volumes that can be imported to PowerStore.

GET /import_universal_volume

Description

Query Universal volumes. Was added in version 4.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< import_universal_volume_instance > array
206	Partial content of import universal volume instance objects	< import_universal_volume_instance > array

GET /import_universal_volume/{id}

GET /import_universal_volume/name:{name}

Description

Query a specific Universal volume. Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the Universal volume.	string
Path	name <i>required</i>	Unique name of the Universal volume.	string

Responses

HTTP Code	Description	Schema
200	Success	import_universal_volume_instance
404	Not Found	error_response

PATCH /import_universal_volume/{id}

PATCH /import_universal_volume/name:{name}

Description

Modify a specific Universal volume. Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the Universal volume.	string
Path	name <i>required</i>	Unique name of the Universal volume.	string
Body	body <i>required</i>		import_universal_volume_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

import_vmax

Use this resource type to discover the VMAX storage system that is a source storage system for import

GET /import_vmax

Description

Query VMAX storage systems. Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< import_vmax_instance > array
206	Partial content of import vmax instance objects	< import_vmax_instance > array

GET /import_vmax/{id}

Description

Query a specific VMAX storage system. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the VMAX storage system.	string

Responses

HTTP Code	Description	Schema
200	Success	import_vmax_instance
404	Not Found	error_response

import_vmax_storage_group

Use this resource type to show the VMAX Storage Groups that can be imported to PowerStore.

GET /import_vmax_storage_group

Description

Query VMAX storage groups. Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	import_vmax_storage_group_instance > array
206	Partial content of import vmax storage group instance objects	import_vmax_storage_group_instance > array

GET /import_vmax_storage_group/{id}

GET /import_vmax_storage_group/name:{name}

Description

Query a specific VMAX storage group. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of a VMAX storage group.	string
Path	name <i>required</i>	Unique name of a VMAX storage group.	string

Responses

HTTP Code	Description	Schema
200	Success	import_vmax_storage_group_instance
404	Not Found	error_response

POST /import_vmax_storage_group/{id}/import_snapshot_policy

POST /import_vmax_storage_group/name:{name}/import_snapshot_policy

Description

Return the snapshot policy associated with the specified VMAX storage group.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the VMAX storage group.	string
Path	name <i>required</i>	Unique name of the VMAX storage group.	string

Responses

HTTP Code	Description	Schema
200	Success	import_vmax_storage_group_import_snapshot_policy_response
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

import_vmax_volume

Use this resource types to show the VMAX volumes that can be imported to PowerStore.

GET /import_vmax_volume

Description

Query VMAX volumes. Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	import_vmax_volume_instance > array
206	Partial content of import vmax volume instance objects	import_vmax_volume_instance > array

GET /import_vmax_volume/{id}

GET /import_vmax_volume/name:{name}

Description

Query a specific VMAX volume. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the VMAX volume.	string
Path	name <i>required</i>	Unique name of the VMAX volume.	string

Responses

HTTP Code	Description	Schema
200	Success	import_vmax_volume_instance
404	Not Found	error_response

import_vnx_array

Use these resource types to discover the VNX storage system that can be imported to PowerStore.

GET /import_vnx_array

Description

Query VNX storage systems.

Responses

HTTP Code	Description	Schema
200	Success	< import_vnx_array_instance > array
206	Partial content of import vnx array instance objects	< import_vnx_array_instance > array

GET /import_vnx_array/{id}

GET /import_vnx_array/name:{name}

Description

Query a specific VNX storage system.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of a VNX storage system.	string
Path	name <i>required</i>	Unique name of a VNX storage system.	string

Responses

HTTP Code	Description	Schema
200	Success	import_vnx_array_instance
404	Not Found	error_response

POST /import_vnx_array/{id}/discover

POST /import_vnx_array/name:{name}/discover

Description

Discover the importable volumes and consistency groups in a VNX storage system.

Was deprecated in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the VNX storage system.	string
Path	name <i>required</i>	Unique name of the VNX storage system.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

import_vnx_consistency_group

Use this resource type to show the VNX consistency groups that can be imported to PowerStore.

GET /import_vnx_consistency_group

Description

Query VNX consistency groups.

Responses

HTTP Code	Description	Schema
200	Success	< import_vnx_consistency_group_instance > array
206	Partial content of import vnx consistency group instance objects	< import_vnx_consistency_group_instance > array

GET /import_vnx_consistency_group/{id}

GET /import_vnx_consistency_group/name:{name}

Description

Query a specific VNX consistency group.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of a VNX consistency group.	string
Path	name <i>required</i>	Unique name of a VNX consistency group.	string

Responses

HTTP Code	Description	Schema
200	Success	import_vnx_consistency_group_instance
404	Not Found	error_response

import_vnx_volume

Use this resource type to show the VNX volumes and that can be imported to PowerStore.

GET /import_vnx_volume

Description

Query VNX volumes.

Responses

HTTP Code	Description	Schema
200	Success	import_vnx_volume_instance array
206	Partial content of import vnx volume instance objects	import_vnx_volume_instance array

GET /import_vnx_volume/{id}

GET /import_vnx_volume/name:{name}

Description

Query a specific VNX volume.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the VNX volume.	string
Path	name <i>required</i>	Unique name of the VNX volume.	string

Responses

HTTP Code	Description	Schema
200	Success	import_vnx_volume_instance

HTTP Code	Description	Schema
404	Not Found	error_response

import_xtremio

Use these resource types to discover the XtremIO volumes and consistency groups that can be imported to PowerStore.

GET /import_xtremio

Description

Query XtremIO storage systems X1 and X2. Was added in version 1.0.2.

Responses

HTTP Code	Description	Schema
200	Success	< import_xtremio_instance > array
206	Partial content of import xtremio instance objects	< import_xtremio_instance > array

GET /import_xtremio/{id}

GET /import_xtremio/name:{name}

Description

Query a specific XtremIO storage system. Was added in version 1.0.2.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the XtremIO storage system.	string
Path	name <i>required</i>	Unique name of the XtremIO storage system.	string

Responses

HTTP Code	Description	Schema
200	Success	import_xtremio_instance
404	Not Found	error_response

POST /import_xtremio/{id}/discover

POST /import_xtremio/name:{name}/discover

Description

Discover the importable volumes and consistency groups in the XtremIO storage system.

Was added in version 1.0.2. Was deprecated in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the XtremIO storage system.	string
Path	name <i>required</i>	Unique name of the XtremIO storage system.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

import_xtremio_consistency_group

Use these resource types to discover the XtremIO volumes and consistency groups that can be

imported to PowerStore.

GET /import_xtremio_consistency_group

Description

Query XtremIO consistency groups. Was added in version 1.0.2.

Responses

HTTP Code	Description	Schema
200	Success	< import_xtremio_consistency_group_instance > array
206	Partial content of import xtremio consistency group instance objects	< import_xtremio_consistency_group_instance > array

GET /import_xtremio_consistency_group/{id}

GET /import_xtremio_consistency_group/name:{name}

Description

Query a specific XtremIO consistency group. Was added in version 1.0.2.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the XtremIO consistency group.	string
Path	name <i>required</i>	Unique name of the XtremIO consistency group.	string

Responses

HTTP Code	Description	Schema
200	Success	import_xtremio_consistency_group_instance
404	Not Found	error_response

POST /import_xtremio_consistency_group/{id}/import_snapshot_schedules

POST

/import_xtremio_consistency_group/name:{name}/import_snapshot_schedules

Description

Return the snapshot schedules associated with the specified XtremIO consistency group.

Was added in version 1.0.2.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the XtremIO consistency group.	string
Path	name <i>required</i>	Unique name of the XtremIO consistency group.	string

Responses

HTTP Code	Description	Schema
200	Success	import_xtremio_consistency_group_import_snapshot_schedules_response
204	Success	No Content
400	Invalid request	error_response

HTTP Code	Description	Schema
404	Not Found	error_response
422	Operation Failed	error_response

import_xtremio_volume

Use these resource types to discover the XtremIO volumes and consistency groups that can be imported to PowerStore.

GET /import_xtremio_volume

Description

Query XtremIO volumes. Was added in version 1.0.2.

Responses

HTTP Code	Description	Schema
200	Success	< import_xtremio_volume_instance > array
206	Partial content of import xtremio volume instance objects	< import_xtremio_volume_instance > array

GET /import_xtremio_volume/{id}

GET /import_xtremio_volume/name:{name}

Description

Query a specific XtremIO volume. Was added in version 1.0.2.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the XtremIO volume.	string
Path	name <i>required</i>	Unique name of the XtremIO volume.	string

Responses

HTTP Code	Description	Schema
200	Success	import_xtremio_volume_instance
404	Not Found	error_response

POST /import_xtremio_volume/{id}/import_snapshot_schedules

POST /import_xtremio_volume/name:{name}/import_snapshot_schedules

Description

Return the snapshot schedules associated with the specified XtremIO volume.

Was added in version 1.0.2.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the XtremIO volume.	string
Path	name <i>required</i>	Unique name of the XtremIO volume.	string

Responses

HTTP Code	Description	Schema
200	Success	import_xtremio_volume_import_snapshot_schedules_response
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

initiator

Query information about initiators.

GET /initiator

Description

List initiator information. Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< initiator_instance > array
206	Partial content of initiator instance objects	< initiator_instance > array

Produces

- `application/json`

GET /initiator/{id}

Description

Get details about a specific initiator by id. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique id of the initiator.	string

Responses

HTTP Code	Description	Schema
200	Success	initiator_instance
404	Not Found	error_response

Produces

- `application/json`

io_limit_rule

Use this resource type to manage i/o limiting rules, which provide the ability to limit the bandwidth either or both of bytes and IOs per second. Bandwidth limits are sometimes also referred to as QoS limits.

GET /io_limit_rule

Description

Query io_limit_rules. Was added in version 4.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< io_limit_rule_instance > array

HTTP Code	Description	Schema
206	Partial content of io limit rule instance objects	< io_limit_rule_instance > array

POST /io_limit_rule

Description

Create an io_limit_rule.

Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Body	body <i>required</i>	Create request arguments.	io_limit_rule_create

Responses

HTTP Code	Description	Schema
201	Success	create_response
400	Invalid request	error_response
422	Operation Failed	error_response

GET /io_limit_rule/{id}

GET /io_limit_rule/name:{name}

Description

Query a specific io_limit_rule. Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the io_limit_rule.	string

Type	Name	Description	Schema
Path	name <i>required</i>	Unique name of the io_limit_rule.	string

Responses

HTTP Code	Description	Schema
200	Success	io_limit_rule_instance
404	Not Found	error_response

DELETE /io_limit_rule/{id}

DELETE /io_limit_rule/name:{name}

Description

Remove an io_limit_rule. The I/O limit rule cannot be deleted if it is used in a policy that is associated with any volumes or volume groups.

Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the io_limit_rule.	string
Path	name <i>required</i>	Unique name of the io_limit_rule.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response

HTTP Code	Description	Schema
422	Operation Failed	error_response

Consumes

- [application/json](#)

Produces

- [application/json](#)

PATCH /io_limit_rule/{id}

PATCH /io_limit_rule/name:{name}

Description

Modify an io_limit_rule. Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the io_limit_rule.	string
Path	name <i>required</i>	Unique name of the io_limit_rule.	string
Body	body <i>required</i>	Modify request arguments.	io_limit_rule_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

ip_pool_address

Use these resource types to scale and reconfigure the IP networks in a cluster.

GET /ip_pool_address

Description

Query configured IP addresses.

Responses

HTTP Code	Description	Schema
200	Success	< ip_pool_address_instance > array
206	Partial content of ip pool address instance objects	< ip_pool_address_instance > array

Example HTTP response

Response 200

```
[ {
  "id" : "IP1",
  "name" : "Default Management Network (10.0.0.2)",
  "network_id" : "NW1",
  "appliance_id" : "APPLIANCE1",
  "address" : "10.0.0.2",
  "purposes" : [ "Mgmt_Appliance_Floating" ]
}, {
  "id" : "IP2",
  "name" : "Default Management Network (10.0.0.3)",
  "network_id" : "NW1",
  "appliance_id" : "APPLIANCE1",
  "node_id" : "NODE1",
  "address" : "10.0.0.3",
  "purposes" : [ "Mgmt_Node_CoreOS" ]
}, {
  "id" : "IP3",
  "name" : "Default Management Network (10.0.0.4)",
  "network_id" : "NW1",
  "appliance_id" : "APPLIANCE1",
  "node_id" : "NODE2",
  "address" : "10.0.0.4",
```



```

    "purposes" : [ "Mgmt_Node_CoreOS" ]
  }, {
    "id" : "IP4",
    "name" : "Default Storage Network (10.0.1.3)",
    "network_id" : "NW2",
    "ip_port_id" : "IP_PORT1",
    "appliance_id" : "APPLIANCE1",
    "node_id" : "NODE1",
    "address" : "10.0.1.3,",
    "purposes" : [ "Storage_Iscsi_Target" ]
  }, {
    "id" : "IP5",
    "name" : "Default Storage Network (10.0.1.4)",
    "network_id" : "NW2",
    "ip_port_id" : "IP_PORT2",
    "appliance_id" : "APPLIANCE1",
    "node_id" : "NODE2",
    "address" : "10.0.1.4",
    "purposes" : [ "Storage_Iscsi_Target" ]
  }, {
    "id" : "IP6",
    "name" : "Default VMotion Network (11.0.0.2)",
    "network_id" : "NW3",
    "address" : "11.0.0.2",
    "purposes" : [ "Unused" ]
  }, {
    "id" : "IP7",
    "name" : "Default VMotion Network (11.0.0.4)",
    "network_id" : "NW3",
    "address" : "11.0.0.4",
    "purposes" : [ "Unused" ]
  } ]

```

GET /ip_pool_address/{id}

GET /ip_pool_address/name:{name}

Description

Query a specific IP address.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of a configured IP address.	string

Type	Name	Description	Schema
Path	name <i>required</i>	Unique name of a configured IP address.	string

Responses

HTTP Code	Description	Schema
200	Success	ip_pool_address_instance
404	Not Found	error_response

Consumes

- `application/json`

Produces

- `application/json`

Example HTTP response

Response 200

```
{
  "id" : "IP5",
  "name" : "Default Storage Network (10.0.0.5)",
  "network_id" : "NW2",
  "ip_port_id" : "IP_PORT1",
  "appliance_id" : "APPLIANCE1",
  "node_id" : "NODE1",
  "address" : "10.0.0.5",
  "purposes" : [ "Storage_Iscsi_Target", "External_Replication_Iscsi" ]
}
```

ip_port

Use these resource types to manage the cluster-wide configuration of virtual IP ports, bonds, and virtual Ethernet ports.

GET /ip_port

Description

Query IP port configurations.

Responses

HTTP Code	Description	Schema
200	Success	< ip_port_instance > array
206	Partial content of ip port instance objects	< ip_port_instance > array

Example HTTP response

Response 200

```
[ {
  "id" : "IP_PORT1",
  "partner_id" : "IP_PORT4",
  "target_iqn" : "iqn.2015-10.com.mycompany:ac073063604ff9e383d63ae38e91caa1",
  "bond_id" : "BOND1",
  "available_usages" : [ "Management", "ISCSI", "ISCSI_Default",
"External_Replication" ],
  "current_usages" : [ "Management", "ISCSI", "ISCSI_Default", "External_Replication"
]
}, {
  "id" : "IP_PORT2",
  "partner_id" : "IP_PORT3",
  "target_iqn" : "iqn.2015-10.com.mycompany:e1156bb588976c198050fef018a6466a",
  "eth_port_id" : "ETH_PORT1",
  "available_usages" : [ "ISCSI" ],
  "current_usages" : [ ]
}, {
  "id" : "IP_PORT3",
  "partner_id" : "IP_PORT2",
  "target_iqn" : "iqn.2015-10.com.mycompany:97f3e24211e81b96c9128272d85f4e2e",
  "eth_port_id" : "ETH_PORT4",
  "available_usages" : [ "ISCSI" ],
  "current_usages" : [ ]
}, {
  "id" : "IP_PORT4",
  "partner_id" : "IP_PORT1",
  "target_iqn" : "iqn.2015-10.com.mycompany:2ffd391991f42910bba9a02e483edc9b",
  "bond_id" : "BOND2",
  "available_usages" : [ "Management", "ISCSI", "ISCSI_Default",
"External_Replication" ],
  "current_usages" : [ "Management", "ISCSI", "ISCSI_Default", "External_Replication"
]
}, {
  "id" : "IP_PORT5",
  "partner_id" : "IP_PORT6",
  "target_iqn" : "iqn.2015-10.com.mycompany:36181c82990abff0f74d24c3f5359d6",
  "eth_port_id" : "ETH_PORT7",
  "available_usages" : [ "ISCSI" ],
  "current_usages" : [ ]
}, {
  "id" : "IP_PORT6",
  "partner_id" : "IP_PORT5",
  "target_iqn" : "iqn.2015-10.com.mycompany:e148ede207c8b39af68a866ac79c8f37",
  "eth_port_id" : "ETH_PORT8",
  "available_usages" : [ "ISCSI" ],
  "current_usages" : [ ]
} ]
```

GET /ip_port/{id}

Description

Query a specific IP port configuration.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the IP port.	string

Responses

HTTP Code	Description	Schema
200	Success	ip_port_instance
404	Not Found	error_response

Consumes

- `application/json`

Produces

- `application/json`

Example HTTP response

Response 200

```
{
  "id" : "IP_PORT1",
  "target_iqn" : "iqn.2015-10.com.mycompany:mycompany-program-24c6c3142b3c4bb7bc01e4f626d9f7ff",
  "available_usages" : [ "ISCSI", "External_Replication", "File_Data", "ICM", "ICD" ],
  "current_usages" : [ "ISCSI", "External_Replication", "File_Data", "ICM", "ICD" ],
  "bond_id" : "BOND1"
}
```

PATCH /ip_port/{id}

Description

Modify IP port parameters.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the IP port.	string
Body	body <i>optional</i>		ip_port_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- `application/json`

Produces

- `application/json`

Example HTTP request

Request body

```
{
  "add_current_usages" : [ "External_Replication" ]
}
```

job

Use this resource type for tracking an operation's progress and status.

GET /job

Description

Query jobs.

Responses

HTTP Code	Description	Schema
200	Success	< job_instance > array
206	Partial content of job instance objects	< job_instance > array

GET /job/{id}

Description

Query a specific job.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique id of the job.	string

Responses

HTTP Code	Description	Schema
200	Success	job_instance
404	Not Found	error_response

keystore_archive

Use this resource to generate and download an encryption keystore archive file.

POST /keystore_archive/regenerate

Description

Creates a new encryption keystore archive file to replace the existing archive file, which includes the individual keystore backup files from each appliance in the cluster. Once complete, the

command response includes a Uniform Resource Identifier, which can be used in a subsequent GET request to download the keystore backup archive file. This request is valid only on systems where Data at Rest Encryption is enabled and is applicable only on systems that support Data at Rest Encryption.

Responses

HTTP Code	Description	Schema
200	Success	keystore_archive_regenerate_response
204	Success	No Content
400	Invalid request	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

GET /keystore_archive/{filename}

Description

Download a keystore backup archive file that was previously generated by a successful /api/rest/keystore_archive/regenerate POST command. This resource type collection query does not support filtering, sorting or pagination.

Parameters

Type	Name	Description	Schema
Path	filename <i>required</i>	Filename is the last component in the URI path and becomes the filename of the downloaded file.	string

Responses

HTTP Code	Description	Schema
200	Success	keystore_archive_instance

HTTP Code	Description	Schema
404	Not Found.	error_response

Consumes

- `application/json`

Produces

- `application/zip`

kmip_config

Manage the configuration of the Key Management Interoperability Protocol (KMIP). - Manage the ability for the customer to use an external managed key server.

GET /kmip_config

Description

Get the KMIP configuration for the cluster. Was added in version 3.0.0.0. This resource type collection query does not support filtering, sorting or pagination.

Responses

HTTP Code	Description	Schema
200	Success Was added in version 3.0.0.0.	< kmip_config_instance > array
206	Partial content of kmip config instance objects	< kmip_config_instance > array

Example HTTP response

Response 200

```
[ {
  "id" : "1",
  "is_enabled" : true,
  "port" : 5696,
  "server_timeout" : 5,
  "username" : "admin",
  "servers" : [ {
    "address" : "10.205.67.90",
    "status" : "Down"
  }, {
    "address" : "ExampleDomainName.com",
    "status" : "Up"
  }, {
    "address" : "10.205.67.105"
  } ]
} ]
```

GET /kmip_config/{id}

Description

Get a specific KMIP server configuration. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Was added in version 3.0.0.0.	string

Responses

HTTP Code	Description	Schema
200	Success Was added in version 3.0.0.0.	kmip_config_instance
404	Not Found Was added in version 3.0.0.0.	error_response

Example HTTP response

Response 200

```
{
  "id" : "1",
  "is_enabled" : true,
  "port" : 5696,
  "server_timeout" : 5,
  "username" : "admin",
  "servers" : [ {
    "address" : "10.205.67.90",
    "status" : "Down"
  }, {
    "address" : "ExampleDomainName.com",
    "status" : "Up"
  }, {
    "address" : "10.205.67.105"
  } ]
}
```

PATCH /kmip_config/{id}

Description

Modify the KMIP server configuration for the cluster. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Was added in version 3.0.0.0.	string
Body	body <i>required</i>	Was added in version 3.0.0.0.	kmip_config_modify

Responses

HTTP Code	Description	Schema
204	Success Was added in version 3.0.0.0.	No Content
400	Invalid Request Was added in version 3.0.0.0.	error_response
404	Not Found Was added in version 3.0.0.0.	error_response
422	Operation Failed	error_response

Example HTTP request

Request body

```
{
  "is_enabled" : true,
  "add_servers" : [ "128.222.555.37" ],
  "remove_servers" : [ "128.222.555.3" ],
  "servers" : [ "128.222.555.33" ],
  "username" : "ANewUserName",
  "password" : "ANewPassword",
  "port" : 5696,
  "server_timeout" : 5
}
```

POST /kmip_config/{id}/verify

Description

Verify the connection to the KMIP server and update the status of individual servers. This operation simply updates the status property of each member KMIP server and returns success or failure based on the status.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Was added in version 3.0.0.0.	string

Responses

HTTP Code	Description	Schema
204	Success Was added in version 3.0.0.0.	No Content
400	Invalid request	error_response
404	Not Found Was added in version 3.0.0.0.	error_response
422	Operation Failed Was added in version 3.0.0.0.	error_response

Example HTTP response

Response 422

```
[ {
  "code" : "kmipmgmt.cannot_verify_config",
  "description" : "Failed to verify KMIP configuration.",
  "severity" : "Error"
} ]
```

ldap_account

Use this resource type to manage LDAP accounts that map to LDAP users or groups in LDAP server to administrative roles on the PowerStore array.

GET /ldap_account

Description

Query LDAP account instances. Was added in version 1.0.3. This resource type collection query does not support filtering, sorting or pagination.

Responses

HTTP Code	Description	Schema
200	Success	< ldap_account_instance > array
206	Partial content of ldap account instance objects	< ldap_account_instance > array

POST /ldap_account

Description

Create a new LDAP account. This operation is blocked when mfa_cacpiv is enabled. Was added in version 1.0.3.

Parameters

Type	Name	Schema
Body	body <i>required</i>	ldap_account_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /ldap_account/{id}

Description

Query a specific LDAP account instance. Was added in version 1.0.3.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the LDAP account.	string

Responses

HTTP Code	Description	Schema
200	Success	ldap_account_instance
404	Not Found	error_response

DELETE /ldap_account/{id}

Description

Delete an LDAP account. Was added in version 1.0.3.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the LDAP account to be deleted.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /ldap_account/{id}

Description

Modify the properties of an LDAP account. Was added in version 1.0.3.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the LDAP account to be modified. This operation is blocked when mfa_cacpiv is enabled.	string
Body	body <i>required</i>		ldap_account_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response

HTTP Code	Description	Schema
404	Not Found	error_response
422	Operation Failed	error_response

ldap_domain

Use this resource type to manage ldap configuration.

GET /ldap_domain

Description

Query list of LDAP domain. Was added in version 1.0.3. This resource type collection query does not support filtering, sorting or pagination.

Responses

HTTP Code	Description	Schema
200	Success	< ldap_domain_instance > array
206	Partial content of ldap domain instance objects	< ldap_domain_instance > array

POST /ldap_domain

Description

Create a new LDAP domain. This operation is blocked when mfa_cacpiv is enabled. Was added in version 1.0.3.

Parameters

Type	Name	Schema
Body	body <i>required</i>	ldap_domain_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /ldap_domain/{id}

Description

Query a specific LDAP domain. Was added in version 1.0.3.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the LDAP domain.	string

Responses

HTTP Code	Description	Schema
200	Success	ldap_domain_instance
404	Not Found	error_response

DELETE /ldap_domain/{id}

Description

Delete an LDAP domain. This operation is blocked when mfa_cacpiv is enabled. Was added in version 1.0.3.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the LDAP domain to be deleted.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /ldap_domain/{id}

Description

Modify the properties of an LDAP domain. This operation is blocked when mfa_cacpiv is enabled. Was added in version 1.0.3.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the LDAP domain to be modified.	string
Body	body <i>required</i>		ldap_domain_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /ldap_domain/{id}/verify

Description

Verify the connectivity to the LDAP domain server. This operation is blocked when mfa_cacpiv is enabled. Was added in version 1.0.3.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the instance.	string

Responses

HTTP Code	Description	Schema
200	Success	No Content
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

license

Use this resource type to view and manage the software license for the cluster.

Licenses are normally automatically retrieved when the system is configured. If the system cannot reach the Dell Software Licensing Central, it will retry daily during the 30-day trial period. After the trial period, the system will continue to operate but no new provisioning operations will be allowed.

When an appliance is added to the cluster, the process starts over, and the cluster license will need to be updated, either automatically, or manually if network connectivity to the Software Licensing Central is not available.

If the system lacks network connectivity to reach the Software Licensing Central, an alert will be raised that indicates when the trial period will expire. For sites that do not allow connection to the Software Licensing Central, there is an alternate mechanism to license the cluster: 1. Get the license activation file from the system. 2. Log on to the Dell Software Licensing Central as a customer and provide the activation file. You will receive a license file back. 3. Upload the license file to the system.

GET /license

Description

Query license information for the cluster. There is always one license instance.

Responses

HTTP Code	Description	Schema
200	Success	< license_instance > array
206	Partial content of license instance objects	< license_instance > array

GET /license/{id}

Description

Query the specific license information for the cluster.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the license information instance.	string

Responses

HTTP Code	Description	Schema
200	Success	license_instance
404	Not Found	error_response

POST /license/upload

Description

Upload a software license to install the license on the cluster.

Parameters

Type	Name	Description	Schema
FormData	license_file <i>optional</i>	The file to upload containing the software license to install the license on the cluster.	file

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
422	Operation Failed	error_response

Consumes

- `multipart/form-data`

POST /license/retrieve

Description

Retrieve the license directly from the Dell Software Licensing Central. This runs automatically when the cluster is configured, and if it fails, once per day during the trial period. This allows a manual attempt, normally after attempting to correct the network connectivity issue preventing the automatic retrieval.

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
422	Operation Failed	error_response

POST /license/extend_trial

Description

Extend license trial period for certain number of days. This runs only allowed once for a appliance, and if it fails, customer can have another try.

Was added in version 2.0.0.0.

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
422	Operation Failed	error_response

local_user

Use this resource type to manage local user accounts.

GET /local_user

Description

Query all local user account instances. This resource type collection query does not support filtering, sorting or pagination.

Responses

HTTP Code	Description	Schema
200	Success	< local_user_instance > array
206	Partial content of local user instance objects	< local_user_instance > array

POST /local_user

Description

Create a new local user account. Any existing local user with either an administrator or a security administrator role can create a new local user account. By default, a new local_user account is NOT locked. This operation is blocked when mfa_cacpiv is enabled.

Parameters

Type	Name	Schema
Body	body <i>required</i>	local_user_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /local_user/{id}

Description

Query a specific local user account instance using an unique identifier.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the local user account.	string

Responses

HTTP Code	Description	Schema
200	Success	local_user_instance
404	Not Found	error_response

DELETE /local_user/{id}

Description

Delete a local user account instance using the unique identifier. You cannot delete the default "admin" account or the account you are currently logged into. Any local user account with

Administrator or Security Administrator role can delete any other local user account except the default "admin" account.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the local user account to be deleted.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /local_user/{id}

Description

Modify a property of a local user account using the unique identifier. You cannot modify the default "admin" user account. This operation is blocked when mfa_cacpiv is enabled.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the local user account to be modified.	string
Body	body <i>required</i>		local_user_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

login_banner

login banner

GET /login_banner

Description

Query login banner. This resource type collection query does not support filtering, sorting or pagination. Was added in version 2.1.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< login_banner_instance > array
206	Partial content of login banner instance objects	< login_banner_instance > array

Produces

- `application/json`

GET /login_banner/{id}

Description

Query a specific login banner. Was added in version 2.1.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the instance. Was added in version 2.1.0.0.	string

Responses

HTTP Code	Description	Schema
200	Success	login_banner_instance
404	Not Found	error_response

Produces

- [application/json](#)

PATCH /login_banner/{id}

Description

Modify the login banner. Was added in version 2.1.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the instance. Was added in version 2.1.0.0.	string
Body	body <i>required</i>		login_banner_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response

HTTP Code	Description	Schema
422	Operation Failed	error_response

login_session

Use these resource types to manage sessions, roles, and system security configurations.

GET /login_session

Description

Obtain the login session for the current user. This resource type collection query does not support filtering, sorting or pagination.

Responses

HTTP Code	Description	Schema
200	Success	< login_session_instance > array
206	Partial content of login session instance objects	< login_session_instance > array

Produces

- `application/json`

logout

Use these resource types to manage sessions, roles, and system security configurations.

POST /logout

Description

Log out the current user.

Responses

HTTP Code	Description	Schema
201	Success	create_response
204	Success	No Content
400	Invalid request	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

maintenance_window

Use this resource type to manage the maintenance window configuration for each appliance. The maintenance window allows you to set a time period during which alerts do not generate any notifications. After the specified interval, the maintenance window will get automatically disabled and any alerts that are still outstanding will generate notifications. Specifically, anything that would have generated a notification but didn't do so because of the maintenance window and that remains outstanding after the window closes, will result in a notification when the window is disabled.

GET /maintenance_window

Description

Query the maintenance window configurations.

Responses

HTTP Code	Description	Schema
200	Success	< maintenance_window_instance > array
206	Partial content of maintenance window instance objects	< maintenance_window_instance > array

GET /maintenance_window/{id}

Description

Query one appliance maintenance window configuration.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the maintenance window configuration.	string

Responses

HTTP Code	Description	Schema
200	Success	maintenance_window_instance
404	Not Found	error_response

PATCH /maintenance_window/{id}

Description

Configure maintenance window.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the maintenance window configuration.	string
Body	body <i>required</i>		maintenance_window_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response

HTTP Code	Description	Schema
404	Not Found	error_response
422	Operation Failed	error_response

metrics

REST APIs Use these resource types to query historical metric data.

POST /metrics/generate

Description

Retrieves metrics for specified type.

Parameters

Type	Name	Schema
Body	body <i>required</i>	metrics_generate

Responses

HTTP Code	Description	Schema
200	Success	< metrics_generate_response > array
204	Success	No Content
400	Invalid Request	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

metrics_archive

Use these resource types to generate and download an archive of metrics and config data.

GET /metrics_archive

Description

Query metrics archives. Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< metrics_archive_instance > array
206	Partial content of metrics archive instance objects	< metrics_archive_instance > array

POST /metrics_archive/generate

Description

Generate a new metrics archive from the collected metrics and config data. Only one metrics archive generation operation may be running at a time. Was added in version 3.0.0.0.

Parameters

Type	Name	Schema
Body	body <i>optional</i>	metrics_archive_generate

Responses

HTTP Code	Description	Schema
200	Success	metrics_archive_generate_response
204	Success	No Content
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /metrics_archive/{id}

GET /metrics_archive/name:{name}

Description

Query a specific metrics archive instance. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the metrics archive.	string
Path	name <i>required</i>	Unique name of the metrics archive.	string Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	metrics_archive_instance
404	Not Found	error_response

GET /metrics_archive/{id}/download

GET /metrics_archive/name:{name}/download

Description

Download a specific metrics archive instance. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the metrics archive.	string
Path	name <i>required</i>	Unique name of the metrics archive.	string Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	metrics_archive_file
404	Not found	error_response

Produces

- [application/binary](#)

mfa_cacpiv

Use this resource type to configure CAC/PIV multi-factor authentication for the system. Note that enabling an mfa_cacpiv instance is a one-way operation as it cannot be disabled; for this reason, the default value for Create is_enabled is false.

Creation of an mfa-* service instance with is_enabled==true when security-config.default_mfa_service_id == null will set that property to the value of the new instance. If the security-config.default_mfa_service_id != null, then the operation will be denied and the current security-config.default_mfa_service must be disabled manually.

Note that when mfa_cacpiv is enabled, Create and Modify operations are blocked on local_user and ldap_account. All operations, except for queries, are blocked on mfa_secured and ldap_domain.

GET /mfa_cacpiv

Description

Query mfa_cacpiv instances. Was added in version 4.1.0.0. This resource type collection query does not support filtering, sorting or pagination.

Responses

HTTP Code	Description	Schema
200	Success	< mfa_cacpiv_instance > array
206	Partial content of mfa cacpiv instance objects	< mfa_cacpiv_instance > array

Produces

- `application/json`

POST /mfa_cacpiv

Description

Create a new mfa_cacpiv instance. Was added in version 4.1.0.0.

Parameters

Type	Name	Description	Schema
Body	body <i>required</i>	Request body.	mfa_cacpiv_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

Produces

- `application/json`

GET /mfa_cacpiv/{id}

Description

Query a specific mfa_cacpiv instance. Was added in version 4.1.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the mfa_cacpiv instance. Note there is at most one instance of mfa_cacpiv.	string

Responses

HTTP Code	Description	Schema
200	Success	mfa_cacpiv_instance
404	Not Found	error_response

Produces

- [application/json](#)

DELETE /mfa_cacpiv/{id}

Description

Delete a specific mfa_cacpiv resource. The mfa_cacpiv instance must be in the disabled state in order to delete it. Once enabled, the mfa_cacpiv resource cannot be deleted. Note there is at most one instance of mfa_cacpiv.

Was added in version 4.1.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the mfa_cacpiv instance.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

PATCH /mfa_cacpiv/{id}

Description

Modify a specific mfa_cacpiv resource. Note there is at most one instance of mfa_cacpiv. Was added in version 4.1.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the mfa_cacpiv instance.	string
Body	body <i>required</i>	Request body.	mfa_cacpiv_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

mfa_securid

Use this resource type to manage SecurID configuration.

GET /mfa_securid

Description

Query mfa_securid instances. Was added in version 3.5.0.0. This resource type collection query does not support filtering, sorting or pagination.

Responses

HTTP Code	Description	Schema
200	Success	< mfa_securid_instance > array
206	Partial content of mfa securid instance objects	< mfa_securid_instance > array

Produces

- [application/json](#)

POST /mfa_securid

Description

Create a new mfa_securid instance. This operation is blocked when mfa_cacpiv is enabled. Was added in version 3.5.0.0.

Parameters

Type	Name	Description	Schema
Body	body <i>required</i>	Request body.	mfa_securid_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

GET /mfa_securid/{id}

Description

Query a specific mfa_securid instance. Was added in version 3.5.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the mfa_securid instance.	string

Responses

HTTP Code	Description	Schema
200	Success	mfa_securid_instance
404	Not Found	error_response

Produces

- [application/json](#)

DELETE /mfa_securid/{id}

Description

Delete a specific mfa_securid resource. The mfa_securid instance must be disabled in order to delete it. This operation is blocked when mfa_cacpiv is enabled.

Was added in version 3.5.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the mfa_securid instance.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

PATCH /mfa_securid/{id}

Description

Modify a specific mfa_securid resource. This operation is blocked when mfa_cacpiv is enabled. Was added in version 3.5.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the mfa_securid instance.	string
Body	body <i>required</i>	Request body.	mfa_securid_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

migration_recommendation

The system produces migration recommendations periodically or upon request, based on capacity usage and recent performance. A recommendation can then be implemented using the `create_migration_sessions` action, performing any necessary rescans on attached hosts, and then using `start_migration_sessions`.

GET /migration_recommendation

Description

Get migration recommendations.

Responses

HTTP Code	Description	Schema
200	Migration recommendation objects	< migration_recommendation_instance > array
206	Partial content of migration recommendation instance objects	< migration_recommendation_instance > array

POST /migration_recommendation

Description

Generate a recommendation for redistributing storage utilization between appliances.

Parameters

Type	Name	Schema
Body	body <i>required</i>	migration_recommendation_create

Responses

HTTP Code	Description	Schema
201	Success	create_response
400	Invalid request	error_response
422	Invalid Request	error_response

GET /migration_recommendation/{id}

Description

Get a single migration recommendation.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique ID of the migration recommendation.	string

Responses

HTTP Code	Description	Schema
200	Success	migration_recommendation_instance
404	Not found	error_response

DELETE /migration_recommendation/{id}

Description

Delete a migration recommendation.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique ID of the migration recommendation.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Invalid Request	error_response

PATCH /migration_recommendation/{id}

Description

Modify migration actions by applying specified dst appliance id and active flag to the migration actions specified by resource id. All specified modifications must be successful for the request to be successful. Partially successful modifications will be rejected and the recommendation object will be unchanged. Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique ID of the migration recommendation.	string
Body	body <i>required</i>		migration_recommendation_action_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /migration_recommendation/{id}/create_migration_sessions

Description

Create the migration sessions to implement a migration recommendation. If the response contains a list of hosts to rescan, those hosts must be rescanned before starting the sessions or the host(s) may lose access to the data when the migration completes.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique ID of the migration recommendation.	string

Responses

HTTP Code	Description	Schema
200	Success	migration_recommendation_create_migration_sessions_response
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Invalid Request	error_response

POST /migration_recommendation/{id}/start_migration_sessions

Description

Start previously created migration sessions for recommendation. Ensure that any rescans specified in the create_migration_sessions response have been done before using this to start the sessions. Failure to do may result in data unavailability and/or data loss.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique ID of the migration recommendation.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Invalid Request	error_response

migration_session

Manage migration sessions.

GET /migration_session

Description

Query migration sessions.

Responses

HTTP Code	Description	Schema
200	Success	< migration_session_instance > array
206	Partial content of migration session instance objects	< migration_session_instance > array

POST /migration_session

Description

Create a new migration session. A migration session is created in this phase and no background copy is performed until either the sync or cutover operation is invoked. There are no interruptions to any services during this phase.

Parameters

Type	Name	Description	Schema
Body	body <i>required</i>	Parameters to create a migration session.	migration_session_create

Responses

HTTP Code	Description	Schema
201	Created	migration_session_create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

GET /migration_session/{id}

GET /migration_session/name:{name}

Description

Query a specific migration session.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the migration session.	string
Path	name <i>required</i>	Unique name of the migration session.	string

Responses

HTTP Code	Description	Schema
200	Success	migration_session_instance

HTTP Code	Description	Schema
404	Not Found	error_response

DELETE /migration_session/{id}

DELETE /migration_session/name:{name}

Description

Delete a migration session. With the force option, a migration session can be deleted regardless of its state. All background activity is canceled before deleting the session.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the migration session.	string
Path	name <i>required</i>	Unique name of the migration session.	string
Body	body <i>optional</i>	Parameters for a deletion.	migration_session_delete

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /migration_session/{id}/pause

POST /migration_session/name:{name}/pause

Description

Pause a migration session. Only migration sessions in the synchronizing state can be paused.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the migration session.	string
Path	name <i>required</i>	Unique name of the migration session.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /migration_session/{id}/resume

POST /migration_session/name:{name}/resume

Description

Resume a paused migration session. You cannot resume a migration session in the failed state.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the migration session.	string
Path	name <i>required</i>	Unique name of the migration session.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /migration_session/{id}/sync

POST /migration_session/name:{name}/sync

Description

Synchronize a migration session. During this phase, the majority of the background copy is completed and there are no interruptions to any services. Sync can be run multiple times to reduce the amount of data that must be copied during the cutover.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the migration session.	string
Path	name <i>required</i>	Unique name of the migration session.	string
Body	body <i>required</i>	Parameters for synchronizing a migration session.	migration_session_sync

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response

HTTP Code	Description	Schema
422	Operation Failed	error_response

POST /migration_session/{id}/cutover

POST /migration_session/name:{name}/cutover

Description

Final phase of the migration, when ownership of the volume, vVol, or volume group is transferred to the new appliance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the migration session.	string
Path	name <i>required</i>	Unique name of the migration session.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

nas_server

Use these resource types to manage NAS servers. NAS servers are software components used to transfer data and provide the connection ports for hosts to access file-based storage resources. NAS servers are independent from each other.

GET /nas_server

Description

Query all NAS servers.

Responses

HTTP Code	Description	Schema
200	Success	< nas_server_instance > array
206	Partial content of nas server instance objects	< nas_server_instance > array

POST /nas_server

Description

Create a NAS server.

Parameters

Type	Name	Schema
Body	body <i>required</i>	nas_server_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /nas_server/{id}

GET /nas_server/name:{name}

Description

Query a specific NAS server.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NAS server.	string
Path	name <i>required</i>	Unique name of the NAS server.	string

Responses

HTTP Code	Description	Schema
200	Success	nas_server_instance
404	Not Found	error_response

DELETE /nas_server/{id}

DELETE /nas_server/name:{name}

Description

Delete a NAS server.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NAS server.	string
Path	name <i>required</i>	Unique name of the NAS server.	string
Body	body <i>optional</i>		nas_server_delete

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /nas_server/{id}

PATCH /nas_server/name:{name}

Description

Modify the settings of a NAS server.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NAS server.	string
Path	name <i>required</i>	Unique name of the NAS server.	string
Body	body <i>required</i>		nas_server_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /nas_server/{id}/ping

POST /nas_server/name:{name}/ping

Description

Ping destination from NAS server.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NAS server.	string
Path	name <i>required</i>	Unique name of the NAS server.	string
Body	body <i>required</i>		nas_server_ping

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /nas_server/{id}/upload/passwd

POST /nas_server/name:{name}/upload/passwd

Description

Upload NAS server passwd file.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NAS server.	string
Path	name <i>required</i>	Unique name of the NAS server.	string
FormData	body <i>optional</i>	Upload NAS server passwd file.	file

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- `multipart/form-data`

GET /nas_server/{id}/download/passwd

GET /nas_server/name:{name}/download/passwd

Description

Download a NAS server passwd file containing template or the actual (if already uploaded) passwd details.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NAS server.	string
Path	name <i>required</i>	Unique name of the NAS server.	string

Responses

HTTP Code	Description	Schema
200	Success	No Content
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [document/text](#)

POST /nas_server/{id}/upload/hosts

POST /nas_server/name:{name}/upload/hosts

Description

Upload NAS server host file.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NAS server.	string
Path	name <i>required</i>	Unique name of the NAS server.	string
FormData	body <i>optional</i>	Upload NAS server host file.	file

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response

HTTP Code	Description	Schema
422	Operation Failed	error_response

Consumes

- [multipart/form-data](#)

GET /nas_server/{id}/download/hosts

GET /nas_server/name:{name}/download/hosts

Description

Download an NAS server host file containing template/actual(if already uploaded) host details.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NAS server.	string
Path	name <i>required</i>	Unique name of the NAS server.	string

Responses

HTTP Code	Description	Schema
200	Success	No Content
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [document/text](#)

POST /nas_server/{id}/upload/group

POST /nas_server/name:{name}/upload/group

Description

Upload NAS server group file.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NAS server.	string
Path	name <i>required</i>	Unique name of the NAS server.	string
FormData	body <i>optional</i>	Upload NAS server group file.	file

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- `multipart/form-data`

GET /nas_server/{id}/download/group

GET /nas_server/name:{name}/download/group

Description

Download a NAS server group file containing the template or the actual (if already uploaded) group details.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NAS server.	string
Path	name <i>required</i>	Unique name of the NAS server.	string

Responses

HTTP Code	Description	Schema
200	Success	No Content
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [document/text](#)

POST /nas_server/{id}/upload/netgroup

POST /nas_server/name:{name}/upload/netgroup

Description

Upload the NAS server netgroup file.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NAS server.	string
Path	name <i>required</i>	Unique name of the NAS server.	string
FormData	body <i>optional</i>	Upload the NAS server netgroup file.	file

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- `multipart/form-data`

GET /nas_server/{id}/download/netgroup

GET /nas_server/name:{name}/download/netgroup

Description

Download an NAS server netgroup file containing the template or the actual (if already uploaded) netgroup details.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NAS server.	string
Path	name <i>required</i>	Unique name of the NAS server.	string

Responses

HTTP Code	Description	Schema
200	Success	No Content
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [document/text](#)

POST /nas_server/{id}/upload/nsswitch

POST /nas_server/name:{name}/upload/nsswitch

Description

Upload the NAS server nsswitch file.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NAS server.	string
Path	name <i>required</i>	Unique name of the NAS server.	string
FormData	body <i>optional</i>	Upload the NAS server nsswitch file.	file

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- [multipart/form-data](#)

GET /nas_server/{id}/download/nsswitch

GET /nas_server/name:{name}/download/nsswitch

Description

Download a NAS server nsswitch file containing the template or the actual (if already uploaded) nsswitch configuration settings.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NAS server.	string
Path	name <i>required</i>	Unique name of the NAS server.	string

Responses

HTTP Code	Description	Schema
200	Success	No Content
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [document/text](#)

POST /nas_server/{id}/upload/homedir

POST /nas_server/name:{name}/upload/homedir

Description

Upload the NAS server homedir file.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NAS server.	string
Path	name <i>required</i>	Unique name of the NAS server.	string

Type	Name	Description	Schema
FormData	body <i>optional</i>	Upload the NAS server homedir file.	file

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- `multipart/form-data`

GET /nas_server/{id}/download/homedir

GET /nas_server/name:{name}/download/homedir

Description

Download a NAS server homedir file containing the template or the actual (if already uploaded) homedir configuration settings.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NAS server.	string
Path	name <i>required</i>	Unique name of the NAS server.	string

Responses

HTTP Code	Description	Schema
200	Success	No Content
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [document/text](#)

POST /nas_server/{id}/upload/ntxmap

POST /nas_server/name:{name}/upload/ntxmap

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NAS server.	string
Path	name <i>required</i>	Unique name of the NAS server.	string
FormData	body <i>optional</i>	Upload the NAS server ntxmap file.	file

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- [multipart/form-data](#)

GET /nas_server/{id}/download/ntxmap

GET /nas_server/name:{name}/download/ntxmap

Description

Download an NAS server ntxmap file containing the template or the actual (if already uploaded) ntxmap configuration settings.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NAS server.	string
Path	name <i>required</i>	Unique name of the NAS server.	string

Responses

HTTP Code	Description	Schema
200	Success	No Content
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [document/text](#)

POST /nas_server/{id}/update_user_mappings

POST /nas_server/name:{name}/update_user_mappings

Description

Fix the user mappings for all file systems associated with the NAS server. This process updates file ownership on the NAS server's file systems to reflect changes to users' SIDs. A new UID/GID will be obtained from a Unix Directory Service for the user name of the object owner. A user mapping report is also generated. This operation can take a significant amount of time, depending of the size of the file systems.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NAS server.	string
Path	name <i>required</i>	Unique name of the NAS server.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

GET /nas_server/{id}/download/user_mapping_report

GET /nas_server/name:{name}/download/user_mapping_report

Description

Download the report generated by the update_user_mappings action.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NAS server.	string
Path	name <i>required</i>	Unique name of the NAS server.	string

Responses

HTTP Code	Description	Schema
200	Success	No Content
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [document/text](#)

POST /nas_server/{id}/clone

POST /nas_server/name:{name}/clone

Description

Clone creates a new NAS server by using the existing NAS server specified by id as a template. The new NAS server will have all the configurations except for file interfaces. The SMB and NFS server names, when configured, must be changed to avoid server names conflict with the original NAS server. Once cloned, the new NAS server configuration has to be completed using the individual configuration resources. The new NAS server does not have any ongoing relationship with the cloned NAS server specified, while the new filesystems are clones of and part of the family of each original filesystem. FLR-Compliance enabled file systems will not be cloned.

Use of the `is_dr_test` option means that the networking for the new clone must be isolated from the network of the original `nas_server`, because the clone will have duplicate IP addresses with the original.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	NAS Server instance id.	string
Path	name <i>required</i>	NAS Server instance name.	string
Body	body <i>required</i>		nas_server_clone

Responses

HTTP Code	Description	Schema
200	Success	create_response
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

network

Use these resource types to scale and reconfigure the IP networks in a cluster.

GET /network

Description

Query the IP network configurations of the cluster.

Responses

HTTP Code	Description	Schema
200	Success	< network_instance > array
206	Partial content of network instance objects	< network_instance > array

Example HTTP response

Response 200

```
[ {  
  "id" : "NW1",  
  "type" : "Management",  
  "name" : "Default Management Network",  
  "ip_version" : "IPv4",  
}
```

```

    "purposes" : [ ],
    "vlan_id" : 10,
    "prefix_length" : 24,
    "gateway" : "10.0.0.1",
    "mtu" : 1500
  }, {
    "id" : "NW2",
    "type" : "Storage",
    "name" : "Default Storage Network",
    "ip_version" : "IPv4",
    "purposes" : [ "iSCSI" ],
    "vlan_id" : 20,
    "prefix_length" : 24,
    "gateway" : "20.0.0.1",
    "mtu" : 1500
  }, {
    "id" : "NW3",
    "type" : "VMotion",
    "name" : "Default VMotion Network",
    "ip_version" : "IPv4",
    "purposes" : [ ],
    "vlan_id" : 20,
    "prefix_length" : 24,
    "gateway" : "30.0.0.1",
    "mtu" : 1500
  }, {
    "id" : "NW4",
    "type" : "Intra_Cluster_Management",
    "name" : "Default ICM Network",
    "ip_version" : "IPv6",
    "purposes" : [ ],
    "vlan_id" : 0,
    "prefix_length" : 24,
    "gateway" : "",
    "mtu" : 1500
  }, {
    "id" : "NW5",
    "type" : "Intra_Cluster_Data",
    "name" : "Default ICD Network",
    "ip_version" : "IPv6",
    "purposes" : [ ],
    "vlan_id" : 0,
    "prefix_length" : 64,
    "gateway" : "",
    "mtu" : 1500
  } ]

```

POST /network

Description

Create a network. Was added in version 2.0.0.0.

Parameters

Type	Name	Schema
Body	body <i>required</i>	network_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

Example HTTP request

Request body

```
{
  "type" : "Storage",
  "name" : "Additional Storage Network #2",
  "purposes" : [ "ISCSI" ],
  "ip_version" : "IPv4",
  "vlan_id" : 100,
  "gateway" : "10.0.0.2",
  "prefix_length" : 24,
  "storage_discovery_address" : "10.0.0.3",
  "mtu" : 9000,
  "add_addresses" : [ "10.0.0.8", "10.0.0.9" ]
}
```

GET /network/{id}

GET /network/name:{name}

Description

Query a specific IP network configuration.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the IP network.	string
Path	name <i>required</i>	Unique name of the IP network.	string

Responses

HTTP Code	Description	Schema
200	Success	network_instance
404	Not Found	error_response

Consumes

- [application/json](#)

Produces

- [application/json](#)

Example HTTP response

Response 200

```
{
  "id" : "NW6",
  "type" : "Storage",
  "ip_version" : "IPv4",
  "name" : "User-defined Storage Network #1",
  "purposes" : [ "iSCSI" ],
  "vlan_id" : 20,
  "prefix_length" : 24,
  "gateway" : "20.0.0.1",
  "mtu" : 1500,
  "reusable_id" : 12,
  "nvme_discovery_mode" : "Auto_Discovery_CDC",
  "nvme_cdc_address" : "",
  "nvme_cdc_port" : 0
}
```

DELETE /network/{id}

DELETE /network/name:{name}

Description

Delete network. Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the network.	string
Path	name <i>required</i>	Unique name of the network.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /network/{id}

PATCH /network/name:{name}

Description

Modify IP network parameters, such as gateways, netmasks, VLAN identifiers, and IP addresses.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the IP network.	string

Type	Name	Description	Schema
Path	name <i>required</i>	Unique name of the IP network.	string
Body	body <i>optional</i>		network_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- [application/json](#)

Produces

- [application/json](#)

Example HTTP request

Request body

```
{
  "vlan_id" : 100,
  "name" : "Another Storage Network #2",
  "gateway" : "10.0.0.2",
  "prefix_length" : 24,
  "cluster_mgmt_address" : "10.0.0.15",
  "vasa_provider_credentials" : {
    "username" : "user",
    "password" : "password"
  },
  "mtu" : 9000,
  "remove_addresses" : [ "10.0.0.4", "10.0.0.5" ],
  "add_addresses" : [ "10.0.0.8", "10.0.0.9" ]
}
```


POST /network/{id}/replace

POST /network/name:{name}/replace

Description

Reconfigure cluster management network settings from IPv4 to IPv6 or vice versa.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the IP network.	string
Path	name <i>required</i>	Unique name of the IP network.	string
Body	body <i>required</i>		network_replace

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- [application/json](#)

Produces

- [application/json](#)

Example HTTP request

Request body

```
{
  "vlan_id" : 100,
  "gateway" : "10.0.0.2",
  "prefix_length" : 24,
  "cluster_mgmt_address" : "10.0.0.15",
  "vasa_provider_credentials" : {
    "username" : "user",
    "password" : "password"
  },
  "mtu" : 9000,
  "ip_pool_addresses" : [ "10.0.0.4", "10.0.0.5" ],
  "dns_addresses" : [ "10.0.0.10", "10.0.0.11" ],
  "ntp_addresses" : [ "10.0.0.21", "10.0.0.22" ],
  "ntp_servers" : [ {
    "address" : "string",
    "key_id" : 32767,
    "authentication_key" : "0E2rgkFcoYtUaVLN0169QuS0Fsz",
    "hash_function" : "MD5"
  }, {
    "address" : "string",
    "key_id" : 1,
    "authentication_key" : "H4ymGXfRdtPa2Cdf169auK011z",
    "hash_function" : "SHA1"
  } ],
  "vcenter_address" : [ "10.0.0.30" ]
}
```

POST /network/{id}/scale

POST /network/name:{name}/scale

Description

- Add IP ports for use by the storage network, or remove IP ports so they can no longer be used.
- At least one IP port must be configured for use by the storage network.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the IP network.	string
Path	name <i>required</i>	Unique name of the IP network.	string

Type	Name	Description	Schema
Body	body <i>optional</i>		network_scale

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- [application/json](#)

Produces

- [application/json](#)

Example HTTP request

Request body

```
{
  "remove_port_ids" : [ "IP_PORT1", "IP_PORT2" ],
  "add_port_ids" : [ "IP_PORT3", "IP_PORT4" ],
  "add_purposes_subset" : [ "iSCSI", "External_Replication" ]
}
```

POST /network/{id}/scaling_modify

POST /network/name:{name}/scaling_modify

Description

- Modify network purposes, scaled to IP ports

Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the IP network.	string
Path	name <i>required</i>	Unique name of the IP network.	string Was added in version 4.0.0.0.
string	Body	body <i>optional</i>	

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- `application/json`

Produces

- `application/json`

Example HTTP request

Request body

```
[ {  
  "port_ids" : [ "IP_PORT1", "IP_PORT2" ],  
  "add_purposes" : [ "iSCSI", "External_Replication" ],  
  "remove_purposes" : [ "NVMe_TCP" ]  
} ]
```

nfs_export

NFS Exports use the NFS protocol to provide an access point for configured Linux/Unix hosts or IP subnets to access file_systems or file_snapshots.

GET /nfs_export

Description

List NFS Exports.

Responses

HTTP Code	Description	Schema
200	Success	< nfs_export_instance > array
206	Partial content of nfs export instance objects	< nfs_export_instance > array

POST /nfs_export

Description

Create an NFS Export for a Snapshot.

Parameters

Type	Name	Schema
Body	body <i>required</i>	nfs_export_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /nfs_export/{id}

GET /nfs_export/name:{name}

Description

Get NFS Export properties.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	NFS Export object id.	string
Path	name <i>required</i>	NFS Export object name.	string

Responses

HTTP Code	Description	Schema
200	Success	nfs_export_instance
404	Not Found	error_response

DELETE /nfs_export/{id}

DELETE /nfs_export/name:{name}

Description

Delete NFS Export.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	NFS Export object id.	string
Path	name <i>required</i>	NFS Export object name.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /nfs_export/{id}

PATCH /nfs_export/name:{name}

Description

Modify NFS Export Properties.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	NFS Export object id.	string
Path	name <i>required</i>	NFS Export object name.	string
Body	body <i>required</i>		nfs_export_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

nfs_server

Use this resource type to manage NFS servers. One NFS server may be configured per NAS server. At least one NFS share must be created from an NFS server before an NFS client can connect to the storage resources. NFS servers can support the NFSv3 and NFSv4 protocols. The default protocol is NFSv3. It is enabled when the NFS server is created and remains active until the NFS server is deleted.

GET /nfs_server

Description

Query NFS Servers.

Responses

HTTP Code	Description	Schema
200	Success	< nfs_server_instance > array
206	Partial content of nfs server instance objects	< nfs_server_instance > array

POST /nfs_server

Description

Create an NFS server.

Parameters

Type	Name	Schema
Body	body <i>required</i>	nfs_server_create

Responses

HTTP Code	Description	Schema
201	Created	create_response

HTTP Code	Description	Schema
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /nfs_server/{id}

Description

Query a specific NFS server settings instance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NFS server.	string

Responses

HTTP Code	Description	Schema
200	Success	nfs_server_instance
404	Not Found	error_response

DELETE /nfs_server/{id}

Description

Delete an NFS server.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NFS server.	string
Body	body <i>optional</i>		nfs_server_delete

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /nfs_server/{id}

Description

Modify NFS server settings.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NFS server.	string
Body	body <i>required</i>		nfs_server_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /nfs_server/{id}/join

Description

Join the secure NFS server to the NAS server's AD domain, which is necessary for Secure NFS.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NFS server.	string
Body	body <i>required</i>		nfs_server_join

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /nfs_server/{id}/unjoin

Description

Unjoin the secure NFS server from the NAS server's Active Directory domain. If you unjoin with secure NFS exports active, exports will be unavailable to the clients.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NFS server.	string
Body	body <i>required</i>		nfs_server_unjoin

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

node

Use this resource type to retrieve information about nodes in a cluster.

GET /node

Description

Query the nodes in a cluster.

Responses

HTTP Code	Description	Schema
200	Success	< node_instance > array
206	Partial content of node instance objects	< node_instance > array

GET /node/{id}

Description

Query a specific node in a cluster.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the node.	string

Responses

HTTP Code	Description	Schema
200	Success	node_instance
404	Not found	error_response

Consumes

- [application/json](#)

Produces

- [application/json](#)

ntp

Manage DNS and NTP settings for the cluster.

GET /ntp

Description

Query NTP settings for a cluster. This resource type collection query does not support filtering, sorting or pagination.

Responses

HTTP Code	Description	Schema
200	Success	< ntp_instance > array
206	Partial content of ntp instance objects	< ntp_instance > array

GET /ntp/{id}

Description

Query a specific NTP setting.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NTP setting.	string

Responses

HTTP Code	Description	Schema
200	Success	ntp_instance
404	Not Found	error_response

Example HTTP response

Response 200

```
{
  "id" : "NTP1",
  "addresses" : [ "iblox1.lab.mycompany.com", "iblox2.lab.mycompany.com",
    "clock1.example.org", "clock2.example.org" ]
}
```

PATCH /ntp/{id}

Description

Modify NTP settings.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the NTP setting.	string
Body	body <i>required</i>		ntp_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- [application/json](#)

Produces

- [application/json](#)

Example HTTP request

Request body

```
{
  "addresses" : [ "10.254.140.23", "10.254.140.24", "2620:0:170:1d3f:0:bad:beef:66",
"2620:0:170:1d3f:0:bad:beef:67", "clock3.example.org", "clock4.example.org" ]
}
```

ntp_server

Manage NTP server settings for the cluster.

GET /ntp_server

Description

Query ntp_server instances. Was added in version 4.1.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< ntp_server_instance > array

HTTP Code	Description	Schema
206	Partial content of ntp server instance objects	< ntp_server_instance > array

Produces

- [application/json](#)

POST /ntp_server

Description

Create an ntp_server. Was added in version 4.1.0.0.

Parameters

Type	Name	Schema
Body	body <i>required</i>	ntp_server_create

Responses

HTTP Code	Description	Schema
201	Success	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

Consumes

- [application/json](#)

Produces

- [application/json](#)

GET /ntp_server/{id}

Description

Query a specific ntp_server. Was added in version 4.1.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the ntp_server.	string

Responses

HTTP Code	Description	Schema
200	Success	ntp_server_instance
404	Not Found	error_response

DELETE /ntp_server/{id}

Description

Delete a specific ntp_server. Was added in version 4.1.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the ntp_server.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Bad Request	error_response
404	Not Found	error_response
422	Can `t delete	error_response

PATCH /ntp_server/{id}

Description

Modify an ntp_server. Was added in version 4.1.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the ntp_server.	string
Body	body <i>optional</i>		ntp_server_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Consumes

- [application/json](#)

Produces

- [application/json](#)

nvme_discovered_cdc

Query discovered NVMe Centralized Discovery Controllers (CDCs).

GET /nvme_discovered_cdc

Description

Query discovered NVMe Centralized Discovery Controllers (CDCs).

Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< nvme_discovered_cdc_instance > array
206	Partial content of nvme discovered cdc instance objects	< nvme_discovered_cdc_instance > array

oidc_service

Use this resource type to configure the system as a relying party in OIDC. OpenID Connect (OIDC) is an interoperable authentication protocol based on the OAuth 2.0 framework. It allows a client application or website (Relying Party) to verify the identity of users based on the authentication performed by an Open Identity Provider and to obtain user profile information in an interoperable and REST-like manner. Following entities invoked in OIDC:

- End user - A person who must be authenticated before to use local system.
- OpenID Provider(IDP/OP) - An entity that has implemented the OpenID Connect and OAuth 2.0 protocols, OP's can sometimes be referred to by the role it plays, such as: a security token service, an identity provider (IDP), or an authorization server.
- Relying party - Any application or website that outsources its user authentication function to an IDP, for example the local system.

GET /oidc_service

Description

Query oidc_service instances. This resource type collection query does not support filtering, sorting or pagination. Was added in version 4.2.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< oidc_service_instance > array

HTTP Code	Description	Schema
206	Partial content of oidc service instance objects	< oidc_service_instance > array

Produces

- [application/json](#)

POST /oidc_service

Description

Create a new oidc service instance. Was added in version 4.2.0.0.

Parameters

Type	Name	Description	Schema
Body	body <i>required</i>	Request body.	oidc_service_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

GET /oidc_service/{id}

Description

Query a specific oidc_service_instance instance. Was added in version 4.2.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the oidc_service instance.	string

Responses

HTTP Code	Description	Schema
200	Success	oidc_service_instance
404	Not Found	error_response

Produces

- [application/json](#)

DELETE /oidc_service/{id}

Description

Delete a specific oidc_service resource.

Was added in version 4.2.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the oidc_service instance.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- `application/json`

PATCH /oidc_service/{id}

Description

Modify a specific oidc_service resource. Was added in version 4.2.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the oidc_service instance.	string
Body	body <i>required</i>	Request body.	oidc_service_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- `application/json`

POST /oidc_service/{id}/syncup_metadata

Description

Sync up the metadata with IDP. When the configuration changes on the IDP, for instance the ID token's signing key rollover, this API provides a way to force local system to reload the metadata from IDP. The system automatically syncs every 30 minutes so a manual sync-up is only necessary if immediate results are needed.

Was added in version 4.2.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the oidc_service instance.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

performance_rule

Information about performance rules that can be use in performance policies applied to volumes and volume groups.

GET /performance_rule

Description

Get performance rules.

Responses

HTTP Code	Description	Schema
200	OK	< performance_rule_instance > array
206	Partial content of performance rule instance objects	< performance_rule_instance > array

Produces

- `application/json`

GET /performance_rule/{id}

GET /performance_rule/name:{name}

Description

Get a performance rule by id.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Performance Rule id.	string
Path	name <i>required</i>	Performance Rule name.	string

Responses

HTTP Code	Description	Schema
200	OK	performance_rule_instance
404	The performance_rule does not exist.	error_response

Produces

- `application/json`

physical_switch

Manage physical switches settings for the cluster.

GET /physical_switch

Description

Query physical switches settings for a cluster.

Responses

HTTP Code	Description	Schema
200	Success	< physical_switch_instance > array
206	Partial content of physical switch instance objects	< physical_switch_instance > array

POST /physical_switch

Description

Create a physical switch settings.

Parameters

Type	Name	Schema
Body	body <i>required</i>	physical_switch_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

Example HTTP request

Request body

```

{
  "two_connections" : {
    "name" : "Management switch #1",
    "purpose" : "Management_Only",
    "connections" : [ {
      "address" : "10.244.244.244",
      "port" : 22022,
      "connect_method" : "SSH",
      "username" : "admin",
      "ssh_password" : "operatorPassw0rd"
    }, {
      "address" : "sw-core-0.example.org",
      "port" : 11161,
      "connect_method" : "SNMPv2c",
      "snmp_community_string" : "secretCommunityString"
    } ]
  },
  "standard_ssh" : {
    "name" : "Cluster switch #1",
    "purpose" : "Data_and_Management",
    "connections" : [ {
      "address" : "sw-core-0.example.org",
      "connect_method" : "SSH",
      "username" : "operator",
      "ssh_password" : "operatorPassw0rd"
    } ]
  },
  "simple_snmp" : {
    "name" : "ToR switch A",
    "purpose" : "Data_and_Management",
    "connections" : [ {
      "address" : "2001:0db8:85a3:0000:0000:8a2e:2341:7812",
      "connect_method" : "SNMPv2c",
      "snmp_community_string" : "secretCommunityString"
    } ]
  },
  "non_standard_snmp" : {
    "name" : "Management switch A",
    "purpose" : "Management_Only",
    "connections" : [ {
      "address" : "10.233.233.233",
      "port" : 11161,
      "connect_method" : "SNMPv2c",
      "snmp_community_string" : "anotherC0mmunityStr1ng"
    } ]
  }
}

```

GET /physical_switch/{id}

GET /physical_switch/name:{name}

Description

Query a specific physical switch settings.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the physical switch settings.	string
Path	name <i>required</i>	Unique name of the physical switch settings.	string

Responses

HTTP Code	Description	Schema
200	Success	physical_switch_instance
404	Not Found	error_response

Example HTTP response

Response 200

```
{
  "management_only" : {
    "id" : "PHSW1",
    "name" : "Mamagement switch #1",
    "purpose" : "Management_Only"
  },
  "data_and_management" : {
    "id" : "PHSW2",
    "name" : "Cluster switch #1",
    "purpose" : "Data_and_Management"
  }
}
```

DELETE /physical_switch/{id}

DELETE /physical_switch/name:{name}

Description

Delete the physical switch settings.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the physical switch settings.	string
Path	name <i>required</i>	Unique name of the physical switch settings.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /physical_switch/{id}

PATCH /physical_switch/name:{name}

Description

Modify a physical switch settings.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the physical switch settings.	string
Path	name <i>required</i>	Unique name of the physical switch settings.	string

Type	Name	Description	Schema
Body	body <i>optional</i>		physical_switch_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Example HTTP request

Request body

```
{
  "two_connections" : {
    "id" : "PHSW1",
    "name" : "Management switch #1",
    "purpose" : "Management_Only",
    "connections" : [ {
      "address" : "10.244.244.244",
      "port" : 22022,
      "connect_method" : "SSH",
      "username" : "admin",
      "ssh_password" : "operatorPassw0rd"
    }, {
      "address" : "sw-core-0.example.org",
      "port" : 11161,
      "connect_method" : "SNMPv2c",
      "snmp_community_string" : "secretCommunityString"
    } ]
  },
  "standard_ssh" : {
    "id" : "PHSW2",
    "name" : "Cluster switch #1",
    "purpose" : "Data_and_Management",
    "connections" : [ {
      "address" : "sw-core-0.example.org",
      "connect_method" : "SSH",
      "username" : "operator",
```

```

    "ssh_password" : "operatorPassw0rd"
  } ]
},
"simple_snmp" : {
  "id" : "PHSW3",
  "name" : "ToR switch A",
  "purpose" : "Data_and_Management",
  "connections" : [ {
    "address" : "2001:0db8:85a3:0000:0000:8a2e:2341:7812",
    "connect_method" : "SNMPv2c",
    "snmp_community_string" : "secretCommunityString"
  } ]
},
"non_standard_snmp" : {
  "id" : "PHSW4",
  "name" : "Management switch A",
  "purpose" : "Management_Only",
  "connections" : [ {
    "address" : "10.233.233.233",
    "port" : 11161,
    "connect_method" : "SNMPv2c",
    "snmp_community_string" : "anotherC0mmunityStr1ng"
  } ]
}
}

```

policy

Use this resource type to manage protection policies and QoS performance policies and to view information about performance policies.

Note: Performance policies are predefined for high, low, and medium performance. New performance policies cannot be created, and existing performance policies cannot be modified.

Protection policies can be assigned to storage resources. When a protection policy is assigned to a storage resource:

- If the policy is associated with one or more snapshot rules, scheduled snapshots are created based on the schedule specified in each snapshot rule.
- If the policy is associated with a replication rule, a replication session is created and synchronized based on the RPO specified in the replication rule.

GET /policy

Description

Query protection and performance policies.

The following REST query is an example of how to retrieve protection policies along with their

rules and associated storage resources:

```
https://{cluster_ip}/api/rest/policy?
select=name,id,type,replication_rules(id,name,rpo,remote_system(id,name,management_address)),sn
apshot_rules(id,name,interval,time_of_day,days_of_week),volumes(id,name),volume_groups(id,name)
&type=eq.Protection
```

The following REST query is an example of how to retrieve performance policies along with their associated resources:

```
https://{cluster_ip}/api/rest/policy?
select=name,id,type,volumes(id,name),volume_groups(id,name)&type=eq.Performance
```

Responses

HTTP Code	Description	Schema
200	Success	< policy_instance > array
206	Partial content of policy instance objects	< policy_instance > array

POST /policy

Description

Create a new protection or QoS policy.

Parameters

Type	Name	Schema
Body	body <i>required</i>	policy_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /policy/{id}

GET /policy/name:{name}

Description

Query a specific policy.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the policy.	string
Path	name <i>required</i>	Unique name of the policy.	string

Responses

HTTP Code	Description	Schema
200	Success	policy_instance
404	Not Found	error_response

DELETE /policy/{id}

DELETE /policy/name:{name}

Description

Delete a protectionor QoS policy.

Policies cannot be deleted if they are assigned to a storage resource.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the protectionor QoS policy to be deleted.	string
Path	name <i>required</i>	Unique name of the protectionor QoS policy to be deleted.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /policy/{id}

PATCH /policy/name:{name}

Description

Modify a protectionor QoS policy.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the protectionor QoS policy to be modified.	string
Path	name <i>required</i>	Unique name of the protectionor QoS policy to be modified.	string
Body	body <i>optional</i>		policy_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /policy/{id}/clone

POST /policy/name:{name}/clone

Description

Clone a protection policy. Creates an identical copy of this protection policy along with cloned copies of this policy's rules. The clone will be a read-write, user-managed protection policy.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the protection policy to be cloned.	string
Path	name <i>required</i>	Unique name of the protection policy to be cloned.	string
Body	body <i>required</i>		policy_clone

Responses

HTTP Code	Description	Schema
200	Success	policy_clone_response
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

recycle_bin

Use this resource type to manage storage that is temporarily in the recycle bin before being permanently deleted.

GET /recycle_bin

Description

Query to get the objects that are currently in the recycle bin. Was added in version 3.5.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< recycle_bin_instance > array
206	Partial content of recycle bin instance objects	< recycle_bin_instance > array

GET /recycle_bin/{id}

GET /recycle_bin/name:{name}

Description

Query a specific recycle bin instance. Was added in version 3.5.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the instance to retrieve.	string
Path	name <i>required</i>	Unique name of the instance to retrieve.	string

Responses

HTTP Code	Description	Schema
200	Success	recycle_bin_instance
404	Not Found	error_response

DELETE /recycle_bin/{id}

DELETE /recycle_bin/name:{name}

Description

Permanently delete a storage object in the recycle bin. Was added in version 3.5.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the storage object to delete.	string
Path	name <i>required</i>	Unique name of the storage object to delete.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /recycle_bin/{id}/recover

POST /recycle_bin/name:{name}/recover

Description

Recover one storage object from the recycle bin. Was added in version 3.5.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the instance to recover.	string

Type	Name	Description	Schema
Path	name <i>required</i>	Unique name of the instance to recover.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /recycle_bin/empty

Description

Empty the recycle bin by permanently deleting all storage objects it contains. Was added in version 3.5.0.0.

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
422	Operation Failed	error_response

recycle_bin_config

Use this resource type to manage settings for the recycle bin. Deleted storage is retained temporarily in the recycle bin before being permanently deleted.

GET /recycle_bin_config

Description

Query Recycle bin configuration settings. Was added in version 3.5.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< recycle_bin_config_instance > array
206	Partial content of recycle bin config instance objects	< recycle_bin_config_instance > array

GET /recycle_bin_config/{id}

Description

Query a specific recycle bin configuration instance. Was added in version 3.5.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the instance to retrieve (always = "0")	string

Responses

HTTP Code	Description	Schema
200	Success	recycle_bin_config_instance
404	Not Found	error_response

PATCH /recycle_bin_config/{id}

Description

Modify recycle bin configuration settings. Was added in version 3.5.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the instance to modify (always = "0")	string
Body	body <i>required</i>		recycle_bin_config_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

remote_support

Manage remote support settings for the cluster including enabling or disabling remote connectivity through SRS.

GET /remote_support

Description

List the current remote support configuration for the cluster. Was added in version 4.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< remote_support_instance > array
206	Partial content of remote support instance objects	< remote_support_instance > array

GET /remote_support/{id}

Description

List the current remote support configuration for the cluster. Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	The unique identifier. Always "0". Was added in version 4.0.0.0.	string

Responses

HTTP Code	Description	Schema
200	Success	remote_support_instance
404	Not Found	error_response

PATCH /remote_support/{id}

Description

Enable, disable or modify the remote support configuration for the cluster Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	The unique identifier. Always "0". Was added in version 4.0.0.0.	string
Body	body <i>required</i>	Remote support configuration options	remote_support_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /remote_support/{id}/verify

Description

Verify that the customer network is properly configured for the selected remote support type. Check the local network to determine if it is configured correctly for the selected remote support configuration. By default, the currently configured addresses will be verified. When the type is SRS_Gateway, the address of a new gateway server can be supplied. Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	The unique identifier. Always "0". Was added in version 4.0.0.0.	string
Body	body <i>optional</i>		remote_support_verify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /remote_support/{id}/send_test_alert

Description

Send a test alert to your support provider to verify that remote support is operating correctly. Was

added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	The unique identifier. Always "0". Was added in version 4.0.0.0.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

remote_support_contact

Manage remote support contact.

GET /remote_support_contact

Description

List the current remote support contact information. Was added in version 2.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< remote_support_contact_instance > array
206	Partial content of remote support contact instance objects	< remote_support_contact_instance > array

GET /remote_support_contact/{id}

Description

Query to get the current remote support contact for the cluster. Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	The unique id of the remote_support_contact instance. Was added in version 2.0.0.0.	string

Responses

HTTP Code	Description	Schema
200	Success	remote_support_contact_instance
404	Not Found	error_response

PATCH /remote_support_contact/{id}

Description

Modify the remote support contact information. Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	The unique id of the remote_support_contact instance. Was added in version 2.0.0.0.	string
Body	body <i>required</i>	Remote support contact modify parameters.	remote_support_contact_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response

HTTP Code	Description	Schema
404	Not Found	error_response
422	Operation Failed	error_response

remote_syslog_server

Use this resource type to manage remote syslog server(s).

GET /remote_syslog_server

Description

Query the remote_syslog_server configurations. Was added in version 2.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< remote_syslog_server_instance > array
206	Partial content of remote syslog server instance objects	< remote_syslog_server_instance > array

POST /remote_syslog_server

Description

Create a remote_syslog_server object. Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Body	body <i>required</i>	Remote syslog server to receive logging information.	remote_syslog_server_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /remote_syslog_server/{id}

Description

Query a specific remote_syslog_server configuration. Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the remote_syslog_server configuration. Was added in version 2.0.0.0.	string

Responses

HTTP Code	Description	Schema
200	Success	remote_syslog_server_instance
404	Not Found	error_response

DELETE /remote_syslog_server/{id}

Description

Delete a remote_syslog_server object. Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the remote syslog server object.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /remote_syslog_server/{id}

Description

Modify a remote_syslog_server configuration. Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the remote_syslog_server configuration. Was added in version 2.0.0.0.	string
Body	body <i>required</i>		remote_syslog_server_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /remote_syslog_server/{id}/test

Description

Test the specific remote_syslog_server configuration. Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the remote syslog server object.	string
Body	body <i>optional</i>	Custom text message to be sent as part of the test message.	remote_syslog_server_test

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

remote_system

Information about remote storage systems that connect to the local PowerStore system. The system uses the configuration to access and communicate with the remote system for management and data transfer communications.

The PowerStore local system can establish a remote system relationship with different types of remote storage systems for replication remote protection and import use-cases. Refer to the RemoteSystemTypeEnum specification for a list of system types supported.

For example, to use remote replication for block or file, create a remote system for the PowerStore that will be the destination for the replication session.
For remote backup, create a remote system for the Data Domain storage unit that will receive the remote backups from PowerStore
For block import, remote systems can be created for PS_Equallogic, Unity, Storage_Center, XtremeIO, NetApp, PowerMax/VMAX, VNX and other universal storage systems.

After creating a remote system, the local PowerStore system automatically detects the configuration and enables the supported capabilities for the paired remote system. For newer features, both the local and remote system will need to be running the software version (or later) that supports that new feature. If one of the systems is running an older software version then that capability will not be available and the feature cannot be used.

NOTE Before creating a remote system relationship with PowerStore remote systems, first establish a Certificate Based Trust between the local and remote PowerStore systems using the **verify** and **exchange** operations on the **x509_certificate** resource type.

GET /remote_system

Description

Query remote systems.

Responses

HTTP Code	Description	Schema
200	Success	< remote_system_instance > array
206	Partial content of remote system instance objects	< remote_system_instance > array

POST /remote_system

Description

Create a new remote system relationship for the local PowerStore.

For PowerStore remote systems, the following parameters are required:

- Management address - An IP address
- Type of remote system
- Data connection type - TCP or FC. TCP is the default. * Data network latency type - Only required when the data connection type is TCP. PowerStore remote systems will support Unified (Block and File) by default. The relationship will be created for both directions. Remote protection policies can be configured using the PowerStore remote system instance on either of the systems. This enables remote replication capabilities for storage resources in either direction. The data connections take into account whether Challenge Handshake Authentication Protocol (CHAP) is enabled on local and remote PowerStore systems. Data connections are configured

based on the local and remote storage networks that are defined to be used for replication data transfer. When a remote system is created against a remote PowerStore cluster with data connection type TCP, system automatically discovers all available local and remote storage networks defined for replication data transfer connections and creates a default group with lists of local and remote storage networks defined for replication use-cases. User can modify the remote system relationship by reconfiguring data network configuration groups to match the network topology as laid out in the environment. When data connection type is FC, no default network group is created.

For block import to PowerStore, remote systems can be created for PS_Equallogic, Storage_Center, XtremeIO, NetApp, PowerMax/VMAX, VNX, and some universal storage systems. For VNX and Unity, both block and file import are supported. Unity, Storage_Center, XtremeIO, and VNX remote systems can be created with data connection type of iSCSI or FC. PS_Equallogic and NetApp can only be created with data connection type of iSCSI. PowerMax/VMAX can only be created with data connection type of FC.

For VNX, Unity, PS_Equallogic, Storage_Center, XtremeIO, and NetApp remote systems with iSCSI as the data connection type, the following parameters are required:

- Management address - Either an IP address or FQDN.
- Type of remote system
- Name
- Description
- Remote administrator credentials
- iSCSI address - IPv4 address only
- CHAP mode for discovery or session
- CHAP secrets details

For VNX, Unity, Storage_Center, XtremeIO, and PowerMax/VMAX remote systems with FC as the data connection type, the following parameters are required:

- Management address - Either an IP address or FQDN.
- Type of remote system
- Name
- Description
- Remote administrator credentials
- Data Connection Type - FC
- Management Port - Management port is applicable only for PowerMax/VMAX remote system.

For VNX remote systems for file import, include the following parameters along with above block parameters for both block and file import or only below file parameters for file import only cases:

- File connection address - Control station IP address of the VNX.
- VNX as type of remote system

- NAS admin username
- NAS admin password
- Name
- Description

To create unified (Block and File) Unity remote systems, the following parameters are required:

- Management address - Either an IP address or FQDN.
- Unity as type of remote system
- Description
- Remote administrator credentials
- iSCSI address - IPv4 address only
- Data Connection type - iSCSI
- CHAP mode for discovery or session
- CHAP secrets details
- Unity file details

To create a Data Domain remote system, the following parameters are required:

- Management address - Either an IP address or FQDN.
- Type of remote system
- Name
- Description
- Remote user name
- Remote user password
- Data Domain details

To create a universal remote system, the following parameters are required:

- Management address - IP address or FQDN.
- Universal as the type of remote system
- Name
- Description
- Data Connection Type - iSCSI/FC
- iSCSI address - IPv4 address applicable only for data connection type iSCSI
- CHAP mode for discovery or session - applicable only for data connection type iSCSI
- CHAP secrets details - applicable only for data connection type iSCSI
- Universal details - applicable only for data connection type FC

Based on the type of remote system and version of PowerStore software, the system will

automatically determine the capabilities for that remote system. After the remote system relationship is created, the local system can communicate with the remote system, and open data connections for data transfer.

Parameters

Type	Name	Description	Schema
Body	body <i>required</i>	Parameters to create a remote system.	remote_system_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /remote_system/{id}

GET /remote_system/name:{name}

Description

Query a remote system instance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the remote system.	string

Responses

HTTP Code	Description	Schema
200	Success	remote_system_instance
404	Not Found	error_response

DELETE /remote_system/{id}

DELETE /remote_system/name:{name}

Description

Delete a remote system. Deleting the remote system deletes the management and data connections established with the remote system. You cannot delete a remote system if there are active import sessions or if there are remote protection policies in the system referencing the remote system instance.

By default for PowerStore remote systems, the relationship is deleted in both directions if the remote system is online and reachable. If there is no management connectivity between the local and remote PowerStore systems then the remote system will only be deleted from the local PowerStore system. Once the remote PowerStore system is back online and reachable then the user can log in to the remote PowerStore system and delete its remote system.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the remote system.	string
Path	name	string	Body

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /remote_system/{id}

PATCH /remote_system/name:{name}

Description

Modify a remote system instance. The list of valid parameters depends on the type of remote system.

For PowerStore remote systems:

- Description
- Management address - An IP address
- add_powerstore_data_network_groups
- modify_powerstore_data_network_groups
- remove_powerstore_data_network_group_ids
- Data network latency type

Only one network group operation (add_powerstore_data_network_groups, modify_powerstore_data_network_groups, remove_powerstore_data_network_group_ids) is supported per request. Modifying the network is not allowed when data connection type is FC.

For VNX remote systems, file_connection_address, vnx_username and password may be provided during modify if they are not already set. For VNX2 remote systems, mgmt_address, vnx_username and password are not necessary to modify the VNX2 remote system from block to unified if they are already set.

- Description
- Management address - IP address or FQDN.
- Remote administrator credentials
- File connection address - Control station IPv4 or IPv6 address of the VNX.
- NAS admin username
- NAS admin password

In Unity remote systems, for file import capability, service account credentials can be provided in unity file details during modify if it does not exist already. Otherwise only service_account_password is allowed to modify:

- Description
- Management address - IP address or FQDN.
- Remote administrator credentials
- unity file details

For Data Domain remote systems, the attributes that can be modified are:

- Management address
- Remote Password

For PowerMax/VMAX remote systems, the attributes that can be modified are:

- Description
- Management address - IP address or FQDN.
- Remote administrator credentials

- Management Port

For other non-PowerStore remote systems, the attributes that can be modified are:

- Name
- Description
- Management address - IP address or FQDN.
- Remote administrator credentials

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the remote system.	string
Path	name	string	Body

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /remote_system/{id}/verify

POST /remote_system/name:{name}/verify

Description

Verify and update the remote system instance.

Detects changes in the local and remote systems and reestablishes data connections, also taking the Challenge Handshake Authentication Protocol (CHAP) settings into account for iSCSI.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the remote system.	string
Path	name	string	Body

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /remote_system/{id}/discover

POST /remote_system/name:{name}/discover

Description

Discover the importable resources such as volumes, consistency groups, file systems and snapshot schedules from the remote system. This api is not applicable for PowerStore and cloud type remote systems. For VNX remote system it discovers both block and file resources together if it have both file and block import capabilities.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the remote system.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /remote_system/{id}/query_available_powerstore_networks

POST /remote_system/name:{name}/query_available_powerstore_networks

Description

Query available PowerStore networks configured on local and remote clusters.

Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the remote_system.	string
Path	name	string Was added in version 4.0.0.0.	string
Body	body <i>optional</i>		remote_system_query_available_powerstore_networks

Responses

HTTP Code	Description	Schema
200	Success	remote_system_query_available_powerstore_networks_response
204	Success	No Content
400	Invalid Request	error_response

HTTP Code	Description	Schema
404	Not Found	error_response
422	Operation Failed	error_response

replication_group

A replication group defines a grouping of replicated virtual volumes from one or more virtual machines to provide atomic failover for an application. In other words, a replication group is the unit of failover.

GET /replication_group

Description

Query existing replication groups. Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< replication_group_instance > array
206	Partial content of replication group instance objects	< replication_group_instance > array

GET /replication_group/{id}

GET /replication_group/name:{name}

Description

Get a specific replication group. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Id of the replication group.	string

Type	Name	Description	Schema
Path	name <i>required</i>	Name of the replication group.	string

Responses

HTTP Code	Description	Schema
200	Success	replication_group_instance
404	Not Found	error_response

DELETE /replication_group/{id}

DELETE /replication_group/name:{name}

Description

Delete a replication group. This method is only for cleanup after unrecoverable disaster of peer site or vCenter. Normally replication group membership and replication status should be manipulated from vSphere side. By default this operation permitted only on primary replication groups without sessions. Replication groups are normally deleted automatically and asynchronously.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the replication group to be deleted.	string
Path	name <i>required</i>	Unique name of the replication group to be deleted.	string
Body	body <i>optional</i>	Parameters of the replication group delete operation.	replication_group_delete

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /replication_group/{id}

PATCH /replication_group/name:{name}

Description

Modify the properties of a replication group. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the replication group to modify.	string
Path	name <i>required</i>	Unique name of the replication group to modify.	string
Body	body <i>required</i>	Parameters of the replication group modify operation.	replication_group_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

replication_rule

Use this resource type to manage the replication rules that are used in protection policies.

GET /replication_rule

Description

Query all replication rules.

Responses

HTTP Code	Description	Schema
200	Success	< replication_rule_instance > array
206	Partial content of replication rule instance objects	< replication_rule_instance > array

POST /replication_rule

Description

Create a new replication rule.

Parameters

Type	Name	Schema
Body	body <i>required</i>	replication_rule_create

Responses

HTTP Code	Description	Schema
201	Success	create_response
400	Invalid request	error_response
422	Operation Failed	error_response

GET /replication_rule/{id}

GET /replication_rule/name:{name}

Description

Query a specific replication rule.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the replication rule.	string
Path	name <i>required</i>	Unique name of the replication rule.	string

Responses

HTTP Code	Description	Schema
200	Success	replication_rule_instance
404	Not Found	error_response

DELETE /replication_rule/{id}

DELETE /replication_rule/name:{name}

Description

Delete a replication rule. Deleting a replication rule is not allowed if the replication rule is associated with a protection policy that is currently assigned to one or more storage resources.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the replication rule.	string
Path	name <i>required</i>	Unique name of the replication rule.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /replication_rule/{id}

PATCH /replication_rule/name:{name}

Description

Modify a replication rule.

If the replication rule is associated with a policy that is currently applied to a storage resource, the modified rule is immediately applied to the associated storage resource. However, changing the `remote_system_id` is not allowed if the replication rule is included in a policy that is currently applied to a storage resource.

To change the `remote_system_id` in this case, please follow one of the following procedures:

- Unassign the protection policy from the relevant storage resources, modify the replication rule, and then re-assign the protection policy to the relevant storage resources.
- Remove the replication rule from the protection policies that use it, modify the replication rule, and then add it back to the relevant protection policies.

When modifying RPO of a replication rule to Zero, the remote system must also support RPO value of Zero, meaning it has the capability of `Synchronous_Block_Replication`. Zero RPO is only supported for volumes, write-order-consistent volume groups, and NAS servers. If a replication rule is used by storage resources through one or more protection policies, RPO of a replication rule can only be modified to Zero when the system supports RPO Zero for all current associated storage resources. Modification of the 'rpo' value to or from Zero (sync replication) is not allowed when the rule is in use by a policy assigned to a NAS server. Create a new replication rule and protection policy instead.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the replication rule.	string

Type	Name	Description	Schema
Path	name <i>required</i>	Unique name of the replication rule.	string
Body	body <i>optional</i>		replication_rule_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /replication_rule/{id}/clone

POST /replication_rule/name:{name}/clone

Description

Clone a replication rule. Creates an identical copy of the specified replication rule. The newly created replication rule will be a read-write, user-managed replication rule.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the replication rule to be cloned.	string
Path	name <i>required</i>	Unique name of the replication rule to be cloned.	string
Body	body <i>required</i>		replication_rule_clone

Responses

HTTP Code	Description	Schema
200	Success	replication_rule_clone_response
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

replication_session

Use this resource type to manage replication sessions for storage resources in the system.

In addition to copying data, the replication session synchronizes configuration changes on local resource and replicates user and scheduled snapshots to remote system.

Replication sessions of different types are created or deleted based on the type of protection operation applied on the storage resource.

Asynchronous replication session gets created or deleted based on protection_policy assign or unassign operation on a storage resource.

Metro_Sync replication session gets created or deleted based on configure or end_metro operation on a storage resource.

Replication sessions provide life cycle operations that would allow user to:

- do coordinated maintenance activities such as pause/resume
- recover from different failures for business continuity and allow reprotect of replication relationship

Asynchronous replication destination storage resources are in replication destination mode, which disables any write access to the destination resource.

Metro Sync replication when in Active_Active data transfer state, makes both local and remote storage resource available for write access. Writes done on local or remote storage resource are synchronously replicated in both directions.

GET /replication_session

Description

Query replication sessions.

Responses

HTTP Code	Description	Schema
200	Success	< replication_session_instance > array
206	Partial content of replication session instance objects	< replication_session_instance > array

GET /replication_session/{id}

Description

Query a replication session instance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the replication session.	string

Responses

HTTP Code	Description	Schema
200	Success	replication_session_instance
404	Not Found	error_response

PATCH /replication_session/{id}

Description

Modify a replication session instance.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the replication session.	string
Body	body <i>required</i>		replication_session_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /replication_session/{id}/sync

Description

Supported for Asynchronous type replication sessions. Synchronize the destination resource with changes on source resource from the previous synchronization cycle.

Also synchronizes any size changes, membership changes, or both, on the source resource. At the end of the synchronization cycle, the destination resource reflects the state as it was when synchronization began. Any size changes, membership changes, or both, to source resource done during the synchronization cycle are replicated in next synchronization cycle.

Synchronization is allowed when the replication session is in the following states:

- OK
- System_Paused

During synchronization, you can take the following actions:

- Planned failover from the source system
- Failover from the destination system
- Pause replication sessions from the source or destination system

- Delete a replication session by removing a protection policy

Synchronization failure places the replication session in a System_Paused state. When the system recovers, the replication session continues from the same point as when the system paused, using the restart address.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the replication session.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /replication_session/{id}/pause

Description

Pause a replication session instance. You can pause a replication session for maintenance activities on local or remote system.

The session can be paused when it is in the following states:

- OK
- Synchronizing
- System_Paused
- Fractured

In case of loss of network connectivity between two sites, the replication session is paused only on the local system where it is issued. Pause the replication session again to pause both sites. The following operations are not allowed while only the replication session on the local system is paused:

- Resume
- Sync

- Planned Failover

The following operations are allowed while only the replication session on the local system is paused:

- Pause** Use to place both sites into the **Paused** state
- Failover** Use to get production access from the disaster recovery site
- Promote** Use to get production access from local cluster
- Demote** Use to remove production access from local cluster
- Delete** Delete the replication session

The following system operations may also pause, and subsequently resume, a replication session:

- Non-disruptive upgrade
- Intra-cluster migration

Leaving replication session in a paused state results in change accumulations on the production mode system. Resuming a replication session that has been paused for a long time can result in long synchronization times.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the replication session.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /replication_session/{id}/resume

Description

Resume a replication session instance that is paused. Resuming the replication session initiates a synchronization cycle if the session was in the following states when the session was paused:

- Synchronizing
- System_Paused
- Fractured

You cannot resume replication sessions paused by the system. The following system operations may also pause, and subsequently resume, a replication session.

- Paused_for_NDU
- Paused_for_Migration

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the replication session.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /replication_session/{id}/failover

Description

Fail over a replication session instance of type Asynchronous. Failing over the replication session changes the role of the destination system. After a failover, the original destination system becomes the source system, and production access is enabled for hosts and applications for recovery. Failovers can be planned or unplanned.

Planned failovers are issued from the source system and are indicated by setting the `is_planned`

parameter to true. When you fail over a replication session from the source system, the destination system is fully synchronized with the source to ensure that there is no data loss. During a planned failover, stop I/O operations for any applications and hosts. If a synchronization error occurs during a planned failover, the replication session enters the System_Paused state. You cannot pause a replication session during a planned failover. The following operations can be performed during planned failover:

- Unplanned failover
- Delete the replication session by removing the protection policy on the storage resource

Failover (planned or unplanned) cannot be performed when a test failover is in progress.

After a planned failover, the replication session is in an inactive state. You can use the reprotect action to synchronize the destination storage resource, and then resume the replication session. The auto-reprotect feature can also be used after a planned failover by using the reverse parameter, which activates the session in the reverse direction.

Unplanned failures are events such as source system failure or an event on the source system that leads to downtime for production access.

Unplanned failovers are issued from the destination system, and are indicated by setting the `is_planned` parameter to false. Unplanned failovers provide production access to the original destination resource from a preview synchronized point-in-time snapshot referred to as replication common-base. After an unplanned failover, you can restore the system from any point-in-time snapshots on the new source resource. Unplanned failovers place the original source resource into destination mode once it reestablishes a connection to the source system. You can use the reprotect action to synchronize the destination storage resource, and then resume the replication session.

After the replication session has failed over, you can resize the volume group or change the volume group membership on the new source resource.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the replication session.	string
Body	body <i>optional</i>		replication_session_failover

Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /replication_session/{id}/reprotect

Description

Reprotect a replication session instance of type Asynchronous. Activates the replication session and starts synchronization. For session of type Asynchronous, this can only be used when the session has been failed over and from the system that is reported as source.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the replication session.	string
Body	body <i>optional</i>	Parameters to reprotect a replication session. Was added in version 4.0.0.0.	replication_session_reprotect

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /replication_session/{id}/promote

Description

Promote a metro type replication session to enable production access to the resource on the local side of the metro session. The local resource is granted production access independent of its

preferred or non-preferred role in the metro relationship. This operation does not change the state of the Metro session. The `local_resource_state` property on the session instance will indicate that the local side of the metro session was promoted through user action.

A snapshot of the local resource will be created before the promote operation. The expiration time of this snapshot will be set to 3 days.

This operation can be performed only when the metro session is in the Fractured or Paused states.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the replication session. Was added in version 3.0.0.0.	string
Body	body <i>optional</i>	Parameters to promote a replication session.	replication_session_promote

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /replication_session/{id}/start_failover_test

Description

Start a disaster recovery (DR) failover simulation test at the destination site of a replication session of type Asynchronous to simulate a failover and grant production access to the destination resource. This will enable DR site hosts to access the destination site resource and allow users to test their DR configuration and readiness without interrupting activity at the production site. Replication synchronization activity from the production site will continue to happen while the test is in progress except for the actual synchronization of the destination resource with the primary. Any changes made to the destination resource during the test, including resizing, can be optionally saved in a snapshot at the end of the test, at which point the destination resource will revert to its normal state and role.

Starting of a DR failover simulation test is allowed only at the destination site of a replication session and only when the session is in the following states:

- OK
- Synchronizing
- Paused
- System_Paused

This operation is not allowed when a test failover is already in progress on the replication session or if the session is in the following states:

- Planned_Failover_In_Progress
- DR_Failover_In_Progress
- Failed_Over
- Paused_For_NDU
- Paused_For_Migration

During the test, the following restrictions apply:

- Membership changes are not allowed for destination resources that belong to a volume group.
- The session cannot be failed over (planned or unplanned).

Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the replication session. Was added in version 2.0.0.0.	string
Body	body <i>optional</i>	Parameters to start a DR failover simulation test on a replication session.	replication_start_failover_test

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response

HTTP Code	Description	Schema
422	Operation Failed	error_response

POST /replication_session/{id}/stop_failover_test

Description

Stop a disaster recovery (DR) failover simulation test that is in progress at the destination site of a replication session of type Asynchronous and revert the destination resource to its normal state and role.

Stopping of a DR failover simulation test is allowed only at the destination site of a replication session and only when a test failover is in progress on the replication session.

Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the replication session. Was added in version 2.0.0.0.	string
Body	body <i>optional</i>	Parameters to stop a DR failover simulation test on a replication session.	replication_stop_failover_test

Responses

HTTP Code	Description	Schema
200	Created	replication_session_stop_failover_test_response
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /replication_session/{id}/demote

Description

This is to demote a local resource to make it unavailable. This is used in specific failure scenario where user needs ability to move a preferred side local resource into unavailable state. The `local_resource_state` property on the session instance will indicate that the local side of the metro session was demoted through user action.

This operation can be performed only when the metro session is in the Fractured or Paused states.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the replication session. Was added in version 3.0.0.0.	string
Body	body <i>optional</i>	Parameters to demote a replication session.	replication_session_demote

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

role

Use these resource types to manage sessions, roles, and system security configurations.

GET /role

Description

Query roles. This resource type collection query does not support filtering, sorting or pagination.

Responses

HTTP Code	Description	Schema
200	Success	< role_instance > array
206	Partial content of role instance objects	< role_instance > array

Produces

- [application/json](#)

GET /role/{id}

Description

Query a specific role.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the role.	string

Responses

HTTP Code	Description	Schema
200	Success	role_instance
404	Not Found	error_response

Produces

- [application/json](#)

sas_port

Use this resource type to retrieve information about SAS ports.

GET /sas_port

Description

Query the SAS port configuration for all cluster nodes.

Responses

HTTP Code	Description	Schema
200	Success	< sas_port_instance > array
206	Partial content of sas port instance objects	< sas_port_instance > array

GET /sas_port/{id}

GET /sas_port/name:{name}

Description

Query a specific SAS port configuration.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the SAS port.	string
Path	name <i>required</i>	Unique name of the SAS port.	string

Responses

HTTP Code	Description	Schema
200	Success	sas_port_instance
404	Not Found	error_response

Example HTTP response

Response 200

```
{
  "id" : "cd919479ce234f31be4e31c551709910",
  "name" : "BaseEnclosure-NodeA-EmbeddedModule-BEPort0",
  "appliance_id" : "A1",
  "node_id" : "8889b456968142af81c71a9a91959690",
  "is_link_up" : true,
  "is_in_use" : true,
  "current_speed" : "12_Gbps",
  "sfp_id" : "d2882f9bf50a44d0a7261fa1c25dbb54",
  "io_module_id" : "167d5cb4f1ff49dc87b5e07c26e0a0f4",
  "hardware_parent_id" : "167d5cb4f1ff49dc87b5e07c26e0a0f4",
  "port_index" : 1,
  "partner_id" : "a3ef59feefaa49a3a3d6d5c8b0cbc058",
  "stale_state" : "Not_Stale"
}
```

security_config

system security configuration

GET /security_config

Description

Query system security configurations. This resource type collection query does not support filtering, sorting or pagination.

Responses

HTTP Code	Description	Schema
200	Success	< security_config_instance > array
206	Partial content of security config instance objects	< security_config_instance > array

Produces

- `application/json`

GET /security_config/{id}

Description

Query a specific system security configuration.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the instance.	string

Responses

HTTP Code	Description	Schema
200	Success	security_config_instance
404	Not Found	error_response

Produces

- [application/json](#)

PATCH /security_config/{id}

Description

Modify the security configuration for the cluster. Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the instance.	string
Body	body <i>required</i>		security_config_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /security_config/generate_temp_credentials

Description

This proprietary credential from PowerStore is valid for 10 mins. It is specially used for supporting the VASA Provider registration with vCenter and creating Certificate Based trust for Remote Replication relationship when CAC/PIV is enabled on the remote Powerstore system. Credentials can be generated by providing any valid PowerStore account. It is generated based on the user account being used to execute the request. Therefore, when the credential is used as the credential to access Powerstore system, same privilege will be given as the account originate the credential generation.

Was added in version 4.1.0.0.

Responses

HTTP Code	Description	Schema
200	Success	security_config_generate_temp_credentials_response
204	Success	No Content
400	Invalid Request	error_response
422	Operation Failed	error_response

service_action

Manage service service actions like reboot and power off.

GET /service_action

Description

List the available service actions. Was added in version 4.2.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< service_action_instance > array
206	Partial content of service action instance objects	< service_action_instance > array

GET /service_action/{id}

Description

List information on a single service action. Was added in version 4.2.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	See ServiceActionTypeEnum or list the available actions to see the valid values.	enum (Reboot, Power_Down)

Responses

HTTP Code	Description	Schema
200	List information on a single service action.	service_action_instance
404	Invalid service action	error_response

Produces

- `application/json`

POST /service_action/{id}/execute

Description

Execute the specified service action according to the resource_type and resource_id specified. Reboot is only for node, and Power_Down is for node, appliance, or cluster.

Was added in version 4.2.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Reboot is only for node, and Power_Down is for node, appliance, or cluster.	enum (Reboot, Power_Down)
Body	body <i>required</i>		service_action_execute

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

service_config

Manage the service configuration for each appliance.

- 'SSH Access' - Manage the ability for the service user to remotely connect to the nodes in an appliance using SSH.

GET /service_config

Description

Query the service configuration instances for the cluster. This resource type collection query does

not support filtering, sorting or pagination.

Responses

HTTP Code	Description	Schema
200	Success	< service_config_instance > array
206	Partial content of service config instance objects	< service_config_instance > array

GET /service_config/{id}

Description

Query the service configuration instances for an appliance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the instance.	string

Responses

HTTP Code	Description	Schema
200	Success	service_config_instance
404	Not Found	error_response

PATCH /service_config/{id}

Description

Modify the service configuration for an appliance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the instance.	string
Body	body <i>required</i>		service_config_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

service_user

Use this resource type to manage the service user account. The system includes the default service_user account with the username 'service'. The service user account cannot authenticate through the REST, CLI, or graphical user interfaces. You cannot create more service user accounts or delete the default service user account. During the initial configuration, along with the default admin user account, a password change for the service user account is also required.

Only the default service_user account can log in via SSH. Ensure that SSH is enabled on the system for the service_user to log in. SSH can be enabled or disabled using the service_config modify operation.

GET /service_user

Description

Query the service user account instance. This resource type collection query does not support filtering, sorting or pagination.

Responses

HTTP Code	Description	Schema
200	Success	< service_user_instance > array
206	Partial content of service user instance objects	< service_user_instance > array

Produces

- application/json

GET /service_user/{id}

Description

Query the service user account using the unique identifier.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the service user.	string

Responses

HTTP Code	Description	Schema
200	Success	service_user_instance
404	Not Found	error_response

Produces

- application/json

PATCH /service_user/{id}

Description

Modify the properties of the service user account.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the service user account.	string
Body	body <i>required</i>		service_user_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

smb_server

Use these resource types to manage Server Message Block (SMB) servers. SMB is a protocol for sharing files and communications abstractions such as named pipes and mail slots between computers. Most usage of SMB involves computers running Microsoft Windows, but it is commonly supported on other types of systems as well. SMB was formerly known as Common Internet File System (CIFS). An SMB server must be created on a NAS server before SMB shares can be created on the file systems on that NAS server. An SMB server can be created as a standalone server or as a server that belongs to an Active Directory domain (often a Window domain). In that case, DNS must be enabled on the NAS server. The credentials of an administrator of the domain are required to join that domain. An NTP server must be defined also, to prevent authentication errors caused by unsynchronized clocks. Each NAS server supports a maximum of one SMB server.

GET /smb_server

Description

Query all SMB servers.

Responses

HTTP Code	Description	Schema
200	Success	< smb_server_instance > array
206	Partial content of smb server instance objects	< smb_server_instance > array

POST /smb_server

Description

Create an SMB server.

Parameters

Type	Name	Schema
Body	body <i>required</i>	smb_server_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /smb_server/{id}

Description

Query settings of a specific SMB server.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the SMB server.	string

Responses

HTTP Code	Description	Schema
200	Success	smb_server_instance
404	Not Found	error_response

DELETE /smb_server/{id}

Description

Delete a SMB server. The SMB server must not be joined to a domain to be deleted.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the SMB server.	string
Body	body <i>optional</i>		smb_server_delete

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /smb_server/{id}

Description

Modify an SMB server's settings.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the SMB server.	string
Body	body <i>required</i>		smb_server_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /smb_server/{id}/join

Description

Join the SMB server to an Active Directory domain.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the SMB server.	string
Body	body <i>required</i>		smb_server_join

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /smb_server/{id}/unjoin

Description

Unjoin the SMB server from an Active Directory domain.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the SMB server.	string
Body	body <i>required</i>		smb_server_unjoin

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

smb_share

SMB Shares use the SMB protocol to provide an access point for configured Windows hosts to access file system storage. The system uses Active Directory to authenticate user and user group

access to the Share.

GET /smb_share

Description

List SMB shares.

Responses

HTTP Code	Description	Schema
200	Success	< smb_share_instance > array
206	Partial content of smb share instance objects	< smb_share_instance > array

POST /smb_share

Description

Create an SMB share.

Parameters

Type	Name	Schema
Body	body <i>required</i>	smb_share_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /smb_share/{id}

GET /smb_share/name:{name}

Description

Get an SMB Share.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	SMB Share object id.	string
Path	name <i>required</i>	SMB Share object name.	string

Responses

HTTP Code	Description	Schema
200	Success	smb_share_instance
404	Not Found	error_response

DELETE /smb_share/{id}

DELETE /smb_share/name:{name}

Description

Delete an SMB Share.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	SMB Share object id.	string
Path	name <i>required</i>	SMB Share object name.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /smb_share/{id}

PATCH /smb_share/name:{name}

Description

Modify SMB share properties.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	SMB share object id.	string
Path	name <i>required</i>	SMB share object name.	string
Body	body <i>optional</i>		smb_share_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /smb_share/{id}/get_acl

POST /smb_share/name:{name}/get_acl

Description

Get the ACL for the SMB share.

Was added in version 3.5.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the Smb Share.	string
Path	name <i>required</i>	Unique name of the Smb Share.	string

Responses

HTTP Code	Description	Schema
200	Success	smb_share_get_acl_response
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /smb_share/{id}/set_acl

POST /smb_share/name:{name}/set_acl

Description

Set the ACL for the SMB share.

Note: Either the aces parameter OR one or both of add_aces and remove_aces arguments may be specified. If both add_aces and remove_aces are specified, remove_aces will be applied first. **Note:** ACEs will be stored and applied according to the standard Microsoft Windows ordering with denied

first then allow. In case of conflict, for example if same user is belonging to two groups, one with "allow" and the other with "deny" then deny will be applied and enforced

Was added in version 3.5.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the Smb Share.	string
Path	name <i>required</i>	Unique name of the Smb Share.	string
Body	body <i>required</i>		smb_share_set_acl

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

smtp_config

Use these resource types to configure outgoing SMTP and email notifications.

GET /smtp_config

Description

Query the SMTP configuration. There is always exactly one smtp_config instance.

Responses

HTTP Code	Description	Schema
200	Success	< smtp_config_instance > array
206	Partial content of smtp config instance objects	< smtp_config_instance > array

GET /smtp_config/{id}

Description

Query the specific SMTP configuration.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the SMTP configuration. This value is always '0'.	string

Responses

HTTP Code	Description	Schema
200	Success	smtp_config_instance
404	Not Found	error_response

PATCH /smtp_config/{id}

Description

Configure the outgoing SMTP information.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the SMTP configuration. This value is always '0'.	string

Type	Name	Description	Schema
Body	body <i>required</i>		smtp_config_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /smtp_config/{id}/test

Description

Test the SMTP configuration.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the SMTP configuration. This value is always '0'.	string
Body	body <i>required</i>	Test operation request body.	smtp_config_test

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

snapshot_rule

Use this resource type to manage snapshot rules that are used in protection policies.

GET /snapshot_rule

Description

Query all snapshot rules.

Responses

HTTP Code	Description	Schema
200	Success	< snapshot_rule_instance > array
206	Partial content of snapshot rule instance objects	< snapshot_rule_instance > array

POST /snapshot_rule

Description

Create a new snapshot rule.

Parameters

Type	Name	Schema
Body	body <i>required</i>	snapshot_rule_create

Responses

HTTP Code	Description	Schema
201	Success	create_response
400	Invalid request	error_response
422	Operation Failed	error_response

GET /snapshot_rule/{id}

GET /snapshot_rule/name:{name}

Description

Query a specific snapshot rule.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the snapshot rule.	string
Path	name <i>required</i>	Unique name of the snapshot rule.	string

Responses

HTTP Code	Description	Schema
200	Success	snapshot_rule_instance
404	Not Found	error_response

DELETE /snapshot_rule/{id}

DELETE /snapshot_rule/name:{name}

Description

Delete a snapshot rule.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the snapshot rule.	string
Path	name <i>required</i>	Unique name of the snapshot rule.	string

Type	Name	Description	Schema
Body	body <i>optional</i>		snapshot_rule_delete

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /snapshot_rule/{id}

PATCH /snapshot_rule/name:{name}

Description

Modify a snapshot rule. If the snapshot rule is associated with a policy that is currently applied to a storage resource, the modified rule is immediately applied to the associated storage resource.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the snapshot rule.	string
Path	name <i>required</i>	Unique name of the snapshot rule.	string
Body	body <i>optional</i>		snapshot_rule_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /snapshot_rule/{id}/clone

POST /snapshot_rule/name:{name}/clone

Description

Clone a snapshot rule, which creates an identical copy of this snapshot rule. The resulting snapshot rule will be read-write and managed by the user.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the snapshot rule to be cloned.	string
Path	name <i>required</i>	Unique name of the snapshot rule to be cloned.	string
Body	body <i>required</i>		snapshot_rule_clone

Responses

HTTP Code	Description	Schema
200	Success	snapshot_rule_clone_response
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response

HTTP Code	Description	Schema
422	Operation Failed	error_response

snmp_server

Manage SNMP server destinations for SNMP alert notifications. All defined SNMP servers receive notifications for any alerts at or above their defined alert_severity level.

GET /snmp_server

Description

Query SNMP servers. Was added in version 2.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< snmp_server_instance > array
206	Partial content of snmp server instance objects	< snmp_server_instance > array

POST /snmp_server

Description

Create an SNMP server. Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Body	body <i>required</i>	Parameters to create an SNMP server.	snmp_server_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /snmp_server/{id}

Description

Query a specific SNMP server. Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the SNMP server.	string

Responses

HTTP Code	Description	Schema
200	Success	snmp_server_instance
404	Not Found	error_response

DELETE /snmp_server/{id}

Description

Delete an SNMP Server. Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the SNMP server.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /snmp_server/{id}

Description

Modify an SNMP server. Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the SNMP server.	string
Body	body <i>required</i>	New values of the properties of the SNMP server.	snmp_server_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /snmp_server/{id}/test

Description

Send a test notification to a specified SNMP server to verify connectivity. Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the SNMP server.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

software_installed

Software upgrade functionality. Only one upgrade can be active at a time.

GET /software_installed

Description

Query the software that is installed on each appliance. The output returns a list of JSON objects representing the software that is installed on each appliance and one entry representing the common software installed version that is supported for all appliances in the cluster.

Responses

HTTP Code	Description	Schema
200	Success	< software_installed_instance > array

HTTP Code	Description	Schema
206	Partial content of software installed instance objects	< software_installed_instance > array

GET /software_installed/{id}

Description

Query a specific item from the list of installed software.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the installed software to query.	string

Responses

HTTP Code	Description	Schema
200	Success	software_installed_instance
404	Not Found	error_response

software_package

Software upgrade functionality. Only one upgrade can be active at a time.

GET /software_package

Description

Query the software packages that are known by the cluster. The output returns a list of JSON objects representing the packages.

Responses

HTTP Code	Description	Schema
200	Success.	< software_package_instance > array
206	Partial content of software package instance objects	< software_package_instance > array

POST /software_package

Description

Push a software package file from the client to the cluster. When successfully uploaded and verified, the result is a software_package in the downloaded state, ready to install.

Parameters

Type	Name	Description	Schema
FormData	upload_file <i>optional</i>	Name of the software package file to upload.	file

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid request	error_response
422	Operation Failed	error_response

Consumes

- `multipart/form-data`

Produces

- `application/json`

GET /software_package/{id}

GET /software_package/name:{name}

Description

Query a specific software package.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the software package to query.	string
Path	name <i>required</i>	Unique name of the software package to query.	string

Responses

HTTP Code	Description	Schema
200	Success	software_package_instance
404	Not Found	error_response

DELETE /software_package/{id}

DELETE /software_package/name:{name}

Description

Delete the specified software package from the cluster. This operation may take some time to complete.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the software package to delete.	string
Path	name <i>required</i>	Unique name of the software package to delete.	string

Responses

HTTP Code	Description	Schema
202	Accepted Was deprecated in version 3.0.0.0.	job_response
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Example HTTP response

Response 202

```
{
  "id" : "dad90a6d-43d5-4900-a868-88e6d0cbc432"
}
```

POST /software_package/{id}/install

POST /software_package/name:{name}/install

Description

Start a software upgrade background job for the specified appliance within the cluster. If an appliance is not specified, the upgrade is performed on all appliances in the cluster.

Only specify a subset of appliances to upgrade if the time required to upgrade the entire cluster does not fit within a desired maintenance window. When upgrading a subset of appliances, you must adhere to the following ordering rules:

- The primary appliance must always be upgraded first.
- The secondary appliance, which is used as the cluster management database fail-over target, must be upgraded second.
- After the primary and secondary appliances are upgraded, any remaining appliances in the cluster may be upgraded. By default, the process upgrades the appliances in the order they were added to the cluster if possible.

Because this operation takes a long time to complete, using the "is_async flag" is recommended. If the "is_reboot_required" flag is set to true, the primary appliance reboots before the install completes and the operation cannot return synchronously.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the instance.	string
Path	name <i>required</i>	Unique name of the instance.	string
Body	body <i>optional</i>		software_package_install

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /software_package/{id}/puhc

POST /software_package/name:{name}/puhc

Description

Run the pre-upgrade health check for a software package. This operation may take some time to respond.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the software package.	string
Path	name <i>required</i>	Unique name of the software package.	string

Type	Name	Description	Schema
Body	body <i>optional</i>		software_package_p_uhc

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /software_package/{id}/download

POST /software_package/name:{name}/download

Description

Download a software package with state "Available" from Secure Remote Services to the cluster. When successfully downloaded and verified, the result is a software_package in the downloaded state that is ready to install.

Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the instance.	string
Path	name <i>required</i>	Unique name of the instance.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /software_package/check_for_updates

Description

Check for available software packages. This check runs automatically every night. Was added in version 4.0.0.0.

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
422	Operation Failed	error_response

POST /software_package/{id}/cancel_download

POST /software_package/name:{name}/cancel_download

Description

Cancel the in-process download of a software package. This has no effect if the software package has already been downloaded or if a download is not in progress.

Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the instance.	string
Path	name <i>required</i>	Unique name of the instance.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

sso_claim_role_mapping

Use this resource to configure SSO user or group to role mappings for the system based on the standardized claim(s) from the ID token.

GET /sso_claim_role_mapping

Description

Query sso_claim_role_mapping instances. Was added in version 4.2.0.0. This resource type collection query does not support filtering, sorting or pagination.

Responses

HTTP Code	Description	Schema
200	Success	< sso_claim_role_mapping_instance > array
206	Partial content of sso claim role mapping instance objects	< sso_claim_role_mapping_instance > array

Produces

- [application/json](#)

POST /sso_claim_role_mapping

Description

Create a new sso claim role mapping. Was added in version 4.2.0.0.

Parameters

Type	Name	Schema
Body	body <i>required</i>	sso_claim_role_mapping_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

GET /sso_claim_role_mapping/{id}

Description

Query a specific sso claim role mapping. Was added in version 4.2.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the sso claim_role_mapping instance.	string

Responses

HTTP Code	Description	Schema
200	Success	sso_claim_role_mapping_instance

HTTP Code	Description	Schema
404	Not Found	error_response

Produces

- [application/json](#)

DELETE /sso_claim_role_mapping/{id}

Description

Delete an sso claim role mapping. Was added in version 4.2.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the sso_claim_role_mapping instance to be deleted.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

PATCH /sso_claim_role_mapping/{id}

Description

Modify properties of an sso claim role mapping. Was added in version 4.2.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the sso_claim_role_mapping instance to be modified.	string
Body	body <i>required</i>		sso_claim_role_mapping_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

sso_metadata

Use this resource type to query SSO related metadata.

GET /sso_metadata

Description

Query sso_metadata instances. Was added in version 4.2.0.0. This resource type collection query does not support filtering, sorting or pagination.

Responses

HTTP Code	Description	Schema
200	Success	< sso_metadata_instance > array

HTTP Code	Description	Schema
206	Partial content of sso metadata instance objects	< sso_metadata_instance > array

Produces

- [application/json](#)

GET /sso_metadata/{id}

Description

Query a specific sso metadata instance. Was added in version 4.2.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the sso metadata instance.	string

Responses

HTTP Code	Description	Schema
200	Success	sso_metadata_instance
404	Not Found	error_response

Produces

- [application/json](#)

storage_container

Manage storage containers. A storage container is a logical grouping of related storage objects in a cluster. A storage container corresponds to a vVol datastore in vCenter and is used to group related vVols and track the amount of space that is used/free.

GET /storage_container

Description

List storage containers.

Responses

HTTP Code	Description	Schema
200	Success	< storage_container_instance > array
206	Partial content of storage container instance objects	< storage_container_instance > array

Produces

- [application/json](#)

POST /storage_container

Description

Create a virtual volume (VVol) storage container. Optionally mount a storage container as a VVOL datastore in vCenter.

Parameters

Type	Name	Schema
Body	body <i>required</i>	storage_container_create

Responses

HTTP Code	Description	Schema
201	Success	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

Produces

- `application/json`

GET /storage_container/{id}

GET /storage_container/name:{name}

Description

Query a specific instance of storage container.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Storage container ID.	string
Path	name <i>required</i>	Storage container name.	string

Responses

HTTP Code	Description	Schema
200	Success	storage_container_instance
404	Not Found	error_response

Produces

- `application/json`

DELETE /storage_container/{id}

DELETE /storage_container/name:{name}

Description

Unmount VVOL datastores associated with a storage container from vCenter and delete a storage container.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Storage container ID.	string
Path	name <i>required</i>	Storage container name.	string
Body	body <i>optional</i>	Options to delete storage_container.	storage_container_delete

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request Was deprecated in version 3.0.0.0.	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

PATCH /storage_container/{id}

PATCH /storage_container/name:{name}

Description

Modify a storage container.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Storage container ID.	string
Path	name <i>required</i>	Storage container name.	string

Type	Name	Description	Schema
Body	body <i>required</i>	Fields to update.	storage_container_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

POST /storage_container/{id}/mount

POST /storage_container/name:{name}/mount

Description

Mount a storage container as a VVol datastore in vCenter.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Storage container ID.	string
Path	name <i>required</i>	Storage container name.	string
Body	body <i>optional</i>		storage_container_mount

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /storage_container/{id}/unmount

POST /storage_container/name:{name}/unmount

Description

Unmount a storage container, which removes the VVol datastore from vCenter.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Storage container ID.	string
Path	name <i>required</i>	Storage container name.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

storage_container_destination

A storage container destination defines a replication destinations for a local storage container. Only one destination per remote system is supported for a single (local) storage container. New

replication groups will use the destination storage container to create vVol replicas. If no destination is defined for the group's storage container and destination remote system then attempt to initiate replication session will fail. When a new remote system is added and if both local and remote systems have only one storage container a mapping between them is added automatically. If either or both of the newly connected systems have more than one storage container the destination must be configured manually.

GET /storage_container_destination

Description

List storage container destinations. Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< storage_container_destination_instance > array
206	Partial content of storage container destination instance objects	< storage_container_destination_instance > array

Produces

- [application/json](#)

POST /storage_container_destination

Description

Create a destination for the storage container. Combination of 'storage_container_id' and 'remote_system_id' must be unique as only one destination per remote system is allowed.

Was added in version 3.0.0.0.

Parameters

Type	Name	Schema
Body	body <i>required</i>	storage_container_destination_create

Responses

HTTP Code	Description	Schema
201	Success	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /storage_container_destination/{id}

Description

Get a specific storage container destination. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Id of the storage container destination.	string

Responses

HTTP Code	Description	Schema
200	Success	storage_container_destination_instance
404	Not Found	error_response

DELETE /storage_container_destination/{id}

Description

Delete a storage container destination. This operation doesn't affect replication sessions that have already started.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the storage container destination to be deleted.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

vcenter

Use this resource type to manage vCenter instances. Registered vCenter enables discovering of virtual machines, managing virtual machine snapshots, automatic mounting of storage container and other functionality that requires communication with vCenter. In PowerStoreX deployments, the one vCenter instance residing in the PowerStore cluster will be prepopulated here and cannot be deleted, nor may any other vCenters be added. For PowerStoreT deployments, one external vCenter may be configured if desired.

GET /vcenter

Description

Query registered vCenters.

Responses

HTTP Code	Description	Schema
200	Success	< vcenter_instance > array
206	Partial content of vcenter instance objects	< vcenter_instance > array

POST /vcenter

Description

Add a vCenter. Not allowed in PowerStoreX deployments.

Parameters

Type	Name	Schema
Body	body <i>required</i>	vcenter_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /vcenter/{id}

Description

Query a specific vCenter instance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the vCenter to query.	string

Responses

HTTP Code	Description	Schema
200	Success	vcenter_instance
404	Not Found	error_response

DELETE /vcenter/{id}

Description

Delete a registered vCenter. Deletion of vCenter disables functionality that requires communication with vCenter. Not allowed in PowerStoreX deployments.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the vCenter to delete.	string
Body	body <i>optional</i>	Was added in version 2.0.0.0.	vcenter_delete

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /vcenter/{id}

Description

Modify a vCenter settings.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the vCenter to modify.	string
Body	body <i>optional</i>		vcenter_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

veth_port

Use these resource types to manage the cluster-wide configuration of virtual IP ports, bonds, and virtual Ethernet ports.

GET /veth_port

Description

Query virtual Ethernet port configurations.

Responses

HTTP Code	Description	Schema
200	Success	< veth_port_instance > array
206	Partial content of veth port instance objects	< veth_port_instance > array

Example HTTP response

Response 200

```
[ {  
  "id" : "VETH_PORT1",  
  "appliance_id" : "A1",  
  "node_id" : "NODE1",  
  "name" : "BaseEnclosure-NodeA-vFEPort2",  
  "mac_address" : "00-90-fa-d2-79-32",  
}
```



```

    "is_link_up" : true,
    "current_speed" : 1073741824,
    "current_mtu" : 1500,
    "vswitch_name" : "DVS-System",
    "vswitch_port_group_name" : "dvportgroup-1234",
    "vswitch_port_id" : 1,
    "vswitch_port_name" : "Network Adapter 1"
  }, {
    "id" : "VETH_PORT2",
    "appliance_id" : "A1",
    "node_id" : "NODE1",
    "name" : "BaseEnclosure-NodeA-vFEPort3",
    "mac_address" : "00-90-fa-d2-79-33",
    "is_link_up" : true,
    "current_speed" : 1073741824,
    "current_mtu" : 1500,
    "vswitch_name" : "DVS-System",
    "vswitch_port_group_name" : "dvportgroup-1235",
    "vswitch_port_id" : 2,
    "vswitch_port_name" : "Network Adapter 2"
  }, {
    "id" : "VETH_PORT3",
    "appliance_id" : "A1",
    "node_id" : "NODE2",
    "name" : "BaseEnclosure-NodeB-vFEPort2",
    "mac_address" : "00-90-fa-d2-79-34",
    "is_link_up" : true,
    "current_speed" : 1073741824,
    "current_mtu" : 1500,
    "vswitch_name" : "DVS-System",
    "vswitch_port_group_name" : "dvportgroup-1234",
    "vswitch_port_id" : 3,
    "vswitch_port_name" : "Network Adapter 1"
  }, {
    "id" : "VETH_PORT4",
    "appliance_id" : "A1",
    "node_id" : "NODE2",
    "name" : "BaseEnclosure-NodeB-vFEPort3",
    "mac_address" : "00-90-fa-d2-79-35",
    "is_link_up" : true,
    "current_speed" : 1073741824,
    "current_mtu" : 1500,
    "vswitch_name" : "DVS-System",
    "vswitch_port_group_name" : "dvportgroup-1235",
    "vswitch_port_id" : 4,
    "vswitch_port_name" : "Network Adapter 2"
  } ]

```

GET /veth_port/{id}

GET /veth_port/name:{name}

Description

Query a specific virtual Ethernet port configuration.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the virtual Ethernet port.	string
Path	name <i>required</i>	Unique name of the virtual Ethernet port.	string

Responses

HTTP Code	Description	Schema
200	Success	veth_port_instance
404	Not Found	error_response

Consumes

- [application/json](#)

Produces

- [application/json](#)

virtual_machine

Use this resource type to retrieve cached information from vCenter about virtual machines (VMs) that use storage from the cluster or to create a snapshot of a VM.

GET /virtual_machine

Description

Query virtual machines that use storage from the cluster.

Responses

HTTP Code	Description	Schema
200	Success	< virtual_machine_instance > array
206	Partial content of virtual machine instance objects	< virtual_machine_instance > array

GET /virtual_machine/{id}

GET /virtual_machine/name:{name}

Description

Query a specific virtual machine instance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the virtual machine to query.	string
Path	name <i>required</i>	Unique name of the virtual machine to query.	string

Responses

HTTP Code	Description	Schema
200	Success	virtual_machine_instance
404	Not Found	error_response

DELETE /virtual_machine/{id}

DELETE /virtual_machine/name:{name}

Description

Delete a virtual machine snapshot. This operation cannot be used on a base virtual machine or virtual machine template.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the virtual machine snapshot to delete.	string
Path	name <i>required</i>	Unique name of the virtual machine snapshot to delete.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /virtual_machine/{id}

PATCH /virtual_machine/name:{name}

Description

Modify a virtual machine. This operation cannot be used on virtual machine snapshots or templates. This method was only used to assign protection policies and deprecated. Use vCenter storage policies instead.

Was deprecated in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the virtual machine to modify.	string
Path	name <i>required</i>	Unique name of the virtual machine to modify.	string
Body	body <i>optional</i>		virtual_machine_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /virtual_machine/{id}/snapshot

POST /virtual_machine/name:{name}/snapshot

Description

Create a snapshot of a virtual machine. This operation cannot be used on a virtual machine snapshot or template.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the virtual machine to create a snapshot of.	string
Path	name <i>required</i>	Unique name of the virtual machine to create a snapshot of.	string
Body	body <i>optional</i>		virtual_machine_snapshot

Responses

HTTP Code	Description	Schema
200	Success	virtual_machine_snapshot_response
204	Success	No Content
400	Invalid request	error_response

HTTP Code	Description	Schema
404	Not Found	error_response
422	Operation Failed	error_response

virtual_volume

Information about virtual volumes, which are managed through vCenter.

GET /virtual_volume

Description

Get virtual volumes.

Responses

HTTP Code	Description	Schema
200	Success	< virtual_volume_instance > array
206	Partial content of virtual volume instance objects	< virtual_volume_instance > array

GET /virtual_volume/{id}

GET /virtual_volume/name:{name}

Description

Get a specific virtual volume.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Id of the virtual volume.	string

Type	Name	Description	Schema
Path	name <i>required</i>	Name of the virtual volume.	string

Responses

HTTP Code	Description	Schema
200	Success	virtual_volume_in_stance
404	Not Found	vvol_error_response

DELETE /virtual_volume/{id}

DELETE /virtual_volume/name:{name}

Description

Delete a virtual volume. Virtual volumes should be managed via vCenter operations in a normal situation. This operation is implemented for unusual cases like manual clean up.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the virtual volume to delete.	string
Path	name <i>required</i>	Unique name of the virtual volume to delete.	string
Body	body <i>optional</i>	Options to delete a virtual volume.	virtual_volume_delete

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response

HTTP Code	Description	Schema
404	Not Found	error_response
422	Operation Failed	error_response

POST /virtual_volume/{id}/detach

POST /virtual_volume/name:{name}/detach

Description

Detach a virtual volume from hosts. This can be used to manually recover from some error conditions that leave orphaned binding(s) of virtual volume to the protocol endpoint of a host. Was added in version 4.1.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of virtual volume to detach.	string
Path	name <i>required</i>	Unique name of virtual volume to detach.	string
Body	body <i>required</i>		virtual_volume_detach

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

volume

Use these resource types to manage volumes, including snapshots and clones of volumes.

GET /volume

Description

Query volumes that are provisioned on the appliance.

Responses

HTTP Code	Description	Schema
200	Success	< volume_instance > array
206	Partial content of volume instance objects	< volume_instance > array

POST /volume

Description

Create a volume on the appliance.

Parameters

Type	Name	Schema
Body	body <i>required</i>	volume_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid request	error_response
422	Operation Failed	error_response

GET /volume/{id}

GET /volume/name:{name}

Description

Query a specific volume instance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the volume to query.	string
Path	name <i>required</i>	Unique name of the volume to query.	string

Responses

HTTP Code	Description	Schema
200	Success	volume_instance
404	Not Found	error_response

DELETE /volume/{id}

DELETE /volume/name:{name}

Description

Delete a volume.

For a metro volume, first end the metro configuration and then delete the local volume.

- A volume which is attached to a host or host group or is a member of a volume group cannot be deleted.
- A volume which has protection policies attached to it cannot be deleted.
- A volume which has snapshots that are part of a snapset cannot be deleted.
- Clones of a deleted production volume or a clone are not deleted.
- Snapshots of the volume are deleted along with the volume being deleted.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the volume to delete.	string
Path	name <i>required</i>	Unique name of the volume to delete.	string
Body	body <i>optional</i>	Delete a volume. Was added in version 3.5.0.0.	volume_delete

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /volume/{id}

PATCH /volume/name:{name}

Description

Modify the parameters of a volume.

For metro volumes, name and performance_policy can only be modified from the preferred side when the metro replication session is paused.

Volume size of metro volumes can only be modified if the metro replication session is fractured or paused. The QoS performance policy is not replicated for metro volumes.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the volume to modify.	string

Type	Name	Description	Schema
Path	name <i>required</i>	Unique name of the volume to modify.	string
Body	body <i>required</i>		volume_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /volume/{id}/snapshot

POST /volume/name:{name}/snapshot

Description

Create a snapshot of a volume or a clone. A snapshot is a point-in-time copy of a volume or clone.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the volume or clone that is the source of the snapshot.	string
Path	name <i>required</i>	Unique name of the volume or clone that is the source of the snapshot.	string
Body	body <i>optional</i>		volume_snapshot

Responses

HTTP Code	Description	Schema
200	Success	volume_snapshot_response
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /volume/{id}/clone

POST /volume/name:{name}/clone

Description

Create a clone of a volume or snapshot.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the volume or snapshot to clone.	string
Path	name <i>required</i>	Unique name of the volume or snapshot to clone.	string
Body	body <i>optional</i>		volume_clone

Responses

HTTP Code	Description	Schema
200	Success	volume_clone_response
204	Success	No Content
400	Invalid request	error_response

HTTP Code	Description	Schema
404	Not Found	error_response
422	Operation Failed	error_response

POST /volume/{id}/refresh

POST /volume/name:{name}/refresh

Description

Refresh the contents of the target volume from another volume in the same family. This operation can be run on a metro volume only if the metro replication session is fractured or paused. By default, a backup snapshot of the target volume is created before the target volume is refreshed. To skip creating a backup snapshot, set the **create_backup_snap** property to false in the refresh request. A profile for the backup snapshot is automatically generated if a custom profile is not specified. An automatically generated profile only contains a system generated unique name for the backup snapshot. When a volume is refreshed, its **source_time** is set to the **source_time** of the volume from which it was refreshed.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the volume to refresh.	string
Path	name <i>required</i>	Unique name of the volume to refresh.	string
Body	body <i>required</i>		volume_refresh

Responses

HTTP Code	Description	Schema
200	Success	volume_refresh_response
204	Success	No Content
400	Invalid request	error_response

HTTP Code	Description	Schema
404	Not Found	error_response
422	Operation Failed	error_response

POST /volume/{id}/restore

POST /volume/name:{name}/restore

Description

Restore a primary volume or clone from a snapshot. A primary or clone volume can only be restored from one of its immediate snapshots. This operation can be run on a metro volume only if the metro replication session is fractured or paused. By default, a backup snapshot of the target volume is created before the target volume is restored. To skip creating a backup snapshot, set the **create_backup_snap** property to false in the restore request. A profile for the backup snapshot is automatically generated if a custom profile is not specified. An automatically generated profile only contains a system generated unique name for the backup snapshot. When a volume is restored, its **source_time** is set to the **source_time** of the volume from which it was restored.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the volume to restore.	string
Path	name <i>required</i>	Unique name of the volume to restore.	string
Body	body <i>required</i>		volume_restore

Responses

HTTP Code	Description	Schema
200	Success	volume_restore_response
204	Success	No Content
400	Invalid request	error_response

HTTP Code	Description	Schema
404	Not Found	error_response
422	Operation Failed	error_response

POST /volume/{id}/attach

POST /volume/name:{name}/attach

Description

Attach a volume to a host or host group.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of volume to attach.	string
Path	name <i>required</i>	Unique name of volume to attach.	string
Body	body <i>required</i>		volume_attach

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /volume/{id}/detach

POST /volume/name:{name}/detach

Description

Detach a volume from a host or host group.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of volume to detach.	string
Path	name <i>required</i>	Unique name of volume to detach.	string
Body	body <i>required</i>		volume_detach

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /volume/{id}/configure_metro

POST /volume/name:{name}/configure_metro

Description

Configure a metro volume so it exists in two PowerStore clusters.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of volume to configure.	string

Type	Name	Description	Schema
Path	name <i>required</i>	Unique name of volume to configure.	string
Body	body <i>required</i>		volume_configure_metro

Responses

HTTP Code	Description	Schema
200	Success	volume_configure_metro_response
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /volume/{id}/end_metro

POST /volume/name:{name}/end_metro

Description

End a metro configuration from a volume and keep both copies. The local copy will retain its SCSI Identity while the remote volume will get a new SCSI Identity.

Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of volume for which to end the metro configuration.	string
Path	name <i>required</i>	Unique name of volume for which to end the metro configuration.	string

Type	Name	Description	Schema
Body	body <i>optional</i>		volume_end_metro

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

volume_group

Use this resource type for storage cluster REST API definition.

GET /volume_group

Description

Query volume groups, including snapshot sets and clones of volume groups.

Responses

HTTP Code	Description	Schema
200	Success	< volume_group_instance > array
206	Partial content of volume group instance objects	< volume_group_instance > array

POST /volume_group

Description

Create a new volume group. The resulting volume group will have a type of Primary.

Parameters

Type	Name	Schema
Body	body <i>required</i>	volume_group_create

Responses

HTTP Code	Description	Schema
201	Created	create_response
400	Invalid request	error_response
422	Operation Failed	error_response

GET /volume_group/{id}

GET /volume_group/name:{name}

Description

Query a specific volume group, snapshot set, or clone.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the volume group.	string
Path	name <i>required</i>	Unique name of the volume group.	string

Responses

HTTP Code	Description	Schema
200	Success	volume_group_instance
404	Not Found	error_response

DELETE /volume_group/{id}

DELETE /volume_group/name:{name}

Description

Delete a volume group, snapshot set, or clone.

Before you try deleting a volume group, snapshot set, or clone, ensure that you first detach it from all hosts. Note the following:

- When a volume group or clone is deleted, all related snapshot sets will also be deleted.
- When a snapshot set is deleted, all of its constituent snapshots will also be deleted.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the volume group.	string
Path	name <i>required</i>	Unique name of the volume group.	string
Body	body <i>optional</i>		volume_group_delete

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /volume_group/{id}

PATCH /volume_group/name:{name}

Description

Modify a volume group, snapshot set, or clone.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the volume group.	string
Path	name <i>required</i>	Unique name of the volume group.	string
Body	body <i>required</i>		volume_group_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /volume_group/{id}/add_members

POST /volume_group/name:{name}/add_members

Description

Add member volumes to an existing primary or clone volume group.

This cannot be used to add members to a snapshot set. Members cannot be added to a volume group that is acting as the destination in a replication session.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the volume group.	string
Path	name <i>required</i>	Unique name of the volume group.	string

Type	Name	Description	Schema
Body	body <i>required</i>		volume_group_add_members

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /volume_group/{id}/remove_members

POST /volume_group/name:{name}/remove_members

Description

Remove members from an existing primary or clone volume group.

This cannot be used to remove members from a snapshot set. Members cannot be removed from a volume group that is acting as the destination in a replication session.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the volume group.	string
Path	name <i>required</i>	Unique name of the volume group.	string
Body	body <i>required</i>		volume_group_remove_members

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /volume_group/{id}/snapshot

POST /volume_group/name:{name}/snapshot

Description

Create a new snapshot set for a volume group.

When a snapshot of a volume group is created, the resultant snapshot volume group is referred to as a "snapshot set" and it represents a point-in-time copy of the members in the volume group. The snapshot set will be created on the same appliance as the source volume group.

A snapshot of a volume group will result in a new volume group of **Snapshot** type. The snapshot set will belong to the same family as the source volume group.

When the source of a snapshot operation is a primary or clone volume group,

- **source_id** of the snapshot set will be set to the identifier of the source volume group.
- **source_time** of the snapshot set will be set to the time at which the snapshot set will be created.

The **is_write_order_consistent** property of the source volume group determines whether the snapshot set will be write-order consistent.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the volume group.	string
Path	name <i>required</i>	Unique name of the volume group.	string
Body	body <i>required</i>		volume_group_snapshot

Responses

HTTP Code	Description	Schema
200	Success	volume_group_snapshot_response
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /volume_group/{id}/clone

POST /volume_group/name:{name}/clone

Description

Clone a volume group. The clone volume group will be created on the same appliance as the source volume group.

A clone of a volume group will result in a new volume group of **Clone** type. The clone will belong to the same family as the source volume group.

When the source of a clone operation is a either primary or clone volume group,

- **source_id** will be set to the identifier of the source volume group.
- **source_time** will be set to the time at which the clone will be created.

When the source of a clone operation is a snapshot set,

- **source_id** will be set to the source_id of the source snapshot set.
- **source_time** will be set to the source_time of the source snapshot set.

The clone volume group will inherit the value of the **is_write_order_consistent** property from the source volume group. A clone of a snapshot set is modeled as a clone of the snapshot set's source, created at the same time instant as when the source snapshot set was created.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the volume group.	string
Path	name <i>required</i>	Unique name of the volume group.	string
Body	body <i>required</i>		volume_group_clone

Responses

HTTP Code	Description	Schema
200	Success	volume_group_clone_response
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /volume_group/{id}/restore

POST /volume_group/name:{name}/restore

Description

Restore a volume group from a snapshot set. A primary or a clone volume group can only be restored from one of its immediate snapshot sets. A backup snapshot set of the target volume group will be created before restore is attempted. This behavior can be overridden by setting the **create_backup_snap** property to false. The profile for the backup snapshot set will be auto-generated unless a custom profile is specified. The auto-generated profile only initializes the name to an auto-generated, unique value. Other optional parameters are not specified. Restore operation is only supported if there are no membership changes between the target volume group and source snapshot set. You can restore a volume group even when the sizes of the volumes in the target volume group have changed. This represents a case where the target volumes have been modified over time, but you want to revert them back to their old state captured in the source snapshot set. When a volume group is restored,

- **source_time** is set to the **source_time** of the snapshot set it is being restored from.

A volume group that is acting as the destination in a replication session cannot be restored.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the volume group.	string
Path	name <i>required</i>	Unique name of the volume group.	string
Body	body <i>required</i>		volume_group_restore

Responses

HTTP Code	Description	Schema
200	Success	volume_group_restore_response
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Example HTTP request

Request body

```
{
  "from_snap_id" : "8410cc45-f9fd-47c2-b931-b3c19186126e"
}
```

POST /volume_group/{id}/refresh

POST /volume_group/name:{name}/refresh

Description

Refresh the contents of a volume group (the target volume group) from another volume group in

the same family.

A backup snapshot set of the target volume group will be created before refresh is attempted. This behavior can be overridden by setting the **create_backup_snap** property to false. The profile for the backup snapshot set will be auto-generated, unless a custom profile is specified. The auto-generated profile only initializes the name to an auto-generated, unique value. Other optional parameters are not specified.

The table below outlines supported modes of operation and resulting updates to **source_id** and **source_time** attributes of **protection_data**.

| Target volume group | Source volume group | New source_id | New source_time |

| - | - | - | - |

| Primary (P1) | Clone (C1) | id of clone (C1) | Current time |

| Primary (P1) | snapshot set (C1S1) of clone (C1) | id of source snapshot set (C1S1) | source_time of source snapshot set (C1S1) |

| Clone (C1) | Primary (P1) | id of primary (P1) | Current time |

| Clone (C1) | snapshot set (S1) of primary (P1) | id of source snapshot set (S1) | source_time of source snapshot set (S1) |

| Clone (C1) | Clone (C2) | id of source clone(C2) | Current time |

| Clone (C1) | snapshot set (C2S1) of clone (C2) | id of source snapshot set (C2S1) | source_time of source snapshot set (C2S1) |

Refresh operation is only supported if there are no membership changes between the source and target volume groups of the refresh operation. You can refresh a volume group even when the sizes of the volumes in the target volume group have changed. This represents a case where the source volumes have been modified over time and you want to refresh the target to the new state of the source volume group. A volume group that is acting as the destination in a replication session cannot be refreshed.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the volume group.	string
Path	name <i>required</i>	Unique name of the volume group.	string
Body	body <i>required</i>		volume_group_refresh

Responses

HTTP Code	Description	Schema
200	Success	volume_group_refresh_response
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /volume_group/{id}/configure_metro

POST /volume_group/name:{name}/configure_metro

Description

Configure a metro volume group so it exists in two PowerStore clusters.

Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of volume group to configure.	string
Path	name <i>required</i>	Unique name of volume group to configure.	string
Body	body <i>required</i>		volume_group_configure_metro

Responses

HTTP Code	Description	Schema
200	Success	volume_group_configure_metro_response

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

POST /volume_group/{id}/end_metro

POST /volume_group/name:{name}/end_metro

Description

End a metro configuration from a volume group and keep both copies by default. The local copy will retain its SCSI Identities while the remote volume group members will get new SCSI Identities if kept.

Was added in version 4.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of volume group for which to end the metro configuration.	string
Path	name <i>required</i>	Unique name of volume group for which to end the metro configuration.	string
Body	body <i>optional</i>		volume_group_end_metro

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response

HTTP Code	Description	Schema
422	Operation Failed	error_response

vsphere_host

Use this resource type to retrieve cached information from vCenter about ESXi hosts objects.

GET /vsphere_host

Description

Query information about ESXi hosts objects in vCenter Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< vsphere_host_instance > array
206	Partial content of vsphere host instance objects	< vsphere_host_instance > array

GET /vsphere_host/{id}

GET /vsphere_host/name:{name}

Description

Query a specific vsphere_host instance. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the vsphere_host to query.	string
Path	name <i>required</i>	Unique name of the vsphere_host to query.	string

Responses

HTTP Code	Description	Schema
200	Success	vsphere_host_instance
404	Not Found	error_response

vsphere_host_license_assignment

Use this resource type to retrieve cached information from vCenter about ESXi hosts license assignments.

GET /vsphere_host_license_assignment

Description

Query information about ESXi hosts license assignments in vCenter. Was added in version 3.0.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< vsphere_host_license_assignment_instance > array
206	Partial content of vsphere host license assignment instance objects	< vsphere_host_license_assignment_instance > array

GET /vsphere_host_license_assignment/{id}

GET /vsphere_host_license_assignment/name:{name}

Description

Query a specific vsphere_host_license_assignment instance. Was added in version 3.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the vsphere_host_license_assignment to query license.	string
Path	name <i>required</i>	Unique name of the vsphere_host_license_assignment to query license.	string

Responses

HTTP Code	Description	Schema
200	Success	vsphere_host_license_assignment_instance
404	Not Found	error_response

witness

Use this resource type to manage and view information about witnesses.

GET /witness

Description

Query for witness service instances. Only one witness service may exist for the cluster. Was added in version 3.6.0.0.

Responses

HTTP Code	Description	Schema
200	Success	< witness_instance > array
206	Partial content of witness instance objects	< witness_instance > array

POST /witness

Description

Add a new witness service. Only one witness service may exist for the cluster. Was added in version 3.6.0.0.

Parameters

Type	Name	Schema
Body	body <i>required</i>	witness_create

Responses

HTTP Code	Description	Schema
201	Success	create_response
400	Invalid Request	error_response
422	Operation Failed	error_response

GET /witness/{id}

GET /witness/name:{name}

Description

Query for a witness service instance by ID. Only one witness service may exist for the cluster. Was added in version 3.6.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the witness service.	string
Path	name <i>required</i>	Unique name of the witness service.	string

Responses

HTTP Code	Description	Schema
200	Success	witness_instance
404	Not Found	error_response

DELETE /witness/{id}

DELETE /witness/name:{name}

Description

Delete a witness service. Was added in version 3.6.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the witness service.	string
Path	name <i>required</i>	Unique name of the witness service.	string

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

PATCH /witness/{id}

PATCH /witness/name:{name}

Description

Modify a witness service. Was added in version 3.6.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the witness service.	string
Path	name <i>required</i>	Unique name of the witness service.	string
Body	body <i>required</i>		witness_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

x509_certificate

Use this resource type to manage SSL/TLS certificates. The X509 Certificate service is part of the credential store services. An X509 Certificate in this service represents a certificate chain, composed of the certificate of each individual member in ordered sequence. If the X509 Certificate is used as a server certificate or client certificate, it also includes the private key.

GET /x509_certificate

Description

Query to list X509 Certificates instances. This resource type collection query does not support filtering, sorting or pagination.

Responses

HTTP Code	Description	Schema
200	Success	< x509_certificate_instance > array
206	Partial content of x 509 certificate instance objects	< x509_certificate_instance > array

Produces

- [application/json](#)

POST /x509_certificate

Description

Add/import a new X509 Certificate. When certificate usage type in the request is server or client, private key and passphrase are required. Private key presented in the request should be encrypted in PKCS8 format. For the current release following services are supported - Import_HTTP, LDAP_HTTP, Syslog_HTTP, SecurID_HTTP, Remote_Backup_HTTP for which the certificate can be imported. CA certificates of type CA_Client_Validation and CA_Server_Validation are supported for all service types. If the imported client/server certificate with is_current flag is set to true and corresponding CA Client Validation or CA Server Validation certificate's is_current flag is not set or updated to true , will cause a loss in connection to the client/server. There can be multiple CA certs for a given service with is_current flag set to true. But for client/server certificates, setting the is_current flag to true on the new certificate will delete the existing current certificate. Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Body	body <i>required</i>	Request body.	x509_certificate_create

Responses

HTTP Code	Description	Schema
201	Success	create_response
400	Invalid Request	error_response

HTTP Code	Description	Schema
422	Operation Failed	error_response

Produces

- [application/json](#)

GET /x509_certificate/{id}

Description

Query a specific X509 Certificate instance.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the X509 Certificate.	string

Responses

HTTP Code	Description	Schema
200	Success	x509_certificate_instance
404	Not Found	error_response

Produces

- [application/json](#)

PATCH /x509_certificate/{id}

Description

Update/modify a X509 Certificate instance by unique identifier. This request may only be used when certificate usage type is server or client certificate. Please note that for Management_HTTP service, is_current must be set to true to avoid losing the management connection to the server. Setting the is_current flag to true on the new certificate will delete any existing current certificate. Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	Unique identifier of the X509 Certificate.	string
Body	body <i>required</i>	Request body.	x509_certificate_modify

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
404	Not Found	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

POST /x509_certificate/csr

Description

Generate a new certificate signing request. A new X509 Certificate instance will be created to hold the private key and passphrase, whose `is_current` and `is_valid` attributes will both be false. Only `Management_HTTP`, `Syslog_HTTP` and `VASA_HTTP` are supported service types. For `Management_HTTP` service, scope must to be provided with value `External`; any other value will be rejected. Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Body	body <i>required</i>	Request body.	x509_certificate_csr

Responses

HTTP Code	Description	Schema
200	Success	x509_certificate_cs_r_response
204	Success	No Content
400	Invalid Request	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

POST /x509_certificate/exchange

Description

Exchange certificates between two clusters. Add CA certificates to the trust store of each cluster and assign roles to the client certificates. After this process, certificate-based authentication can be used for communication between clusters. This exchange REST API can only be triggered with service Replication_HTTP.

Parameters

Type	Name	Description	Schema
Body	body <i>required</i>	Request body.	x509_certificate_exchange

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

POST /x509_certificate/reset_certificates

Description

Reset x509 certificates for one service to the initial state for the system. This is used to recover system from an invalid certificates or private key for services like VASA provider (VASA_HTTP) when VASA Provider certificates are invalid. This can restore the VASA Provider certificate to a new self-signed certificate, so that VASA Provider can be re-registered with vCenter. This is valid only for the VASA_HTTP service and requires either the Administrator, Security Administrator, or VASA administrator role. Was added in version 2.0.0.0.

Parameters

Type	Name	Description	Schema
Body	body <i>required</i>	Request body.	x509_certificate_reset_certificates

Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	error_response
422	Operation Failed	error_response

Produces

- [application/json](#)

Definitions

ActivePathEnum

Active path of the import host volume. Valid values are:

- None** No active path available.
- Source** Current IO path is set to source.
- Destination** Current IO path is set to destination.

Type : enum (None, Source, Destination)

AlertStateEnum

Alert State Enum with values. Values are:

- ACTIVE
- CLEARED

Type : enum (ACTIVE, CLEARED)

AnomaliesMetricTypeEnum

Available anomaly detection types.

Anomalies_In_Host_IO_Five_Mins	Detect Anomalies in host I/O using five minutes metrics data.
Anomalies_In_Host_IO_Hourly	Detect Anomalies in host I/O using hourly metrics data.

Was added in version 4.2.0.0.

Type : enum (Anomalies_In_Host_IO_Five_Mins, Anomalies_In_Host_IO_Hourly)

AnomaliesStatusEnum

Status of the anomaly detection report.

Completed	Generation of anomaly detection report has completed.
In_Progress	Generation of anomaly detection report is in progress. When in-progress, only the id and status will be returned from anomalies_instance.
Failed	Generation of anomaly detection report has failed.
Not_Enough_Data	The system does not have enough data to generate anomaly detection report.

Was added in version 4.2.0.0.

Type : enum (Completed, In_Progress, Failed, Not_Enough_Data)

AnomaliesTypeEnum

Available anomaly detection types.

Anomalies_In_Host_IO Detect Anomalies in host IOPS, latency and bandwidth.

Was added in version 4.2.0.0.

Type : enum (Anomalies_In_Host_IO)

AppTypeEnum

This attribute indicates the intended use of this volume. It may be null.

If the Relational_Databases_Other, Big_Data_Analytics_Other, Business_Applications_Other, Healthcare_Other, Virtualization_Other or Other enum values are used the app_type_other attribute may be used to specify the application being used.

Relational_Databases_Other	Relational Databases Other
Relational_Databases_Oracle	Oracle
Relational_Databases_SQL_Server	SQL Server
Relational_Databases_PostgreSQL	PostgreSQL
Relational_Databases_MySQL	MySQL
Relational_Databases_IBM_DB2	IBM DB2
Big_Data_Analytics_Other	Big Data & Analytics Other
Big_Data_Analytics_MongoDB	MongoDB
Big_Data_Analytics_Cassandra	Cassandra
Big_Data_Analytics_SAP_HANA	SAP HANA
Big_Data_Analytics_Spark	Spark
Big_Data_Analytics_Splunk	Splunk
Big_Data_Analytics_ElasticSearch	ElasticSearch
Business_Applications_Exchange	Exchange
Business_Applications_Sharepoint	Sharepoint

Business_Applications_Other	Business Applications Other
Business_Applications_ERP_SAP	ERP / SAP
Business_Applications_CRM	CRM
Healthcare_Other	Healthcare Other
Healthcare_Epic	Epic
Healthcare_MEDITECH	MEDITECH
Healthcare_Allscripts	Allscripts
Healthcare_Cerner	Cerner
Virtualization_Other	Virtualization Other
Virtualization_Virtual_Servers_VSI	Virtual Servers (VSI)
Virtualization_Containers_Kubernetes	Containers/Kubernetes
Virtualization_Virtual_Desktops_VDI	Virtual Desktops (VDI)
Boot_Volume_Other	Boot Volume
Other	Other

Was added in version 2.1.0.0. Values was added in 4.1.0.0: Boot_Volume_Other.

Type : enum (Relational_Databases_Other, Relational_Databases_Oracle, Relational_Databases_SQL_Server, Relational_Databases_PostgreSQL, Relational_Databases_MySQL, Relational_Databases_IBM_DB2, Big_Data_Analytics_Other, Big_Data_Analytics_MongoDB, Big_Data_Analytics_Cassandra, Big_Data_Analytics_SAP_HANA, Big_Data_Analytics_Spark, Big_Data_Analytics_Splunk, Big_Data_Analytics_ElasticSearch, Business_Applications_Other, Business_Applications_ERP_SAP, Business_Applications_CRM, Business_Applications_Exchange, Business_Applications_Sharepoint, Healthcare_Other, Healthcare_Epic, Healthcare_MEDITECH, Healthcare_Allscripts, Healthcare_Cerner, Virtualization_Other, Virtualization_Virtual_Servers_VSI, Virtualization_Containers_Kubernetes, Virtualization_Virtual_Desktops_VDI, Boot_Volume_Other, Other)

ApplianceModeEnum

The storage access modes that are supported by the appliance.

Unified Both block and file storage are supported.

Block Only block storage is supported. Changing the mode will reboot the appliance.

Was added in version 4.0.0.0.

Type : enum (Unified, Block)

ApplianceStorageClassEnum

Describes the class of storage used by the appliance. Possible values include:

TLC_Based_Flash The appliance uses triple-level cell (TLC) data storage, which means each NAND flash memory cell contains three bits of data.

QLC_Based_Flash The appliance uses quad-level cell (QLC) data storage, which means each NAND flash memory cell contains four bits of data.

Was added in version 4.0.0.0.

Type : enum (QLC_Based_Flash, TLC_Based_Flash)

ArrayTypeEnum

Product type of the storage system. Valid values are:

Unknown Product type is unknown to PowerStore.

SC Storage Center.

PS Peer Storage Group.

VNX VNX.

Unity Unity.

Type : enum (Unknown, SC, PS, VNX, Unity)

AuditEventTypeEnum

Type of audit event.

Authentication All the authentication events on the system.

Authorization	All the authorization events on the system.
Config	All the set operations on the system. Example: POST, PATCH, DELETE.
System	All the system level operations.
Logout	All the logging out events on the system.
AIDE	All events generated by AIDE (Advanced Intrusion Detection Environment) scans.
Service	All events generated in the service environment.

Values was added in 3.0.0.0: AIDE, Service.

Type : enum (Authentication, Authorization, Config, System, Logout, AIDE, Service)

BandwidthLimitTypeEnum

This type setting determines how the max_iops and max_bw attributes are used.

Absolute	Limits are absolute values specified, either I/O operations per second or bandwidth
Density	Limits specified are per GB, e.g. I/O operations per second per GB

Was added in version 4.0.0.0.

Type : enum (Absolute, Density)

BondStatusEnum

Current bond operational status:

Healthy	Bond is fully operational.
Degraded	Bond is degraded due to Link Aggregation Control Protocol (LACP) being in degraded state.
Failed	Bond is down.

Was added in version 3.0.0.0.

Type : enum (Healthy, Degraded, Failed)

BondingModeEnum

Bonding mode:

- LACP** Uses an IEEE 802.3ad dynamic link aggregation policy. Aggregation groups share the same speed and duplex settings. This mode transmits and receives network traffic on all interfaces in the active aggregator.

Type : enum (LACP)

BondingTypeEnum

Bond type:

- System_Bond** Immutable default system bond.
- User_Bond** User created LACP based link aggregation group.

Was added in version 2.0.0.0.

Type : enum (System_Bond, User_Bond)

CGImportableCriteriaEnum

Consistency group import criteria. Values are:

- Ready** The consistency group is ready for nondisruptive import.
- Ready_For_Agentless_Import** The consistency group is ready for agentless import.
- In_Progress** Import is in progress.
- Members_Not_Ready** The member or members of teh consistency group are not ready for import.
- No_Members** There are no members in the consistency group.
- Max_Members** The maximum number of members for a consistency group has been exceeded.
- Not_In_Sync** The array must be refreshed.
- Imported** Import is complete.

Incompatible_Firmware	The software version on the source array is not compatible.
Undetermined	The import status cannot be determined due to an internal error. Contact technical support.

Values was added in 1.0.2: Ready_For_Agentless_Import.

Type : enum (Ready, Ready_For_Agentless_Import, In_Progress, Members_Not_Ready, No_Members, Max_Members, Not_In_Sync, Imported, Incompatible_Firmware, Undetermined)

CHAPModeEnum

Available CHAP modes that describe or set the iSCSI CHAP mode for the entire cluster.

Disabled	CHAP is not used in the cluster
Single	CHAP is being used to authenticate the initiator
Mutual	CHAP is used to authenticate both the initiator and target

Type : enum (Disabled, Single, Mutual)

CertUserNamePolicyEnum

Specifies the certificate user name policy between a client certificate attribute and the user account identity. Supported values are:

UPN	The User Principal Name.
Subject_CN	The Subject Common Name.

Was added in version 4.1.0.0.

Type : enum (UPN, Subject_CN)

ClusterExpansionIssueEnum

Possible expansion issues for the cluster.

Cluster_Size_Limit_Reached	Cluster size limit has reached.
Stig_Enabled	STIG is enabled on cluster.

Primary_Appliance_4PortCard_Not_Available

Failed to find 4-Port card on cluster primary appliance.

Was added in version 4.1.0.0.

Type : enum (Cluster_Size_Limit_Reached, Stig_Enabled, Primary_Appliance_4PortCard_Not_Available)

ClusterStateEnum

Possible cluster states.

Unconfigured	This is a single appliance that is not in a cluster and is in factory state.
Unconfigured_Faulted	This is single appliance that is not in a cluster and Hardware is in faulted state.
Configuring	Cluster is in the process of initial setup.
Core_Initialization	Cluster is in the process of core initialization.
Configured	Cluster is configured and operational.
Expanding	Appliance(s) are being added to the cluster.
Removing	Appliance(s) are being removed from the cluster.
Clustering_Failed	This is a single appliance that failed an attempt to join a cluster.
Core_Initialization_Failed	This is a single appliance that failed an attempt to join a cluster, bad state.
Removed	Appliance has been removed from cluster.
Post_Core_Initialization	In the process of configuring post core containers.
Unknown	System is in unknown state.

Values was added in 2.0.0.0: Core_Initialization, Core_Initialization_Failed, Post_Core_Initialization, Removed, Unknown. Values was deprecated in 2.0.0.0: Configuring, Clustering_Failed.

Type : enum (Unconfigured, Unconfigured_Faulted, Configuring, Core_Initialization, Configured, Expanding, Removing, Clustering_Failed, Core_Initialization_Failed, Removed, Post_Core_Initialization, Unknown)

CodeChallengeMethodEnum

When PKCE is enabled, code challenge method used for creating code challenge from code_verifier string:

SHA256 SHA256 Encoded

Was added in version 4.2.0.0.

Type : enum (SHA256)

CopySessionTypeEnum

Session types. Values are:

- import_session
- migration_session
- replication_session
- remote_snapshot_session

Values was added in 3.5.0.0: remote_snapshot_session.

Type : enum (import_session, migration_session, replication_session, remote_snapshot_session)

DataCollectionProfileStatusEnum

Current data collection profile status:

enabled	The profile is fully operational.
disabled	The profile is currently disabled.
deprecated	The profile is no longer supported and should no longer be used.

Was added in version 4.1.0.0.

Type : enum (enabled, disabled, deprecated)

DataConnectionStateEnum

Possible data connection states of a remote system:

OK	Normal conditions.
Partial_Data_Connection_Loss	Partial data connection loss.

Complete_Data_Connection_Loss	Complete data connection loss.
Status_Not_Available	Status not available.
No_Targets_Discovered	No targets discovered.
Initializing	Initializing
Data_Connection_Unstable	Data_Connection_Unstable

Values was added in 4.0.0.0: Data_Connection_Unstable.

Type : enum (OK, Partial_Data_Connection_Loss, Complete_Data_Connection_Loss, Status_Not_Available, No_Targets_Discovered, Initializing, Data_Connection_Unstable)

DataConnectionTypeEnum

Possible data connection type:

iSCSI	iSCSI data connection type. Used only for non-PowerStore systems.
TCP	TCP data connection type. Used only for Powerstore systems.
FC	Fibre channel data connection type.
DD_Boost	DD Boost data connection type. Used only for PowerProtect DD Systems.

Applicable only to non-PowerStore remote system for Create.

Was added in version 3.0.0.0. Values was added in 3.5.0.0: DD_Boost.

Type : enum (iSCSI, TCP, FC, DD_Boost)

DataTransferStateEnum

Data transfer state of the replication session:

Asynchronous	Data is being transferred asynchronously between source and destination. This is incremental sync cycle.
Asynchronous_Initial_Sync	Data is being transferred asynchronously between source and destination. This is initial sync cycle.
System_Asynchronous_Initial_Sync	Metro type replication session is transferring data asynchronously. This is initial sync cycle.

System_Asynchronous	Metro type replication session is transferring data asynchronously. This is incremental sync cycle before mirror is enabled.
Switch_To_Sync_Diff_Copy	Metro type replication session is transferring data asynchronously. This is the last copy after mirror is enabled to switch to synchronous data transfer.
Synchronous	Data is being transferred synchronously between source and destination.
Active_Active	Session is active-active mode. Both local and remote storage resource are available for Production IO. IOs are synchronously replicated in both directions.
Faulted	Session is in faulted state.
Paused	Data transfer is paused.

Was added in version 3.0.0.0.

Type : enum (Asynchronous, Asynchronous_Initial_Sync, System_Asynchronous_Initial_Sync, System_Asynchronous, Switch_To_Sync_Diff_Copy, Synchronous, Active_Active, Faulted, Paused)

DatacollectionCreatorTypeEnum

The process that initiated the data collection. Current values are:

Manual	Initiated by user
Scheduled	Initiated according to a predefined schedule
System	Initiated by the system
Health_Change	Initiated due to a change in the health status of the system
Create_Cluster	Initiated as part of the create cluster operation

Was added in version 3.0.0.0.

Type : enum (Manual, Scheduled, System, Health_Change, Create_Cluster)

DatacollectionResourceTypeEnum

The type of object targeted for this data collection. The default object is the primary appliance. Values are:

- appliance
- file_system
- volume
- virtual_volume
- volume_group

Was added in version 3.0.0.0.

Type : enum (appliance, file_system, volume, virtual_volume, volume_group)

DatacollectionStatusEnum

The final status of the data collection. Current values are:

SUCCESS	The data collection was a success
PARTIAL	The data collection only succeeded partially
FAILED	The data collection failed
RUNNING	The data collection is still running

Was added in version 3.0.0.0. Values was added in 3.6.0.0: SUCCESS, PARTIAL, FAILED, RUNNING.

Type : enum (SUCCESS, PARTIAL, FAILED, RUNNING)

DatastoreTypeEnum

Type of datastore file system. Values are:

- vVol
- VMFS
- NFS

Was added in version 3.0.0.0.

Type : enum (vVol, VMFS, NFS)

DayOfWeekEnum

Days of the week. Valid values are:

Monday	Monday

Tuesday	Tuesday
Wednesday	Wednesday
Thursday	Thursday
Friday	Friday
Saturday	Saturday
Sunday	Sunday
Unknown	Day of week is unknown to PowerStore.

Type : enum (Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday, Unknown)

DaysOfWeekEnum

Days of the week. Values are:

- Monday
- Tuesday
- Wednesday
- Thursday
- Friday
- Saturday
- Sunday

Type : enum (Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday)

DiscoveredApplianceCompatibilityEnum

Possible compatibility status values for a discovered appliance.

Compatible	This appliance can be added into the cluster.
Incompatible_Cluster_Software_Too_Old	This appliance cannot be added to the cluster because cluster software version is older than the minimum supported software version of the appliance.
Incompatible_Object_Limit_Mismatch	This appliance cannot be added to the cluster because the object limit is different.

Operation_Failed

This appliance cannot be added to the cluster because the compatibility check timed out.

Was added in version 4.0.0.0. Values was added in 4.1.0.0: Incompatible_Object_Limit_Mismatch, Operation_Failed.

Type : enum (Compatible, Incompatible_Cluster_Software_Too_Old, Incompatible_Object_Limit_Mismatch, Operation_Failed)

DiscoveredApplianceSoftwareVersionCompatibilityEnum

The compatibility of the software version on an appliance compared to the software version on the appliance that is running the request.

Same	This appliance is at the same software version.
Newer	This appliance is at a newer software version.
Older	This appliance is at an older software version.
Not_Applicable	The request is running on the local appliance.

Was added in version 3.0.0.0.

Type : enum (Same, Newer, Older, Not_Applicable)

DiscoveredApplianceStateEnum

Possible unmanaged appliance states.

Unconfigured	This is a single appliance that is not in a cluster.
Unconfigured_Faulted	This is single appliance that is not in a cluster and the hardware is in faulted state.
Configuring	This appliance is being configured to join a cluster.
Configured	This appliance is configured in a cluster.
Clustering_Failed	This is a single appliance that failed an attempt to join a cluster.
Core_Initialization_Failed	This is a single appliance that failed an attempt to join a cluster; bad state.

Removed	The appliance has been removed from cluster. The appliance needs to be reset to the original factory settings before it can be used.

Was added in version 3.0.0.0.

Type : enum (Unconfigured, Unconfigured_Faulted, Configuring, Configured, Clustering_Failed, Core_Initialization_Failed, Removed)

DriveFailureToleranceAvailabilityEnum

Availability of drive failure tolerance levels.

Available	The drive failure tolerance level is available.
AvailableWithWarning	The drive failure tolerance level is available, but there are warnings.
Unavailable	The drive failure tolerance level is not available. The messages describe why the level is unavailable.

Was added in version 2.0.0.0.

Type : enum (Available, AvailableWithWarning, Unavailable)

DriveFailureToleranceLevelEnum

Possible drive failure tolerance levels.

Single	A single drive failure can be tolerated without data loss.
Double	Two drive failures can be tolerated without data loss.
None	No drive failure can be tolerated without data loss (VSA-only).

Was added in version 2.0.0.0. Values was added in 3.0.0.0: None.

Type : enum (Single, Double, None)

EncryptionTypeEnum

Available encryption types.

TLS	Create a private connection via Transport Layer Security.

None Do not enforce security when transmitting audit logs.

Was added in version 2.0.0.0.

Type : enum (TLS, None)

EthBEPortProtocolEnum

Supported Protocols over Ethernet port. Currently only NVMe is supported.

- NVMe

Was added in version 3.0.0.0.

Type : enum (NVMe)

EthBEPortSpeedEnum

Ethernet Backend port transmission speed.

25_Gbps 25 Gigabits per second.

100_Gbps 100 Gigabits per second.

Was added in version 3.0.0.0.

Type : enum (25_Gbps, 100_Gbps)

EthPortSpeedEnum

Supported Ethernet front-end port transmission speeds. For the `current_speed` attribute, these values show the current transmission speed on the port. For the `requested_speed` attribute, these values show the transmission speed set by the user. A requested speed of Auto means that the current speed value will be automatically detected. If this file is updated, also update `FrontEndPortSpeedEnum.yaml`

Auto the speed value is automatically detected

10_Mbps 10 Megabits per second

100_Mbps 100 Megabits per second

1_Gbps 1 Gigabits per second

10_Gbps 10 Gigabits per second

25_Gbps	25 Gigabits per second
40_Gbps	40 Gigabits per second
100_Gbps	100 Gigabits per second

Values was added in 3.0.0.0: 100_Gbps.

Type : enum (Auto, 10_Mbps, 100_Mbps, 1_Gbps, 10_Gbps, 25_Gbps, 40_Gbps, 100_Gbps)

FSNStatusEnum

Current fail-safe network operational status:

Healthy	Fail-safe network is fully operational.
Degraded	Fail-safe network is degraded due to one of its ports being down.
Failed	Fail-safe network is down.

Was added in version 3.5.0.0.

Type : enum (Healthy, Degraded, Failed)

FastMetricsResourceTypeEnum

Resource Type for the given fast metrics config resource.

virtual_volume	A virtual volume resource type.
volume	A volume resource type.

Was added in version 3.0.0.0.

Type : enum (virtual_volume, volume)

FcPortProtocolEnum

Protocols supported over FC port. Types of protocol:

SCSI	SCSI protocol.
NVMe	NVMe protocol.

Was added in version 2.0.0.0.

Type : enum (SCSI, NVMe)

FcPortScsiModeEnum

SCSI mode of the port. Possible values are:

- Dual** The port is in dual mode as both initiator and target.
- Target** The port is only target.

Was added in version 3.0.0.0.

Type : enum (Dual, Target)

FcPortSpeedEnum

Possible Fibre Channel port speeds. For the `current_speed` attribute, these values show the current transmission speed on the port. For the `requested_speed` attribute, these values show the transmission speed set by the user. A requested speed of Auto means that the current speed value will be automatically detected. If this file is updated, also update `FrontEndPortSpeedEnum.yaml`

- Auto** the speed value is automatically detected
- 4_Gbps** 4 Gigabits per second
- 8_Gbps** 8 Gigabits per second
- 16_Gbps** 16 Gigabits per second
- 32_Gbps** 32 Gigabits per second

Type : enum (Auto, 4_Gbps, 8_Gbps, 16_Gbps, 32_Gbps)

FileDNSTransportEnum

Transport used when connecting to the DNS Server:

- UDP** DNS uses the UDP protocol (default)
- TCP** DNS uses the TCP protocol

Type : enum (UDP, TCP)

FileEventsCategoryEnum

The category of the setting determines when and whether events for specific protocol operations are sent to the file events pool, and in the case of Pre_Events category, whether the operation is allowed to proceed. The categories are:

- Pre_Events** The NAS server sends notification before such protocol operations occur, and from the response decides whether to allow the operation to proceed.
- Post_Events** The NAS server sends notification after such protocol operations occur.
- Post_Error_Events** The NAS server sends notification only when such protocol operations generate an error.

Was added in version 3.0.0.0.

Type : enum (Pre_Events, Post_Events, Post_Error_Events)

FileEventsPublishingModeEnum

State of the event notification services for all file systems of the NAS server.

- None** File event notifications are disabled for this file system.
- SMB_Only** SMB notifications are enabled for this file system.
- NFS_Only** NFS notifications are enabled for this file system.
- All** SMB and NFS notifications are enabled for this file system.

Was added in version 3.0.0.0.

Type : enum (None, SMB_Only, NFS_Only, All)

FileImportDestinationResourceTypeEnum

Storage resource type of the file import destination. Values are:

- nas_server** The destination resource of the file import session is a NAS server.

Was added in version 3.0.0.0.

Type : enum (nas_server)

FileImportNasServerImportableCriteriaEnum

NAS server importable criteria. Values are:

Target_Nas_Servers_Limit_Reached	The target system is not valid for the import because the maximum number of the nas servers has been reached on the target system.
Filesystem_Used_Size_Too_Big	The used size of its file system exceeds the maximum size limit.
Filesystems_Limit_Exceeded	The number of its file systems exceeds the maximum number of file systems that can be added to the target system.
Net_Interfaces_Limit_Exceeded	The number of the network interfaces of the source nas server exceeds the maximal number of the interfaces per nas server on the target system. • No_Production_File_Interfaces
No_Net_Interfaces	Cannot import the source nas server because it has no network interfaces.
No_Import_Net_Interfaces	Cannot import the source nas server because it has no network interfaces for the import.
No_Suitable_Source_Import_Interface	Cannot import the source nas server because no network interface is applicable for the import.
Import_Session_Already_Exists	An active import session for the same source nas server already exists.
Imported_Nas_Server_Already_Exists	Cannot create an import session because the source nas server has been already imported to the target system.
Dhsm_Is_Not_Enabled_For_Flr_Import	Cannot import the flr file systems because the dhsm is disabled on the source nas server.
Dhsm_Https_With_Certificate_Is_Not_Supported	Cannot import the flr file systems because the dhsm configuration on the source nas server requires ssl connection with certificate.

Flr_Fs_Auto_Lock_Enabled	The auto-lock feature of the source flr file system is enabled.
Flr_Fs_Auto_Delete_Enabled	The auto-lock feature of the source flr file system is enabled.
Flr_Fs_Auto_Lock_And_Auto_Delete_Enabled	The auto-lock feature and auto-delete feature of the source flr file system are enabled.
Unsupported_Fs_Type	File system type is not supported.
Unsupported_Fs_Mount_Path	File system mount path has more than one slash.
Fs_Temporarily_Unmounted	The file system is temporarily unmounted.
Cifs_Multiple_Servers	Multiple cifs servers configured.
Cifs_Like_Windows_Nt_Not_Supported	Cifs server of 'nt4 like' type is configured.
Cifs_Server_Default	Cifs server is the default server.
Cifs_Not_Joined	Cifs server is not joined to active directory domain.
Time_Difference_Exceeds_Limit	Time difference between the source system and target system exceeds the limit.
Vdm_Is_Not_Loaded	Source nas server must be in 'loaded' state.
Nfsv4_Enabled	Nfsv4 is enabled on hosting data mover.
Nfs_Export_Kerberos_Option	Some nfs exports are configured with kerberos authentication type.
Interface_Ipv4_Link_Local	Nas server network interface has link-local ipv4 address.
Interface_Ipv4_Multicast	Nas server network interface has multicast ipv4 address.
Interface_Ipv6_Multicast	Nas server network interface has multicast ipv6 address.

Cifs_Interfaces_Not_Attached	The network interface connected to the source cifs server is not attached to the same vdm.
Multiprotocol_Nas	Nas server is of multiprotocol type.
Disallowed_To_Import_Default_Vdm_Of_Dm	Nas server is a default vdm of the hosting data mover.
Multiprotocol_Cifs_Standalone	Stand-alone cifs server on multiprotocol nas server.
Multiprotocol_Rediscovery_Required	Multiprotocol nas server must be rediscovered. • Unsupported_Protocol_Type
Dhsm_Backup_Is_Offline	The dhsm backup policy of some file systems is 'offline'.
Dhsm_Connection_Type_Unsupported	The dhsm connection type of some file systems is unsupported.
Dhsm_Connections_Differ	The dhsm connections of some file systems differ.
Dhsm_Connection_Unresolvable	Failed to resolve ip address of dhsm appliance.
Dhsm_Connection_Rediscovery_Required	Nas server must be rediscovered.

Was added in version 3.2.0.0.

Type : enum (Target_Nas_Servers_Limit_Reached, Filesystem_Used_Size_Too_Big, Filesystems_Limit_Exceeded, Net_Interfaces_Limit_Exceeded, No_Production_File_Interfaces, No_Net_Interfaces, No_Import_Net_Interfaces, No_Suitable_Source_Import_Interface, Import_Session_Already_Exists, Imported_Nas_Server_Already_Exists, Dhsm_Is_Not_Enabled_For_Flr_Import, Dhsm_Https_With_Certificate_Is_Not_Supported, Flr_Fs_Auto_Lock_Enabled, Flr_Fs_Auto_Delete_Enabled, Flr_Fs_Auto_Lock_And_Auto_Delete_Enabled, Unsupported_Fs_Type, Unsupported_Fs_Mount_Path, Fs_Temporarily_Unmounted, Cifs_Multiple_Servers, Cifs_Like_Windows_Nt_Not_Supported, Cifs_Server_Default, Cifs_Not_Joined, Time_Difference_Exceeds_Limit, Vdm_Is_Not_Loaded, Nfsv4_Enabled, Nfs_Export_Kerberos_Option, Interface_Ipv4_Link_Local, Interface_Ipv4_Multicast, Interface_Ipv6_Multicast, Cifs_Interfaces_Not_Attached, Multiprotocol_Nas, Disallowed_To_Import_Default_Vdm_Of_Dm, Multiprotocol_Cifs_Standalone, Multiprotocol_Rediscovery_Required, Unsupported_Protocol_Type, Dhsm_Backup_Is_Offline, Dhsm_Connection_Type_Unsupported, Dhsm_Connections_Differ, Dhsm_Connection_Unresolvable,

FileImportNasServerProtocolTypeEnum

The Protocol type of the Nas Server. The supported Values are:

NFS	NAS server contains file systems that are accessible using NFS only
SMB	NAS server contains file systems that are accessible using SMB only
NFS_SMB_Multiprotocol	NAS server contains file systems which are accessible using both NFS and SMB
NFS_SMB_Non_Multiprotocol	NAS server contains file systems which are accessible using either SMB or via NFS, but not both

Was added in version 3.0.0.0. Values was added in 3.0.0.0: NFS, SMB. Values was added in 4.1.0.0: NFS_SMB_Multiprotocol, NFS_SMB_Non_Multiprotocol.

Type : enum (NFS, SMB, NFS_SMB_Multiprotocol, NFS_SMB_Non_Multiprotocol)

FileImportSessionCurrentOperationEnum

The current operation of the file import session, the supported values are:

Initial_Provisioning	The destination NAS server and filesystems are being created. Un-exported source filesystems are being exported in case of NFS import.
Initial_Copy	Baseline Data Copy is initiated. Cold files and directory structure are being copied to the destination. The data is transferred between the dedicated source and destination import file interfaces using either NFSv3 or SMBv1 protocol
Importing_Config	Importing configuration information like production network interfaces, static routes, DNS, SMB server, SMB shares, NFS server, NFS exports, NIS, LDAP, local files, effective naming service, quotas, etc.
Ready_For_Cutover	Import is ready for cutover.

Cutting_Over	Production interfaces are being disabled on the source system and enabled on the destination system. In case of SMB import the Active Directory configuration is imported if needed; in case of NFS import the NLM locks are reclaimed on the destination system. Any access to source shares/exports is denied.
Incremental_Copy	Incremental data copy between the source and destination file storage systems has started. Client I/Os are served by PowerStore. The import process keeps the source and destination filesystems in sync by doing I/O forwarding. I/O throughput is degraded during this operation.
Ready_For_Commit	Import is ready for commit.
Committing	I/O forwarding to the source is stopped and the destination system becomes independent. The source system is cleaned up.

Was added in version 3.0.0.0.

Type : enum (Initial_Provisioning, Initial_Copy, Importing_Config, Ready_For_Cutover, Cutting_Over, Incremental_Copy, Ready_For_Commit, Committing)

FileImportSessionReportProtocolEnum

The type of import applicable to a NAS Server. The supported values are

NFS	Network File System (NFS) Protocol.
SMB	Server Message Block (SMB) protocol.
NFS_SMB_Multiprotocol	NAS server contains file systems which are accessible using both NFS and SMB.
NFS_SMB_Non_Multiprotocol	NAS server contains file systems which are accessible using either SMB or via NFS, but not both.

Was added in version 3.0.0.0. Values was added in 3.0.0.0: NFS, SMB. Values was added in 4.1.0.0: NFS_SMB_Multiprotocol, NFS_SMB_Non_Multiprotocol.

Type : enum (NFS, SMB, NFS_SMB_Multiprotocol, NFS_SMB_Non_Multiprotocol)

FileImportSessionStateEnum

The state of the file import session, the expected states are:

Scheduled	The import is scheduled to run at a later time. The import remains in this state until the scheduled time arrives.
Queued	All imports are run in a First In First Out (FIFO) order. Sessions are queued when more sessions have been created the are supported for simultaneous import.
In_Progress	The file import session is in progress, performing an operation after Initialized.
Completed	Indicates that all operations through commit have been completed successfully.
Cancelling	A cancel is in progress. Clients are switched back to the source system (if it happens after cutover). The source system is cleaned up, the destination NAS server and all imported objects including filesystems are deleted.
Cancelled	The import was cancelled.
Pausing	The data copy is transitioning to Paused.
Paused	The data copy between the source and destination NAS server is paused.
Failed	Indicates that there was an error during import. The appropriate error message is available in the error attribute. An alert with recommended actions to recover from the failure is raised when the file import session fail.

Was added in version 3.0.0.0.

Type : enum (Scheduled, Queued, In_Progress, Completed, Cancelling, Cancelled, Pausing, Paused, Failed)

FileInterfaceRoleEnum

Values are:

Production	This type of network interface is used for all file protocols and services of a NAS server. This type of interface is inactive while a NAS server is in destination mode.
Backup	This type of network interface is used only for NDMP/NFS backup or disaster recovery testing. This type of interface is always active in all NAS server modes.
System	This type of interface are reserved for system traffic such as for NAS server migration, they can't be used for the production traffic. System type is not supported during create interface.

Values was added in 3.0.0.0: System.

Type : enum (Production, Backup, System)

FileInterfaceRouteOperationalStatusEnum

File interface route operational status:

Ok	The route is working fine.
Invalid_IP_Version	Source interfaces have a different IP protocol version than the route.
Invalid_Source_Interface	No source interfaces set up on the system.
Invalid_Gateway	Source interfaces in a different subnet than the gateway.
Not_Operational	The route is not operational.

Type : enum (Ok, Invalid_IP_Version, Invalid_Source_Interface, Invalid_Gateway, Not_Operational)

FileLDAPAuthenticationTypeEnum

Authentication type for the LDAP server.

Anonymous	Anonymous authentication means no authentication occurs and the NAS Server uses an anonymous login to access the LDAP-based directory server.
Simple	Simple authentication means the NAS Server must provide a bind distinguished name and password to access the LDAP-based directory server.
Kerberos	Kerberos authentication means the NAS Server uses a KDC to confirm the identity when accessing the Active Directory.

Type : enum (Anonymous, Simple, Kerberos)

FileLDAPProtocolEnum

Indicates whether the LDAP protocol uses SSL for secure network communication. SSL encrypts data over the network and provides message and server authentication.

LDAP	LDAP protocol without SSL.

LDAPS (Default) LDAP protocol with SSL. When you enable LDAPS, make sure to specify the appropriate LDAPS port (usually port 636) and to upload an LDAPS trust certificate to the LDAP server.

Type : enum (LDAP, LDAPS)

FileLDAPSchemaTypeEnum

LDAP server schema type.

RFC2307 OpenLDAP/iPlanet schema.

Microsoft Microsoft Identity Management for UNIX (IDMU/SFU) schema.

Unknown Unknown protocol.

Type : enum (RFC2307, Microsoft, Unknown)

FileQuotaStateEnum

State of the user quota or tree quota record period.

Ok No quota limits are exceeded.

Soft_Exceeded Soft limit is exceeded, and grace period is not expired.

Soft_Exceeded_And_Expired Soft limit is exceeded, and grace period is expired.

Hard_Reached Hard limit is reached.

Type : enum (Ok, Soft_Exceeded, Soft_Exceeded_And_Expired, Hard_Reached)

FileSystemAccessPolicyEnum

File system security access policies. Each file system uses its access policy to determine how to reconcile the differences between NFS and SMB access control. Selecting an access policy determines which mechanism is used to enforce file security on the particular file system.

Native Native Security.

UNIX UNIX Security.

Windows Windows Security.

Type : enum (Native, UNIX, Windows)

FileSystemConfigTypeEnum

Indicates the file system type.

General	General purpose use case file system.
VMware	Vmware datastore purpose use case file system.

Was added in version 3.0.0.0.

Type : enum (General, VMware)

FileSystemFLRModeEnum

The FLR type of the file system.

None	Non-FLR file system
Enterprise	FLR-E file system.
Compliance	FLR-C file system.

Was added in version 3.0.0.0.

Type : enum (None, Enterprise, Compliance)

FileSystemFolderRenamePolicyEnum

File system folder rename policies for the file system with multiprotocol access enabled. These policies control whether the directory can be renamed from NFS or SMB clients when at least one file is opened in the directory, or in one of its child directories.

All_Allowed	All protocols are allowed to rename directories without any restrictions.
SMB_Forbidden	A directory rename from the SMB protocol will be denied if at least one file is opened in the directory or in one of its child directories.
All_Forbidden	Any directory rename request will be denied regardless of the protocol used, if at least one file is opened in the directory or in one of its child directories.

Type : enum (All_Allowed, SMB_Forbidden, All_Forbidden)

FileSystemHostIoSizeEnum

Typical size of writes from the server or other computer using the VMware file system to the storage system. This setting is used to match the storage block size to the I/O of the primary application using the storage, which can optimize performance. By default Host IO size will be 8K size for VMware filesystem. This attribute only applies to VMware config type filesystems.

- VMware_8K** Host I/O size is 8K for vmware datastore purpose.
- VMware_16K** Host I/O size is 16K for vmware datastore purpose.
- VMware_32K** Host I/O size is 32K for vmware datastore purpose.
- VMware_64K** Host I/O size is 64K for vmware datastore purpose.

Was added in version 3.0.0.0.

Type : enum (VMware_8K, VMware_16K, VMware_32K, VMware_64K)

FileSystemLockingPolicyEnum

File system locking policies. These policy choices control whether the NFSv4 range locks are honored. Because NFSv3 is advisory by design, this policy specifies that the NFSv4 locking feature behaves like NFSv3 (advisory mode), for backward compatibility with applications expecting an advisory locking scheme.

- Advisory** No lock checking for NFS and honor SMB lock range only for SMB.
- Mandatory** Honor SMB and NFS lock range.

Type : enum (Advisory, Mandatory)

FileSystemSnapshotAccessTypeEnum

Indicates whether the snapshot directory or protocol access is granted to the file system snapshot.

- Snapshot** Snapshot access is via the .snapshot folder in the file system.
- Protocol** Protocol access is via normal file shares. Protocol access is not provided by default - the NFS and/or SMB share must be created explicitly for the snapshot.

Type : enum (Snapshot, Protocol)

FileSystemSnapshotCreatorTypeEnum

Enumeration of possible snapshot creator types.

Scheduler Created by a snapshot schedule.

User Created by a user.

Type : enum (Scheduler, User)

FileSystemTypeEnum

Indicates the type of a file system.

Primary Normal file system or clone.

Snapshot Snapshot of a file system.

Type : enum (Primary, Snapshot)

FileVirusCheckerOfflinePolicyEnum

Describes the behavior when all checkers are offline:

Allow_Access SMB clients will continue to have access during the virus checker outage. When at least one virus checker server becomes available then they will be used.

Stop_SMB_Access SMB clients will lose access until at least one virus checker server becomes available.

Disable_Virus_Checker This virus checker will be disabled (is_enabled set to false). It must be reenabled manually after restoring access to the virus checker servers.

Was added in version 4.0.0.0.

Type : enum (Allow_Access, Stop_SMB_Access, Disable_Virus_Checker)

FileVirusCheckerStatusEnum

Indicates whether the anti-virus scan is running on file system. Values are:

- Stopped
- Scanning

Was added in version 4.0.0.0.

Type : enum (Stopped, Scanning)

ForecastMetricTypeEnum

Metric type to be forecast. Values are:

- Physical_Space_Used_One_Day

Type : enum (Physical_Space_Used_One_Day)

ForecastTimeToFullStatusEnum

Type of alert indicated for object based on projected time to full.

OK	Time to full value is greater than 28 days. No alert indicated.
Minor	Time to full value is less than or equal to 28 days but greater than 14 days. Minor alert indicated.
Major	Time to full value is less than or equal to 14 days. Major alert indicated.
None	There is insufficient forecast data to project time to full to at least 28 days. No alert indicated, but available data cannot guarantee OK status.

Type : enum (OK, Minor, Major, None)

FrontEndPortConnectionTypeEnum

Type of connector supported by the port. Current values are:

Unknown	Unknown Connector
SC	Subscriber Connector
FC_Style1_Copper	Fibre Channel Style 1 Copper Connector
FC_Style2_Copper	Fibre Channel Style 1 Copper Connector
BNC_TNC	Bayonet/Threaded Neill-Concelman Connector
FC_Coaxial_Headers	Fibre Channel Coaxial Headers Connector
FiberJack	Fiber Jack Connector

LC	Lucent Connector
MT_RJ	Mechanical Transfer - Registered Jack Connector
MU	Multiple Optical Connector
SG	SG Connector
Optical_Pigtail	Optical Pigtail Connector
HSSDC_II	High Speed Serial Data Connector
Copper_Pigtail	Copper Pigtail Connector
RJ45	RJ45 Connector
No_Separable	No Separable Connector
MXC_2x16	MXC 2x16 Connector
MPO_1x12	MPO 1x12 Connector
MPO_2x16	MPO 2x16 Connector

Values was added in 4.0.0.0: MPO_1x12, MPO_2x16.

Type : enum (Unknown, SC, FC_Style1_Copper, FC_Style2_Copper, BNC_TNC, FC_Coaxial_Headers, FiberJack, LC, MT_RJ, MU, SG, Optical_Pigtail, HSSDC_II, Copper_Pigtail, RJ45, No_Separable, MXC_2x16, MPO_1x12, MPO_2x16)

HAOSTypeEnum

Operating system of the import host system. Valid values are:

Windows	Windows.
Linux	Linux.
ESXi	ESXi.
Unknown	Operating system of the host system is unknown to PowerStore.

Type : enum (Windows, Linux, ESXi, Unknown)

HardwareDriveEncryptionStatusEnum

Indicates whether the drive is currently encrypted or not. Available on the Drive hardware type. Current statuses are:

Not_Supported	Drive does not support encryption.
Supported_Unlocked	Drive supports encryption but is not configured.
Supported_Locked	Drive supports encryption and is locked.
Supported_Locked_Cluster_PIN	Drive supports encryption and is configured.
Supported_Locked_Out	Drive supports encryption and is locked out.
Supported_Locked_Foreign	Drive supports encryption and is locked with an unknown PIN.
Supported_Processing	Drive supports encryption and is being processed.
Disabled	Drive encryption is disabled.

Type : enum (Not_Supported, Supported_Unlocked, Supported_Locked, Supported_Locked_Cluster_PIN, Supported_Locked_Out, Supported_Locked_Foreign, Supported_Processing, Disabled)

HardwareDriveFIPSStatusEnum

FIPS compliance level. Available on the Drive hardware type. Current compliance levels are:

FIPS_Compliance_None	Drive has no FIPS compliance.
FIPS_Compliance_Level_1	Drive has FIPS 140-2 compliance.
FIPS_Compliance_Level_2	Drive submitted for FIPS 140-3 compliance. Check Simple Support Matrix for details.
FIPS_Compliance_Invalid	Drive has invalid FIPS compliance.

Type : enum (FIPS_Compliance_None, FIPS_Compliance_Level_1, FIPS_Compliance_Level_2, FIPS_Compliance_Invalid)

HardwareDriveTypeEnum

Type of drive. Available on the Drive hardware type. Current types are:

- Unknown

SAS_SSD	SAS-connected SSD in an Expansion Enclosure.
NVMe_SCM	NVME-Connected Storage Class Memory.
NVMe_NVRAM	NVME-Connected Non-volatile RAM.
NVMe_SSD	NVME-Connected TLC SSD.
NVMe_Virtual	NVME-Connected Virtual drive.
NVMe_SSD_QLC	NVME-Connected QLC SSD.

Values was added in 3.5.0.0: NVMe_Virtual. Values was added in 4.0.0.0: NVMe_SSD_QLC.

Type : enum (Unknown, SAS_SSD, NVMe_SCM, NVMe_NVRAM, NVMe_SSD, NVMe_Virtual, NVMe_SSD_QLC)

HardwareEnclosureModelDescriptionEnum

The Enclosure Model Description. Available on the Expansion_Enclosure hardware type. Current enclosure models are:

ENS24_2_5_NVMe_Drive_Enc	ENS24 2.5" NVMe Expansion Enclosure.
2_5_SAS_Drive_Enc	2.5" SAS Expansion Enclosure.

Was added in version 3.0.0.0.

Type : enum (ENS24_2_5_NVMe_Drive_Enc, 2_5_SAS_Drive_Enc)

HardwareLifecycleStateEnum

Lifecycle state of the Hardware. Current values are:

Uninitialized	System is starting up.
Healthy	Hardware is healthy.
Initializing	System is starting up.
Failed	Hardware has failed.
Disconnected	Hardware was removed from the system.

Prepare_Failed	Transient state used during startup.
Trigger_Update	Transient state used during startup.
Empty	No hardware present in this location.
Replaced	Hardware has been replaced.
Prepare_Reset	Transient state used during reset.

Values was added in 3.5.0.0: Replaced, Prepare_Reset.

Type : enum (Uninitialized, Healthy, Initializing, Failed, Disconnected, Prepare_Failed, Trigger_Update, Empty, Replaced, Prepare_Reset)

HardwareModelTypeEnum

Desired model to which the appliance should be upgraded.

- 1200T
- 3200T
- 5200T
- 9200T

Was added in version 3.6.0.0.

Type : enum (1200T, 3200T, 5200T, 9200T)

HardwareSFPConnectorTypeEnum

Connector type. Available on the SFP hardware type. Current types are:

Unknown	Unknown Connector
SC	Subscriber Connector
FC_Style1_Copper	Fibre Channel Style 1 Copper Connector
FC_Style2_Copper	Fibre Channel Style 1 Copper Connector
BNC_TNC	Bayonet/Threaded Neill-Concelman Connector
FC_Coaxial_Headers	Fibre Channel Coaxial Headers Connector

FiberJack	Fiber Jack Connector
LC	Lucent Connector
MT_RJ	Mechanical Transfer - Registered Jack Connector
MU	Multiple Optical Connector
SG	SG Connector
Optical_Pigtail	Optical Pigtail Connector
HSSDC_II	High Speed Serial Data Connector
Copper_Pigtail	Copper Pigtail Connector
RJ45	RJ45 Connector
No_Separable	Non-seperable Connector
MXC_2x16	MXC 2x16 Connector
MPO_1x12	MPO 1x12 Connector
MPO_2x16	MPO 2x16 Connector

Values was added in 4.0.0.0: MPO_1x12, MPO_2x16.

Type : enum (Unknown, SC, FC_Style1_Copper, FC_Style2_Copper, BNC_TNC, FC_Coaxial_Headers, FiberJack, LC, MT_RJ, MU, SG, Optical_Pigtail, HSSDC_II, Copper_Pigtail, RJ45, No_Separable, MXC_2x16, MPO_1x12, MPO_2x16)

HardwareSFPModeEnum

SFP mode. Available on the SFP hardware type. Current modes are:

Unknown	This SFP has unknown support.
Multi_Mode	This SFP supports multi-mode fiber.
Single_Mode	This SFP supports single-mode fiber.

Type : enum (Unknown, Multi_Mode, Single_Mode)

HardwareSFPSpeedEnum

Supported speed. Available on the SFP hardware type. Current supported speeds are:

Auto	Automatically selected link speed
4_Gbps	4 Gigabits per second
8_Gbps	8 Gigabits per second
16_Gbps	16 Gigabits per second
32_Gbps	32 Gigabits per second
10_Mbps	10 Megabits per second
100_Mbps	100 Megabits per second
1_Gbps	1 Gigabit per second
10_Gbps	10 Gigabits per second
25_Gbps	25 Gigabits per second
40_Gbps	40 Gigabits per second
100_Gbps	100 Gigabits per second
3_Gbps	3 Gigabits per second
6_Gbps	6 Gigabits per second
12_Gbps	12 Gigabits per second

Values was added in 3.0.0.0: 100_Gbps. Values was added in 3.6.0.0: 3_Gbps, 6_Gbps, 12_Gbps.

Type : enum (Auto, 4_Gbps, 8_Gbps, 16_Gbps, 32_Gbps, 10_Mbps, 100_Mbps, 1_Gbps, 10_Gbps, 25_Gbps, 40_Gbps, 100_Gbps, 3_Gbps, 6_Gbps, 12_Gbps)

HardwareSFPSupportedProtocolEnum

Supported protocol. Available on the SFP hardware type. Current protocols are:

Unknown	This SFP has unknown protocol support.

FC	This SFP supports Fibre Channel.
Ethernet	This SFP supports Ethernet.
FC_Ethernet	This SFP supports Fibre Channel or Ethernet.
SAS	This SFP supports SAS for connections to Expansion Enclosures.

Type : enum (Unknown, FC, Ethernet, FC_Ethernet, SAS)

HardwareStaleStateEnum

Stale state of the Hardware. Current states are:

Not_Stale	Not stale.
Disconnected	Either this Hardware or an ancestor of this Hardware has a Disconnected lifecycle state and therefore is not updated.

Was added in version 2.0.0.0.

Type : enum (Not_Stale, Disconnected)

HardwareStatusLEDStateEnum

State of the status LED of the hardware. The LED is On when there is a hardware fault. Current values are:

Off	Hardware Status LED is turned off.
On	Hardware Status LED is turned on.

Type : enum (Off, On)

HardwareTypeEnum

The type of hardware component. Current types are:

Appliance	The System including the Base Enclosure and optional Expansion Enclosures.
Base_Enclosure	The enclosure containing 2 Nodes and 25 NVME drive slots.
Node	The component that contains the processors and DIMMs.

Expansion_Enclosure	The enclosures that contain additional SAS storage.
Power_Supply	The AC Power Supply that powers each Node.
IO_Module	The component that provides front-end I/O connectivity to each Node.
Link_Control_Card	The IO card that provides SAS Connectivity to the Expansion Enclosure.
SFP	The Small Form-factor Pluggable (SFP) that is used for networking.
Battery	The internal battery backup used by each Node.
DIMM	The memory sticks that are installed in each Node.
M2_Drive	The internal M.2 SATA drive used for Node boot and recovery.
CDB	Clock Distribution Board.
Access_Module	ACCESS MODULE.
Fan	The fan module that provides cooling to the Node or expansion enclosure.
Drive	The NVME drives installed in the Base Enclosure or the SAS drives installed in an Expansion Enclosure.

Values was added in 3.0.0.0: CDB, Access_Module.

Type : enum (Appliance, Node, Base_Enclosure, Expansion_Enclosure, Power_Supply, IO_Module, Link_Control_Card, SFP, Battery, DIMM, M2_Drive, CDB, Access_Module, Fan, Drive)

HardwareUpgradeTypeEnum

Supported upgrade types.

Online	The Node is power on.
Offline	The Node is powered off.

Was added in version 3.6.0.0.

Type : enum (Online, Offline)

HostAgentStatusEnum

Status of the import host system. Valid values are:

Unknown	Agent status is unknown.
Running	Agent is up and running.
Conflict_Detected	Agent detected that there are multiple MPIOs installed on the host and Destination Powerstore MPIO is not able to claim destination device as some other MPIO has already claimed it.
Version_Unsupported	Agent detected that the OS or any other dependent component does not satisfy the version as expected by the it.

Type : enum (Unknown, Running, Conflict_Detected, Version_Unsupported)

HostAgentTypeEnum

Type of import host system. Valid values are:

EQL	EQL MPIO.
Native_MPIO	Native MPIO.
Power_Path	POWER PATH MPIO.
Unknown	Type of host agent is unknown to PowerStore.

Type : enum (EQL, Native_MPIO, Power_Path, Unknown)

HostConnectivityEnum

Connectivity type for hosts and host groups. If any of the metro connectivity settings are specified, a metro host or host group must exist in both clusters and provide connectivity to a metro volume from both clusters. Failing to configure hosts or host groups properly could result in data unavailable conditions in failover scenarios or poor I/O performance.

Local_Only	Local connectivity to this array. This is the default setting for all hosts and host groups.

Metro_Optimize_Both	Metro connectivity configuration for specifying optimized status for both this cluster and the remote cluster. This option should be selected if the host or host group has equivalent latency and performance for paths to both the local and remote metro clusters. The host or host group will use their own multi-path configuration to determine the best path for I/O.
Metro_Optimize_Local	Metro connectivity configuration for specifying optimized status for this cluster, and non-optimized status for the remote cluster. This option should be selected if the host or host group has a low latency connection to this cluster and a higher latency connections to the remote cluster. The host or host group will always send I/O to this cluster except in failure situations.
Metro_Optimize_Remote	Metro Connectivity configuration for specifying non-optimized status for this cluster, and optimized status for the remote cluster. This option should be selected if the host or host group has a high latency connection to this cluster and a low latency connection to the remote cluster. The host or host group will always send I/O to the remote cluster except in failure situations.

Was added in version 3.0.0.0.

Type : enum (Local_Only, Metro_Optimize_Both, Metro_Optimize_Local, Metro_Optimize_Remote)

HostInitiatorProtocolTypeEnum

Protocol type of the import host initiator. Valid values are:

Other	Protocol type is other.
iSCSI	Protocol type is internet SCSI.
FC	Protocol type is Fibre Channel.
FCoE	Protocol type is Fibre Channel over Ethernet.
Unknown	Protocol type is unknown to PowerStore.

Type : enum (Other, iSCSI, FC, FCoE, Unknown)

HostTypeEnum

Type of host. Defaults to external, so normal clients can only create external hosts.

- External** A host that is not part of the PowerStore hardware.
- Internal** ESXi host running on the PowerStore+ hardware. Not applicable for SAN only deployments. Internal hosts are read-only and managed automatically by the system.

Was added in version 2.0.0.0.

Type : enum (External, Internal)

HttpStatusEnum

Possible HTTP status values of completed or failed jobs

- 200** Successful completion, with a response body. A collection GET with no instances returns 200 and a body of "[]".
- 201** Successful completion of a create request, with a minimal instance response body (id only).
- 202** The request has completed by initiating a background or async activity. A job instance response body is being returned instead of a normal response.
- 204** Successful completion with no response body. Typical for deletes, modifies, and any other actions with no outputs. If all the outputs from an action are optional, that action can return 204 if none of the outputs are returned, or 200 if any are.
- 206** Successful completion with partial GET response.
- 207** Completion of bulk or composite request. Not used by individual commands.
- 400** Invalid request - some kind of validation failure. Syntactic issue with request, duplicate name when unique is required, values out of range, invalid characters in a string, etc.
- 401** Not allowed - not authenticated.
- 403** Not allowed - authorization failure.
- 404** The request is for an action on an resource that doesn't exist. This could be an invalid id in an instance URL, or an entirely invalid URL path.
- 405** The HTTP method is not supported on that URL.

- 406** Not acceptable - the server cannot satisfy the Accept: header in the request. Only application/json is supported.
- 415** Invalid request Content-Type.
- 416** Range Not Satisfiable. The client requested a starting offset (using the ?offset URL parameter, or the first value in Range header) that was larger than the number of instances in the queried result set.
- 422** Request syntax is correct, but server was not able to process it
- 500** Internal error.
- 503** Wait and try again. System is busy.

Was added in version 2.0.0.0.

Type : enum (200, 201, 202, 204, 206, 207, 400, 401, 403, 404, 405, 406, 415, 416, 422, 500, 503)

IDPTypeEnum

Type of the IDP

Microsoft_Entra_ID Microsoft Entra ID IDP (formerly Microsoft Azure IDP)

Was added in version 4.2.0.0.

Type : enum (Microsoft_Entra_ID)

ImportDestinationResourceTypeEnum

Storage resource type of the import destination. Values are:

volume The destination resource of the import session is a volume.

volume_group The destination resource of the import session is a volume group.

Type : enum (volume, volume_group)

ImportOperationStatusEnum

Migration state of the import host volume. Valid values are:

Import_Completed Import operation was successful.

Cancel_Completed	Cancel operation was successful.
Import_Aborted	Aborted the ongoing import.
Cancel_Aborted	Aborted the ongoing cancel operation.
Cancel_Forced	Aborted the ongoing cancel operation.
None	Migration state is not known to PowerStore.

Type : enum (Import_Completed, Cancel_Completed, Import_Aborted, Cancel_Aborted, Cancel_Forced, None)

ImportPsgroupScheduleStatusEnum

Snapshot schedule status. Valid values are:

Enabled	Snapshot schedule is enabled.
Disabled	Snapshot schedule is disabled.
Expired	Snapshot schedule is expired.

Type : enum (Enabled, Disabled, Expired)

ImportPsgroupScheduleTypeEnum

Snapshot schedule frequency. Valid values are:

Once	Take snapshot only once.
Hourly	Take snapshot hourly.
Daily	Take snapshot on a daily basis.
Weekly	Take snapshot on a weekly basis.
Monthly	Take snapshot on a monthly basis.

Type : enum (Once, Hourly, Daily, Weekly, Monthly)

ImportSessionStateEnum

Import session states

Scheduled	Indicates that a user scheduled the import to run at a later time. The import remains in this state and waits until the schedule expires.
Paused	Indicates that the data copy between the source and destination volumes is paused.
Queued	Indicates that all imports are queued and run in a First In First Out (FIFO) order. This occurs when there are more active import sessions than supported.
In_Progress	Indicates that a queued import session is now in progress.
Mirror_Enabled	Indicates that an import session has completed setting up the entities required to import data from the source resource.
Ready_To_Start_Copy	Indicates that an import session is ready to start the data copy operation from the source resource.
Copy_In_Progress	Indicates that the data copy between the source and destination storage systems has started. The data copy runs as a background job and updates the import session percentage complete and estimated time left for the copy. Host IOs are pointed to PowerStore in this state. The import process keeps the source and destination volumes or consistency groups volume in sync by doing IO forwarding.
Ready_For_Cutover	Indicates that you can commit the import. The import process moves to this state after it successfully copies data from the source volume or consistency group.
Cutover_In_Progress	Indicates that the cutover of volumes that are part of a consistency group is in progress.
Import_Completed	Indicates that all operations completed successfully for a given import after a commit. In this state, the source volume is no longer mapped to the host and all stale paths are cleaned up.
Cancelled	Indicates that a user forcefully cancelled the import.

Failed	Indicates that there was an error during import. The appropriate error message is returned in the error_response object.
Cancel_Failed	Indicates that an attempt to cancel the import of a volume failed in a consistency group import.
Cancel_In_Progress	Indicates that a cancel is in progress.
Cleanup_In_Progress	Indicates that the import of one or more volumes in a consistency group failed. When this occurs, you must roll back the import of the other volumes of the consistency group by executing a Cancel operation on each volume.
Cleanup_Failed	Indicates that there was an error while cleaning up the consistency group.
Invalid	Indicates that an import session is in an unexpected state.
Cleanup_Required	Indicates that there was an error while cleaning up the import or consistency group that requires user intervention to bring back host applications.
Import_Completed_With_Errors	Indicates that there was a mirror failure for one or more members while committing a consistency group due to which members were partially committed. The failed members were cancelled.
Import_Cutover_Incomplete	Indicates that one or more members couldn't be committed successfully resulting in partial commit of the consistency group. Commit should be tried again on the consistency group.
Cancel_Required	Indicates that agentless import has failed during copy operation and once in this state user is expected to cancel the import.

Values was added in 1.0.2: Cancel_Required.

Type : enum (Scheduled, Paused, Queued, In_Progress, Mirror_Enabled, Ready_To_Start_Copy, Copy_In_Progress, Ready_For_Cutover, Cutover_In_Progress, Import_Completed, Cancelled, Failed, Cancel_Failed, Cancel_In_Progress, Cleanup_In_Progress, Cleanup_Failed, Invalid, Cleanup_Required, Import_Completed_With_Errors, Import_Cutover_Incomplete, Cancel_Required)

ImportSessionTypeEnum

The type of the import session. Values are:

Non_Disruptive	This type of import session requires an Import Host Agent to be running on any host accessing the import source resources. There is no host application downtime.
Agentless	This type of import session does not require an Import Host Agent to be running on any host accessing the source resources of import. Host application downtime is required to reconfigure the host application to use the destination resource before starting the data copy operation.

Was added in version 1.0.2.

Type : enum (Non_Disruptive, Agentless)

ImportStatusEnum

Migration state of the volume. Valid values are:

None	Volume is not migrated.
Normal	Volume state is normal.
Prepared	Volume is prepared for migration.
Disabled_For_IO	Volume is disabled for IO from host.
In_Progress	Volume migration is in progress.
Completed	Volume is migrated.
Aborted	Volume migration is aborted
Unknown	Volume migration state is unknown to PowerStore.

Type : enum (None, Normal, Prepared, Disabled_For_IO, In_Progress, Aborted, Completed, Unknown)

InitiatorProtocolTypeEnum

Protocol type of the host initiator.

iSCSI	An iSCSI host initiator.
FC	A Fibre Channel host initiator.
NVMe	A NVMe host initiator. Single type for all NVMe Fabrics types (NVMe/FC, NVMe/TCP, NVMe/RoCEv2).
NVMe_vVol	A vVol specific NVMe host initiator.

Values was added in 2.0.0.0: NVMe. Values was added in 3.0.0.0: NVMe_vVol.

Type : enum (iSCSI, FC, NVMe, NVMe_vVol)

IoPriorityEnum

The I/O priority for quality of service rules. Values are:

- Low
- Medium
- High

Type : enum (Low, Medium, High)

IpPortUsageEnum

IP port usages.

Management	Can be used for the public management network.
ISCSI	Can be used for the public storage network via iSCSI.
ISCSI_Default	The default IP port used for HA storage access, the storage discovery address, and is the default port for replication on PowerStore X appliances. IP ports tagged with ISCSI_Default may not be removed. This usage is no longer applicable to Power Store T appliances, though it may remain on PowerStore T appliances that have been upgraded from a release where it was used.
NVMe_TCP	Can be used for the public storage network via NVMe/TCP.
External_Replication	Can be used for remote system replication or import traffic.
File_Mobility	Can be used for NAS server file replication.

File_Data	Can be used for NAS server file interface configuration.
ICM	Can be used for management within the cluster.
ICD	Can be used for data within the cluster.

Values was added in 2.1.0.0: NVMe_TCP. Values was added in 3.0.0.0: File_Mobility, File_Data. Values was added in 3.5.0.0: ICM, ICD.

Type : enum (Management, ISCSI, ISCSI_Default, NVMe_TCP, External_Replication, File_Mobility, File_Data, ICM, ICD)

IpPurposeTypeEnum

Network IP address purpose.

Mgmt_Cluster_Floating	Floating IP address for external cluster management.
Mgmt_Appliance_Floating	Floating IP address for external appliance management.
Mgmt_Node_CoreOS	IP address for external system node management.
Mgmt_Node_Host	IP address for external ESXi host management.
ICM_Postgres_Floating	Floating IP address for internal Postgres access within the cluster.
ICM_Controlpath_Floating	Floating IP address for controlpath on a particular appliance.
ICM_Cluster_Floating	Floating IP address for management within the cluster.
ICM_Appliance_Floating	Floating IP address for appliance management within the cluster.
ICM_Node_CoreOS	IP address for system node management within the cluster.
Storage_Cluster_Floating	Floating IP address for external iSCSI discovery.
Storage_Iscsi_Initiator	IP address for ESXi iSCSI initiators.
Storage_Iscsi_Target	IP address for system iSCSI targets.
Storage_NVMe_TCP_Port	IP address for NVMe/TCP subsystem ports.

External_Replication_Iscsi	IP address for External Replication over iSCSI.
External_Replication	IP address for iSCSI and iBasic replication connectivity.
ICD_Node	IP address of a node for data within the cluster.
SDNAS_Cluster_Floating	Floating IP address for SDNAS management within the cluster.
SDNAS_Node	IP address for SDNAS node management within the cluster.
SDNAS_Node_Serviceability	IP address for SDNAS node serviceability access within the cluster.
File_Mobility_Node	IP address for node within file mobility network.
File_Mobility_Floating	Floating IP address for file mobility network.
VMotion	vMotion IP address.
Unused	Unused IP address.
Storage_Global	This value is no longer used.

Values was added in 2.0.0.0: External_Replication_Iscsi. Values was added in 2.1.0.0: Storage_NVMe_TCP_Port. Values was added in 3.0.0.0: ICM_Postgres_Floating, ICM_Controlpath_Floating, File_Mobility_Node, File_Mobility_Floating. Values was added in 4.0.0.0: External_Replication. Values was deprecated in 2.0.0.0: Storage_Global. Values was deprecated in 4.0.0.0: External_Replication_Iscsi.

Type : enum (Mgmt_Cluster_Floating, Mgmt_Appliance_Floating, Mgmt_Node_CoreOS, Mgmt_Node_Host, ICM_Cluster_Floating, ICM_Postgres_Floating, ICM_Appliance_Floating, ICM_Controlpath_Floating, ICM_Node_CoreOS, Storage_Cluster_Floating, Storage_Iscsi_Initiator, Storage_Iscsi_Target, Storage_NVMe_TCP_Port, External_Replication_Iscsi, External_Replication, ICD_Node, SDNAS_Cluster_Floating, SDNAS_Node, SDNAS_Node_Serviceability, File_Mobility_Node, File_Mobility_Floating, VMotion, Unused, Storage_Global)

IpVersionTypeEnum

IP protocol version. Values are:

- IPv4
- IPv6

Type : enum (IPv4, IPv6)

JobPhaseEnum

Current status of the job.

Pending	Job has not started executing yet
Queued	Job has been queued
In_Progress	Job is currently executing
Completed	Job has completed successfully
Skipped	Job will not be executed. This state is defined upfront and it is related to NDU.
Failing	Job will not complete successfully, and hasn't finished its clean up steps. Will transition to 'Failed' or 'Unrecoverable_Failed' depending on whether or not the clean up steps succeed.
Unrecoverable_Failed	Job failed, and couldn't complete its clean up steps which, depending on the actions performed by the job, may leave discrepancies on the system
Failed	Job failed, but completed its respective clean up steps

Was added in version 1.0.2.

Type : enum (Pending, Queued, In_Progress, Completed, Skipped, Failing, Unrecoverable_Failed, Failed)

JobStateEnum

Current status of the job. Deprecated in Smuttynose-SP2.

PENDING	Job has not started executing yet
QUEUED	Job has been queued
IN_PROGRESS	Job is currently executing
COMPLETED	Job has completed successfully
SKIPPED	Job will not be executed. This state is defined upfront and it is related to NDU.

FAILING	Job will not complete successfully, but has not completed clean up
UNRECOVERABLE_FAILED	Job failed, and couldn't complete its clean up steps, leaving the system inconsistent
FAILED	Job failed, and completed its clean up

Was deprecated in version 1.0.2. Values was added in 1.0.2: FAILING.

Type : enum (PENDING, QUEUED, IN_PROGRESS, COMPLETED, SKIPPED, FAILING, UNRECOVERABLE_FAILED, FAILED)

KMIPConfigStatusEnum

Possible statuses for each KMIP server.

Up	server is responding
Down	server is not responding Otherwise, the server status cannot be determined and the status will be 'null' or blank. At the GUI level an 'Unknown' status will be given in this case.

Was added in version 3.0.0.0. Values was added in 3.0.0.0: Up, Down.

Type : enum (Up, Down)

LDAPAccountTypeEnum

Type of LDAP account:

User	LDAP account that maps to an LDAP user in LDAP server.
Group	LDAP account that maps to an LDAP group in LDAP server.

Was added in version 1.0.3.

Type : enum (User, Group)

LDAPProtocolEnum

Types of directory service protocol:

LDAP	Lightweight directory access protocol

LDAPS Secure lightweight directory access protocol

Was added in version 1.0.3.

Type : enum (LDAP, LDAPS)

LDAPServerTypeEnum

Types of LDAP server:

AD Active directory

OpenLDAP Open source implementation of LDAP

Was added in version 1.0.3.

Type : enum (AD, OpenLDAP)

LicenseTypeEnum

Supported license type of the instance

EVALUATION Evaluation license type which will expired on a given date

PERMANENT Permanent license type which will never expire

SUBSCRIPTION Subscription licese type which only valid during the period of given dates

Was added in version 3.5.0.0.

Type : enum (EVALUATION, PERMANENT, SUBSCRIPTION)

LocationHistoryReasonEnum

Reason for storage resource relocation.

Initial Initial placement.

Manual Manual migration operation initiated by user.

Recommended Storage system recommended migration.

Type : enum (Initial, Manual, Recommended)

MFAServiceTypeEnum

Type of MFA service resource:

MFA_SecurID Multi-Factor Authentication with SecurID

MFA_CACPIV Multi-Factor Authentication with CAC/PIV

Was added in version 3.5.0.0. Values was added in 4.1.0.0: MFA_CACPIV.

Type : enum (MFA_SecurID, MFA_CACPIV)

MessageSeverityEnum

Message severity. Values are:

- Info
- Warning
- Error

Type : enum (Info, Warning, Error)

MetricsEntityEnum

An enum describing the various entities supported by metrics.

performance_metrics_by_appliance Appliance performance metrics.

performance_metrics_by_node Node performance metrics.

performance_metrics_by_volume Volume performance metrics.

performance_metrics_by_cluster Cluster performance metrics.

performance_metrics_by_vm Virtual Machine performance metrics.

performance_metrics_by_vg Storage performance metrics for all volumes in a volume group

performance_metrics_by_fe_fc_port Frontend fibre channel port performance metrics.

performance_metrics_by_fe_eth_port Frontend ethernet port performance metrics.

performance_metrics_by_fe_eth_node Frontend ethernet performance metrics for node.

performance_metrics_by_fe_fc_node	Frontend fibre channel performance metrics for node.
vsphere_metrics_by_vm	Virtual Machine performance metrics directly from vSphere.
vsphere_appson_metrics_by_node	Usage of CPU/Memory resources on the node by user Virtual machines.
vsphere_appson_metrics_by_appliance	Usage of CPU/Memory resources on the appliance by user Virtual machines.
wear_metrics_by_drive	Drive wear metrics. • wear_metrics_by_drive_daily
space_metrics_by_cluster	Cluster space metrics
space_metrics_by_appliance	Appliance space metrics
space_metrics_by_volume	Volume space metrics
space_metrics_by_volume_family	Volume family space metrics
space_metrics_by_vm	Virtual Machine space metrics
space_metrics_by_storage_container	Storage Container space metrics
space_metrics_by_vg	Volume space metrics in a volume group
copy_metrics_by_appliance	Appliance copy metrics
copy_metrics_by_cluster	Cluster copy metrics
copy_metrics_by_vg	Copy metrics for each volume group
copy_metrics_by_rg	Copy metrics for each replication group
copy_metrics_by_remote_system	Copy metrics for each remote system
copy_metrics_by_replication_session	Copy metrics for each replication session
copy_metrics_by_volume	Copy metrics for each volume

performance_metrics_by_file_system	Performance metrics for the file system.
performance_metrics_smb_by_node	Performance metrics for the SMB protocol global
performance_metrics_smb_builtinclient_by_node	Performance metrics for the SMB protocol built-in client
performance_metrics_smb_branch_cache_by_node	Performance metrics for the SMB protocol Branch-Cache
performance_metrics_smb1_by_node	Performance metrics for the SMB1 protocol basic
performance_metrics_smb1_builtinclient_by_node	Performance metrics for the SMB1 protocol built-in client
performance_metrics_smb2_by_node	Performance metrics for the SMB2 protocol basic
performance_metrics_smb2_builtinclient_by_node	Performance metrics for the SMB2 protocol built-in client
performance_metrics_nfs_by_node	Performance metrics for the NFS protocol
performance_metrics_nfsv3_by_node	Performance metrics for the NFSv3 protocol
performance_metrics_nfsv4_by_node	Performance metrics for the NFSv4 protocol
performance_metrics_file_by_node	Performance metrics for file by node.
performance_metrics_file_by_appliance	Performance metrics for file by appliance.
performance_metrics_file_by_cluster	Performance metrics for file by cluster.
performance_metrics_by_ip_port	Performance metrics for the ip port (total)
performance_metrics_by_ip_port_iscsi	Performance metrics for the ip port (iSCSI)
performance_metrics_by_nas_server	Performance metrics for the Nas Server
space_metrics_by_file_system	Space metrics for the File System.
performance_metrics_by_initiator	Performance metrics for the initiator

performance_metrics_by_host	Performance metrics for the host
performance_metrics_by_hg	Performance metrics for all hosts in a host group
space_metrics_by_remote_system	Remote system space metrics. Currently this is supported only for the PowerProtect DD remote systems.
copy_metrics_by_file_system	Copy metrics for each file system
copy_metrics_by_nas_server	Copy metrics for each nas server
performance_headroom_by_appliance	Appliance performance headroom metrics
performance_metrics_by_appliance_resource_util	Appliance hardware resource utilization metrics

Values was deprecated in 2.0.0.0: wear_metrics_by_drive. Values was added in 2.0.0.0: performance_metrics_by_ip_port, performance_metrics_file_by_node, performance_metrics_file_by_appliance, performance_metrics_file_by_cluster. Values was added in 3.0.0.0: performance_metrics_by_nas_server, space_metrics_by_file_system, performance_metrics_by_initiator, performance_metrics_by_host, performance_metrics_by_hg, vsphere_metrics_by_vm, vsphere_appson_metrics_by_node, vsphere_appson_metrics_by_appliance, copy_metrics_by_rg, performance_metrics_by_ip_port_iscsi. Values was added in 3.5.0.0: space_metrics_by_remote_system. Values was added in 4.0.0.0: copy_metrics_by_file_system, copy_metrics_by_nas_server. Values was added in 4.1.0.0: performance_headroom_by_appliance, performance_metrics_by_appliance_resource_util, copy_metrics_by_replication_session.

Type : enum (performance_metrics_by_appliance, performance_metrics_by_node, performance_metrics_by_volume, performance_metrics_by_cluster, performance_metrics_by_vm, performance_metrics_by_vg, performance_metrics_by_fe_fc_port, performance_metrics_by_fe_eth_port, performance_metrics_by_fe_eth_node, performance_metrics_by_fe_fc_node, wear_metrics_by_drive, wear_metrics_by_drive_daily, space_metrics_by_cluster, space_metrics_by_appliance, space_metrics_by_volume, space_metrics_by_volume_family, space_metrics_by_vm, space_metrics_by_storage_container, space_metrics_by_vg, copy_metrics_by_appliance, copy_metrics_by_cluster, copy_metrics_by_vg, copy_metrics_by_rg, copy_metrics_by_remote_system, copy_metrics_by_replication_session, copy_metrics_by_volume, performance_metrics_by_file_system, performance_metrics_smb_by_node, performance_metrics_smb_builtinclient_by_node, performance_metrics_smb_branch_cache_by_node, performance_metrics_smb1_by_node, performance_metrics_smb1_builtinclient_by_node, performance_metrics_smb2_by_node, performance_metrics_smb2_builtinclient_by_node, performance_metrics_nfs_by_node, performance_metrics_nfsv3_by_node, performance_metrics_nfsv4_by_node, performance_metrics_file_by_node, performance_metrics_file_by_appliance, performance_metrics_file_by_cluster, performance_metrics_by_ip_port,

performance_metrics_by_ip_port_iscsi, performance_metrics_by_nas_server,
space_metrics_by_file_system, performance_metrics_by_initiator, performance_metrics_by_host,
performance_metrics_by_hg, vsphere_metrics_by_vm, vsphere_appson_metrics_by_node,
vsphere_appson_metrics_by_appliance, space_metrics_by_remote_system,
copy_metrics_by_file_system, copy_metrics_by_nas_server, performance_headroom_by_appliance,
performance_metrics_by_appliance_resource_util)

MetricsIntervalEnum

Intervals of which metrics can be provided. Values are:

- Best_Available
- Five_Sec
- Twenty_Sec
- Five_Mins
- One_Hour
- One_Day

Values was added in 3.0.0.0: Best_Available, Five_Sec.

Type : enum (Best_Available, Five_Sec, Twenty_Sec, Five_Mins, One_Hour, One_Day)

MfaSecuridStatusEnum

Status of connection to service.

Connected	Connection to service is operational.
Unavailable	Service is not available.
Disabled	Service is disabled with the is_enabled property. If set, it reflects the most recent attempt to actually use the service.

Was added in version 3.5.0.0.

Type : enum (Connected, Unavailable, Disabled)

MigrationRecommendationActionStateEnum

State of a recommended migration action.

Recommendation_Created	This action has been recommended, but no other action has been taken.

Migration_Session_Created	A migration session was successfully created for this recommended action.
Migration_Session_Create_Failed	A migration session could not be created for this recommended action.
Migration_Started	The migration session for this recommended action was successfully started.
Migration_Start_Failed	The migration session for this recommended action failed to start.
Migration_Paused	The migration session for this recommended action is paused.
Migration_Error	The migration session for this recommended action has failed.
Migration_Successful	The migration session for this recommended action has been successfully completed.

Type : enum (Recommendation_Created, Migration_Session_Created, Migration_Session_Create_Failed, Migration_Started, Migration_Start_Failed, Migration_Paused, Migration_Error, Migration_Successful)

MigrationRecommendationPrimaryResourceTypeEnum

Specifies grouping mechanism for migration actions in a recommendation that identifies logically related migration actions. If a volume/virtual volume is attached to a host/virtual machine and the system selects all volumes/virtual volumes attached to the same host/virtual machine for migration, the type is set to host/virtual_machine. If a volume/virtual volume is unattached or the system couldn't consider logical grouping, the group type is set to volume or virtual volume. For volume group objects, the scope of migration is always volumes_group regardless of host attachment. The order of selection for primary resource types is: Resources without host/virtual_machine connectivity. Resources with host/virtual_machine connectivity. Resources in each of the above category are further ordered by decreasing cost of migration.

Valid scopes for migrations are:

volume	Standalone attached/unattached volume family.
virtual_volume	Standalone attached/unattached virtual volume family.

host	Logical group of all volume families attached to a host.
virtual_machine	Logical group of all virtual volume families attached to a virtual machine.
replication_group	Logical group of all virtual volume families and virtual machines attached to a replication group
volume_group	Volume group family with or without host attachment.

Values was added in 3.0.0.0: replication_group.

Type : enum (volume, virtual_volume, host, virtual_machine, replication_group, volume_group)

MigrationRecommendationReasonEnum

Reason for migrating a specific resource.

No_Host_Attached	Resource is not attached to any host.
No_Virtual_Machine_Attached	Resource is not attached to any virtual machine.
Attached_To_Host	Resource is attached to host.
Attached_To_Virtual_Machine	Resource is attached to virtual machine.
Virtual_Machine	Resource is virtual machine.
Virtual_Machine_Family	Resource is virtual machine family
Replication_Group	Resource is replication group
Volume_Group_Member	Resource is a member of volume group.
Unspecified	Unspecified.

Values was added in 3.0.0.0: Virtual_Machine, Replication_Group, Virtual_Machine_Family.

Type : enum (No_Host_Attached, No_Virtual_Machine_Attached, Attached_To_Host, Attached_To_Virtual_Machine, Virtual_Machine, Virtual_Machine_Family, Replication_Group, Volume_Group_Member, Unspecified)

MigrationRecommendationStateEnum

State of a migration recommendation.

Recommendation_Created	Recommended actions meet all request parameters.
Some_Actions_Recommended	Recommendation generated, but not all request parameters satisfied.
Migration_Session_Created	Migration sessions were successfully created for each recommended migration action.
Migration_Session_Create_Failed	A migration session could not be created for at least one recommended recommended actions. When an error is encountered while creating one of the sessions, the session creation for remaining migration actions will be aborted and error is returned. Sessions which are already created for this recommendation will be rolled back. After completing the roll-back, recommendation and all actions will be restored to Recommendation_Created state so that the recommendation can be applied again.
Migration_Started	All migration sessions successfully started.
Migration_Start_Failed	At least one migration session failed to start. Remaining sessions within the recommendation will be attempted, Error will be returned. There will not be a roll back for any sync operation.
Migration_Paused	At least one migration session for this recommendation is paused. Paused migration sessions can be resumed manually.
Migration_Error	At least one migration session for this recommendation has failed.
Migration_Successful	All migration sessions have been successfully completed.

Values was added in 2.0.0.0: Migration_Start_Failed.

Type : enum (Recommendation_Created, Some_Actions_Recommended, Migration_Session_Created, Migration_Session_Create_Failed, Migration_Started, Migration_Start_Failed, Migration_Paused, Migration_Error, Migration_Successful)

MigrationRecommendationTypeEnum

Type of request that generated a migration recommendation.

Evacuate_Appliance	A recommendation to evacuate space by auto selecting storage objects from an appliance using specified size.

Evacuate_Objects A recommendation to evacuate appliance by using specified objects.

Values was added in 2.0.0.0: Evacuate_Objects.

Type : enum (Evacuate_Appliance, Evacuate_Objects)

MigrationResourceTypeEnum

Storage resource types eligible for migration. Values are:

- volume
- virtual_volume
- volume_group
- virtual_machine
- replication_group

Values was added in 3.0.0.0: virtual_machine, replication_group.

Type : enum (volume, virtual_volume, volume_group, virtual_machine, replication_group)

MigrationSessionStateEnum

Migration session states.

Initializing	Migration session starts and stays in this state until the session initialization completes.
Automatic_Rescan_In_Progress	Migration session is rescanning hosts that are capable of being automatically rescanned.
Manual_Rescan_Required	Migration session has discovered hosts that need to be manually rescanned.
Initialized	Migration session transitions to this state when session initialization completes and no further rescans are required.
Synchronizing	Background copy is in progress.
Idle	Migration session transitions to this state when initial background copy completes.

Cutting_Over	Final phase of the migration, when ownership of the volume, vVol, or application group is transferred to the new appliance.
Deleting	Migration session is being deleted.
Completed	Migration session is complete and it is safe to delete the session.
Pausing	Migration session transitions to this state when the pause command is issued.
Paused	Migration session is paused. User intervention is required to resume the session.
System_Paused	Migration session transitions to this state if it encounters any error. User may resume or delete the migration session after resolving the error.
Resuming	Migration session background copy being resumed.
Failed	Migration session encountered an error.

Values was added in 3.0.0.0: Automatic_Rescan_In_Progress, Manual_Rescan_Required.

Type : enum (Initializing, Automatic_Rescan_In_Progress, Manual_Rescan_Required, Initialized, Synchronizing, Idle, Cutting_Over, Deleting, Completed, Pausing, Paused, System_Paused, Resuming, Failed)

MigrationStateEnum

Migration status of a volume. Valid values are:

Legacy	Volume state is normal.
Preparing	Volume is prepared for migration.
Disabled_For_IO	Volume is disabled for IO from host.
In_Progress	Volume migration is in progress.
Done	Volume is migrated.
Aborted	Volume migration is aborted

Not_Applicable	Volume migration state is not applicable when storage system supports only agentless import

Unknown	Volume migration state is unknown to PowerStore.

Type : enum (Legacy, Preparing, Disabled_For_IO, In_Progress, Done, Aborted, Not_Applicable, Unknown)

MonthOfYearEnum

Months of the year. Valid values are:

January	January

February	February

March	March

April	April

May	May

June	June

July	July

August	August

September	September

October	October

November	November

December	December

Unknown	Month of year is unknown to PowerStore.

Type : enum (January, February, March, April, May, June, July, August, September, October, November, December, Unknown)

NASAccessTypeEnum

NAS filesystem snapshot access method. Applies only to file system type snapshots taken locally (no

remote_system_id set). The setting is ignored for volume, virtual_volume, and volume_group snapshots. The possible values are:

Snapshot	Creates read-only auto mounted snapshots accessible from the hidden .snapshot subdirectory of the production file system.
Protocol	Creates read-only snapshots which can be mounted and accessed at a later time via NFS Export or SMB share.

Was added in version 3.0.0.0.

Type : enum (Snapshot, Protocol)

NASServerCurrentUnixDirectoryServiceEnum

Define the Unix directory service used for looking up identity information for Unix such as UIDs, GIDs, net groups, and so on. Values are:

- None
- NIS
- LDAP
- Local_Files
- Local_Then_NIS
- Local_Then_LDAP

Type : enum (None, NIS, LDAP, Local_Files, Local_Then_NIS, Local_Then_LDAP)

NASServerOperationalStatusEnum

NAS server operational status:

Stopped	NAS server is stopped.
Starting	NAS server is starting.
Started	NAS server is started.
Stopping	NAS server is stopping.
Failover	NAS server has failed over.
Degraded	NAS server is degraded (running without backup).
Unknown	NAS server state is unknown.

Type : enum (Stopped, Starting, Started, Stopping, Failover, Degraded, Unknown)

NFSExportDefaultAccessEnum

Default access level for all hosts that can access the Export.

No_Access	Deny access to the Export for the hosts.
Read_Only	Allow read only access to the Export for the hosts.
Read_Write	Allow read write access to the Export for the hosts.
Root	Allow read write access to the Export for the hosts. Allow access to the Export for root user.
Read_Only_Root	Allow read only root access to the Export for the hosts.

Type : enum (No_Access, Read_Only, Read_Write, Root, Read_Only_Root)

NFSExportMinSecurityEnum

NFS enforced security type for users accessing an NFS Export.

Sys	Allow the user to authenticate with any NFS security types: UNIX, Kerberos, Kerberos with integrity, or Kerberos with encryption.
Kerberos	Allow only Kerberos security for user authentication.
Kerberos_With_Integrity	Allow only Kerberos with integrity and Kerberos with encryption security for user authentication.
Kerberos_With_Encryption	Allow only Kerberos with encryption security for user authentication.

Type : enum (Sys, Kerberos, Kerberos_With_Integrity, Kerberos_With_Encryption)

NVMeDiscoveryModeEnum

The NVMe-oF specification defines a Discovery mechanism that a host can use to determine the NVMe subsystems that expose namespaces available to the host. A CDC is a Centralized Discovery Controller. A discovery controller reports discovery information from registered Direct Discovery controllers (DDC) and Hosts. CDC is one of the StFS services, located on the Fabric to which the NVMe Clients (NVMe Subsystems/DDCs and Hosts) are registered. A DDC is a Direct Discovery Controller, located on the Subsystem Port - Storage Interface. A Host may use CDC (if detected) or

DDC (if CDC is not detected) to determine the IO NVMe subsystem ports. This only applicable to networks that have NVMe_TCP among their purposes.

Auto_Discovery_CDC	Automatically discover the IP Address of the Centralized Discovery Controller (CDC) using mDNS/DNS-SD. If a CDC is found, the NVMe/TCP Interface will be registered with it.
Manual_CDC	the CDC IP address is manually set. If a CDC IP address is set, the NVMe/TCP Interface will be registered with it.
Advertise_DDC	Direct Discovery Controller IP address is advertised using mDNS/DNS-SD and can be discovered by external hosts.
Auto_Discovery_Disabled	mDNS/DNS-SD is disabled, no attempt will be made to discover CDC, no attempt will be made to register with CDC if one exists, nor will DDC IP address be advertised.

Was added in version 3.0.0.0.

Type : enum (Auto_Discovery_CDC, Manual_CDC, Advertise_DDC, Auto_Discovery_Disabled)

NetAppContainerStateEnum

The state of the volume and aggregate that contain the LUN. LUNs are only available when their containers are available.

Online	This means container is available.
Aggregate_Offline	Container is not available as Aggregate is offline means LUNs are also not available.
Volume_Offline	Container is not available as Volume is offline means LUNs are also not available.

Was added in version 3.0.0.0.

Type : enum (Online, Aggregate_Offline, Volume_Offline)

NetAppSVMStateEnum

State of NetApp storage SVM.

Starting	NetApp SVM is in starting state.
Running	NetApp SVM is in running state.

Stopping NetApp SVM is in stopping state.

Stopped NetApp SVM is in stopped state.

Deleting NetApp SVM is in deleting state.

Was added in version 3.0.0.0.

Type : enum (Starting, Running, Stopping, Stopped, Deleting)

NetAppScheduleTypeEnum

Indicates the scheduling for snapshot creation. Values are:

Cron Snapshots are created at specified time.

Interval Snapshots are created in constant time intervals.

Was added in version 3.0.0.0.

Type : enum (Cron, Interval)

NetAppVolumeStateEnum

The state of the LUN. Normal states for a LUN are online and offline. Other states indicate errors. Values are-

Online This means LUN is online for import.

Offline This means LUN is offline and cannot be imported.

Foreign_Lun_Error This means LUN is having some Foreign error.

Nvfail This means LUN is nvfail.

Space_Error This means LUN is having some space issue.

Was added in version 3.0.0.0.

Type : enum (Online, Offline, Foreign_Lun_Error, Nvfail, Space_Error)

NetworkPurposeEnum

Network purpose.

ISCSI	Network provides iSCSI connectivity to storage.
NVMe_TCP	Network provides NVME over Fabric connectivity to storage using TCP.
File_Mobility	Network provides NAS File Replication and Import control connection.
External_Replication	Network provides both iSCSI and iBasic replication connectivity.

Was added in version 2.0.0.0. Values was added in 2.1.0.0: NVMe_TCP. Values was added in 3.0.0.0: File_Mobility. Values was added in 4.0.0.0: External_Replication.

Type : enum (ISCSI, NVMe_TCP, File_Mobility, External_Replication)

NetworkTypeEnum

Network type.

Management	External cluster and appliance management.
Intra_Cluster_Management	Management within the cluster.
Intra_Cluster_Data	Data within the cluster.
Storage	External data transfer.
VMotion	Data movement controlled by VMotion.
File_Mobility	Network for NAS file replication and import control connection.

Values was added in 3.0.0.0: File_Mobility.

Type : enum (Management, Intra_Cluster_Management, Intra_Cluster_Data, Storage, VMotion, File_Mobility)

NodeAffinityEnum

This attribute shows which node will be advertised as the optimized IO path to the volume. It is initially set to System_Select_At_Attach and can be modified to other values. When a volume is first attached to a host, if node_affinity is System_Select_At_Attach then the system will make the assignment to either System_Selected_Node_A or System_Selected_Node_B. The node_affinity may be modified to one of System_Select_At_Attach or Preferred_Node_A or Preferred_Node_B. Both System_Selected_Node_A and System_Selected_Node_B are reserved for system use only and cannot be set as the volume's node_affinity.

Possible affinity for a volume.

System_Select_At_Attach	Volume currently has no node affinity, affinity will be assigned when the volume is first attached.
System_Selected_Node_A	System selected Node A as the optimized IO path to volume.
System_Selected_Node_B	System selected Node B as the optimized IO path to volume.
Preferred_Node_A	Node A will always advertise as the optimized IO path to volume.
Preferred_Node_B	Node B will always advertise as the optimized IO path to volume.

Type : enum (System_Select_At_Attach, System_Selected_Node_A, System_Selected_Node_B, Preferred_Node_A, Preferred_Node_B)

NtpAuthnHashAlgorithmEnum

Valid hash algorithm choices for symmetric key authentication.

MD5	MD5 hash algorithm.
SHA1	SHA1 hash algorithm.
SHA256	SHA256 hash algorithm.

Was added in version 4.1.0.0.

Type : enum (MD5, SHA1, SHA256)

NvmeCdcConnectionStateEnum

Current state of the Centralized Discovery Controller (CDC) connection to the Direct Discovery Controller (DDC).

Uninitialized	Sending mDNS queries to discover CDC.
Kickstarting	CDC was discovered (mDNS response was received or CDC was manually configured) and Kickstart Requests was sent towards CDC to initiate connectivity.
Pending	Kickstart messaging succeeded, pending to connectivity establishment from CDC.

Established CDC established connectivity with DDC.

Was added in version 3.0.0.0.

Type : enum (Uninitialized, Kickstarting, Pending, Established)

NvmeTransportTypeEnum

Transport type of the NVMe Initiator.

TCP NVMe/TCP

FC NVMe/Fibre Channel

Was added in version 2.1.0.0.

Type : enum (TCP, FC)

OSTypeEnum

Operating system of the host. Values are:

- Windows
- Linux
- ESXi
- AIX
- HP-UX
- Solaris

Type : enum (Windows, Linux, ESXi, AIX, HP-UX, Solaris)

PerformanceBottleneckEnum

Potential performance bottleneck components when performance headroom limit is reached. When performance headroom is 20% or less, HW components with saturation 70% or higher are potential performance bottlenecks. When performance headroom is greater than 20% performance bottlenecks are not reported. Performance bottleneck values are:

CPU CPU cores used by frontend and IO processing software

FE_Port Frontend port

Backend Backend device

Log_Media Persistent log media

Was added in version 4.1.0.0.

Type : enum (CPU, FE_Port, Backend, Log_Media)

PhysicalSwitchConnectMethodEnum

Physical switch connect method type. Valid values are:

SSH Secure shell.

SNMPv2c SNMPv2 community string.

Type : enum (SSH, SNMPv2c)

PhysicalSwitchPurposeEnum

Physical switch purpose in network. Possible purposes are:

Data_and_Management Physical switch for all data and management networks.

Management_Only Physical switch for management network only.

Type : enum (Data_and_Management, Management_Only)

PolicyManagedByEnum

Entity that owns and manages this instance. The possible values are:

User This instance is managed by the end user.

Metro This instance is managed by the peer system where the policy was assigned, in a Metro Cluster configuration.

Replication This destination instance is managed by the source system in a Replication configuration.

VMware_vSphere This instance is managed by the system through VMware vSphere/vCenter.

Was added in version 3.0.0.0.

Type : enum (User, Metro, Replication, VMware_vSphere)

PolicyTypeEnum

Supported policy types.

Protection	A protection policy for associating with volumes or volume groups, consisting of snapshot and replication rules.
Performance	A performance policy for associating with volumes, consisting of performance rules.
QoS	A performance policy for associating with volumes or volume groups, consisting of quality of service rules.
File_Performance	A performance policy for associating with nas servers or file systems, consisting of file_io_limit_rules.

Values was added in 4.0.0.0: QoS. Values was added in 4.1.0.0: File_Performance.

Type : enum (Protection, Performance, QoS, File_Performance)

PortStaleStateEnum

Stale state of the port. Current states are:

Not_Stale	Not stale.
Disconnected	The IO_Module hardware handling this port has a Disconnected lifecycle state and therefore is not updated.

Was added in version 2.0.0.0.

Type : enum (Not_Stale, Disconnected)

PostEventPolicyEnum

Fault tolerance level assigned for events in case of offline or unreachable file events publisher servers. Values describe the NAS Server's behavior when events cannot be processed by file events publisher servers (lost events):

Ignore	Continue server operation and tolerate lost events. If there is no CEPA server available return no error to the caller.
Accumulate	Use a persistence file as a circular event buffer and tolerate lost events. Continue server's operation even if the buffer is full.

- Guarantee** Use a persistence file as a circular event buffer and continue server's operation until the buffer is full. If the buffer is full deny access to files systems where Events Publishing is Enabled. Do not tolerate lost events.
- Deny** If there is no CEPA server available, deny access to files systems where Events Publishing is Enabled. Do not tolerate lost events.

Was added in version 3.0.0.0.

Type : enum (Ignore, Accumulate, Guarantee, Deny)

ProtocolTypeEnum

Available protocol types.

- TCP** Use the Transmission Control Protocol.
- UDP** Use the User Datagram Protocol.

Was added in version 2.0.0.0.

Type : enum (TCP, UDP)

RPOEnum

Recovery point objective (RPO), which is the acceptable amount of data, measured in units of time, that may be lost in case of a failure. When RPO is Zero, it implies synchronous replication. Values are:

- Five_Minutes
- Fifteen_Minutes
- Thirty_Minutes
- One_Hour
- Six_Hours
- Twelve_Hours
- One_Day
- Zero

Values was added in 4.0.0.0: Zero.

Type : enum (Five_Minutes, Fifteen_Minutes, Thirty_Minutes, One_Hour, Six_Hours, Twelve_Hours, One_Day, Zero)

RecycleBinResourceTypeEnum

Type of storage object.

volume	A volume type storage object.
volume_group	A volume_group type storage object.

Was added in version 3.5.0.0.

Type : enum (volume, volume_group)

RemoteProtectionCapabilityEnum

Possible remote protection capabilities:

Asynchronous_Block_Replication	Capable of asynchronous block replication.
Synchronous_Block_Replication	Capable of synchronous block replication.
Asynchronous_File_Replication	Capable of asynchronous file replication.
Asynchronous_Vvol_Replication	Capable of asynchronous vVol replication.
Block_Nondisruptive_Import	Capable of block import without any IO disruption which is seamless import. Remote system need to upgrade/support seamless import in order to support this capability.
Block_Agentless_Import	Capable of block import with minimal IO disruption and downtime. No upgrade of remote system or host agent need to be installed to support this capability.
File_Import	Capable of file import.
Block_Metro_Active_Active	Capable of block metro active active replication.
Remote_Backup	Capable of backing up snapshots to PowerProtect DD.
Synchronous_File_Replication	Capable of synchronous file replication.

Was added in version 3.0.0.0. Values was added in 3.5.0.0: Remote_Backup. Values was added in 4.0.0.0: Synchronous_File_Replication, Metro_Volume_Groups, Powerstore_Network_Groups, Metro_Scsi_Reservations. Values was added in 4.2.0.0: Metro_Scsi3PR_Support_For_ESXi.

Type : enum (Asynchronous_Block_Replication, Asynchronous_File_Replication, Asynchronous_Vvol_Replication, Block_Agentless_Import, Block_Metro_Active_Active, Block_Nondisruptive_Import, File_Import, Remote_Backup, Synchronous_Block_Replication, Synchronous_File_Replication)

RemoteSnapshotCreatorTypeEnum

Creator type of the remote snapshot:

PowerProtect_DD Remote snapshot created by PowerProtect DD.

Power_Store Remote snapshot created by PowerStore.

Was added in version 3.5.0.0.

Type : enum (PowerProtect_DD, Power_Store)

RemoteSnapshotResourceTypeEnum

Type of the remote snapshot resource:

volume Remote snapshot is volume type.

volume_group Remote snapshot is volume_group type.

Was added in version 3.5.0.0.

Type : enum (volume, volume_group)

RemoteSnapshotSessionStateEnum

State of the remote snapshot session:

Initializing The session is being created. The status changes to Idle after the session is created.

Idle No other operation. The session is operating normally.

Prepare Indicates that the session is preparing for the data copy.

In_Progress Indicates that the data copy between the source and remote system has started.

IO_Forwarding Indicates that the session is forwarding the host IO's. Only applies to instant_access type sessions.

Completed	Indicates that all operations completed successfully. Only applies to retrieve type sessions.
Failed	Indicates that there was an error during the session operation.
Cancelling	Session is being cancelled.
Cancelled	Indicates that a user forcefully cancelled the session. Sessions which are in Prepare, In_progress & Paused state can be cancelled.
Deleting	Session is being deleted.
System_Paused	A non-disruptive upgrade or Migration paused the session.
Paused	Indicates that the session cannot be used for further backups. Sessions which are in Idle, Prepare, In_progress and Failed state can be paused.
Rollback_In_Progress	Indicates that there was an error during the session operation and changes are getting reverted.
Failed_Cleanup_Required	Indicates that there was an error during the session operation and while reverting the changes there is another failure. This state will be cleaned up automatically by the cleanup service that runs periodically. Session will be moved to failed state once cleanup is successful. In case of a backup session, no further backup is allowed while the session is in this state.
Cancel_Cleanup_Required	Indicates that there was an error during the session cancel operation. This state will be cleaned up automatically by the cleanup service that runs periodically. Session will be moved to cancelled state once cleanup is successful. In case of a backup session, no further backup is allowed while the session is in this state.
Cleanup_Required	Indicates that operation has completely successfully but while cleaning the resources locally there was an error. This state will be cleaned up automatically by the cleanup service that runs periodically. Session will be moved to idle/completed state once the cleanup is successful. In case of a backup session, no further backup is allowed while the session is in this state.
Cleanup_In_Progress	Indicates that a cleanup is in progress.

Was added in version 3.5.0.0.

Type : enum (Initializing, Idle, Prepare, In_Progress, IO_Forwarding, Completed, Failed, Cancelling, Cancelled, Deleting, System_Paused, Paused, Rollback_In_Progress, Failed_Cleanup_Required, Cancel_Cleanup_Required, Cleanup_Required, Cleanup_In_Progress)

RemoteSnapshotSessionTypeEnum

Type of the remote snapshot session:

Backup	Remote snapshot session to backup the snapshot to remote.
Retrieve	Remote snapshot session to retrieve the snapshot from the remote.
Instant_Access	Provides instant access to remote backup snapshot through proxy volume/volume_group without bringing the remote copy on to the PoweStore.

Was added in version 3.5.0.0.

Type : enum (Backup, Retrieve, Instant_Access)

RemoteSnapshotStateEnum

State of the remote_snapshot:

Protected	Transfer of remote_snapshot to remote has completed.
Deleting	The remote_snapshot is being deleted.

Was added in version 3.5.0.0.

Type : enum (Protected, Deleting)

RemoteSupportApplianceConnectivityStatusEnum

The remote support connectivity status for this appliance.

Unavailable	Unable to determine status at this time
Not_Connected	Connectivity has been lost
Reconnecting	Connectivity is being reestablished
Evaluating	Connectivity has been established, evaluating connection status

Disabled	Remote Support is disabled
Good	Connectivity status is good
Fair	Connectivity status is fair
Poor	Connectivity status is poor. Communication may be delayed.

Was added in version 4.0.0.0.

Type : enum (Unavailable, Not_Connected, Reconnecting, Evaluating, Disabled, Good, Fair, Poor)

RemoteSupportTypeEnum

The type of remote support that is configured.

SRS_Gateway	SRS Gateway with Remote Access (alias for SRS_Gateway_Tier3)
SRS_Gateway_Tier2	SRS Gateway without Remote Access
SRS_Gateway_Tier3	SRS Gateway with Remote Access
SRS_Integrated_Tier2	SRS Integrated SRS without Remote Access
SRS_Integrated_Tier3	SRS Integrated SRS with Remote Access
Disabled	SRS is Disabled

Was added in version 4.0.0.0. Values was deprecated in 4.2.0.0: SRS_Gateway.

Type : enum (SRS_Gateway, SRS_Gateway_Tier2, SRS_Gateway_Tier3, SRS_Integrated_Tier2, SRS_Integrated_Tier3, Disabled)

RemoteSyslogServerStatusEnum

The status of the remote syslog server.

Connected	The system can be connected to.
Not_Connected	The system cannot be connected to.

Was added in version 2.0.0.0.

Type : enum (Connected, Not_Connected)

RemoteSystemChapModeEnum

Challenge Handshake Authentication Protocol (CHAP) status:

- Disabled

Single Enabled for initiator authentication.

Mutual Enabled for initiator and target authentication.

Type : enum (Disabled, Single, Mutual)

RemoteSystemFileConnectionStateEnum

file connection states for remote system

OK Normal conditions.

Update_Needed Verify and update needed to handle network configuration changes on the systems.

Not_OK File connection to the remote peer is lost.

Status_Unknown File Connection status is unknown at the moment.

Was added in version 3.0.0.0.

Type : enum (OK, Update_Needed, Not_OK, Status_Unknown)

RemoteSystemLatencyEnum

Network latency choices for a remote system. Replication traffic can be tuned for higher efficiency depending on the expected network latency. This will only be used when the remote system type is PowerStore and data connection type is TCP.

Low Less than 5 milliseconds.

Low_Medium Latency is greater than 5 milliseconds and less than or equal to 20 milliseconds.

Medium Latency is greater than 20 milliseconds and less than or equal to 60 milliseconds.

Medium_High Latency is greater than 60 milliseconds and less than or equal to 120 milliseconds.

High More than 120 milliseconds.

All the above values are valid for TCP type data connections. Only Low and High are valid for iSCSI type data connections. In sync replication for Powerstore, if the remote system network latency is changed from Low to Other latency values, Sync replication is not supported for File and Block.

Values was added in 3.0.0.0: Low_Medium, Medium, Medium_High.

Type : enum (Low, Low_Medium, Medium, Medium_High, High)

RemoteSystemStateEnum

Possible remote system states:

OK Normal conditions.

Update_Needed Verify and update needed to handle network configuration changes on the systems.

Management_Connection_Lost Management connection to the remote peer is lost.

Partial_Delete Remote System is partially deleted. Either the data connections from the PowerStore to remote system is not destroyed completely or the file capability of remote system has been deleted but the block deletion has failed.

Values was added in 3.0.0.0: Partial_Delete.

Type : enum (OK, Update_Needed, Management_Connection_Lost, Partial_Delete)

RemoteSystemTypeEnum

Remote system connection type between the local system and the following remote systems:

PowerStore PowerStore system

Unity Unity import system

VNX VNX import system

PS_Equallogic PS EqualLogic import system

Storage_Center Storage Center import system

XtremIO	XtremIO import system
NetApp	NetApp import system
PowerMax_VMAX	PowerMax or VMAX import system
PowerProtect_DD	PowerProtect DD
Universal	Universal

Values was added in 3.0.0.0: NetApp, PowerMax_VMAX. Values was added in 3.5.0.0: PowerProtect_DD. Values was added in 4.0.0.0: Universal.

Type : enum (PowerStore, Unity, VNX, PS_Equallogic, Storage_Center, XtremIO, NetApp, PowerProtect_DD, PowerMax_VMAX, Universal)

ReplicatedResourceTypeEnum

Storage resource types eligible for replication protection:

volume	Replication session created on a volume.
volume_group	Replication session created on a volume group.
replication_group	Replication session created on a replication group.
nas_server	Replication session created on a NAS server.
file_system	Replication session created on a File system.

Values was added in 3.0.0.0: replication_group, nas_server. Values was added in 3.6.0.0: file_system.

Type : enum (file_system, nas_server, replication_group, volume, volume_group)

ReplicationResourceStateEnum

State of the replication local resource:

System_Defined	State as defined by system based on local role, type and state of replication session. Applies to all replication session types.
Promoted	Metro local resource was promoted by user.
Demoted	Metro local resource was demoted by user.

System_Demoted	Metro local resource was demoted by system from self-healing workflow.
System_Promoted	Metro local resource was promoted by system from fracture workflow based on witness interaction.

Was added in version 3.0.0.0. Values was added in 3.6.0.0: System_Promoted.

Type : enum (System_Defined, Promoted, Demoted, System_Demoted, System_Promoted)

ReplicationRoleEnum

Role of the replication session:

Source	The local resource is the source of the remote replication session.
Destination	The local resource is the destination of the remote replication session.
Metro_Preferred	The local resource is designated preferred side of the metro type replication session.
Metro_Non_Preferred	The local resource is designated non-preferred side of the metro type replication session.

Values was added in 3.0.0.0: Metro_Preferred, Metro_Non_Preferred.

Type : enum (Destination, Metro_Non_Preferred, Metro_Preferred, Source)

ReplicationSessionTypeEnum

Type of the replication session:

Asynchronous	Data is copied asynchronously to the destination resource.
Metro_Active_Active	Data is copied synchronously in both directions. Both local and remote resource are available for production IO.
Synchronous	Data is copied synchronously to destination resource.

Was added in version 3.0.0.0. Values was added in 4.0.0.0: Synchronous.

Type : enum (Asynchronous, Metro_Active_Active, Synchronous)

ReplicationSessionWitnessStateEnum

Witness state of replication session:

Initializing	Witness is being initialized, but not engaged.
Disengaged	Witness is initialized, but not engaged.
Engaged	Witness is engaged.
Remote_Witness_Invalid_Or_Unavailable	Disengaged due to incorrect or unreachable witness on remote cluster.
Failed_To_Initialize	Failed to initialize witness with metro session.
Unconfigure_In_Progress	Witness being unconfigured for session.

Was added in version 3.6.0.0.

Type : enum (Initializing, Disengaged, Engaged, Remote_Witness_Invalid_Or_Unavailable, Failed_To_Initialize, Unconfigure_In_Progress)

ReplicationStateEnum

State of the replication session:

Initializing	The replication session is being created. The status changes to OK after the replication session is created.
OK	No other operation. The replication session is operating normally.
Synchronizing	The replication session has started either a manual or automatic synchronization.
System_Paused	Replication session operation has failed or was cancelled and moved to this state by the system. User intervention required.
Paused	User paused the replication session.
Paused_For_Migration	Migration paused the replication session.
Paused_For_NDU	A non-disruptive upgrade paused the replication session.

Pausing	The replication session is pausing operation. The replication state would change to Paused after the pause operation is completed.
Resuming	The replication session is resuming operation. Once resume completes the state would be based on what activity was in-progress when it was paused.
Modify_Role_In_Progress	Replication session's role is being modified.
Failing_Over	A planned failover is in progress. The status changes to Failed_Over after the replication session has failed over.
Failing_Over_For_DR	An unplanned failover is in progress. The status changes to Failed_Over after the replication session has failed over.
Failed_Over	The replication session underwent a planned or unplanned failover. User intervention required.
Reprotecting	The replication session is being reprotected. The status changes to OK after the replication session has been reprotected.
Switching_To_Metro_Sync	Replication session transition to Metro sync mode in-progress.
Fractured	Metro replication session is fractured due to a fault. Session is degraded and is available for production IO from preferred site settings.
Deleting	Replication session is being deleted.
Partial_OK	Replication session state for a NAS server replication, when one or more File Systems are not replicating to the destination.
Partial_Paused	Replication session state for a NAS server replication, when some, but not all of the File System replication sessions are in Paused state.
Partial_Failed_Over	Replication session state for a NAS server replication, when some, but not all of the File System replication sessions are in Failed_Over state.
Partial_Reprotected	Replication session state for a NAS server replication, when some, but not all of the File System replication sessions are re-protected successfully after a fail over.

Error	Any other failure not specified.
Switching_To_Synchronous	Replication session transition to Synchronous mode in-progress.
Partial_Failed_Back	Replication session state for a NAS server replication, when some, but not all of the File System replication sessions are Failed_Back successfully after a failover.

Values was added in 3.0.0.0: Switching_To_Metro_Sync, Modify_Role_In_Progress, Fractured, Deleting, Pausing, Partial_OK, Partial_Paused, Partial_Failed_Over, Partial_Reprotected, Error. Values was added in 4.0.0.0: Partial_Failed_Back, Switching_To_Synchronous.

Type : enum (Deleting, Error, Failed_Over, Failing_Over, Failing_Over_For_DR, Fractured, Initializing, Modify_Role_In_Progress, OK, Partial_Failed_Back, Partial_Failed_Over, Partial_OK, Partial_Paused, Partial_Reprotected, Paused, Paused_For_Migration, Paused_For_NDU, Pausing, Reprotecting, Resuming, Switching_To_Metro_Sync, Switching_To_Synchronous, Synchronizing, System_Paused)

ResourceActionEnum

User-specified action to be performed on the given resource. Values was added in 2.0.0.0: start_failover_test, stop_failover_test. Values was added in 3.0.0.0: add_or_replace, bulk_disable_mirror, bulk_enable_mirror, switch_mode_to_sync, create_nas_volume_session.

Type : enum (add_members, add_or_replace, add_privileged_account, apply_internal_host_licenses, attach, attach_volzs, bind, build_test_configuration_url, bulk_disable_mirror, bulk_enable_mirror, bulk_run, cancel, cancel_download, check_connectivity, check_snapshots_peer_metadata, cleanup, clone, configure_metro, create, create_migration_sessions, create_nas_volume_session, cutover, decommission, delete, demote, destination_objects_sync, detach, discover, discover_fc_targets, discover_foreign_remote_snapshots, download, drive_failure_tolerance_level_availability, empty, enable, end_metro, estimate_appliance_free_space, exchange, expire_recovery_snapshots, extend_trial, failover, file_create_helper, file_delete_helper, forecast, fracture, generate, generate_temp_credentials, get_acl, get_bond_runtime_information, get_ca_server_cert, get_configuration_info, get_history, get_l2_information, get_metro_tpg_mesh, get_privileged_accounts, get_replicated_nas_server, get_viruschecker_audit_info, import_snapshot_policy, import_snapshot_profiles, import_snapshot_schedules, install, join, modify, modify_volume_state, mount, object_sync, pause, ping, promote, puhc, query_appliances, query_available_powerstore_networks, query_destinations_details, query_details, query_target, query_volzs, recover, rediscover, refresh, refresh_quota, regenerate, remove_members, remove_privileged_account, replace, report, reprotect, reset_certificates, restore, restore_pstx_config, resume, retrieve, scale, scaling_modify, scan_status, set_acl, set_storage_mode, snapshot, start_failover_test, start_migration_sessions, start_scan, stop_failover_test, stop_scan, switch_mode_to_metro_sync, switch_mode_to_sync, sync, sync_node_affinity, sync_snapshot, sync_time, syncup_metadata, system_pause, test, time_to_full, try_lock, unjoin, unmount, update_dts, update_properties, update_remote_storage_object, update_software, update_user_mappings, upgrade, upload, upload_certificate, upload_config, upload_keytab,

validate_create, validate_expand, validate_limits, validate_power_down, validate_upgrade, vcenter_certificate_retrieve_factory_mode, vcenter_discover, verify, verify_local, version)

ResourceTypeEnum

Resource Type for the given resource.

Type : enum (alert, anomalies, appliance, audit_event, bond, cert_role_mapping, chap_config, cluster, datastore, discovered_appliance, discovered_initiator, dns, email_notify_destination, eth_be_port, eth_port, event, fast_metrics_config, fc_port, file_dhsm_config, file_dns, file_events_pool, file_events_publisher, file_ftp, file_import_interface, file_import_nas_server, file_import_session, file_interface, file_interface_route, file_io_limit_rule, file_kerberos, file_ldap, file_ndmp, file_nis, file_system, file_tree_quota, file_user_quota, file_virus_checker, fsn, hardware, host, host_group, host_virtual_volume_mapping, host_volume_mapping, import_host_initiator, import_host_system, import_host_volume, import_netapp, import_netapp_volume, import_psgroup, import_psgroup_volume, import_session, import_storage_center, import_storage_center_consistency_group, import_storage_center_volume, import_unity, import_unity_consistency_group, import_unity_volume, import_universal_consistency_group, import_vmax, import_vmax_storage_group, import_vmax_volume, import_vnx_array, import_vnx_consistency_group, import_vnx_volume, initiator, io_limit_rule, ip_pool_address, ip_port, job, keystore_archive, kmip_config, ldap_account, ldap_domain, license, local_user, login_banner, login_session, maintenance_window, metrics, metrics_archive, metro_session, mfa_cacpiv, mfa_securid, migration_recommendation, migration_session, nas_server, ndu, network, nfs_export, nfs_server, node, ntp, ntp_server, nvme_discovered_cdc, oidc_service, performance_rule, physical_switch, policy, recycle_bin, recycle_bin_config, remote_syslog_server, remote_system, replication_rule, replication_session, role, sas_port, scheduler, security_config, service_config, service_user, smb_server, smb_share, smtp_config, snapshot_rule, software_installed, software_package, sso_claim_role_mapping, sso_metadata, storage_container, storage_container_destination, vcenter, veth_port, virtual_machine, virtual_volume, volume, volume_group, vsphere_host, vsphere_host_license_assignment, witness, x509_certificate)

SCStatusEnum

Status of an SC array. Valid values are:

Up	Volume state is up.
Down	Volume state is down.
Degraded	Volume is in degraded state.
Unknown	Volume migration state is unknown to PowerStore.

Type : enum (Up, Down, Degraded, Unknown)

SMBShareAccessLevelEnum

Share access level choices:

Read	Allows only read rights.
Change	Allows read, write, and delete rights.
Full	Allows read, write, delete, and change ownership rights.

Was added in version 3.5.0.0.

Type : enum (Read, Change, Full)

SMBShareAccessTypeEnum

Defines valid states of access type:

Allow	Allows the access level given by the trustee.
Deny	Denies the access level given by the trustee.

Was added in version 3.5.0.0.

Type : enum (Allow, Deny)

SMBShareOfflineAvailabilityEnum

Defines valid states of Offline Availability,

Manual	Only specified files will be available offline.
Documents	All files that users open will be available offline.
Programs	Program will preferably run from the offline cache even when connected to the network. All files that users open will be available offline.
None	Prevents clients from storing documents and programs in offline cache (default).

Type : enum (Manual, Documents, Programs, None)

SMBShareTrusteeTypeEnum

Trustee type choices:

User	User name. Format is domain\username for domain user or netbiosName\username for local user.
Group	Group name. Format is domain\groupname for domain group or netbiosName\groupname for local group.
SID	Security Identifier (SID) such as S-1-5-21-843271493-548684746-1849754324-32.
WellKnown	Well known sid such as Everyone. Note: SIDs are in Microsoft format (decimal)

Was added in version 3.5.0.0.

Type : enum (User, Group, SID, WellKnown)

SNMPAuthProtocolEnum

Relevant only for SNMPv3. Supported SNMP authentication protocols:

None	No authorization.
MD5	The AuthMD5 class implements the MD5 authentication protocol.
SHA256	The HMAC192SHA256AuthProtocol class implements the Secure Hash Authentication

Was added in version 2.0.0.0.

Type : enum (None, MD5, SHA256)

SNMPPrivacyProtocolEnum

Relevant only for SNMPv3. Supported SNMP privacy protocol:

None	No encryption on the wire.
AES256	Encryption class for AES 256.
TDES	Privacy protocol class for Triple DES (DESEDE).

Was added in version 2.0.0.0.

Type : enum (None, AES256, TDES)

SNMPSeverityEnum

Possible severities. Values are:

- Info
- Minor
- Major
- Critical

Was added in version 2.0.0.0.

Type : enum (Info, Minor, Major, Critical)

SNMPVersionEnum

Supported SNMP protocol versions:

V2c SNMP version 2c

V3 SNMP version 3

Was added in version 2.0.0.0.

Type : enum (V2c, V3)

SasPortSpeedEnum

SAS port transmission speed.

3_Gbps 3 Gigabits per second

6_Gbps 6 Gigabits per second

12_Gbps 12 Gigabits per second

Type : enum (3_Gbps, 6_Gbps, 12_Gbps)

ScScheduleTypeEnum

Available SC snapshot schedule types. Valid values are:

Once Take snapshot only once.

Daily Take snapshot hourly.

- Weekly** Take snapshot on a weekly basis.
- Monthly** Take snapshot on a monthly basis.
- Unknown** SC schedule type is unknown to PowerStore.

Type : enum (Once, Daily, Weekly, Monthly, Unknown)

ScSnapshotProfileTypeEnum

Available SC snapshot profile types. Valid values are:

- Standard** Takes snapshots in series for all volumes associated with the snapshot.
- Parallel** Takes snapshots simultaneously for all volumes associated with the snapshot.
- Consistent** Halts IO and takes snapshots for all volumes associated with the snapshot.
- Unknown** SC snapshot profile type is unknown to PowerStore.

Type : enum (Standard, Parallel, Consistent, Unknown)

SecurityProtocolModeEnum

TLS protocol mode.

- TLSv1_2** TLS 1.2 and higher are enabled.

Was added in version 2.0.0.0.

Type : enum (TLSv1_2)

SensitivityEnum

Available sensitivity multiplier options. This reduces or increases the number of anomalies that are detected by applying a multiplier to the Standard Deviation range considered normal. This will change the upper and lower values of the historical seasonal range.

- Low** Reduces the number of anomalies detected.
- Medium** Default sensitivity for the number of anomalies detected.
- High** Increases the number of anomalies detected.

Was added in version 4.2.0.0.

Type : enum (Low, Medium, High)

ServiceActionResourceTypeEnum

Service actions can be applied to the entire cluster, a single appliance within a cluster or a single node within an appliance.

cluster	Apply this action to the entire cluster.
appliance	Apply this action to a single appliance.
node	Apply this action to a single node.

Was added in version 4.2.0.0.

Type : enum (appliance, cluster, node)

ServiceActionTypeEnum

Available service actions. Valid actions are

Reboot	reboot a node.
Power_Down	power down a node, appliance, or cluster according to the resource_type and resource_id specified.

Was added in version 4.2.0.0.

Type : enum (Reboot, Power_Down)

SeverityEnum

Possible severities. Values are:

- None
- Info
- Minor
- Major
- Critical

Type : enum (None, Info, Minor, Major, Critical)

SnapRuleIntervalEnum

Interval between snapshots taken by a snapshot rule. Values are:

- Five_Minutes
- Fifteen_Minutes
- Thirty_Minutes
- One_Hour
- Two_Hours
- Three_Hours
- Four_Hours
- Six_Hours
- Eight_Hours
- Twelve_Hours
- One_Day

Type : enum (Five_Minutes, Fifteen_Minutes, Thirty_Minutes, One_Hour, Two_Hours, Three_Hours, Four_Hours, Six_Hours, Eight_Hours, Twelve_Hours, One_Day)

SoftwareInstalledBuildFlavorEnum

A specific config, determined at build time. Valid values are:

Retail An optimized compiler option.

Was added in version 2.0.0.0.

Type : enum (Retail)

SoftwareInstalledBuildTypeEnum

Type of the build. Valid values are:

Hotfix A build containing 1 or more specific fixes. Generally limited in availability to a few customers.

Beta Pre-production build, used for evaluation purposes.

Release A build for General Availability (GA).

Was added in version 2.0.0.0.

Type : enum (Beta, Hotfix, Release)

SoftwarePackageBuildFlavorEnum

A specific config, determined at build time. Valid values are:

Retail An optimized compiler option.

Was added in version 2.0.0.0.

Type : enum (Retail)

SoftwarePackageBuildTypeEnum

Type of the build. Valid values are:

Hotfix A build containing 1 or more specific fixes. Generally limited in availability to a few customers.

Beta Pre-production build, used for evaluation purposes.

Release A build for General Availability (GA).

Was added in version 2.0.0.0.

Type : enum (Beta, Hotfix, Release)

SoftwarePackageClassificationChoiceEnum

Choices for automatic download. If 'Target' is selected, automatic download will only download Software_Release packages marked as 'Target'. Valid values are:

Latest The most recently provided package of this type.

Target Software package has been designated as target code. Target code has had extensive run time and is known to be stable.

Was added in version 4.0.0.0.

Type : enum (Latest, Target)

SoftwarePackageStateEnum

Software package state. Valid values are:

Available The package is ready to be downloaded.

Downloaded The package is downloaded and ready to install.

Installing The package is being installed.

Installed	The package has been successfully installed.
Install_Failed	Installing the package failed.
Download_Failed	Downloading the package failed.
Download_Canceled	Downloading the package was canceled.
Downloading	The package is being downloaded.

Values was added in 4.0.0.0: Download_Canceled, Downloading.

Type : enum (Available, Downloaded, Installing, Installed, Install_Failed, Download_Failed, Download_Canceled, Downloading)

SoftwarePackageTypeEnum

Software package type. Valid values are:

Software_Release	A package containing a complete system software upgrade release.
Disk_Firmware	A package containing disk firmware updates only, for some or all supported drive types.
Hotfix	A package containing high-priority updates.
Language_Pack	A package containing additional language definitions.
Health_Check	A package containing updated Health Checks.
Pre_Upgrade_HCI	A package containing a pre-upgrade software for HCI system.
Analytics	A package containing an analytics script update.
Rx_Definitions	A package containing an Rx Definitions update. • STIG

Values was added in 2.0.0.0: Pre_Upgrade_HCI. Values was added in 2.1.0.0: Health_Check. Values was added in 3.0.0.0: Analytics, STIG. Values was added in 4.0.0.0: Rx_Definitions. Values was deprecated in 4.0.0.0: STIG. Values was deprecated in 4.2.0.0: Rx_Definitions, Analytics, Pre_Upgrade_HCI.

Type : enum (Software_Release, Disk_Firmware, Hotfix, Language_Pack, Health_Check, Pre_Upgrade_HCI, Analytics, STIG, Rx_Definitions)

StandardizedSSOClaimsEnum

Standardized SSO claim names on local system (rely party).

User_Name	Username claim
Display_User_Name	Display username claim. This is used only for display and audit of the username, and if not specified, the User_Name claim is used for username display.
Groups_A	A groups claim
Groups_B	B groups claim
Groups_C	C groups claim

Was added in version 4.2.0.0.

Type : enum (User_Name, Display_User_Name, Groups_A, Groups_B, Groups_C)

StorageContainerStorageProtocolEnum

The type of Storage Container.

SCSI	A storage container is dedicated to SCSI usage.
NVMe	A storage container is dedicated to NVMe usage.

Was added in version 3.0.0.0.

Type : enum (SCSI, NVMe)

StorageCreatorTypeEnum

Creator type of the storage resource.

User	A resource created by a user.
System	A resource created by the replication engine.
Scheduler	A resource created by the snapshot scheduler.
External	A resource created by an external entity.

Values was added in 3.5.0.0: External.

Type : enum (User, System, Scheduler, External)

StorageElementTypeEnum

Storage element type being replicated:

volume	Replicating storage element type for a volume.
virtual_volume	Replicating storage element type for a virtual volume.
file_system	Replicating storage element type for a file system.

Values was added in 3.5.0.0: file_system.

Type : enum (volume, virtual_volume, file_system)

SupportedCodeChallengeMethodsEnum

Code challenge method supported by local system for IDP:

SHA256	SHA256 Encoded

Was added in version 4.2.0.0.

Type : enum (SHA256)

SupportedGrantTypesEnum

Grant type supported on local system for IDP:

Authorization_Code	Authorization code grant
Device_Authorization	Device authorization grant

Was added in version 4.2.0.0.

Type : enum (Authorization_Code, Device_Authorization)

SupportedIdTokenSigningAlgValuesEnum

Id Token signing algorithm value supported by local system for IDP:

RS256	RS256
RS384	RS384

Was added in version 4.2.0.0.

Type : enum (RS256, RS384, RS512)

SupportedImportTypeEnum

Supported import types for the source storage system. Values are:

Agentless	The source array supports only agentless import.
Non_Disruptive_And_Agentless	The source array supports both nondisruptive and agentless import.
Not_Supported	The source array does not support import.

Was added in version 1.0.2.

Type : enum (Agentless, Non_Disruptive_And_Agentless, Not_Supported)

SupportedIntrospectionEndpointAuthMethodsEnum

Introspection endpoint authentication method supported by local system for IDP:

Client_Secret_Basic	Client secret basic authentication method

Was added in version 4.2.0.0.

Type : enum (Client_Secret_Basic)

SupportedRevocationEndpointAuthMethodsEnum

Revocation endpoint authentication method supported by local system for IDP:

Client_Secret_Basic	Client secret basic authentication method

Was added in version 4.2.0.0.

Type : enum (Client_Secret_Basic)

SupportedSubjectTypesEnum

Subject types supported by local system for IDP:

Pairwise Pairwise subject type

Public Public subject type

Was added in version 4.2.0.0.

Type : enum (Pairwise, Public)

SupportedTokenEndpointAuthMethodsEnum

Id Token endpoint authentication method supported by local system for IDP:

Client_Secret_Basic Client secret basic authentication method

Was added in version 4.2.0.0.

Type : enum (Client_Secret_Basic)

ThumbprintAlgorithmEnum

The thumbprint algorithm:

SHA-256 SHA-256 algorithm

Type : enum (SHA-256)

TimeZoneEnum

Time zone identifier for applying the time zone to the time_of_day for a snapshot rule, including any DST effects if applicable. Applies only when a time_of_day is specified in the snapshot rule. Defaults to UTC if not specified. Values are:

- Etc__GMT_plus_12
- US__Samoa
- Etc__GMT_plus_11
- America__Atka
- US__Hawaii
- Etc__GMT_plus_10
- Pacific__Marquesas
- US__Alaska
- Pacific__Gambier
- Etc__GMT_plus_9

- PST8PDT
- Pacific__Pitcairn
- US__Pacific
- Etc__GMT_plus_8
- Mexico__BajaSur
- America__Boise
- America__Phoenix
- MST7MDT
- Etc__GMT_plus_7
- CST6CDT
- America__Chicago
- Canada__Saskatchewan
- America__Bahia_Banderas
- Etc__GMT_plus_6
- Chile__EasterIsland
- America__Bogota
- America__New_York
- EST5EDT
- America__Havana
- Etc__GMT_plus_5
- America__Caracas
- America__Cuiaba
- America__Santo_Domingo
- Canada__Atlantic
- America__Asuncion
- Etc__GMT_plus_4
- Canada__Newfoundland
- Chile__Continental
- Brazil__East
- America__Godthab
- America__Miquelon
- America__Buenos_Aires
- Etc__GMT_plus_3
- America__Noronha
- Etc__GMT_plus_2

- America__Scoresbysund
- Atlantic__Cape_Verde
- Etc__GMT_plus_1
- UTC
- Europe__London
- Africa__Casablanca
- Atlantic__Reykjavik
- Antarctica__Troll
- Europe__Paris
- Europe__Sarajevo
- Europe__Belgrade
- Europe__Rome
- Africa__Tunis
- Etc__GMT_minus_1
- Asia__Gaza
- Europe__Bucharest
- Europe__Helsinki
- Asia__Beirut
- Africa__Harare
- Asia__Damascus
- Asia__Amman
- Europe__Tiraspol
- Asia__Jerusalem
- Etc__GMT_minus_2
- Asia__Baghdad
- Africa__Asmera
- Etc__GMT_minus_3
- Asia__Tehran
- Asia__Baku
- Etc__GMT_minus_4
- Asia__Kabul
- Asia__Karachi
- Etc__GMT_minus_5
- Asia__Kolkata
- Asia__Katmandu

- Asia__Almaty
- Etc__GMT_minus_6
- Asia__Rangoon
- Asia__Hovd
- Asia__Bangkok
- Etc__GMT_minus_7
- Asia__Hong_Kong
- Asia__Brunei
- Asia__Singapore
- Etc__GMT_minus_8
- Asia__Pyongyang
- Australia__Eucla
- Asia__Seoul
- Etc__GMT_minus_9
- Australia__Darwin
- Australia__Adelaide
- Australia__Sydney
- Australia__Brisbane
- Asia__Magadan
- Etc__GMT_minus_10
- Australia__Lord_Howe
- Etc__GMT_minus_11
- Asia__Kamchatka
- Pacific__Fiji
- Antarctica__South_Pole
- Etc__GMT_minus_12
- Pacific__Chatham
- Pacific__Tongatapu
- Pacific__Apia
- Etc__GMT_minus_13
- Pacific__Kiritimati
- Etc__GMT_minus_14

Was added in version 2.0.0.0.

Type : enum (EtcGMT_plus_12, USSamoa, EtcGMT_plus_11, AmericaAtka, USHawaii,

EtcGMT_plus_10, PacificMarquesas, USAlaska, PacificGambier, EtcGMT_plus_9, PST8PDT, PacificPitcairn, USPacific, EtcGMT_plus_8, MexicoBajaSur, AmericaBoise, AmericaPhoenix, MST7MDT, EtcGMT_plus_7, CST6CDT, AmericaChicago, CanadaSaskatchewan, AmericaBahia_Banderas, EtcGMT_plus_6, ChileEasterIsland, AmericaBogota, AmericaNew_York, EST5EDT, AmericaHavana, EtcGMT_plus_5, AmericaCaracas, AmericaCuiaba, AmericaSanto_Domingo, CanadaAtlantic, AmericaAsuncion, EtcGMT_plus_4, CanadaNewfoundland, ChileContinental, BrazilEast, AmericaGodthab, AmericaMiquelon, AmericaBuenos_Aires, EtcGMT_plus_3, AmericaNoronha, EtcGMT_plus_2, AmericaScoresbysund, AtlanticCape_Verde, EtcGMT_plus_1, UTC, EuropeLondon, AfricaCasablanca, AtlanticReykjavik, AntarcticaTroll, EuropeParis, EuropeSarajevo, EuropeBelgrade, EuropeRome, AfricaTunis, EtcGMT_minus_1, AsiaGaza, EuropeBucharest, EuropeHelsinki, AsiaBeirut, AfricaHarare, AsiaDamascus, AsiaAmman, EuropeTiraspol, AsiaJerusalem, EtcGMT_minus_2, AsiaBaghdad, AfricaAsmera, EtcGMT_minus_3, AsiaTehran, AsiaBaku, EtcGMT_minus_4, AsiaKabul, AsiaKarachi, EtcGMT_minus_5, AsiaKolkata, AsiaKatmandu, AsiaAlmaty, EtcGMT_minus_6, AsiaRangoon, AsiaHovd, AsiaBangkok, EtcGMT_minus_7, AsiaHong_Kong, AsiaBrunei, AsiaSingapore, EtcGMT_minus_8, AsiaPyongyang, AustraliaEucla, AsiaSeoul, EtcGMT_minus_9, AustraliaDarwin, AustraliaAdelaide, AustraliaSydney, AustraliaBrisbane, AsiaMagadan, EtcGMT_minus_10, AustraliaLord_Howe, EtcGMT_minus_11, AsiaKamchatka, PacificFiji, AntarcticaSouth_Pole, EtcGMT_minus_12, PacificChatham, PacificTongatapu, PacificApia, EtcGMT_minus_13, PacificKiritimati, Etc_GMT_minus_14)

TransitConnectionStatusEnum

Possible transit connection statuses:

Login_Success	Login to target successful.
Authentication_Failure	Failed to authenticate the connection.
Connection_Refused	Connection was refused.
Login_Timeout	Login to target timed out.
Network_Error	Network error
General_Failure	Other failure not listed.
Login_Success_No_Ports	Login successful after discovery failure. Used only for PS EqualLogic systems.
Discovery_Success	Discovery of target IP successful.
Discovery_Authentication_Failure	Authentication failure during discovery of target.
Discovery_Connection_Refused	Connection was refused during discovery of target.

Discovery_Timeout	Discovery of target timed out.
Operation_Timeout	Operations on the connection timed out. Used only for PowerProtect DD systems.

Values was added in 3.5.0.0: Operation_Timeout.

Type : enum (Login_Success, Authentication_Failure, Connection_Refused, Login_Timeout, Network_Error, General_Failure, Login_Success_No_Ports, Discovery_Success, Discovery_Authentication_Failure, Discovery_Connection_Refused, Discovery_Timeout, Operation_Timeout)

UnityDayOfWeekEnum

Days of the week. Values are:

Sunday	Sunday.
Monday	Monday.
Tuesday	Tuesday.
Wednesday	Wednesday.
Thursday	Thursday.
Friday	Friday.
Saturday	Saturday.
Unknown	The day of week cannot be determined.

Type : enum (Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Unknown)

UnityHealthEnum

Health status of the Unity storage system. Values are:

Unknown	The status of the system cannot be determined.
Ok	The system is operating normally.
Ok_But	The system is operating normally but there are potential issues.

Degraded	The system is working, but performance may not be optimum.
Minor	The system is working, but it has experienced one or more minor failures.
Major	The system is failing; some or all of its functions may be degraded or not working. This condition has a significant impact on the system and should be remedied immediately.
Critical	The system has failed and recovery may not be possible. This condition should be remedied immediately.
Non_Recoverable	The system has failed and recovery may not be possible. This condition should be remedied immediately.

Type : enum (Unknown, Ok, Ok_But, Degraded, Minor, Major, Critical, Non_Recoverable)

UnityScheduleTypeEnum

Snapshot schedule types. Values are:

N_Hours_At_MM	Create a snapshot every {interval} hours, at {minutes} past the hour. Supported parameters: interval (required), minutes (optional, default 0).
Day_At_HHMM	Specify a list of {hour[,...]} when to create a snapshot each day at {minutes} past the hour. Supported parameters: hours (at least one required), minutes (optional).
N_Days_At_HHMM	Create a snapshot every {interval} days at the time {hours}:{minutes}. Supported Parameters: interval (required), hours (optional, exactly one), minutes (optional).
SelDays_At_HHMM	Create a snapshot on the selected {daysOfWeek}, at the time {hours}:{minutes}. Supported parameters: daysOfWeek (at least one required), hours (optional, default 0), minutes (optional, default 0)
Nth_Day_Of_Month_AT_HHMM	Create a snapshot on the selected {daysOfMonth}, at the time {hours}:{minutes}. Supported parameters: daysOfMonth (at least one required), hours (optional, default 0), minutes (optional, default 0).
Unsupported	Unsupported.

Unknown

Schedule type is unknown to PowerStore.

Type : enum (N_Hours_At_MM, Day_At_HHMM, N_Days_At_HHMM, SelDays_At_HHMM, Nth_Day_Of_Month_AT_HHMM, Unsupported, Unknown)

UnityScheduleVersionEnum

Type of snapshot schedule. Values are:

Legacy	Legacy schedule with more than two rules of type HoursList, DaysInterval or MonthDaysList.
Simple	Simple schedule with two rules or less of rule type HoursInterval or WeekDaysList.
Unknown	Schedule type cannot be determined.

Type : enum (Legacy, Simple, Unknown)

UnityVolumeMigrationStateEnum

Migration state of the Unity volume. Values are:

Normal	The volume is not migrated.
Prepare_For_Migration	The volume is ready for migration.
Source_Disabled_For_IO	Host I/O is disabled on the volume.
Source_Migration_In_Progress	Volume migration is in progress.
Source_Migration_Completed	The volume is migrated.
Source_Migration_Aborted	Volume migration is cancelled.
Unknown	The volume migration state is unknown to PowerStore.

Type : enum (Normal, Prepare_For_Migration, Source_Disabled_For_IO, Source_Migration_Aborted, Source_Migration_Completed, Source_Migration_In_Progress, Unknown)

UnityVolumeTypeEnum

Type of the Unity volume. Values are:

Unknown	Volume type cannot be determined.
Generic_Storage	A volume that is associated with a consistency group.
Standalone	A volume that is not associated with a consistency group.
Vmware_iSCSI	A volume associated with a VMware VMFS datastore.

Type : enum (Unknown, Generic_Storage, Standalone, Vmware_iSCSI)

VGPlacementRule

This is set during creation, and determines resource balancer recommendations.

Same_Appliance	All the members of the group should be on the same appliance in the cluster.
No_Preference	The volumes can be placed on any of the appliances in the cluster.

Was deprecated in version 2.0.0.0. Filtering on the fields of this embedded resource is not supported.

Type : enum (Same_Appliance, No_Preference)

VendorProviderStatusEnum

General status of the VASA vendor provider in vCenter.

Not_Registered	The provider is not registered with vCenter.
Offline	vCenter cannot connect with the provider.
Online	vCenter is communicating with the provider.
Unavailable	VASA provider status can't be determined due to lost connection to vCenter.

Was added in version 2.0.0.0. Values was added in 3.5.0.0: Unavailable.

Type : enum (Not_Registered, Offline, Online, Unavailable)

VirtualMachinePowerStateEnum

The current power state of the VM in vCenter. Not applicable to VM snapshots.

Powered_Off VM is currently powered off.

Powered_On VM is currently powered on.

Suspended VM is currently suspended.

Was added in version 3.0.0.0.

Type : enum (Powered_Off, Powered_On, Suspended)

VirtualMachineStatusEnum

General health status of the VM in vCenter. Not applicable to VM snapshots.

Green VM is operating normally.

Yellow VM is operating normally, but there are potential issues.

Red VM is experiencing issues and is not operating normally.

Gray Status of the VM cannot be determined.

Type : enum (Green, Yellow, Red, Gray)

VirtualMachineTypeEnum

Type of VM:

Primary A base VM.

Template A VM template.

Snapshot A snapshot of a VM.

Type : enum (Primary, Template, Snapshot)

VirtualVolumeTypeEnum

The logical type of a virtual volume. Values are:

- Primary
- Snapshot
- Prepared_Snapshot
- Clone

- Fast_Clone

Type : enum (Primary, Snapshot, Prepared_Snapshot, Clone, Fast_Clone)

VirtualVolumeUsageTypeEnum

VMware's usage of the vVol. Values are:

- Config
- Data
- Swap
- Memory
- Other

Type : enum (Config, Data, Swap, Memory, Other)

VmaxVolumeStateEnum

The state of the volume. Normal states for a volume is Ready. Other states indicate errors. Values are:

Ready	This means volume is ready for import.
Not_Ready	This means volume is not ready and cannot be imported.
Write_Disabled	This means volume is write disable and cannot be imported.
Mixed	This means volume state is mixed and cannot be imported.
Not_Applicable	This means volume state not applicable and cannot be imported.

Was added in version 3.0.0.0.

Type : enum (Ready, Not_Ready, Write_Disabled, Mixed, Not_Applicable)

VnxVolumeMigrationStateEnum

Migration state of the VNX volume. Values are:

None	The volume is not migrated.
Prepared	The volume is ready for migration.
Disabled_For_IO	Host I/O is disabled on the volume.

In_Progress	Volume migration is in progress.
Completed	The volume is migrated.
Aborted	Volume migration is cancelled.
Not_Applicable	Volume migration state is not applicable if the system only supports agentless import.
Unknown	The volume migration state cannot be determined.

Type : enum (None, Prepared, Disabled_For_IO, In_Progress, Completed, Aborted, Not_Applicable, Unknown)

VnxVolumeStateEnum

State of the VNX volume. Only volumes that are in the Ready or Default state can be imported. If a volume is in any other state, the underlying cause of the state must be corrected with the VNX management software, and the VNX volume details must be refreshed using the refresh action to import the volume. Values are:

Invalid	The volume is in an invalid state.
Initializing	The volume is initializing.
Ready	The volume is ready. This is the healthy state of a storage pool based volume.
Faulted	The volume is faulted.
Offline	The volume is offline.
Destroying	The volume is being destroyed.
Default	The volume is ready. This is the healthy state of a RAID group based volume.

Type : enum (Invalid, Initializing, Ready, Faulted, Offline, Destroying, Default)

VolumeBlockSizeEnum

Block size of the volume. Valid values are:

512_Bytes	512 byte block size.
4K_Bytes	4096 byte block size.

Unknown Block size cannot be determined.

Type : enum (512_Bytes, 4K_Bytes, Unknown)

VolumeImportableCriteriaEnum

Volume import criteria. Values are:

Ready	The volume is ready for nondisruptive import.
Ready_For_Agentless_Import	The volume is ready for agentless import.
In_Progress	Import is in progress.
Host_Not_Added	The host or hosts accessing the volume have not been added to the appliance.
Imported	Import is complete.
Incompatible_Firmware	The software version on the source array is not compatible.
Incompatible_Host_Agent	The agent version on the host is not compatible.
Undetermined	The import status cannot be determined due to an internal error. Contact technical support.
Host_Volume_Offline	The host volume is offline.
Cluster_Node_Count_MisMatch	The host or hosts added to the appliance are not part of the host cluster to which the volume is mapped.
Undetermined_Cluster_Type	The system cannot determine the host cluster type.
Source_Volume_Offline	The source volume is offline.
Replication_Destination	The volume is a replication destination.
SC_Live_Volume	The volume is a Storage Center Live Volume.
SC_Degraded	The volume is not available or is in a degraded state.

SC_Not_Active	The Storage Center volume is not an active volume.
Used_By_NAS	The volume is in use by NAS.
SC_Portable_Volume	The Storage Center volume is a destination of a portable volume.
VNX_Faulted	The VNX volume is in a faulted state.
VNX_Not_Ready	The VNX volume is not in a ready state.
VNX_Internal_Volume	The VNX volume is an internal volume.
Unity_System_Health_Inappropriate	The health of the Unity system is not suitable for import.
Unity_Volume_Health_Inappropriate	The health of the Unity volume is not suitable for import.
XtremIO_Severity_Inappropriate	The severity level of the XtremIO system is not suitable for import.
XtremIO_State_Inappropriate	The state of the XtremIO system is not suitable for import.
XtremIO_Volume_Severity_Inappropriate	The severity level XtremIO volume is not suitable for import.
XtremIO_Volume_State_Inappropriate	The state of the XtremIO volume is not suitable for import.
NetApp_System_State_Inappropriate	NetApp system state is not suitable for import.
NetApp_Volume_State_Inappropriate	NetApp volume state is not suitable for import.
Volume_Size_Not_Multiple_of_8192	Volume size is not multiple of 8192.
Unsupported_Protocol	Import is not supported for RemoteSystem with backend protocol as FC and FrontEnd as iSCSI.
Vmax_Volume_State_Inappropriate	VMAX volume state is not suitable for import.

Values was added in 1.0.2: Ready_For_Agentless_Import, XtremIO_Severity_Inappropriate, XtremIO_State_Inappropriate, XtremIO_Volume_Severity_Inappropriate,

XtremIO_Volume_State_Inappropriate. Values was added in 3.0.0.0:
NetApp_System_State_Inappropriate, NetApp_Volume_State_Inappropriate,
Volume_Size_Not_Multiple_of_8192, Unsupported_Protocol, Vmax_Volume_State_Inappropriate.

Type : enum (Ready, Ready_For_Agentless_Import, In_Progress, Host_Not_Added, Imported, Incompatible_Firmware, Incompatible_Host_Agent, Undetermined, Host_Volume_Offline, Cluster_Node_Count_Mismatch, Undetermined_Cluster_Type, Source_Volume_Offline, Replication_Destination, SC_Live_Volume, SC_Degraded, SC_Not_Active, Used_By_NAS, SC_Portable_Volume, VNX_Faulted, VNX_Not_Ready, VNX_Internal_Volume, Unity_System_Health_Inappropriate, Unity_Volume_Health_Inappropriate, XtremIO_Severity_Inappropriate, XtremIO_State_Inappropriate, XtremIO_Volume_Severity_Inappropriate, XtremIO_Volume_State_Inappropriate, NetApp_System_State_Inappropriate, NetApp_Volume_State_Inappropriate, Volume_Size_Not_Multiple_of_8192, Unsupported_Protocol, Vmax_Volume_State_Inappropriate)

VolumeStateEnum

Volume life cycle states.

- Ready** Volume is operating normally.
- Initializing** Volume is starting but not yet ready for use.
- Offline** Volume is not available.
- Destroying** Volume is being deleted. No new operations are allowed.

Type : enum (Ready, Initializing, Offline, Destroying)

VolumeStatusEnum

Status of the import host volume. Valid values are:

- Unknown** Volume status is unknown.
- Online** Volume is online.
- Offline** Volume is offline.

Type : enum (Unknown, Online, Offline)

VolumeTypeEnum

Type of volume.

Primary	A base object.
Clone	A read-write object that shares storage with the object from which it is sourced.
Snapshot	A read-only object created from a volume or clone.
Proxy	A proxy object that is used for remote snapshot access.

Values was added in 3.5.0.0: Proxy.

Type : enum (Primary, Clone, Snapshot, Proxy)

WeekOfMonthEnum

Weeks of the month. Valid values are:

First	First week of the month
Second	Second week of the month
Third	Third week of the month
Fourth	Fourth week of the month
Last	Last week of the month
Unknown	Week of month is unknown to PowerStore.

Type : enum (First, Second, Third, Fourth, Last, Unknown)

WitnessConnectionStateEnum

Possible witness connection states:

OK	Normal conditions. The node can communicate with the witness.
Disconnected	Complete connection loss. The node cannot communicate with the witness.
Initializing	The node's connection to the witness is initializing.

Was added in version 3.6.0.0.

Type : enum (OK, Disconnected, Initializing)

WitnessStateEnum

Possible witness states:

OK	Normal conditions. All nodes on all appliances can communicate with the witness.
Partially_Connected	Some nodes on some appliances can communicate with the witness.
Disconnected	All nodes on all appliances cannot communicate with the witness.
Deleting	The witness is currently being unregistered and deleted from the cluster.
Initializing	All nodes on all appliances are initializing their connection to the witness.

Was added in version 3.6.0.0.

Type : enum (OK, Partially_Connected, Disconnected, Deleting, Initializing)

X509CertificateServiceEnum

Type of the service for which the certificate is used:

Management_HTTP	Management Web server
Replication_HTTP	Remote Replication service
Witness_HTTP	Metro Witness service
VASA_HTTP	VASA provider service
Import_HTTP	Import service
KMIP_HTTP	External KMIP service
CACPIV_HTTP	CACPIV service
OIDC_TLS	OIDC service
SMTP_TLS	SMTP Service
VIM_HTTP	VM adaptor service

SecurID_HTTP	RSA SecurID service
LDAP_HTTP	LDAP service
Syslog_HTTP	Remote syslog service
Remote_Backup_HTTP	Remote Backup Service

Values was added in 1.0.3: LDAP_HTTP, Syslog_HTTP. Values was added in 3.0.0.0: KMIP_HTTP. Values was added in 3.5.0.0: VIM_HTTP, SecurID_HTTP, Witness_HTTP. Values was added in 4.0.0.0: Remote_Backup_HTTP. Values was added in 4.1.0.0: CACPIV_HTTP. Values was added in 4.2.0.0: OIDC_TLS, SMTP_TLS.

Type : enum (CACPIV_HTTP, Import_HTTP, KMIP_HTTP, LDAP_HTTP, Management_HTTP, OIDC_TLS, Remote_Backup_HTTP, Replication_HTTP, SMTP_TLS, SecurID_HTTP, Syslog_HTTP, VASA_HTTP, VIM_HTTP, Witness_HTTP)

X509CertificateUsageTypeEnum

Usage of the certificate and the valid values are:

Server	Server Certificate
Client	Client Certificate
CA_Client_Validation	A CA certificate used to authenticate clients during an SSL handshake.
CA_Server_Validation	A CA certificate used to verify the server during an SSL handshake.

Type : enum (Server, Client, CA_Client_Validation, CA_Server_Validation)

XtremIOCertaintyEnum

Indicates confidence that the XMS (XtremIO Management System) and the XtremIO storage system are synchronized.

Ok	There is certainty that the XMS is synchronized.
Add_Pending	XMS is uncertain whether an add request was executed on XtremIO storage system.
Modify_Pending	XMS is uncertain whether a modify request was executed on XtremIO storage system.

Remove_Pending	XMS is uncertain whether a remove request was executed on XtremIO storage system.
Unknown	The certainty is unknown to PowerStore.

Was added in version 1.0.2.

Type : enum (Ok, Add_Pending, Modify_Pending, Remove_Pending, Unknown)

XtremIODurationUnitEnum

Duration unit. Values are:

Minutes	Duration in minutes.
Hours	Duration in hours.
Days	Duration in days.
Unknown	Duration unit is unknown to PowerStore.

Was added in version 1.0.2.

Type : enum (Minutes, Hours, Days, Unknown)

XtremIOObjectSeverityEnum

Severity level of current alerts for this entity and its contained objects. Values are:

Clear	No alerts exist for this entity or contained/members.
Information	The highest severity for this entity and all contained/members is Information.
Minor	The highest severity for this entity and all contained/members is Minor.
Major	The highest severity for this entity and all contained/members is Major.
Critical	The highest severity for this entity and all contained/members is Critical.
Unknown	The severity is unknown to PowerStore

Was added in version 1.0.2.

Type : enum (Clear, Information, Minor, Major, Critical, Unknown)

XtremIOPlatformEnum

XtremIO hardware platform. Values are:

X1 X1 hardware platform.

X2 X2 hardware platform.

Was added in version 1.0.2.

Type : enum (X1, X2)

XtremIOScheduleStateEnum

Indicates whether the Schedule is currently enabled or disabled, by the user. Values are:

Enabled Schedule is enabled.

Disabled Schedule is disabled.

Unknown Schedule state is unknown to PowerStore.

Was added in version 1.0.2.

Type : enum (Enabled, Disabled, Unknown)

XtremIOScheduleTypeEnum

Indicates the scheduling for snapshot creation. Values are:

Explicit Snapshots are created at specified time.

Interval Snapshots are created in constant time intervals.

Unknown Schedule type is unknown to PowerStore.

Was added in version 1.0.2.

Type : enum (Explicit, Interval, Unknown)

XtremIOStateEnum

State of XtremIO storage system.

Active XtremIO system is in active state.

Start	XtremIO system is in start state.
Configured	XtremIO system is configured but not yet active.
Initializing	XtremIO system is initializing.
Stopping	XtremIO system is executing a stop command.
Stopped	XtremIO system is in stopped state.
Starting	XtremeIO system is starting.
Failed	XtremIO system is in failed state.
Down	XtremIO system is down.
Stop_Failed	Stop command failed on the XtremIO system.
Attempting_To_Start	XtremIO is in attempting to start sate.
Unknown	XtremIO state is unknown to PowerStore.

Was added in version 1.0.2.

Type : enum (Active, Start, Configured, Initializing, Stopping, Stopped, Starting, Failed, Down, Stop_Failed, Attempting_To_Start, Unknown)

active_session_instance

Properties of an active session.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance containing the session.	string
bond_id <i>optional</i>	Unique identifier of the bond the initiator is logged into. Null if one of the following is non-null: veth_id, eth_port_id or fc_port_id.	string
eth_port_id <i>optional</i>	Unique identifier of the Ethernet port the initiator is logged into. Null if one of the following is non-null: bond_id, veth_id or fc_port_id.	string

Name	Description	Schema
fc_port_id <i>optional</i>	Unique identifier of the FC port the initiator is logged into. Null if one of the following is non-null: bond_id, veth_id or eth_port_id	string
node_id <i>optional</i>	Unique identifier of node on the appliance on which active session is created.	string
nvme_transport_addresses <i>optional</i>	List of addresses of the NVMe/NVMe-vVol initiator. These can either be the IPs of the endpoints for NVMe over TCP, or they can be the WWNs if using NVMe over FC. It may be that the same NQN will be applied to multiple WWNs or IP addresses, since NQNs are unique per host sub-system, and not unique per port. This field is null for FC(SCSI) and iSCSI initiators. Was added in version 3.0.0.0.	< string > array
nvme_transport_type <i>optional</i>	Was added in version 3.0.0.0.	NvmeTransportType Enum
nvme_transport_type_l10n <i>optional</i>	Localized message string corresponding to nvme_transport_type Was added in version 3.0.0.0.	string
port_name <i>optional</i>	IQN or WWN of the target port that the initiator is logged into.	string
veth_id <i>optional</i>	Unique identifier of the virtual Ethernet port the initiator is logged into. Null if one of the following is non-null: bond, eth_port_id or fc_port_id.	string

alert_instance

An alert is a summation of one or more events that need (or needed) attention. Some events require attention and result in an alert being generated. Other events can update or clear an alert when the system detects a change in the condition that needs attention. To deal with an alert, look at the information about the most recent event included in the alert. In particular, examine the resource that the alert was generated about (using resource_type and resource_id or resource_name) as well as the system_impact_l10n and suggested_repair_flow_l10n parameters.

Name	Description	Schema
acknowledged_timestamp <i>optional</i>	Timestamp when the alert was acknowledged, if any.	string (date-time)
called_home_timestamp <i>optional</i>	Timestamp when the event resulted in a notification to support (via Secured Remote Services), if any.	string (date-time)
cleared_timestamp <i>optional</i>	Timestamp of the event that cleared this alert.	string (date-time)
description_11 On <i>optional</i>	Latest event's description text for this alert.	string
email_sent_timestamp <i>optional</i>	Timestamp when the email was sent for the raised alert, if any.	string (date-time)
event_code <i>optional</i>	The event code of the latest event for this alert.	string
events <i>optional</i>	List of events associated with this alert. Filtering on the fields of this embedded resource is not supported.	< event_instance > array
generated_timestamp <i>optional</i>	Timestamp of the latest event for this alert.	string (date-time)
id <i>optional</i>	Unique identifier of the alert.	string
is_acknowledged <i>optional</i>	Whether an alert has been acknowledged.	boolean
raised_timestamp <i>optional</i>	Timestamp of the first event for this alert.	string (date-time)
resource_id <i>optional</i>	Unique identifier of the resource instance which generated this alert.	string

Name	Description	Schema
resource_name <i>optional</i>	Name of the resource instance which generated this alert. This property supports case-insensitive filtering.	string
resource_type <i>optional</i>	Type of the resource instance which generated this alert.	ResourceTypeEnum
resource_type_l10n <i>optional</i>	Localized message string corresponding to resource_type	string
severity <i>optional</i>	Severity of the latest event for this alert.	SeverityEnum
severity_l10n <i>optional</i>	Localized message string corresponding to severity	string
snmp_sent_timestamp <i>optional</i>	Timestamp when the SNMP trap was sent for the raised alert, if any. Was added in version 2.0.0.0.	string (date-time)
state <i>optional</i>		AlertStateEnum
state_l10n <i>optional</i>	Localized message string corresponding to state	string

alert_modify

Alert modify request body.

Name	Description	Schema
acknowledged_severity <i>optional</i>		SeverityEnum
is_acknowledged <i>required</i>	Indicates whether the alert has been acknowledged.	boolean

anomalies_create

Was added in version 4.2.0.0.

Name	Description	Schema
appliance_id <i>required</i>	Unique id of the appliance. name:{name} can be used instead of {id}. For example: 'appliance_id': 'name:appliance_name'	string
metric_type <i>required</i>		AnomaliesMetricTypeEnum
sensitivity <i>optional</i>		SensitivityEnum
type <i>required</i>		AnomaliesTypeEnum

anomalies_in_host_io

Response for anomalies response. Was added in version 4.2.0.0.

Polymorphism : Inheritance

Discriminator : type

Name	Description	Schema
io_bandwidth_high_value <i>optional</i>	Estimate of the upper bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
io_bandwidth_low_value <i>optional</i>	Estimate of the lower bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
io_bandwidth_value <i>optional</i>	Actual I/O bandwidth value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
io_latency_high_value <i>optional</i>	Estimate of the upper bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
io_latency_low_value <i>optional</i>	Estimate of the lower bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
io_latency_value <i>optional</i>	Actual I/O latency value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
io_size_high_value <i>optional</i>	Estimate of the upper bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
io_size_low_value <i>optional</i>	Estimate of the lower bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
io_size_value <i>optional</i>	Actual I/O size value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
is_io_bandwidth_anomaly <i>optional</i>	Whether I/O bandwidth value is an anomaly.	boolean
is_io_latency_anomaly <i>optional</i>	Whether I/O latency value is an anomaly.	boolean
is_io_size_anomaly <i>optional</i>	Whether I/O size value is an anomaly.	boolean
is_read_iops_anomaly <i>optional</i>	Whether read IOPS value is an anomaly.	boolean
is_total_iops_anomaly <i>optional</i>	Whether total IOPS value is an anomaly.	boolean

Name	Description	Schema
is_write_iops_anomaly <i>optional</i>	Whether write IOPS value is an anomaly.	boolean
read_iops_high_value <i>optional</i>	Estimate of the upper bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
read_iops_low_value <i>optional</i>	Estimate of the lower bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
read_iops_value <i>optional</i>	Actual read IOPS value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
timestamp <i>optional</i>	Timestamp of this anomaly instance.	string (date-time)
total_iops_high_value <i>optional</i>	Estimate of the upper bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
total_iops_low_value <i>optional</i>	Estimate of the lower bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
total_iops_value <i>optional</i>	Actual total IOPS value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
type <i>required</i>		AnomaliesTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type Was added in version 4.2.0.0.	string

Name	Description	Schema
write_iops_high_value <i>optional</i>	Estimate of the upper bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_iops_low_value <i>optional</i>	Estimate of the lower bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_iops_value <i>optional</i>	Actual write IOPS value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

anomalies_in_host_io_data_instance

Was added in version 4.2.0.0.

Name	Description	Schema
io_bandwidth_high_value <i>optional</i>	Estimate of the upper bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
io_bandwidth_low_value <i>optional</i>	Estimate of the lower bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
io_bandwidth_value <i>optional</i>	Actual I/O bandwidth value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
io_latency_high_value <i>optional</i>	Estimate of the upper bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
io_latency_low_value <i>optional</i>	Estimate of the lower bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
io_latency_value <i>optional</i>	Actual I/O latency value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
io_size_high_value <i>optional</i>	Estimate of the upper bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
io_size_low_value <i>optional</i>	Estimate of the lower bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
io_size_value <i>optional</i>	Actual I/O size value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
is_io_bandwidth_anomaly <i>optional</i>	Whether I/O bandwidth value is an anomaly.	boolean
is_io_latency_anomaly <i>optional</i>	Whether I/O latency value is an anomaly.	boolean
is_io_size_anomaly <i>optional</i>	Whether I/O size value is an anomaly.	boolean
is_read_iops_anomaly <i>optional</i>	Whether read IOPS value is an anomaly.	boolean
is_total_iops_anomaly <i>optional</i>	Whether total IOPS value is an anomaly.	boolean
is_write_iops_anomaly <i>optional</i>	Whether write IOPS value is an anomaly.	boolean

Name	Description	Schema
read_iops_high_value <i>optional</i>	Estimate of the upper bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
read_iops_low_value <i>optional</i>	Estimate of the lower bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
read_iops_value <i>optional</i>	Actual read IOPS value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
timestamp <i>optional</i>	Timestamp of this anomaly instance.	string (date-time)
total_iops_high_value <i>optional</i>	Estimate of the upper bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
total_iops_low_value <i>optional</i>	Estimate of the lower bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
total_iops_value <i>optional</i>	Actual total IOPS value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_iops_high_value <i>optional</i>	Estimate of the upper bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_iops_low_value <i>optional</i>	Estimate of the lower bound value of historical seasonal range. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_iops_value <i>optional</i>	Actual write IOPS value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

anomalies_instance

Information about an anomaly series report. Was added in version 4.2.0.0.

Name	Description	Schema
appliance_id <i>optional</i>	Unique id of the appliance.	string
data <i>optional</i>	Anomaly data per timestamp. This is only returned from instance query, not from the collection query. Filtering on the fields of this embedded resource is not supported.	< base_anomalies_data_instance > array
id <i>optional</i>	Unique identifier of the anomalies instance.	string
io_bandwidth_iops_anomalies_count <i>optional</i>	Total number of anomalies found from the analysis. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
io_latency_iops_anomalies_count <i>optional</i>	Total number of anomalies found from the analysis. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
io_size_iops_anomalies_count <i>optional</i>	Total number of anomalies found from the analysis. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
metric_type <i>optional</i>		AnomaliesMetricTypeEnum
metric_type_10n <i>optional</i>	Localized message string corresponding to metric_type Was added in version 4.2.0.0.	string
read_iops_anomalies_count <i>optional</i>	Total number of anomalies found from the analysis. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
sensitivity <i>optional</i>		SensitivityEnum

Name	Description	Schema
sensitivity_l10n <i>optional</i>	Localized message string corresponding to sensitivity Was added in version 4.2.0.0.	string
status <i>optional</i>		AnomaliesStatusEnum
status_l10n <i>optional</i>	Localized message string corresponding to status Was added in version 4.2.0.0.	string
total_iops_anomalies_count <i>optional</i>	Total number of anomalies found from the analysis. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
type <i>optional</i>		AnomaliesTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type Was added in version 4.2.0.0.	string
write_iops_anomalies_count <i>optional</i>	Total number of anomalies found from the analysis. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

appliance_create

Parameters for the appliance create (add) operation. Was added in version 2.0.0.0.

Name	Description	Schema
drive_failure_tolerance_level <i>optional</i>		DriveFailureToleranceLevelEnum
ignore_network_warnings <i>optional</i>	Set to true to ignore warnings about unreachable external network services discovered while adding an appliance. This can be useful for configuring a system before delivery into the intended deployment environment. The default is false, and these warnings will cause add appliance to fail. Default : false Example : true	boolean

Name	Description	Schema
link_local_address <i>required</i>	The link local address is a dynamically set local IPv4 address. It is unique to this appliance and is set by Zeroconf. Use the PowerStore Discovery Tool to get the link local address. Example : "10.244.24.195"	string (ip-address)
name <i>optional</i>	The name of the new appliance. By default, the name is the cluster name followed by "-appliance-" and a unique number. The maximum size is 64 characters. Length : 1 - 64 Example : "MyCluster-appliance-2"	string

appliance_create_error_response

Error response for create operation. Contains a list of localized messages and validation issues accompanied by the suggested resolution.

Was added in version 2.0.0.0.

Name	Schema
issues <i>optional</i>	< validate_create_issue > array
messages <i>optional</i>	< error_message > array

appliance_delete

Appliance resource delete operation request body. Was added in version 2.0.0.0.

Type : object

appliance_forecast

Name	Schema
metric_type <i>required</i>	ForecastMetricTypeEnum

appliance_forecast_response

Response for appliance capacity or performance forecast. Response will be just an array of one of

the child of this definition.

Name	Description	Schema
high_value <i>optional</i>	Estimate for the upper bound forecasted value on that particular time. Was deprecated in version 3.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
low_value <i>optional</i>	Estimate for the lower bound forecasted value on that particular time. Was deprecated in version 3.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
mean_value <i>optional</i>	Estimate for the mean forecasted value on that particular time. Was deprecated in version 3.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
metric_type <i>required</i>	Localized message string corresponding to metric_type. Was added in version 3.0.0.0.	string
timestamp <i>optional</i>	Date-time of the forecast data. Was deprecated in version 3.0.0.0.	string (date-time)

appliance_instance

Properties of an appliance. This resource type has queriable associations from node, ip_pool_address, fsn, veth_port, virtual_volume, maintenance_window, fc_port, sas_port, eth_port, eth_be_port, software_installed, hardware, volume

Name	Description	Schema
drive_failure_tolerance_level <i>optional</i>	Was added in version 2.0.0.0.	DriveFailureToleranceLevelEnum
drive_failure_tolerance_level_l10n <i>optional</i>	Localized message string corresponding to drive_failure_tolerance_level Was added in version 2.0.0.0.	string
eth_be_ports <i>optional</i>	This is the inverse of the resource type eth_be_port association.	< eth_be_port_instance > array

Name	Description	Schema
eth_ports <i>optional</i>	This is the inverse of the resource type eth_port association.	< eth_port_instance > array
express_service_code <i>optional</i>	Express Service Code.	string
fc_ports <i>optional</i>	This is the inverse of the resource type fc_port association.	< fc_port_instance > array
fsns <i>optional</i>	This is the inverse of the resource type fsn association.	< fsn_instance > array
hardware <i>optional</i>	This is the inverse of the resource type hardware association.	< hardware_instance > array
id <i>optional</i>	Unique identifier of the appliance.	string
ip_pool_addresses <i>optional</i>	This is the inverse of the resource type ip_pool_address association.	< ip_pool_address_instance > array
is_hyper_converged <i>optional</i>	Is this a HyperConverged Appliance Was added in version 3.2.0.0.	boolean
maintenance_windows <i>optional</i>	This is the inverse of the resource type maintenance_window association.	< maintenance_window_instance > array
mode <i>optional</i>	Was added in version 4.0.0.0.	ApplianceModeEnum
mode_l10n <i>optional</i>	Localized message string corresponding to mode Was added in version 4.0.0.0.	string
model <i>optional</i>	Model of the appliance.	string
name <i>optional</i>	Name of the appliance. This property supports case-insensitive filtering.	string

Name	Description	Schema
node_count <i>optional</i>	The number of nodes deployed on an appliance. Was added in version 3.0.0.0. Default : 2 Minimum value : 0 Maximum value : 2147483647	integer (int32)
nodes <i>optional</i>	This is the inverse of the resource type node association.	< node_instance > array
sas_ports <i>optional</i>	This is the inverse of the resource type sas_port association.	< sas_port_instance > array
service_tag <i>optional</i>	Dell Service Tag.	string
software_installed <i>optional</i>	This is the inverse of the resource type software_installed association.	< software_installed_instance > array
storage_class <i>optional</i>	Was added in version 4.0.0.0.	ApplianceStorageClassEnum
storage_class_l10n <i>optional</i>	Localized message string corresponding to storage_class Was added in version 4.0.0.0.	string
veth_ports <i>optional</i>	This is the inverse of the resource type veth_port association.	< veth_port_instance > array
virtual_volumes <i>optional</i>	This is the inverse of the resource type virtual_volume association.	< virtual_volume_instance > array
volumes <i>optional</i>	This is the inverse of the resource type volume association.	< volume_instance > array

appliance_modify

Appliance resource modify operation request body.

Name	Description	Schema
name <i>required</i>	New name of the appliance. Length : 1 - 64 Example : "New appliance name"	string

appliance_time_to_full

Name	Schema
metric_type <i>required</i>	ForecastMetricTypeEnum

appliance_time_to_full_response

Name	Description	Schema
appliance_id <i>optional</i>	Unique ID of appliance.	string
end_of_forecast <i>optional</i>	Timestamp of the end of the capacity forecast. If time to full estimates are null, the relevant forecast does not reach full capacity before it ends. In this case the end of the forecast can be used as a minimum for time to full.	string (date-time)
time_to_full <i>optional</i>	Estimated date-time at which the forecast value will reach full capacity.	string (date-time)
time_to_full_optimistic <i>optional</i>	Optimistic date-time for time to full based on the lower bound of the forecast 95% confidence interval.	string (date-time)
time_to_full_pessimistic <i>optional</i>	Pessimistic date-time for time to full based on the upper bound of the forecast 95% confidence interval.	string (date-time)
time_to_full_status <i>optional</i>		ForecastTimeToFullStatusEnum
time_to_full_status_l10n <i>optional</i>	Localized message string corresponding to time_to_full_status	string

appliance_validate_create

Parameters for the appliance create (add) operation, used only for validation of the request in this validate_create request. Was added in version 2.0.0.0.

Name	Description	Schema
drive_failure_tolerance_level <i>optional</i>		DriveFailureToleranceLevelEnum
ignore_network_warnings <i>optional</i>	Set to true to ignore warnings about unreachable external network services discovered while adding an appliance. This can be useful for configuring a system before delivery into the intended deployment environment. The default is false, and these warnings will cause add appliance to fail. Default : <code>false</code> Example : <code>true</code>	boolean
link_local_address <i>required</i>	The link local address is a dynamically set local IP address. It is unique to this appliance and is set by Zeroconf. Use the PowerStore Discovery Tool to get the link local address. Example : <code>"10.244.24.195"</code>	string (ip-address)
name <i>optional</i>	The name of the new appliance. By default, the name is the cluster name followed by "-appliance-" and a unique number. The maximum size is 64 characters. Length : <code>1 - 64</code> Example : <code>"MyCluster-appliance-2"</code>	string

appliance_validate_create_response

Response for an appliance validate create request. It returns configuration warnings and errors detected during validation and the suggested resolutions.

Was added in version 2.0.0.0.

Name	Schema
issues <i>optional</i>	< validate_create_issue > array

audit_event_instance

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance where the event occurred.	string
client_address <i>optional</i>	FQDN/IP Address of the client from where the event was initiated. Example : "10.10.10.10"	string (ip-address)
id <i>optional</i>	Unique identifier of the audit log entry. Example : "1"	string
is_successful <i>optional</i>	Whether the event was successful or not.	boolean
job_id <i>optional</i>	Unique identifier of the job associated with the audit event (if any).	string
message_arguments <i>optional</i>	Arguments (if applicable) for the audit_event message.	< string > array
message_code <i>optional</i>	Unique identifier of the message for this audit_event.	string
message_l10n <i>optional</i>	Localized message string corresponding to message_code.	string
resource_action <i>optional</i>		ResourceActionEnum
resource_action_l10n <i>optional</i>	Localized message string corresponding to resource_action	string
resource_type <i>optional</i>		ResourceTypeEnum
resource_type_l10n <i>optional</i>	Localized message string corresponding to resource_type	string

Name	Description	Schema
server_addresses <i>optional</i>	IP Address on which the request was targeted. Example : "10.10.10.10"	string (ip-address)
timestamp <i>optional</i>	Time the event occurred to one second precision. Example : "2018-08-14T14:56:42.786Z"	string (date-time)
type <i>optional</i>		AuditEventTypeEnum
type_message <i>optional</i>	Localized message string corresponding to type	string
username <i>optional</i>	Fully qualified name of the user who initiated the event to be audited. For example, domain_name/name. Example : "admin"	string

base_anomalies_data_instance

Actual content will be one of the children of this definition. Was added in version 4.2.0.0.

Name	Description	Schema
type <i>required</i>		AnomaliesTypeEnum
type_message <i>optional</i>	Localized message string corresponding to type Was added in version 4.2.0.0.	string

base_capacity_forecast_response

Was added in version 3.0.0.0.

Name	Description	Schema
high_value <i>optional</i>	Estimate of the upper bound of the 95% confidence interval for the forecast value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
low_value <i>optional</i>	Estimate of the lower bound of the 95% confidence interval for the forecast value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
mean_value <i>optional</i>	Estimate for the mean forecast value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
timestamp <i>optional</i>	Timestamp when the associated forecast values apply.	string (date-time)

base_copy_metrics_by_appliance

Copy metrics for the appliance.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance.	string
data_remaining <i>optional</i>	Copy metrics for the appliance. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transferred <i>optional</i>	Copy metrics for the appliance. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Copy metrics for the appliance. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

base_copy_metrics_by_appliance_rollup

Copy metrics for the appliance. Was added in version 3.5.0.0.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance.	string
data_remaining <i>optional</i>	Copy metrics for the appliance. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transferred <i>optional</i>	Copy metrics for the appliance. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Copy metrics for the appliance. Was added in version 3.5.0.0. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

base_copy_metrics_by_cluster

Copy metrics for the cluster.

Name	Description	Schema
data_remaining <i>optional</i>	Copy metrics for the cluster. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
data_transfer_red <i>optional</i>	Copy metrics for the cluster. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Copy metrics for the cluster. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

base_copy_metrics_by_cluster_rollup

Copy metrics for the cluster. Was added in version 3.5.0.0.

Name	Description	Schema
data_remaining <i>optional</i>	Copy metrics for the cluster. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transfered <i>optional</i>	Copy metrics for the cluster. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Copy metrics for the cluster. Was added in version 3.5.0.0. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

base_copy_metrics_by_file_system

Copy metrics for the file system. Was added in version 4.0.0.0.

Name	Description	Schema
data_remaining <i>optional</i>	Copy metrics for the file system. Was added in version 4.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transfered <i>optional</i>	Copy metrics for the file system. Was added in version 4.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
file_system_id <i>optional</i>	Unique identifier of the file System.	string
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Copy metrics for the file system. Was added in version 4.0.0.0. Unit : bytes	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

base_copy_metrics_by_file_system_rollup

Copy metrics for the file system. Was added in version 4.0.0.0.

Name	Description	Schema
data_remaining <i>optional</i>	Copy metrics for the file system. Was added in version 4.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transfered <i>optional</i>	Copy metrics for the file system. Was added in version 4.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
file_system_id <i>optional</i>	Unique identifier of the file system.	string
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Copy metrics for the file system. Was added in version 4.0.0.0. Unit : bytes	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

base_copy_metrics_by_nas_server

Copy metrics for the NAS server. Was added in version 4.0.0.0.

Name	Description	Schema
data_remaining <i>optional</i>	Copy metrics for the NAS server. Was added in version 4.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transfered <i>optional</i>	Copy metrics for the NAS server. Was added in version 4.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
nas_server_id <i>optional</i>	Unique identifier of the NAS server.	string
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Copy metrics for the NAS server. Was added in version 4.0.0.0. Unit : bytes	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

base_copy_metrics_by_nas_server_rollup

Copy metrics for the NAS server. Was added in version 4.0.0.0.

Name	Description	Schema
data_remaining <i>optional</i>	Copy metrics for the NAS server. Was added in version 4.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transfered <i>optional</i>	Copy metrics for the NAS server. Was added in version 4.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
nas_server_id <i>optional</i>	Unique identifier of the NAS server.	string
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Copy metrics for the NAS server. Was added in version 4.0.0.0. Unit : bytes	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

base_copy_metrics_by_remote_system

Cluster wide copy metrics for the remote system.

Name	Description	Schema
data_remaining <i>optional</i>	Cluster wide copy metrics for the remote system. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transfered <i>optional</i>	Cluster wide copy metrics for the remote system. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
remote_system_id <i>optional</i>	Unique identifier of the remote system.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Cluster wide copy metrics for the remote system. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

base_copy_metrics_by_remote_system_rollup

Cluster wide copy metrics for the remote system. Was added in version 3.5.0.0.

Name	Description	Schema
data_remaining <i>optional</i>	Cluster wide copy metrics for the remote system. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transferred <i>optional</i>	Cluster wide copy metrics for the remote system. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
remote_system_id <i>optional</i>	Unique identifier of the remote system.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
session_type <i>optional</i>		CopySessionTypeEnum

Name	Description	Schema
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Cluster wide copy metrics for the remote system. Was added in version 3.5.0.0. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

base_copy_metrics_by_rg

Cluster wide copy metrics for the replication group. Was added in version 3.0.0.0.

Name	Description	Schema
data_remaining <i>optional</i>	Cluster wide copy metrics for the replication group. Was added in version 3.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transferred <i>optional</i>	Cluster wide copy metrics for the replication group. Was added in version 3.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
rg_id <i>optional</i>	Unique identifier of the replication group.	string
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Cluster wide copy metrics for the replication group. Was added in version 3.0.0.0. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

base_copy_metrics_by_rg_rollup

Cluster wide copy metrics for the replication group. Was added in version 3.5.0.0.

Name	Description	Schema
data_remaining <i>optional</i>	Cluster wide copy metrics for the replication group. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
data_transfer_red <i>optional</i>	Cluster wide copy metrics for the replication group. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
rg_id <i>optional</i>	Unique identifier of the replication group.	string
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Cluster wide copy metrics for the replication group. Was added in version 3.5.0.0. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

base_copy_metrics_by_vg

Cluster wide copy metrics for the volume group.

Name	Description	Schema
data_remaining <i>optional</i>	Cluster wide copy metrics for the volume group. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transfered <i>optional</i>	Cluster wide copy metrics for the volume group. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Cluster wide copy metrics for the volume group. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
vg_id <i>optional</i>	Unique identifier of the volume group.	string

Name	Description	Schema
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

base_copy_metrics_by_vg_rollup

Cluster wide copy metrics for the volume group. Was added in version 3.5.0.0.

Name	Description	Schema
data_remaining <i>optional</i>	Cluster wide copy metrics for the volume group. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transferred <i>optional</i>	Cluster wide copy metrics for the volume group. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)

Name	Description	Schema
transfer_rate <i>optional</i>	Cluster wide copy metrics for the volume group. Was added in version 3.5.0.0. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
vg_id <i>optional</i>	Unique identifier of the volume group.	string
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

base_copy_metrics_by_volume

Cluster wide copy metrics for the volume.

Name	Description	Schema
data_remaining <i>optional</i>	Cluster wide copy metrics for the volume. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transferred <i>optional</i>	Cluster wide copy metrics for the volume. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Cluster wide copy metrics for the volume. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
volume_id <i>optional</i>	Unique identifier of the volume.	string
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

base_copy_metrics_by_volume_rollup

Cluster wide copy metrics for the volume. Was added in version 3.5.0.0.

Name	Description	Schema
data_remaining <i>optional</i>	Cluster wide copy metrics for the volume. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
data_transfer_red <i>optional</i>	Cluster wide copy metrics for the volume. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Cluster wide copy metrics for the volume. Was added in version 3.5.0.0. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
volume_id <i>optional</i>	Unique identifier of the volume.	string
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

base_performance_headroom_by_appliance

Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100/(100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100/(100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval.

Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier representing a specific appliance.	string
avg_latency <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100/(100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100/(100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : microseconds	number (float)

Name	Description	Schema
avg_total_iops <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : iops	number (float)
effective_cpu_core_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
headroom <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
incr_current_workload_pattern <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
max_backend_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_cpu_core_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
max_fe_cpu_core_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_fe_port_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
max_file_cpu_core_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_log_media_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
max_sustainable_iops_at_const_workload <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : iops	number (float)
performance_bottleneck <i>optional</i>	Was deprecated in version 4.2.0.0.	PerformanceBottleneckEnum
performance_bottleneck_110n <i>optional</i>	Localized message string corresponding to performance_bottleneck Was deprecated in version 4.2.0.0. Was added in version 4.1.0.0.	string
performance_bottlenecks <i>optional</i>	Was added in version 4.2.0.0.	< PerformanceBottleneckEnum > array
performance_bottlenecks_110n <i>optional</i>	Localized message array corresponding to performance_bottlenecks Was added in version 4.2.0.0.	< string > array

Name	Description	Schema
recommended_max_sustainable_iops_at_const_workload <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100/(100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100/(100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : iops	number (float)
timestamp <i>optional</i>	Headroom evaluation timestamp.	string (date-time)

base_performance_headroom_by_appliance_rollup

Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100/(100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100/(100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval.

Was added in version 4.2.0.0.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier representing a specific appliance.	string

Name	Description	Schema
avg_latency <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100/(100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100/(100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : microseconds	number (float)
avg_total_iops <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100/(100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100/(100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : iops	number (float)

Name	Description	Schema
effective_cpu_core_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
headroom <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
incr_current_workload_pattern <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_backend_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
max_cpu_core_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_fe_cpu_core_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
max_fe_port_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_file_cpu_core_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
max_log_media_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_sustainable_iops_at_const_workload <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : iops	number (float)
performance_bottlenecks <i>optional</i>		< PerformanceBottleneckEnum > array
performance_bottlenecks_list <i>optional</i>	Localized message array corresponding to performance_bottlenecks Was added in version 4.2.0.0.	< string > array

Name	Description	Schema
recommended_max_sustainable_iops_at_const_workload <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : iops	number (float)
timestamp <i>optional</i>	Headroom evaluation timestamp.	string (date-time)

base_performance_metrics_by_appliance

Performance metrics for the appliance collected at twenty second interval.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier representing a specific appliance.	string
avg_copy_io_size <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes	number (float)
avg_copy_latency <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes	number (float)

Name	Description	Schema
avg_latency <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : microseconds	number (float)
avg_mirror_overhead_latency <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : microseconds	number (float)
avg_mirror_write_latency <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes	number (float)
avg_unmap_io_size <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes	number (float)
avg_unmap_latency <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : microseconds	number (float)
avg_write_latency <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes	number (float)

Name	Description	Schema
avg_zero_io_size <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes	number (float)
avg_zero_latency <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : microseconds	number (float)
copy_bandwidth <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes/sec	number (float)
copy_iops <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : ios/sec	number (float)
io_workload_cpu_utilization <i>optional</i>	The percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests.	number (float)
mirror_write_bandwidth <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes	number (float)
mirror_write_iops <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : ios/sec	number (float)
read_bandwidth <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes	number (float)
read_iops <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : ios/sec	number (float)

Name	Description	Schema
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes	number (float)
total_iops <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : ios/sec	number
unmap_bandwidth <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes/sec	number (float)
unmap_iops <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes	number (float)
write_iops <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : ios/sec	number (float)
zero_bandwidth <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes/sec	number (float)
zero_iops <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : ios/sec	number (float)

base_performance_metrics_by_appliance_resource_util_rollup

Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier representing a specific appliance.	string
avg_backend_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
avg_cpu_core_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
avg_effective_cpu_core_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
avg_fe_cpu_core_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
avg_fe_port_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
avg_file_cpu_core_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
avg_log_media_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
max_backend_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_cpu_core_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_effective_cpu_core_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_fe_cpu_core_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
max_fe_port_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_file_cpu_core_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_log_media_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_performance_metrics_by_appliance_rollup

Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier representing a specific appliance.	string

Name	Description	Schema
avg_copy_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_copy_io_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_copy_iops <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_copy_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_io_workload_cpu_utilization <i>optional</i>	The average percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests. Calculated over time interval across appliance. Derived from an average of utilization across all nodes within the appliance.	number (float)
avg_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_mirror_overhead_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
avg_mirror_write_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_mirror_write_iops <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_mirror_write_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
avg_total_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number
avg_unmap_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_unmap_io_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_unmap_iops <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_unmap_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_write_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
avg_write_ios <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_zero_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_zero_io_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_zero_iops <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_zero_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_copy_io_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_copy_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_io_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_mirror_overhead_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_mirror_write_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_read_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_unm_ap_io_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_unm_ap_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_zero_io_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_zero_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
max_copy_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_copy_ios <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_io_workload_cpu_utilization <i>optional</i>	The maximum percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests. Calculated over time interval across appliance. Derived from an average of utilization across all nodes within the appliance.	number (float)
max_mirror_write_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_mirror_write_ios <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_read_ios <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_total_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
max_total_ios <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number
max_unmap_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_unmap_ios <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_write_ios <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_zero_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_zero_ios <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_performance_metrics_by_cluster

Performance metrics for the cluster collected at twenty second interval.

Name	Description	Schema
avg_copy_io_size <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes	number (float)
avg_copy_latency <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : microseconds	number (float)
avg_mirror_overhead_latency <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : microseconds	number (float)
avg_mirror_write_latency <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : microseconds	number (float)

Name	Description	Schema
avg_read_size <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes	number (float)
avg_unmap_io_size <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes	number (float)
avg_unmap_latency <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : microseconds	number (float)
avg_write_latency <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes	number (float)
avg_zero_io_size <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes	number (float)
avg_zero_latency <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : microseconds	number (float)
cluster_id <i>optional</i>	Identifier of the cluster.	string
copy_bandwidth <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes/sec	number (float)

Name	Description	Schema
copy_iops <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : ios/sec	number (float)
mirror_write_bandwidth <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes	number (float)
mirror_write_iops <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : ios/sec	number (float)
read_bandwidth <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes	number (float)
read_iops <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes	number (float)
total_iops <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : ios/sec	number (float)
unmap_bandwidth <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes/sec	number (float)

Name	Description	Schema
unmap_iops <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes	number (float)
write_iops <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : ios/sec	number (float)
zero_bandwidth <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes/sec	number (float)
zero_iops <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : ios/sec	number (float)

base_performance_metrics_by_cluster_rollup

Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
avg_copy_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_copy_io_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
avg_copy_iops <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_copy_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_mirror_overhead_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_mirror_write_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_mirror_write_iops <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
avg_mirror_write_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number

Name	Description	Schema
avg_unmap_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_unmap_io_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_unmap_iops <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_unmap_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_write_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_write_iops <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
avg_write_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_zero_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_zero_io_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_zero_iops <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_zero_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
cluster_id <i>optional</i>	Identifier of the cluster.	string
max_avg_copy_io_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_copy_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_io_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_mirror_overhead_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_mirror_write_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_unmap_io_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
max_avg_unmap_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_zero_io_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_zero_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_copy_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_copy_ios <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
max_mirror_write_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_mirror_write_ios <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_read_ios <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_total_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_total_ios <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number
max_unmap_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)

Name	Description	Schema
max_unmap_ops <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_write_ios <i>optional</i>	Maximum writes per second.	number (float)
max_zero_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_zero_ios <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_performance_metrics_by_fe_eth_node

Ethernet performance metrics for the node collected at twenty second interval.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string

Name	Description	Schema
bytes_rx_ps <i>optional</i>	Ethernet performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
bytes_tx_ps <i>optional</i>	Ethernet performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
node_id <i>optional</i>	Reference to the associated node on which these metrics were recorded.	string
pkt_rx_crc_error_ps <i>optional</i>	The number of packets received with CRC error (and thus dropped) per second.	number (float)
pkt_rx_no_buffer_error_ps <i>optional</i>	The number of packets discarded per second due to lack of buffer space.	number (float)
pkt_rx_ps <i>optional</i>	The number of packets received per second.	number (float)
pkt_tx_error_ps <i>optional</i>	The number of packets that failed to be transmitted per second due to error.	number (float)
pkt_tx_ps <i>optional</i>	The number of packets transmitted per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_performance_metrics_by_fe_eth_node_rollup

Ethernet performance metrics for the node rolled up at various rollup intervals.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
avg_bytes_rx_ps <i>optional</i>	Ethernet performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_bytes_tx_ps <i>optional</i>	Ethernet performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_pkt_rx_crc_error_ps <i>optional</i>	The average number of packets received with CRC error (and thus dropped) per second.	number (float)
avg_pkt_rx_no_buffer_error_ps <i>optional</i>	The average number of packets discarded per second due to lack of buffer space.	number (float)
avg_pkt_rx_ps <i>optional</i>	Ethernet performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_pkt_tx_error_ps <i>optional</i>	The average number of packets that failed to be transmitted per second due to error.	number (float)
avg_pkt_tx_ps <i>optional</i>	Ethernet performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_bytes_rx_ps <i>optional</i>	Ethernet performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_bytes_tx_ps <i>optional</i>	Ethernet performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)

Name	Description	Schema
max_pkt_rx_crc_error_ps <i>optional</i>	The maximum number of packets received with CRC error (and thus dropped) per second.	number (float)
max_pkt_rx_no_buffer_error_ps <i>optional</i>	The maximum number of packets discarded per second due to lack of buffer space.	number (float)
max_pkt_rx_ps <i>optional</i>	The maximum number of packets received per second.	number (float)
max_pkt_tx_error_ps <i>optional</i>	The maximum number of packets that failed to be transmitted per second due to error.	number (float)
max_pkt_tx_ps <i>optional</i>	The maximum number of packets transmitted per second.	number (float)
node_id <i>optional</i>	Reference to the associated node on which these metrics were recorded.	string
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_performance_metrics_by_fe_eth_port

Performance metrics for the frontend ethernet port collected at twenty second interval.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
bytes_rx_ps <i>optional</i>	Performance metrics for the frontend ethernet port collected at twenty second interval. Unit : bytes	number (float)

Name	Description	Schema
bytes_tx_ps <i>optional</i>	Performance metrics for the frontend ethernet port collected at twenty second interval. Unit : bytes	number (float)
fe_port_id <i>optional</i>	Reference to the associated frontend ethernet port (eth_port) on which these metrics were recorded.	string
node_id <i>optional</i>	Reference to the node the port belongs to.	string
pkt_rx_crc_error_ps <i>optional</i>	The number of packets received with CRC error (and thus dropped) per second.	number (float)
pkt_rx_no_buffer_error_ps <i>optional</i>	The number of packets discarded per second due to lack of buffer space.	number (float)
pkt_rx_ps <i>optional</i>	The number of packets received per second.	number (float)
pkt_tx_error_ps <i>optional</i>	The number of packets that failed to be transmitted per second due to error.	number (float)
pkt_tx_ps <i>optional</i>	The number of packets transmitted per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_performance_metrics_by_fe_eth_port_rollup

Performance metrics for the frontend ethernet port rolled up at various rollup intervals.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
avg_bytes_rx_ps <i>optional</i>	Performance metrics for the frontend ethernet port rolled up at various rollup intervals. Unit : bytes	number (float)
avg_bytes_tx_ps <i>optional</i>	Performance metrics for the frontend ethernet port rolled up at various rollup intervals. Unit : bytes	number (float)
avg_pkt_rx_crc_error_ps <i>optional</i>	The average number of packets received with CRC error (and thus dropped) per second.	number (float)
avg_pkt_rx_no_buffer_error_ps <i>optional</i>	The average number of packets discarded per second due to lack of buffer space.	number (float)
avg_pkt_rx_ps <i>optional</i>	The average number of packets received per second.	number (float)
avg_pkt_tx_error_ps <i>optional</i>	The average number of packets that failed to be transmitted per second due to error.	number (float)
avg_pkt_tx_ps <i>optional</i>	The average number of packets transmitted per second.	number (float)
fe_port_id <i>optional</i>	Reference to the associated frontend ethernet port (eth_port) on which these metrics were recorded.	string
max_bytes_rx_ps <i>optional</i>	Performance metrics for the frontend ethernet port rolled up at various rollup intervals. Unit : bytes	number (float)
max_bytes_tx_ps <i>optional</i>	Performance metrics for the frontend ethernet port rolled up at various rollup intervals. Unit : bytes	number (float)

Name	Description	Schema
max_pkt_rx_crc_error_ps <i>optional</i>	The maximum number of packets received with CRC error (and thus dropped) per second.	number (float)
max_pkt_rx_no_buffer_error_ps <i>optional</i>	The maximum number of packets discarded per second due to lack of buffer space.	number (float)
max_pkt_rx_ps <i>optional</i>	The maximum number of packets received per second.	number (float)
max_pkt_tx_error_ps <i>optional</i>	The maximum number of packets that failed to be transmitted per second due to error.	number (float)
max_pkt_tx_ps <i>optional</i>	The maximum number of packets transmitted per second.	number (float)
node_id <i>optional</i>	Reference to the node the port belongs to.	string
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_performance_metrics_by_fe_fc_node

Fibre channel performance metrics for the node collected at twenty second interval.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded. Was added in version 3.5.0.0.	string
avg_copy_io_size <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)

Name	Description	Schema
avg_copy_latency <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_unmap_io_size <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_unmap_latency <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_zero_io_size <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)

Name	Description	Schema
avg_zero_latency <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)
copy_bandwidth <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes/sec	number (float)
copy_iops <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : ios/sec	number (float)
current_logins <i>optional</i>	The number of logins to the target from initiators. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
dumped_frames_ps <i>optional</i>	Dumped frames per second.	number (float)
invalid_crc_count_ps <i>optional</i>	Invalid crc count per second.	number (float)
invalid_tx_word_count_ps <i>optional</i>	Invalid transmission word count per second.	number (float)
link_failure_count_ps <i>optional</i>	Link failure count per second.	number (float)
loss_of_signal_count_ps <i>optional</i>	Loss of signal count per second.	number (float)
loss_of_sync_count_ps <i>optional</i>	Loss of sync count per second.	number (float)

Name	Description	Schema
node_id <i>optional</i>	Reference to the associated node on which these metrics were recorded.	string
prim_seq_prot_err_count_ps <i>optional</i>	Primitive sequence protocol error count per second.	number (float)
read_bandwidth <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
read_iops <i>optional</i>	Total number of read operations by the node.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
total_iops <i>optional</i>	Total read and write operations per second.	number (float)
unaligned_bandwidth <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
unaligned_iops <i>optional</i>	Unaligned total input/output per second. Was deprecated in version 2.1.0.0.	number (float)
unaligned_read_bandwidth <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)

Name	Description	Schema
unaligned_read_iops <i>optional</i>	Unaligned read input/output per second. Was deprecated in version 2.1.0.0.	number (float)
unaligned_write_bandwidth <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
unaligned_write_iops <i>optional</i>	Unaligned write input/output per second. Was deprecated in version 2.1.0.0.	number (float)
unmap_bandwidth <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes/sec	number (float)
unmap_iops <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
write_iops <i>optional</i>	Total write operations per second.	number (float)
zero_bandwidth <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes/sec	number (float)
zero_iops <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : ios/sec	number (float)

base_performance_metrics_by_fe_fc_node_rollup

Fibre channel performance metrics for the node rolled up at various rollup intervals.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded. Was added in version 3.5.0.0.	string
avg_copy_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes/sec	number (float)
avg_copy_io_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_copy_iops <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : ios/sec	number (float)
avg_copy_latency <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : microseconds	number (float)
avg_current_logins <i>optional</i>	Average number of logins to the target from initiators. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
avg_dumped_frames_ps <i>optional</i>	Average dumped frames per second.	number (float)
avg_invalid_crc_count_ps <i>optional</i>	Average invalid crc count per second.	number (float)
avg_invalid_tx_word_count_ps <i>optional</i>	Average invalid transmission word count per second.	number (float)
avg_io_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)

Name	Description	Schema
avg_latency <i>optional</i>	Weighted average latency in microseconds.	number (float)
avg_link_failure_count_ps <i>optional</i>	Average link failure count per second.	number (float)
avg_loss_of_signal_count_ps <i>optional</i>	Average loss of signal count per second.	number (float)
avg_loss_of_sync_count_ps <i>optional</i>	Average loss of sync count per second.	number (float)
avg_prim_seq_prot_err_count_ps <i>optional</i>	Average primitive sequence protocol error count per second.	number (float)
avg_read_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Average reads per second.	number (float)
avg_read_latency <i>optional</i>	Weighted average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Average total input and output operations per second.	number

Name	Description	Schema
avg_unaligned_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_unaligned_iops <i>optional</i>	Average unaligned total input/output per second. Was deprecated in version 2.1.0.0.	number (float)
avg_unaligned_read_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_unaligned_read_iops <i>optional</i>	Average unaligned read input/output per second. Was deprecated in version 2.1.0.0.	number (float)
avg_unaligned_write_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_unaligned_write_iops <i>optional</i>	Average unaligned write input/output per second. Was deprecated in version 2.1.0.0.	number (float)
avg_unmap_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes/sec	number (float)
avg_unmap_io_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_unmap_iops <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : ios/sec	number (float)

Name	Description	Schema
avg_unmap_latency <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : microseconds	number (float)
avg_write_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_write_iops <i>optional</i>	Average writes per second.	number (float)
avg_write_latency <i>optional</i>	Weighted average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_zero_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes/sec	number (float)
avg_zero_io_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_zero_iops <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : ios/sec	number (float)
avg_zero_latency <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_copy_io_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_avg_copy_latency <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : microseconds	number (float)
max_avg_io_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Maximum of average latency in microseconds.	number (float)
max_avg_read_latency <i>optional</i>	Maximum read latency in microseconds.	number (float)
max_avg_read_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_avg_unmap_io_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_avg_unmap_latency <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : microseconds	number (float)
max_avg_write_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)

Name	Description	Schema
max_avg_write_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_avg_zero_io_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_avg_zero_latency <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : microseconds	number (float)
max_copy_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes/sec	number (float)
max_copy_ios <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : ios/sec	number (float)
max_current_logins <i>optional</i>	Maximum number of logins to the target from initiators. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_dumped_frames_ps <i>optional</i>	The maximum dumped frames per second.	number (float)
max_invalid_crc_count_ps <i>optional</i>	The maximum invalid crc count per second.	number (float)
max_invalid_tx_word_count_ps <i>optional</i>	The maximum invalid transmission word count per second.	number (float)
max_link_failure_count_ps <i>optional</i>	The maximum link failure count per second.	number (float)

Name	Description	Schema
max_loss_of_signal_count_ps <i>optional</i>	The maximum loss of signal count per second.	number (float)
max_loss_of_sync_count_ps <i>optional</i>	The maximum loss of sync count per second.	number (float)
max_primitive_seq_prot_err_count_ps <i>optional</i>	The maximum primitive sequence protocol error count per second.	number (float)
max_read_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_read_iops <i>optional</i>	Maximum reads per second.	number (float)
max_total_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_total_iops <i>optional</i>	Maximum totals per second.	number
max_unaligned_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_unaligned_iops <i>optional</i>	Maximum unaligned total input/output per second. Was deprecated in version 2.1.0.0.	number (float)

Name	Description	Schema
max_unaligned_read_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_unaligned_read_iops <i>optional</i>	Maximum unaligned read input/output per second. Was deprecated in version 2.1.0.0.	number (float)
max_unaligned_write_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_unaligned_write_iops <i>optional</i>	Maximum unaligned write input/output per second. Was deprecated in version 2.1.0.0.	number (float)
max_unmap_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes/sec	number (float)
max_unmap_iops <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : ios/sec	number (float)
max_write_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_write_iops <i>optional</i>	Maximum writes per second.	number (float)
max_zero_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes/sec	number (float)

Name	Description	Schema
max_zero_ios <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : ios/sec	number (float)
node_id <i>optional</i>	Reference to the associated node on which these metrics were recorded.	string
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_performance_metrics_by_fe_fc_port

Performance metrics for the frontend fibre channel port collected at twenty second interval.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
avg_copy_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)
avg_copy_latency <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)

Name	Description	Schema
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)
avg_unmap_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)
avg_unmap_latency <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : microseconds	number (float)
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)
avg_zero_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)
avg_zero_latency <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : microseconds	number (float)
copy_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes/sec	number (float)

Name	Description	Schema
copy_iops <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : ios/sec	number (float)
current_logins <i>optional</i>	The number of logins to the target from initiators. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
dumped_frames_ps <i>optional</i>	Dumped frames per second.	number (float)
fe_port_id <i>optional</i>	Reference to the associated frontend fibre channel port (fc_port) on which these metrics were recorded.	string
invalid_crc_count_ps <i>optional</i>	Invalid crc count per second.	number (float)
invalid_tx_word_count_ps <i>optional</i>	Invalid transmission word count per second.	number (float)
link_failure_count_ps <i>optional</i>	Link failure count per second.	number (float)
loss_of_signal_count_ps <i>optional</i>	Loss of signal count per second.	number (float)
loss_of_sync_count_ps <i>optional</i>	Loss of sync count per second.	number (float)
node_id <i>optional</i>	Reference to the node the port belongs to.	string
prim_seq_prot_err_count_ps <i>optional</i>	Primitive sequence protocol error count per second.	number (float)

Name	Description	Schema
read_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)
read_iops <i>optional</i>	Total number of read operations by the node.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)
total_iops <i>optional</i>	Total read and write operations per second.	number (float)
unaligned_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)
unaligned_iops <i>optional</i>	Unaligned total input/output per second. Was deprecated in version 2.1.0.0.	number (float)
unaligned_read_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)
unaligned_read_iops <i>optional</i>	Unaligned read input/output per second. Was deprecated in version 2.1.0.0.	number (float)
unaligned_write_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)

Name	Description	Schema
unaligned_write_iops <i>optional</i>	Unaligned write input/output per second. Was deprecated in version 2.1.0.0.	number (float)
unmap_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes/sec	number (float)
unmap_iops <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)
write_iops <i>optional</i>	Total write operations per second.	number (float)
zero_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes/sec	number (float)
zero_iops <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : ios/sec	number (float)

base_performance_metrics_by_fe_fc_port_rollup

Performance metrics for the frontend fibre channel port rolled up at various intervals.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
avg_copy_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes/sec	number (float)

Name	Description	Schema
avg_copy_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
avg_copy_iops <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : ios/sec	number (float)
avg_copy_latency <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : microseconds	number (float)
avg_current_logins <i>optional</i>	Average number of logins to the target from initiators. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
avg_dumped_frames_ps <i>optional</i>	Average dumped frames per second.	number (float)
avg_invalid_crc_count_ps <i>optional</i>	Average invalid crc count per second.	number (float)
avg_invalid_tx_word_count_ps <i>optional</i>	Average invalid transmission word count per second.	number (float)
avg_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
avg_latency <i>optional</i>	Weighted average latency in microseconds.	number (float)
avg_link_failure_count_ps <i>optional</i>	Average link failure count per second.	number (float)

Name	Description	Schema
avg_loss_of_signal_count_ps <i>optional</i>	Average loss of signal count per second.	number (float)
avg_loss_of_sync_count_ps <i>optional</i>	Average loss of sync count per second.	number (float)
avg_prim_seq_prot_err_count_ps <i>optional</i>	Average primitive sequence protocol error count per second.	number (float)
avg_read_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Average reads per second.	number (float)
avg_read_latency <i>optional</i>	Weighted average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Average total input and output operations per second.	number
avg_unaligned_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)

Name	Description	Schema
avg_unaligned_iops <i>optional</i>	Average unaligned total input/output per second. Was deprecated in version 2.1.0.0.	number (float)
avg_unaligned_read_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
avg_unaligned_read_iops <i>optional</i>	Average unaligned read input/output per second.	number (float)
avg_unaligned_write_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
avg_unaligned_write_iops <i>optional</i>	Average unaligned write input/output per second.	number (float)
avg_unmap_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes/sec	number (float)
avg_unmap_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
avg_unmap_iops <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : ios/sec	number (float)
avg_unmap_latency <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : microseconds	number (float)

Name	Description	Schema
avg_write_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
avg_write_ios <i>optional</i>	Average writes per second.	number (float)
avg_write_latency <i>optional</i>	Weighted average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
avg_zero_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes/sec	number (float)
avg_zero_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
avg_zero_iops <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : ios/sec	number (float)
avg_zero_latency <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : microseconds	number (float)
fe_port_id <i>optional</i>	Reference to the associated frontend fibre channel port (fc_port) on which these metrics were recorded.	string
max_avg_copy_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)

Name	Description	Schema
max_avg_copy_latency <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : microseconds	number (float)
max_avg_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Maximum of average latency in microseconds.	number (float)
max_avg_read_latency <i>optional</i>	Maximum read latency in microseconds.	number (float)
max_avg_read_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
max_avg_unmap_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
max_avg_unmap_latency <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : microseconds	number (float)
max_avg_write_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
max_avg_write_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)

Name	Description	Schema
max_avg_zero_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
max_avg_zero_latency <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : microseconds	number (float)
max_copy_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes/sec	number (float)
max_copy_ios <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : ios/sec	number (float)
max_current_logins <i>optional</i>	Maximum number of logins to the target from initiators. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_dumped_frames_ps <i>optional</i>	The maximum dumped frames per second.	number (float)
max_invalid_crc_count_ps <i>optional</i>	The maximum invalid crc count per second.	number (float)
max_invalid_tx_word_count_ps <i>optional</i>	The maximum invalid transmission word count per second.	number (float)
max_link_failure_count_ps <i>optional</i>	The maximum link failure count per second.	number (float)
max_loss_of_signal_count_ps <i>optional</i>	The maximum loss of signal count per second.	number (float)

Name	Description	Schema
max_loss_of_sync_count_ps <i>optional</i>	The maximum loss of sync count per second.	number (float)
max_primitive_seq_prot_err_count_ps <i>optional</i>	The maximum primitive sequence protocol error count per second.	number (float)
max_read_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
max_read_iops <i>optional</i>	Maximum reads per second.	number (float)
max_total_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
max_total_iops <i>optional</i>	Maximum totals per second.	number
max_unaligned_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
max_unaligned_iops <i>optional</i>	Maximum unaligned total input/output per second. Was deprecated in version 2.1.0.0.	number (float)
max_unaligned_read_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
max_unaligned_read_iops <i>optional</i>	Maximum unaligned read input/output per second. Was deprecated in version 2.1.0.0.	number (float)

Name	Description	Schema
max_unaligned_write_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
max_unaligned_write_iops <i>optional</i>	Maximum unaligned write input/output per second. Was deprecated in version 2.1.0.0.	number (float)
max_unmap_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes/sec	number (float)
max_unmap_iops <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : ios/sec	number (float)
max_write_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
max_write_iops <i>optional</i>	Maximum writes per second.	number (float)
max_zero_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes/sec	number (float)
max_zero_iops <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : ios/sec	number (float)
node_id <i>optional</i>	Reference to the node the port belongs to.	string
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_performance_metrics_by_file_system

Performance metrics for the file system collected at twenty second interval.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_latency <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : microseconds	number (float)
avg_mirror_overhead_latency <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : bytes	number (float)
avg_size <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : microseconds	number (float)

Name	Description	Schema
avg_write_size <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : bytes	number (float)
block_avg_write_latency <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : microseconds	number (float)
block_write_bandwidth <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : bytes/sec	number (float)
block_write_ops <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : ios/sec	number (float)
file_system_id <i>optional</i>	Unique identifier of the file system.	string
mirror_write_bandwidth <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : bytes/sec	number (float)
mirror_write_iops <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : ios/sec	number (float)
read_bandwidth <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : bytes/sec	number (float)
read_iops <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : ios/sec	number (float)

Name	Description	Schema
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values.If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : bytes/sec	number (float)
total_iops <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : bytes/sec	number (float)
write_iops <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : ios/sec	number (float)

base_performance_metrics_by_file_system_rollup

Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_block_write_bandwidth <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)

Name	Description	Schema
avg_block_write_iops <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_block_write_latency <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_latency <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_mirror_overhead_latency <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_mirror_write_bandwidth <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_mirror_write_iops <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_read_bandwidth <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)

Name	Description	Schema
avg_read_iops <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_size <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_total_iops <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_bandwidth <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)

Name	Description	Schema
avg_write_ios <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
file_system_id <i>optional</i>	Unique identifier of the file system.	string
max_avg_block_write_latency <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_latency <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_mirror_overhead_latency <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_read_size <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_size <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_block_write_bandwidth <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_block_write_iops <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_iops <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
max_mirror_write_bandwidth <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_mirror_write_iops <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_read_iops <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_total_bandwidth <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_write_iops <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values.If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

base_performance_metrics_by_hg

Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0.

Name	Description	Schema
avg_copy_io_size <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_copy_latency <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_unmap_io_size <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_unmap_latency <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_io_size <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_latency <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : microseconds	number (float)
copy_bandwidth <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
copy_iops <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
hg_id <i>optional</i>	Reference to the associated host group for which these metrics were recorded.	string
read_bandwidth <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
read_iops <i>optional</i>	Total read operations per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
total_iops <i>optional</i>	Total read and write operations per second.	number
unmap_bandwidth <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
unmap_iops <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
write_iops <i>optional</i>	Total write operations per second.	number (float)
zero_bandwidth <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
zero_iops <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : ios/sec	number (float)

base_performance_metrics_by_hg_rollup

Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0.

Name	Description	Schema
avg_copy_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
avg_copy_io_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_copy_iops <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
avg_copy_latency <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Weighted average latency in microseconds.	number (float)

Name	Description	Schema
avg_read_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Average reads per second.	number (float)
avg_read_latency <i>optional</i>	Weighted average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Average total input and output operations per second.	number
avg_unmap_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
avg_unmap_io_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_unmap_ios <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
avg_unmap_latency <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_write_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_write_ios <i>optional</i>	Average writes per second.	number (float)
avg_write_latency <i>optional</i>	Weighted average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
avg_zero_io_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_iops <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
avg_zero_latency <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
hg_id <i>optional</i>	Reference to the associated host group for which these metrics were recorded.	string
max_avg_copy_io_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_copy_latency <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
max_avg_io_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_avg_latency <i>optional</i>	Maximum of average latency in microseconds.	number (float)
max_avg_read_latency <i>optional</i>	Maximum read latency in microseconds.	number (float)
max_avg_read_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_unmap_io_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_unmap_latency <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
max_avg_write_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
max_avg_write_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_avg_zero_io_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_zero_latency <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
max_copy_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
max_copy_ios <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_read_ios <i>optional</i>	Maximum reads per second.	number (float)
max_total_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_total_ios <i>optional</i>	Maximum totals per second.	number
max_unmap_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
max_unmap_ios <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_write_ios <i>optional</i>	Maximum writes per second.	number (float)
max_zero_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
max_zero_ios <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)

Name	Description	Schema
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_performance_metrics_by_host

Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0.

Name	Description	Schema
avg_copy_io_size <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_copy_latency <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_unmap_io_size <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_unmap_latency <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_io_size <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_latency <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : microseconds	number (float)
copy_bandwidth <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
copy_iops <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
host_id <i>optional</i>	Reference to the associated host for which these metrics were recorded.	string
read_bandwidth <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
read_iops <i>optional</i>	Total read operations per second.	number (float)

Name	Description	Schema
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
total_iops <i>optional</i>	Total read and write operations per second.	number
unmap_bandwidth <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
unmap_iops <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
write_iops <i>optional</i>	Total write operations per second.	number (float)
zero_bandwidth <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
zero_iops <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : ios/sec	number (float)

base_performance_metrics_by_host_rollup

Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0.

Name	Description	Schema
avg_copy_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
avg_copy_io_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_copy_iops <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
avg_copy_latency <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Weighted average latency in microseconds.	number (float)

Name	Description	Schema
avg_read_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Average reads per second.	number (float)
avg_read_latency <i>optional</i>	Weighted average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Average total input and output operations per second.	number
avg_unmap_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
avg_unmap_io_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_unmap_ios <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
avg_unmap_latency <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_write_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_write_ios <i>optional</i>	Average writes per second.	number (float)
avg_write_latency <i>optional</i>	Weighted average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
avg_zero_io_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_iops <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
avg_zero_latency <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
host_id <i>optional</i>	Reference to the associated host for which these metrics were recorded.	string
max_avg_copy_io_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_copy_latency <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
max_avg_io_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_avg_latency <i>optional</i>	Maximum of average latency in microseconds.	number (float)
max_avg_read_latency <i>optional</i>	Maximum read latency in microseconds.	number (float)
max_avg_read_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_unmap_io_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_unmap_latency <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
max_avg_write_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
max_avg_write_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_avg_zero_io_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_zero_latency <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
max_copy_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
max_copy_ios <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_read_ios <i>optional</i>	Maximum reads per second.	number (float)
max_total_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_total_ios <i>optional</i>	Maximum totals per second.	number
max_unmap_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
max_unmap_ios <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_write_ios <i>optional</i>	Maximum writes per second.	number (float)
max_zero_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
max_zero_ios <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)

Name	Description	Schema
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_performance_metrics_by_initiator

Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0.

Name	Description	Schema
avg_copy_io_size <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_copy_latency <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_unmap_io_size <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_unmap_latency <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_io_size <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_latency <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : microseconds	number (float)
copy_bandwidth <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
copy_iops <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
initiator_id <i>optional</i>	Reference to the associated initiator for which these metrics were recorded.	string
read_bandwidth <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
read_iops <i>optional</i>	Total read operations per second.	number (float)

Name	Description	Schema
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
total_iops <i>optional</i>	Total read and write operations per second.	number
unmap_bandwidth <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
unmap_iops <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
write_iops <i>optional</i>	Total write operations per second.	number (float)
zero_bandwidth <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
zero_iops <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : ios/sec	number (float)

base_performance_metrics_by_initiator_rollup

Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0.

Name	Description	Schema
avg_copy_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
avg_copy_io_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_copy_iops <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
avg_copy_latency <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Weighted average latency in microseconds.	number (float)

Name	Description	Schema
avg_read_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Average reads per second.	number (float)
avg_read_latency <i>optional</i>	Weighted average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Average total input and output operations per second.	number
avg_unmap_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
avg_unmap_io_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_unmap_ios <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
avg_unmap_latency <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_write_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_write_ios <i>optional</i>	Average writes per second.	number (float)
avg_write_latency <i>optional</i>	Weighted average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
avg_zero_io_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_iops <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
avg_zero_latency <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
initiator_id <i>optional</i>	Reference to the associated initiator for which these metrics were recorded.	string
max_avg_copy_io_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_copy_latency <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
max_avg_io_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_avg_latency <i>optional</i>	Maximum of average latency in microseconds.	number (float)
max_avg_read_latency <i>optional</i>	Maximum read latency in microseconds.	number (float)
max_avg_read_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_unmap_io_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_unmap_latency <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
max_avg_write_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
max_avg_write_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_avg_zero_io_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_zero_latency <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
max_copy_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
max_copy_ios <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_read_ios <i>optional</i>	Maximum reads per second.	number (float)
max_total_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_total_ios <i>optional</i>	Maximum totals per second.	number
max_unmap_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
max_unmap_ios <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_write_ios <i>optional</i>	Maximum writes per second.	number (float)
max_zero_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
max_zero_ios <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)

Name	Description	Schema
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_performance_metrics_by_ip_port

Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded. Was added in version 3.5.0.0.	string
avg_copy_io_size <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_copy_latency <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_unmap_io_size <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_unmap_latency <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_zero_io_size <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_zero_latency <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
copy_bandwidth <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
copy_iops <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
ip_port_id <i>optional</i>	Unique identifier representing a specific port.	string
read_bandwidth <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
read_iops <i>optional</i>	Total read operations per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics is repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
total_iops <i>optional</i>	Total read and write operations per second.	number
unmap_bandwidth <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
unmap_iops <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
write_iops <i>optional</i>	Total write operations per second.	number (float)
zero_bandwidth <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
zero_iops <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)

base_performance_metrics_by_ip_port_iscsi

Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded. Was added in version 3.5.0.0.	string
avg_copy_io_size <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_copy_latency <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_unmap_io_size <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_unmap_latency <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)

Name	Description	Schema
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_zero_io_size <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_zero_latency <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
copy_bandwidth <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
copy_iops <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
ip_port_id <i>optional</i>	Unique identifier representing a specific port.	string
read_bandwidth <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
read_iops <i>optional</i>	Total read operations per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics is repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
total_iops <i>optional</i>	Total read and write operations per second.	number
unmap_bandwidth <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
unmap_iops <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
write_iops <i>optional</i>	Total write operations per second.	number (float)
zero_bandwidth <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
zero_iops <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)

base_performance_metrics_by_ip_port_iscsi_rollup

Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded. Was added in version 3.5.0.0.	string
avg_copy_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
avg_copy_io_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_copy_iops <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_copy_latency <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Weighted average latency in microseconds.	number (float)

Name	Description	Schema
avg_read_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Average reads per second.	number (float)
avg_read_latency <i>optional</i>	Weighted average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Average total input and output operations per second.	number
avg_unmap_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
avg_unmap_io_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_unmap_ios <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_unmap_latency <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_write_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_write_ios <i>optional</i>	Average writes per second.	number (float)
avg_write_latency <i>optional</i>	Weighted average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_zero_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
avg_zero_io_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_zero_iops <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_zero_latency <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
ip_port_id <i>optional</i>	Unique identifier representing a specific port.	string
max_avg_copy_io_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_copy_latency <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_avg_io_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_avg_latency <i>optional</i>	Maximum of average latency in microseconds.	number (float)
max_avg_read_latency <i>optional</i>	Maximum read latency in microseconds.	number (float)
max_avg_read_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_unmap_io_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_unmap_latency <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_avg_write_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
max_avg_write_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_avg_zero_io_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_zero_latency <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_copy_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_copy_ios <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_read_ios <i>optional</i>	Maximum reads per second.	number (float)
max_total_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_total_ios <i>optional</i>	Maximum totals per second.	number
max_unmap_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_unmap_ios <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_write_ios <i>optional</i>	Maximum writes per second.	number (float)
max_zero_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_zero_ios <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)

Name	Description	Schema
repeat_count <i>optional</i>	Number of times the metrics is repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_performance_metrics_by_ip_port_rollup

Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded. Was added in version 3.5.0.0.	string
avg_copy_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
avg_copy_io_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_copy_iops <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_copy_latency <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)

Name	Description	Schema
avg_io_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Weighted average latency in microseconds.	number (float)
avg_read_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Average reads per second.	number (float)
avg_read_latency <i>optional</i>	Weighted average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Average total input and output operations per second.	number

Name	Description	Schema
avg_unmap_bw <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
avg_unmap_io_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_unmap_iops <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_unmap_latency <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_write_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_write_iops <i>optional</i>	Average writes per second.	number (float)
avg_write_latency <i>optional</i>	Weighted average write latency in microseconds.	number (float)

Name	Description	Schema
avg_write_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_zero_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
avg_zero_io_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_zero_iops <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_zero_latency <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
ip_port_id <i>optional</i>	Unique identifier representing a specific port.	string
max_avg_copy_io_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_avg_copy_latency <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_avg_io_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Maximum of average latency in microseconds.	number (float)
max_avg_read_latency <i>optional</i>	Maximum read latency in microseconds.	number (float)
max_avg_read_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_unmap_io_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_unmap_latency <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_write_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
max_avg_write_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_zero_io_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_zero_latency <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_copy_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_copy_ios <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_read_ios <i>optional</i>	Maximum reads per second.	number (float)
max_total_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_total_ios <i>optional</i>	Maximum totals per second.	number
max_unmap_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_unmap_ios <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_write_ios <i>optional</i>	Maximum writes per second.	number (float)

Name	Description	Schema
max_zero_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_zero_ios <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of times the metrics is repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_performance_metrics_by_nas_server

Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of an appliance.	string
avg_latency <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : microseconds	number (float)
avg_mirror_overhead_latency <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : microseconds	number (float)

Name	Description	Schema
avg_read_size <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : bytes	number (float)
avg_size <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : bytes	number (float)
block_avg_write_latency <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : microseconds	number (float)
block_write_bandwidth <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
block_write_iops <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
mirror_write_bandwidth <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
mirror_write_iops <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : ios/sec	number (float)

Name	Description	Schema
nas_server_id <i>optional</i>	Unique identifier of the nas server.	string
read_bandwidth <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
read_iops <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values.If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
total_iops <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
write_iops <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : ios/sec	number (float)

base_performance_metrics_by_nas_server_rollup

Summary of nas server level performance metric data for the period beginning with timestamp,

including the average and maximum values for that period.

Was added in version 3.5.0.0.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of an appliance.	string
avg_block_write_bandwidth <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
avg_block_write_iops <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
avg_block_write_latency <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : microseconds	number (float)
avg_latency <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : microseconds	number (float)
avg_mirror_overhead_latency <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : microseconds	number (float)

Name	Description	Schema
avg_mirror_write_bandwidth <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
avg_mirror_write_iops <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
avg_read_bandwidth <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
avg_read_iops <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_size <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
avg_total_iops <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
avg_write_bandwidth <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
avg_write_iops <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : microseconds	number (float)

Name	Description	Schema
avg_write_size <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes	number (float)
max_avg_block_write_latency <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : microseconds	number (float)
max_avg_latency <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : microseconds	number (float)
max_avg_mirror_overhead_latency <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_avg_size <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes	number (float)
max_block_write_bandwidth <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
max_block_write_iops <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
max_iops <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : ios/sec	number (float)

Name	Description	Schema
max_mirror_write_bandwidth <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
max_mirror_write_iops <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
max_read_iops <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
max_total_bandwidth <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
max_write_ios <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
nas_server_id <i>optional</i>	Unique identifier of the nas server.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values.If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

base_performance_metrics_by_nfs

Performance metrics for the nfs collected at twenty second interval.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_io_size <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : microseconds	number (float)

Name	Description	Schema
avg_read_size <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : bytes	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string
read_bandwidth <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : bytes/sec	number (float)
read_iops <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : bytes/sec	number (float)

Name	Description	Schema
total_iops <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : bytes/sec	number (float)
write_iops <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : ios/sec	number (float)

base_performance_metrics_by_nfs_rollup

Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_io_size <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_latency <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_bandwidth <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)

Name	Description	Schema
avg_read_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_read_lateness <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_total_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_bandwidth <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_write_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
avg_write_latency <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_io_size <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_write_size <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_read_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_total_bandwidth <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_write_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string

Name	Description	Schema
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

base_performance_metrics_by_nfsv3

Performance metrics for the nfs collected at twenty second interval.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_md_latency <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : microseconds	number (float)
failed_md_ops <i>optional</i>	Total failed md operations per second.	number (float)
md_ops <i>optional</i>	Total md operations per second.	number (float)
node_id <i>optional</i>	Unique identifier of the nfs.	string
read_iops <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_iops <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : ios/sec	number (float)
write_iops <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : ios/sec	number (float)

base_performance_metrics_by_nfsv3_rollup

Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_failed_md_ops <i>optional</i>	Average failed operations per second.	number (float)
avg_md_latency <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_md_ops <i>optional</i>	Average md operations per second.	number (float)
avg_read_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
avg_total_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_avg_md_latency <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_failed_md_ops <i>optional</i>	Max failed operations per second.	number (float)
max_md_ops <i>optional</i>	Max md operations per second. Was added in version 3.5.0.0.	number (float)
max_read_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_total_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_write_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string

Name	Description	Schema
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values.If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

base_performance_metrics_by_nfsv4

Performance metrics for the nfs collected at twenty second interval.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_md_latency <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : microseconds	number (float)
failed_md_ops <i>optional</i>	Total failed md operations per second.	number (float)
md_ops <i>optional</i>	Total md operations per second.	number (float)
node_id <i>optional</i>	Unique identifier of the nfs.	string
read_iops <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_iops <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : ios/sec	number (float)
write_iops <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : ios/sec	number (float)

base_performance_metrics_by_nfsv4_rollup

Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_failed_md_ops <i>optional</i>	Average failed operations per second.	number (float)
avg_md_latency <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_md_ops <i>optional</i>	Average md operations per second.	number (float)
avg_read_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
avg_total_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_avg_md_latency <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_failed_md_ops <i>optional</i>	Max failed operations per second.	number (float)
max_md_ops <i>optional</i>	Max md operations per second. Was added in version 3.5.0.0.	number (float)
max_read_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_total_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_write_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string

Name	Description	Schema
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

base_performance_metrics_by_node

Performance metrics for the node collected at twenty second interval.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
avg_copy_io_size <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_copy_latency <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)
avg_mirror_overhead_latency <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)

Name	Description	Schema
avg_mirror_write_latency <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_unmap_io_size <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_unmap_latency <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)
avg_write_latency <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_zero_io_size <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_zero_latency <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)

Name	Description	Schema
copy_bandwidth <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes/sec	number (float)
copy_iops <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : ios/sec	number (float)
current_logins <i>optional</i>	The number of logins to the target from initiators. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
io_workload_cpu_utilization <i>optional</i>	The percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests.	number (float)
mirror_write_bandwidth <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
mirror_write_iops <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : ios/sec	number (float)
node_id <i>optional</i>	Unique identifier representing a specific node.	string
read_bandwidth <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
read_iops <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
total_iops <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : ios/sec	number (float)
unaligned_bandwidth <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
unaligned_iops <i>optional</i>	Unaligned total input/output per second. Was deprecated in version 2.1.0.0.	number (float)
unaligned_read_bandwidth <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
unaligned_read_iops <i>optional</i>	Unaligned read input/output per second. Was deprecated in version 2.1.0.0.	number (float)
unaligned_write_bandwidth <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
unaligned_write_iops <i>optional</i>	Unaligned write input/output per second. Was deprecated in version 2.1.0.0.	number (float)
unmap_bandwidth <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes/sec	number (float)

Name	Description	Schema
unmap_iops <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
write_iops <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : ios/sec	number (float)
zero_bandwidth <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes/sec	number (float)
zero_iops <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : ios/sec	number (float)

base_performance_metrics_by_node_rollup

Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
avg_copy_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)

Name	Description	Schema
avg_copy_io_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_copy_iops <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_copy_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_current_logins <i>optional</i>	Average number of logins to the target from initiators. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
avg_io_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_io_workload_cpu_utilization <i>optional</i>	The average percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests. Derived from an average of utilization across all cores on the node.	number (float)
avg_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_mirror_overhead_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
avg_mirror_write_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_mirror_write_iops <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_mirror_write_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
avg_total_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number
avg_unaligned_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_unaligned_iops <i>optional</i>	Average unaligned total input/output per second. Was deprecated in version 2.1.0.0.	number (float)
avg_unaligned_read_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_unaligned_read_iops <i>optional</i>	Average unaligned read input/output per second. Was deprecated in version 2.1.0.0.	number (float)
avg_unaligned_write_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_unaligned_write_iops <i>optional</i>	Average unaligned write input/output per second. Was deprecated in version 2.1.0.0.	number (float)

Name	Description	Schema
avg_unmap_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_unmap_io_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_unmap_iops <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_unmap_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_write_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_write_iops <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
avg_write_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_zero_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_zero_io_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_zero_iops <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_zero_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_copy_io_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_copy_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_io_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_mirror_overhead_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_mirror_write_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_unmap_io_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
max_avg_unmap_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_zero_io_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_zero_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_copy_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_copy_ios <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_current_logins <i>optional</i>	Maximum number of logins to the target from initiators. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
max_io_workload_cpu_utilization <i>optional</i>	The maximum percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests. Derived from an average of utilization across all cores on the node.	number (float)
max_mirror_write_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_mirror_write_iops <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_read_iops <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_total_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_total_iops <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number
max_unaligned_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
max_unaligned_iops <i>optional</i>	Maximum unaligned total input/output per second. Was deprecated in version 2.1.0.0.	number (float)
max_unaligned_read_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_unaligned_read_iops <i>optional</i>	Maximum unaligned read input/output per second. Was deprecated in version 2.1.0.0.	number (float)
max_unaligned_write_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_unaligned_write_iops <i>optional</i>	Maximum unaligned write input/output per second. Was deprecated in version 2.1.0.0.	number (float)
max_unmap_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_unmap_iops <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
max_write_ios <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_zero_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_zero_ios <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
node_id <i>optional</i>	Unique identifier representing a specific node.	string
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_performance_metrics_by_smb_cache

Performance metrics for the smb cache collected at twenty second interval.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
hash_avg_lateness <i>optional</i>	Performance metrics for the smb cache collected at twenty second interval. Unit : microseconds	number (float)
hash_avg_size <i>optional</i>	Average hash size.	number (float)

Name	Description	Schema
hash_max_latency <i>optional</i>	Performance metrics for the smb cache collected at twenty second interval. Unit : microseconds	number (float)
hash_max_size <i>optional</i>	Max hash size.	number (float)
hash_min_latency <i>optional</i>	Performance metrics for the smb cache collected at twenty second interval. Unit : microseconds	number (float)
hash_min_size <i>optional</i>	Max hash size.	number (float)
max_used_threads <i>optional</i>	Max used threads	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_rejected_tasks <i>optional</i>	Total rejected task.	number (float)
total_tasks <i>optional</i>	Total tasks.	number (float)

base_performance_metrics_by_smb_cache_rollup

Performance metrics nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
hash_avg_latency <i>optional</i>	Performance metrics nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
hash_avg_size <i>optional</i>	Average hash size.	number (float)
hash_max_avg_latency <i>optional</i>	Performance metrics nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
hash_max_avg_size <i>optional</i>	Average max hash size.	number (float)
hash_max_latency <i>optional</i>	Performance metrics nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
hash_max_size <i>optional</i>	Max hash size.	number (float)
hash_min_latency <i>optional</i>	Performance metrics nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
hash_min_size <i>optional</i>	Max hash size.	number (float)
max_used_threads <i>optional</i>	Max used threads	number (float)

Name	Description	Schema
node_id <i>optional</i>	Unique identifier of the node.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_rejected_tasks <i>optional</i>	Total rejected task.	number (float)
total_tasks <i>optional</i>	Total tasks.	number (float)

base_performance_metrics_by_smb_client

Performance metrics for the smb client collected at twenty second interval.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_io_size <i>optional</i>	Performance metrics for the smb client collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Performance metrics for the smb client collected at twenty second interval. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for the smb client collected at twenty second interval. Unit : microseconds	number (float)

Name	Description	Schema
avg_read_size <i>optional</i>	Performance metrics for the smb client collected at twenty second interval. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics for the smb client collected at twenty second interval. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics for the smb client collected at twenty second interval. Unit : bytes	number (float)
current_tcp_connections <i>optional</i>	Current TCP Connections. Was added in version 4.0.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
node_id <i>optional</i>	Unique identifier of the node.	string
read_iops <i>optional</i>	Performance metrics for the smb client collected at twenty second interval. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_calls <i>optional</i>	Total calls.	number (float)
total_iops <i>optional</i>	Performance metrics for the smb client collected at twenty second interval. Unit : ios/sec	number (float)

Name	Description	Schema
write_iops <i>optional</i>	Performance metrics for the smb client collected at twenty second interval. Unit : ios/sec	number (float)

base_performance_metrics_by_smb_client_rollup

Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_calls <i>optional</i>	Average calls.	number (float)
avg_io_size <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_iops <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_latency <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_iops <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
avg_read_latency <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_write_ios <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_read_size <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_size <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_calls <i>optional</i>	Maximum calls.	number (float)
max_iops <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_read_iops <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_write_iops <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
node_id <i>optional</i>	Unique identifier of the node.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

base_performance_metrics_by_smb_node

Performance metrics for the smb node collected at twenty second interval.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_io_size <i>optional</i>	Performance metrics for the smb node collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics for the smb node collected at twenty second interval. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)

Name	Description	Schema
avg_write_size <i>optional</i>	Performance metrics for the smb node collected at twenty second interval. Unit : bytes	number (float)
current_tcp_connections <i>optional</i>	Current TCP Connections. Was added in version 3.5.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
node_id <i>optional</i>	Unique identifier of the node.	string
read_bandwidth <i>optional</i>	Performance metrics for the smb node collected at twenty second interval. Unit : bytes	number (float)
read_iops <i>optional</i>	Total read operations per second.	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the smb node collected at twenty second interval. Unit : bytes	number (float)
total_calls <i>optional</i>	Total calls.	number (float)
total_iops <i>optional</i>	Total read and write operations per second.	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the smb node collected at twenty second interval. Unit : bytes	number (float)

Name	Description	Schema
write_iops <i>optional</i>	Total write operations per second.	number (float)

base_performance_metrics_by_smb_node_rollup

Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_calls <i>optional</i>	Average calls.	number (float)
avg_current_tcp_connections <i>optional</i>	Average TCP Connections. Was added in version 3.5.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
avg_io_size <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_iops <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_latency <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_bandwidth <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
avg_read_iops <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_read_lateness <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_write_bandwidth <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_write_iops <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_lateness <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
avg_write_size <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_size <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_calls <i>optional</i>	Maximum calls.	number (float)

Name	Description	Schema
max_current_tcp_connections <i>optional</i>	Max TCP Connections. Was added in version 3.5.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
max_iops <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_read_iops <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_total_bandwidth <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_write_bandwidth <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_write_iops <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string

Name	Description	Schema
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

base_performance_metrics_by_smb_v1_builtin_client

Performance metrics for the smb v1 client collected at twenty second interval.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_io_size <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : microseconds	number (float)

Name	Description	Schema
avg_write_size <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : bytes	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string
read_iops <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_calls <i>optional</i>	Total calls.	number (float)
total_iops <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : ios/sec	number (float)
write_iops <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : ios/sec	number (float)

base_performance_metrics_by_smb_v1_builtin_client_rollup

Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_calls <i>optional</i>	Average calls.	number (float)
avg_io_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
avg_write_ios <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
max_avg_write_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_calls <i>optional</i>	Maximum calls.	number (float)
max_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_read_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_write_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). ' Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

base_performance_metrics_by_smb_v1_node

Performance metrics for the smb v1 node collected at twenty second interval.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_io_size <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : bytes	number (float)
current_tcp_connections <i>optional</i>	Current TCP Connections. Was added in version 3.5.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
node_id <i>optional</i>	Unique identifier of the node.	string

Name	Description	Schema
read_iops <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_calls <i>optional</i>	Total calls.	number (float)
total_iops <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : ios/sec	number (float)
write_iops <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : ios/sec	number (float)

base_performance_metrics_by_smb_v1_node_rollup

Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_calls <i>optional</i>	Average calls.	number (float)
avg_current_tcp_connections <i>optional</i>	Average TCP Connections. Was added in version 3.5.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
avg_io_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_iops <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_iops <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_write_iops <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
avg_write_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_write_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_calls <i>optional</i>	Maximum calls.	number (float)
max_current_tcp_connections <i>optional</i>	Max TCP Connections. Was added in version 3.5.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
max_iops <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_read_iops <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_write_iops <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

base_performance_metrics_by_smb_v2_builtin_client

Performance metrics for the smb v1 client collected at twenty second interval.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_io_size <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : bytes	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string
read_iops <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : ios/sec	number (float)

Name	Description	Schema
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_calls <i>optional</i>	Total calls.	number (float)
total_iops <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : ios/sec	number (float)
write_iops <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : ios/sec	number (float)

base_performance_metrics_by_smb_v2_builtin_client_rollup

Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_calls <i>optional</i>	Average calls.	number (float)
avg_io_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
avg_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_write_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
avg_write_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_calls <i>optional</i>	Maximum calls.	number (float)

Name	Description	Schema
max_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_read_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_write_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

base_performance_metrics_by_smb_v2_node

Performance metrics for the smb v1 node collected at twenty second interval.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_io_size <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : bytes	number (float)

Name	Description	Schema
avg_latency <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : bytes	number (float)
current_tcp_connections <i>optional</i>	Current TCP Connections. Was added in version 3.5.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
node_id <i>optional</i>	Unique identifier of the node.	string
read_iops <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)

Name	Description	Schema
total_calls <i>optional</i>	Total calls.	number (float)
total_iops <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : ios/sec	number (float)
write_iops <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : ios/sec	number (float)

base_performance_metrics_by_smb_v2_node_rollup

Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_calls <i>optional</i>	Average calls.	number (float)
avg_current_tcp_connections <i>optional</i>	Average TCP Connections. Was added in version 3.5.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
avg_io_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_iops <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
avg_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_iops <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_write_iops <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
max_avg_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_calls <i>optional</i>	Maximum calls.	number (float)
max_current_tcp_connections <i>optional</i>	Max TCP Connections. Was added in version 3.5.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
max_iops <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_read_iops <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_write_iops <i>optional</i>	Maximum write operations per second.	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

base_performance_metrics_by_vg

Performance metrics for the volumes in a volume group collected at twenty second interval.

Name	Description	Schema
avg_io_size <i>optional</i>	Performance metrics for the volumes in a volume group collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)

Name	Description	Schema
avg_mirror_overhead_latency <i>optional</i>	Performance metrics for the volumes in a volume group collected at twenty second interval. Unit : usec	number (float)
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics for the volumes in a volume group collected at twenty second interval. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics for the volumes in a volume group collected at twenty second interval. Unit : bytes	number (float)
mirror_write_bandwidth <i>optional</i>	Performance metrics for the volumes in a volume group collected at twenty second interval. Unit : bytes/sec	number (float)
mirror_write_iops <i>optional</i>	Performance metrics for the volumes in a volume group collected at twenty second interval. Unit : IO/sec	number (float)
read_bandwidth <i>optional</i>	Performance metrics for the volumes in a volume group collected at twenty second interval. Unit : bytes	number (float)
read_iops <i>optional</i>	Total read operations per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the volumes in a volume group collected at twenty second interval. Unit : bytes	number (float)
total_iops <i>optional</i>	Total read and write operations per second.	number (float)
vg_id <i>optional</i>	Unique identifier representing a volume group.	string
write_bandwidth <i>optional</i>	Performance metrics for the volumes in a volume group collected at twenty second interval. Unit : bytes	number (float)
write_iops <i>optional</i>	Total write operations per second.	number (float)

base_performance_metrics_by_vg_rollup

Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0.

Name	Description	Schema
avg_io_size <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Weighted average latency in microseconds.	number (float)
avg_mirror_overhead_latency <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : usec	number (float)

Name	Description	Schema
avg_mirror_write_bandwidth <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
avg_mirror_write_iops <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : IO/sec	number (float)
avg_read_bandwidth <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Average reads per second.	number (float)
avg_read_latency <i>optional</i>	Weighted average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Average total input and output operations per second.	number (float)
avg_write_bandwidth <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_write_iops <i>optional</i>	Average writes per second.	number (float)
avg_write_latency <i>optional</i>	Weighted average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)
max_avg_io_size <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Maximum of average latency in microseconds.	number (float)
max_avg_mirror_overhead_latency <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : usec	number (float)
max_avg_read_latency <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
max_avg_read_size <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)

Name	Description	Schema
max_avg_write_size <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)
max_mirror_write_bandwidth <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
max_mirror_write_iops <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : IO/sec	number (float)
max_read_bandwidth <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)
max_read_iops <i>optional</i>	Maximum reads per second.	number (float)
max_total_bandwidth <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)
max_total_iops <i>optional</i>	Maximum totals per second.	number (float)
max_write_bandwidth <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_write_iops <i>optional</i>	Maximum writes per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
vg_id <i>optional</i>	Unique identifier representing a volume group.	string

base_performance_metrics_by_vm

Performance metrics for the virtual machine collected at twenty second interval.

Name	Description	Schema
avg_io_size <i>optional</i>	Performance metrics for the virtual machine collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics for the virtual machine collected at twenty second interval. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)

Name	Description	Schema
avg_write_size <i>optional</i>	Performance metrics for the virtual machine collected at twenty second interval. Unit : bytes	number (float)
read_bandwidth <i>optional</i>	Performance metrics for the virtual machine collected at twenty second interval. Unit : bytes	number (float)
read_iops <i>optional</i>	Total read operations per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the virtual machine collected at twenty second interval. Unit : bytes	number (float)
total_iops <i>optional</i>	Total read and write operations per second.	number (float)
vm_id <i>optional</i>	Unique identifier representing a specific virtual machine.	string
write_bandwidth <i>optional</i>	Performance metrics for the virtual machine collected at twenty second interval. Unit : bytes	number (float)
write_iops <i>optional</i>	Total write operations per second.	number (float)

base_performance_metrics_by_vm_rollup

Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
avg_io_size <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_latency <i>optional</i>	Weighted average latency in microseconds.	number (float)
avg_read_bandwidth <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Average reads per second.	number (float)
avg_read_latency <i>optional</i>	Weighted average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Average total input and output operations per second.	number (float)
avg_write_bandwidth <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
avg_write_iops <i>optional</i>	Average writes per second.	number (float)
avg_write_latency <i>optional</i>	Weighted average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_io_size <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Maximum of average latency in microseconds.	number (float)
max_avg_read_latency <i>optional</i>	Maximum read latency in microseconds.	number (float)
max_avg_read_size <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
max_avg_write_size <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
max_read_bandwidth <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_read_ios <i>optional</i>	Maximum reads per second.	number (float)
max_total_bandwidth <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_total_ios <i>optional</i>	Maximum totals per second.	number
max_write_bandwidth <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_write_ios <i>optional</i>	Maximum writes per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
vm_id <i>optional</i>	Unique identifier representing a specific virtual machine.	string

base_performance_metrics_by_volume

Performance metrics for the volume collected at twenty second interval.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
avg_io_size <i>optional</i>	Performance metrics for the volume collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)
avg_mirror_overhead_latency <i>optional</i>	Average additional latency incurred on the source in order to do the remote mirror writes in microseconds. This applies to metro volumes in the active-active state. Was added in version 3.0.0.0.	number (float)
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics for the volume collected at twenty second interval. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics for the volume collected at twenty second interval. Unit : bytes	number (float)
mirror_write_bandwidth <i>optional</i>	Performance metrics for the volume collected at twenty second interval. Unit : bytes	number (float)
mirror_write_iops <i>optional</i>	Total mirror write operations per second. This applies to metro volumes in the active-active state. Was added in version 3.0.0.0.	number (float)

Name	Description	Schema
read_bandwidth <i>optional</i>	Performance metrics for the volume collected at twenty second interval. Unit : bytes	number (float)
read_iops <i>optional</i>	Total read operations per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the volume collected at twenty second interval. Unit : bytes	number (float)
total_iops <i>optional</i>	Total read and write operations per second.	number (float)
volume_id <i>optional</i>	Unique identifier representing a specific volume.	string
write_bandwidth <i>optional</i>	Performance metrics for the volume collected at twenty second interval. Unit : bytes	number (float)
write_iops <i>optional</i>	Total write operations per second.	number (float)

base_performance_metrics_by_volume_rollup

Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string

Name	Description	Schema
avg_io_size <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_latency <i>optional</i>	Weighted average latency in microseconds.	number (float)
avg_mirror_overhead_latency <i>optional</i>	Weighted additional latency incurred on the source in order to do the remote mirror writes in microseconds. This applies to metro volumes in the active-active state. Was added in version 3.0.0.0.	number (float)
avg_mirror_write_bandwidth <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_mirror_write_iops <i>optional</i>	Average mirror write operations per second. This applies to metro volumes in the active-active state. Was added in version 3.0.0.0.	number (float)
avg_read_bandwidth <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Average reads per second.	number (float)
avg_read_latency <i>optional</i>	Weighted average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
avg_total_bandwidth <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Average total input and output operations per second.	number
avg_write_bandwidth <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_write_iops <i>optional</i>	Average writes per second.	number (float)
avg_write_latency <i>optional</i>	Weighted average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_io_size <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Maximum of average latency in microseconds.	number (float)
max_avg_mirror_overhead_latency <i>optional</i>	Maximum of average additional latency incurred on the source in order to do the remote mirror writes in microseconds. This applies to metro volumes in the active-active state. Was added in version 3.0.0.0.	number (float)

Name	Description	Schema
max_avg_read_latency <i>optional</i>	Maximum read latency in microseconds.	number (float)
max_avg_read_size <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
max_avg_write_size <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_mirror_write_bandwidth <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_mirror_write_iops <i>optional</i>	Maximum mirror write operations per second. This applies to metro volumes in the active-active state. Was added in version 3.0.0.0.	number (float)
max_read_bandwidth <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_read_iops <i>optional</i>	Maximum reads per second.	number (float)
max_total_bandwidth <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
max_total_iops <i>optional</i>	Maximum totals per second.	number
max_write_bandwidth <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_write_iops <i>optional</i>	Maximum writes per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
volume_id <i>optional</i>	Unique identifier representing a specific volume.	string

base_performance_metrics_file_by_appliance

Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance.	string
avg_io_size <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)

Name	Description	Schema
avg_read_latency <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
read_bandwidth <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
read_iops <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
total_iops <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
write_iops <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)

base_performance_metrics_file_by_appliance_rollup

Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period.

Was added in version 2.0.0.0.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of an appliance.	string
avg_io_size <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)

Name	Description	Schema
avg_read_bandwidth <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
avg_total_iops <i>optional</i>	Average read and write operations per second.	number (float)
avg_write_bandwidth <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
avg_write_ios <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_io_size <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_read_size <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
max_avg_write_size <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_iops <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_read_iops <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)

Name	Description	Schema
max_total_bandwidth <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_write_ios <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

base_performance_metrics_file_by_cluster

Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0.

Name	Description	Schema
avg_io_size <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_latency <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
cluster_id <i>optional</i>	Unique identifier of the cluster. Was added in version 3.5.0.0.	string
read_bandwidth <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
read_iops <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
total_iops <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
write_iops <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)

base_performance_metrics_file_by_cluster_rollup

Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period.

Was added in version 2.0.0.0.

Name	Description	Schema
avg_io_size <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_latency <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_read_bandwidth <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
avg_read_iops <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
avg_total_iops <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_write_bandwidth <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
avg_write_iops <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
cluster_id <i>optional</i>	Unique identifier of the cluster. Was added in version 3.5.0.0.	string

Name	Description	Schema
max_avg_io_size <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_iops <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_read_iops <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
max_total_bandwidth <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_write_iops <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)

Name	Description	Schema
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

base_performance_metrics_file_by_node

Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_io_size <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)

Name	Description	Schema
avg_write_size <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string
read_bandwidth <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
read_iops <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
total_iops <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
write_iops <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)

base_performance_metrics_file_by_node_rollup

Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period.

Was added in version 2.0.0.0.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_io_size <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_read_bandwidth <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
avg_read_iops <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
avg_total_iops <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_write_bandwidth <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
avg_write_ios <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_io_size <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_read_size <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_iops <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_read_iops <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)

Name	Description	Schema
max_total_bandwidth <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_write_ios <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

base_response

Base response object Filtering on the fields of this embedded resource is not supported.

Name	Schema
response_type <i>required</i>	string

base_space_metrics_by_appliance

Space metrics for the appliance collected at five minute interval.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
data_physical_used <i>optional</i>	This metric represents amount of physical space user data occupies after deduplication and compression. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression.	number (float)
efficiency_ratio <i>optional</i>	The overall efficiency is computed as a ratio of the total space provisioned to physical used space. For example, ten 2 GB volumes were provisioned and 1 GB of data is written to each of them. Each of the volumes has one snapshot as well, for another ten 2 GB volumes. All volumes are thinly provisioned with deduplication and compression applied, there is 4 GB of physical space used. Overall efficiency would be (20 * 2 GB) / 4 GB or 10:1. The efficiency_ratio value will be 10 in this example.	number (float)
logical_provisioned <i>optional</i>	Space metrics for the appliance collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used <i>optional</i>	Space metrics for the appliance collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
logical_used_file_system <i>optional</i>	Space metrics for the appliance collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used_volume <i>optional</i>	Space metrics for the appliance collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used_vol <i>optional</i>	Space metrics for the appliance collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
physical_total <i>optional</i>	Total combined space on the physical drives of the appliance available for data. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
physical_used <i>optional</i>	Total physical space consumed in the appliance, accounting for all efficiency mechanisms, as well as all data protection. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
reducible_data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression, based on reducible data only. Was added in version 4.0.0.0.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
shared_logical_used <i>optional</i>	Amount of space the volume family needs to hold the data written by host and shared by snaps and fast-clones in the family. This does not include deduplication or compression. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
shared_logical_used_file_system <i>optional</i>	Space metrics for the appliance collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
shared_logical_used_volume <i>optional</i>	Space metrics for the appliance collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
shared_logical_used_vvol <i>optional</i>	Space metrics for the appliance collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
snapshot_savings <i>optional</i>	Ratio of the amount of space that would have been used by snapshots if space efficiency was not applied to logical space used solely by snapshots. For example, an object is provisioned as 1 GB and it has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be $(1 \text{ GB} + 1 \text{ GB}) / (0.2 \text{ GB} + 0.2 \text{ GB})$ or 5:1. The snapshot_savings value will be 5 in this case.	number (float)
system_free_space <i>optional</i>	Space formerly used by the system for internal needs that will be reused for the same purpose as additional storage is provisioned. Was added in version 3.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
thin_savings <i>optional</i>	Ratio of all the vVol provisioned to data they contain. This is the ratio of logical_provisioned to logical_used. For example, a cluster has two 2 GB objects and have written 500 MB bytes of data to them. The thin savings would be $(2 * 2 \text{ GB}) / (2 * 0.5 \text{ GB})$ or 4:1, so the thin_savings value would be 4.0.	number (float)
timestamp <i>optional</i>	End of sample period.	string (date-time)

Name	Description	Schema
unreducible_data <i>optional</i>	Space metrics for the appliance collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

base_space_metrics_by_appliance_rollup

Summary of appliance level space metric data for a specific period of time, beginning with timestamp and including the maximum and final values for that period. Current support is for a time period of one hour and one day.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
last_data_physical_used <i>optional</i>	Last physical used space for data during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_data_reduction <i>optional</i>	Last data reduction space during the period.	number (float)
last_efficiency_ratio <i>optional</i>	Last efficiency ratio during the period.	number (float)
last_logical_provisioned <i>optional</i>	Last logical total space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used <i>optional</i>	Last logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used_file_system <i>optional</i>	Last logical used space for file systems during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
last_logical_used_volume <i>optional</i>	Last logical used space for block volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used_vvol <i>optional</i>	Summary of appliance level space metric data for a specific period of time, beginning with timestamp and including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_physical_total <i>optional</i>	Last physical total space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_physical_used <i>optional</i>	Last physical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_reducible_data_reduction <i>optional</i>	Last reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
last_shared_logical_used <i>optional</i>	Last shared logical used during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_shared_logical_used_file_system <i>optional</i>	Last shared logical used space for file systems during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_shared_logical_used_volume <i>optional</i>	Last shared logical used space for block volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
last_shared_logical_used_vvol <i>optional</i>	Summary of appliance level space metric data for a specific period of time, beginning with timestamp and including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_snapshot_savings <i>optional</i>	Last snapshot savings space during the period.	number (float)
last_system_free_space <i>optional</i>	Last system free space during the period. Was added in version 3.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_thin_savings <i>optional</i>	Last thin savings ratio during the period.	number (float)
last_unreducible_data <i>optional</i>	Summary of appliance level space metric data for a specific period of time, beginning with timestamp and including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_data_physical_used <i>optional</i>	Maximum physical used space for data during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_data_reduction <i>optional</i>	Maximum data reduction space during the period.	number (float)
max_efficiency_ratio <i>optional</i>	Maximum efficiency ratio during the period.	number (float)

Name	Description	Schema
max_logical_provisioned <i>optional</i>	Maximum logical total space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used <i>optional</i>	Maximum logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used_file_system <i>optional</i>	Maximum logical used space for file systems during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used_volume <i>optional</i>	Maximum logical used space for block volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used_vvol <i>optional</i>	Maximum logical used space for virtual volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_physical_total <i>optional</i>	Maximum physical total space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_physical_used <i>optional</i>	Maximum physical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_reducible_data_reduction <i>optional</i>	Maximum reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
max_shared_logical_used <i>optional</i>	Max shared logical used during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_shared_logical_used_file_system <i>optional</i>	Maximum shared logical used space for file volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
max_shared_logical_used_volume <i>optional</i>	Maximum shared logical used space for block volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_shared_logical_used_vol <i>optional</i>	Maximum shared logical used space for virtual volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_snapshot_savings <i>optional</i>	Maximum snapshot savings space during the period.	number (float)
max_system_free_space <i>optional</i>	Maximum system free space during the period. Was added in version 3.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_thin_savings <i>optional</i>	Maximum thin savings ratio during the period.	number (float)
max_unreducible_data <i>optional</i>	Summary of appliance level space metric data for a specific period of time, beginning with timestamp and including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_space_metrics_by_cluster

Space metrics for the cluster collected at five minute interval.

Name	Description	Schema
cluster_id <i>optional</i>	Identifier of the cluster.	string
data_physical_used <i>optional</i>	This metric represents total amount of physical space user data occupies after deduplication and compression. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression.	number (float)
efficiency_ratio <i>optional</i>	The overall efficiency is computed as a ratio of the total space provisioned to physical used space. For example, ten 2 GB volumes were provisioned and 1 GB of data is written to each of them. Each of the volumes has one snapshot as well, for another ten 2 GB volumes. All volumes are thinly provisioned with deduplication and compression applied, there is 4 GB of physical space used. Overall efficiency would be (20 * 2 GB) / 4 GB or 10:1. The efficiency_ratio value will be 10 in this example.	number (float)
logical_provisioned <i>optional</i>	Space metrics for the cluster collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used <i>optional</i>	Space metrics for the cluster collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used_file_system <i>optional</i>	Space metrics for the cluster collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
logical_used_volume <i>optional</i>	Space metrics for the cluster collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used_vol <i>optional</i>	Space metrics for the cluster collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
physical_total <i>optional</i>	The total combined space on the physical drives of the cluster available for data. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
physical_used <i>optional</i>	The total physical space consumed in the cluster, accounting for all efficiency mechanisms, as well as all data protection. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
reducible_data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression, based on reducible data only. Was added in version 4.0.0.0.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
shared_logical_used <i>optional</i>	Cluster shared logical used is sum of appliances' shared logical used in the cluster. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
shared_logical_used_file_system <i>optional</i>	Space metrics for the cluster collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
shared_logical_used_volume <i>optional</i>	Space metrics for the cluster collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
shared_logical_used_vvol <i>optional</i>	Space metrics for the cluster collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
snapshot_savings <i>optional</i>	Ratio of the amount of space that would have been used by snapshots if space efficiency was not applied to logical space used solely by snapshots. For example, an object is provisioned as 1 GB and it has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be (1 GB + 1 GB) / (0.2 GB + 0.2 GB) or 5:1. The snapshot_savings value will be 5 in this case.	number (float)
system_free_space <i>optional</i>	Space formerly used by the system for internal needs that will be reused for the same purpose as additional storage is provisioned. Was added in version 3.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
thin_savings <i>optional</i>	Ratio of all the vVol provisioned to data they contain. This is the ratio of logical_provisioned to logical_used. For example, a cluster has two 2 GB objects and have written 500 MB bytes of data to them. The thin savings would be (2 * 2 GB) / (2 * 0.5 GB) or 4:1, so the thin_savings value would be 4.0.	number (float)
timestamp <i>optional</i>	End of sample period.	string (date-time)
unreducible_data <i>optional</i>	Space metrics for the cluster collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

base_space_metrics_by_cluster_rollup

Summary of cluster level space metric data for a specific period of time, beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day.

Name	Description	Schema
cluster_id <i>optional</i>	Identifier of the cluster.	string
last_data_physical_used <i>optional</i>	Last physical used space for data during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_data_reduction <i>optional</i>	Last data reduction space during the period.	number (float)
last_efficiency_ratio <i>optional</i>	Last efficiency ratio during the period.	number (float)
last_logical_provisioned <i>optional</i>	Last logical total space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used <i>optional</i>	Last logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used_file_system <i>optional</i>	Last logical used space for file systems during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used_volume <i>optional</i>	Last logical used space for block volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used_vvol <i>optional</i>	Last logical used space for virtual volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
last_physical_total <i>optional</i>	Last physical total space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_physical_used <i>optional</i>	Last physical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_reducible_data_reduction <i>optional</i>	Last reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
last_shared_logical_used <i>optional</i>	Last shared logical used during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_shared_logical_used_file_system <i>optional</i>	Last shared logical used space for file systems during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_shared_logical_used_volume <i>optional</i>	Last shared logical used space for block volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_shared_logical_used_volume <i>optional</i>	Summary of cluster level space metric data for a specific period of time, beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_snapshot_savings <i>optional</i>	Last snapshot savings space during the period.	number (float)
last_system_free_space <i>optional</i>	Last system free space during the period. Was added in version 3.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
last_thin_savings <i>optional</i>	Last thin savings ratio during the period.	number (float)
last_unreducible_data <i>optional</i>	Summary of cluster level space metric data for a specific period of time, beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_data_physical_used <i>optional</i>	Maximum physical used space for data during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_data_reduction <i>optional</i>	Maximum data reduction space during the period.	number (float)
max_efficiency_ratio <i>optional</i>	Maximum efficiency ratio during the period.	number (float)
max_logical_provisioned <i>optional</i>	Maximum logical total space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used <i>optional</i>	Maximum logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used_file_system <i>optional</i>	Maximum logical used space for file systems during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used_volume <i>optional</i>	Maximum logical used space for block volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
max_logical_used_vvol <i>optional</i>	Maximum logical used space for virtual volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_physical_total <i>optional</i>	Maximum physical total space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_physical_used <i>optional</i>	Maximum physical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_reducible_data_reduction <i>optional</i>	Max reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
max_shared_logical_used <i>optional</i>	Maximum shared logical used during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_shared_logical_used_file_system <i>optional</i>	Maximum shared logical used space for file systems during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_shared_logical_used_volume <i>optional</i>	Maximum shared logical used space for block volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_shared_logical_used_vvol <i>optional</i>	Maximum shared logical used space for virtual volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_snapshot_savings <i>optional</i>	Maximum snapshot savings space during the period.	number (float)

Name	Description	Schema
max_system_free_space <i>optional</i>	Maximum system free space during the period. Was added in version 3.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_thin_savings <i>optional</i>	Maximum thin savings ratio during the period.	number (float)
max_unreducible_data <i>optional</i>	Summary of cluster level space metric data for a specific period of time, beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_space_metrics_by_file_system

Space metrics for the file system collected at five minute interval. Was added in version 3.5.0.0.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance.	string
data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression. Was added in version 4.1.0.0.	number (float)
file_system_id <i>optional</i>	Unique identifier of the file system.	string
logical_provisioned <i>optional</i>	Last logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
logical_used <i>optional</i>	Last logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
reducible_data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression, based on reducible data only. A null value indicates insufficient data to calculate the reducible data reduction. Was added in version 4.1.0.0.	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). ' Minimum value : 0 Maximum value : 2147483647	integer (int32)
thin_savings <i>optional</i>	Last thin savings ratio during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)
unreducible_data <i>optional</i>	Space metrics for the file system collected at five minute interval. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

base_space_metrics_by_file_system_rollup

Summary of file system level space metric data for the period beginning with timestamp, including the average and maximum values for that period.

Was added in version 3.5.0.0.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance.	string

Name	Description	Schema
file_system_id <i>optional</i>	Unique identifier of the file system.	string
last_data_reduction <i>optional</i>	Last data reduction ratio during the period. Was added in version 4.1.0.0.	number (float)
last_logical_provisioned <i>optional</i>	Last logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used <i>optional</i>	Last logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_reducible_data_reduction <i>optional</i>	Last reducible data reduction ratio during the period. A null value indicates insufficient data to calculate the reducible data reduction. Was added in version 4.1.0.0.	number (float)
last_thin_savings <i>optional</i>	Last thin savings ratio during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_unreducible_data <i>optional</i>	Summary of file system level space metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_provisioned <i>optional</i>	Last logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used <i>optional</i>	Last logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
max_data_reduction <i>optional</i>	Max data reduction ratio during the period. Was added in version 4.1.0.0.	number (float)
max_logical_provisioned <i>optional</i>	Max logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used <i>optional</i>	Max logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_reducible_data_reduction <i>optional</i>	Max reducible data reduction ratio during the period. A null value indicates insufficient data to calculate the reducible data reduction. Was added in version 4.1.0.0.	number (float)
max_thin_savings <i>optional</i>	Max thin savings ratio during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_unreducible_data <i>optional</i>	Summary of file system level space metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values.If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
thin_savings <i>optional</i>	Last thin savings ratio during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

base_space_metrics_by_storage_container

Space metrics of storage container aggregated from all appliances collected at five minute interval.

Name	Description	Schema
data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression. Was added in version 4.0.0.0.	number (float)
logical_provisioned <i>optional</i>	Space metrics of storage container aggregated from all appliances collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used <i>optional</i>	Space metrics of storage container aggregated from all appliances collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
reducible_data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression, based on reducible data only. Was added in version 4.0.0.0.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
shared_logical_used <i>optional</i>	Space metrics of storage container aggregated from all appliances collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
snap_clone_logical_used <i>optional</i>	Space metrics of storage container aggregated from all appliances collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
snapshot_savings <i>optional</i>	Ratio of the amount of space that would have been used by snapshots if space efficiency was not applied to logical space used solely by snapshots. For example, a volume is provisioned as 1 GB and it has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be $(1 \text{ GB} + 1 \text{ GB}) / (0.2 \text{ GB} + 0.2 \text{ GB})$ or 5:1. The snapshot_savings value will be 5 in this case.	number (float)
storage_container_id <i>optional</i>	Internal ID of the storage container.	string
thin_savings <i>optional</i>	Ratio of all the vVol provisioned to data they contain. This is the ratio of logical_provisioned to logical_used. For example, a SC has two 2 GB vVol's and have written 500 MB of data to them. The thin savings would be $(2 * 2 \text{ GB}) / (2 * 0.5 \text{ GB})$ or 4:1, so the thin_savings value would be 4.0. Was added in version 3.5.0.0.	number (float)
timestamp <i>optional</i>	End of sample period.	string (date-time)
unique_physical_used <i>optional</i>	Space metrics of storage container aggregated from all appliances collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
unreducible_data <i>optional</i>	Space metrics of storage container aggregated from all appliances collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

base_space_metrics_by_storage_container_rollup

Summary of storage container level space metric data for a specific period of time beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day.

Name	Description	Schema
last_data_reduction <i>optional</i>	Last data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
last_logical_provisioned <i>optional</i>	Last logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used <i>optional</i>	Last logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_reducible_data_reduction <i>optional</i>	Last reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
last_shared_logical_used <i>optional</i>	Last shared logical used space during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_snap_clone_logical_used <i>optional</i>	Summary of storage container level space metric data for a specific period of time beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_snapshot_savings <i>optional</i>	Last snapshot savings during the period.	number (float)
last_thin_savings <i>optional</i>	Last thin savings ratio during the period. Was added in version 3.5.0.0.	number (float)

Name	Description	Schema
last_unique_physical_used <i>optional</i>	Summary of storage container level space metric data for a specific period of time beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_unreducible_data <i>optional</i>	Summary of storage container level space metric data for a specific period of time beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_data_reduction <i>optional</i>	Max data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
max_logical_provisioned <i>optional</i>	Maximum logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used <i>optional</i>	Maximum logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_reducible_data_reduction <i>optional</i>	Max reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
max_shared_logical_used <i>optional</i>	Maximum shared logical used space during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
max_snap_clone_logical_used <i>optional</i>	Summary of storage container level space metric data for a specific period of time beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_snapshot_savings <i>optional</i>	Maximum snapshot savings during the period.	number (float)
max_thin_savings <i>optional</i>	Max thin savings ratio during the period. Was added in version 3.5.0.0.	number (float)
max_unique_physical_used <i>optional</i>	Summary of storage container level space metric data for a specific period of time beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_unreducible_data <i>optional</i>	Summary of storage container level space metric data for a specific period of time beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
storage_container_id <i>optional</i>	Internal ID of the storage container.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_space_metrics_by_vg

Space metrics for a volume group collected at a five minute interval.

Name	Description	Schema
data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression. Was added in version 4.0.0.0.	number (float)
logical_provisioned <i>optional</i>	Space metrics for a volume group collected at a five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used <i>optional</i>	Space metrics for a volume group collected at a five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
reducible_data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression, based on reducible data only. Was added in version 4.0.0.0.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
shared_logical_used <i>optional</i>	Space metrics for a volume group collected at a five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
snap_clone_logical_used <i>optional</i>	Space metrics for a volume group collected at a five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
snapshot_savings <i>optional</i>	Ratio of the amount of space that would have been used by snapshots in the volume group if space efficiency was not applied to logical space used solely by snapshots. For example, two volumes are provisioned as 1 GB and each has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be $(1\text{ GB} * 2 + 1\text{ GB} * 2) / (0.2\text{ GB} * 2 + 0.2\text{ GB} * 2)$ or 5:1. The snapshot_savings value will be 5 in this case.	number (float)
thin_savings <i>optional</i>	Ratio of all the volumes provisioned to data being written to them. For example, a volume group has two 2 GB volumes and have written 500 MB of data to them. The thin savings would be $(2 * 2\text{ GB}) / (2 * 0.5\text{ GB})$ or 4:1, so the thin_savings value would be 4.0.	number (float)
timestamp <i>optional</i>	End of sample period.	string (date-time)
unique_physical_used <i>optional</i>	Space metrics for a volume group collected at a five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
unreducible_data <i>optional</i>	Space metrics for a volume group collected at a five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
vg_id <i>optional</i>	Unique identifier representing a volume group.	string

base_space_metrics_by_vg_rollup

Summary of volume group level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period.

Name	Description	Schema
last_data_reduction <i>optional</i>	Last data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
last_logical_provisioned <i>optional</i>	Last logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used <i>optional</i>	Last logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_reducible_data_reduction <i>optional</i>	Last reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
last_shared_logical_used <i>optional</i>	Summary of volume group level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_snap_clone_logical_used <i>optional</i>	Last snap and clone logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_snapshot_savings <i>optional</i>	Last snapshot savings space during the period.	number (float)
last_thin_savings <i>optional</i>	Last thin savings ratio during the period.	number (float)
last_unique_physical_used <i>optional</i>	Summary of volume group level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
last_unreducible_data <i>optional</i>	Summary of volume group level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_data_reduction <i>optional</i>	Max data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
max_logical_provisioned <i>optional</i>	Max logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used <i>optional</i>	Maximum logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_reducible_data_reduction <i>optional</i>	Max reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
max_shared_logical_used <i>optional</i>	Summary of volume group level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_snap_clone_logical_used <i>optional</i>	Max snap and clone logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_snapshot_savings <i>optional</i>	Max snapshot savings space during the period.	number (float)

Name	Description	Schema
max_thin_savings <i>optional</i>	Max thin savings ratio during the period.	number (float)
max_unique_physical_used <i>optional</i>	Summary of volume group level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_unreducible_data <i>optional</i>	Summary of volume group level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
vg_id <i>optional</i>	Unique identifier representing a specific volume group.	string

base_space_metrics_by_vm

Space metrics for the VM collected at five minute interval.

Name	Description	Schema
data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression. Was added in version 4.0.0.0.	number (float)

Name	Description	Schema
logical_provisioned <i>optional</i>	Space metrics for the VM collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used <i>optional</i>	Space metrics for the VM collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
reducible_data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression, based on reducible data only. Was added in version 4.0.0.0.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
shared_logical_used <i>optional</i>	Space metrics for the VM collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
snap_clone_logical_used <i>optional</i>	Space metrics for the VM collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
snapshot_savings <i>optional</i>	Ratio of the amount of space that would have been used by snapshots if space efficiency was not applied to logical space used solely by snapshots of vVols used by virtual machine. For example, a vVol is provisioned as 1 GB and it has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be (1 GB + 1 GB) / (0.2 GB + 0.2 GB) or 5:1. The snapshot_savings value will be 5 in this case.	number (float)
thin_savings <i>optional</i>	Ratio of all the vVol provisioned to data they contain. This is the ratio of logical_provisioned to logical_used. For example, a VM has two 2 GB vVol's and have written 500 MB of data to them. The thin savings would be (2 * 2GB) / (2 * 0.5 GB) or 4:1, so the thin_savings value would be 4.0.	number (float)

Name	Description	Schema
timestamp <i>optional</i>	End of sample period.	string (date-time)
unique_physical_used <i>optional</i>	Amount of physical space virtual machine used after compression and deduplication. This is the space to be freed up if a virtual machine is removed. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
unreducible_data <i>optional</i>	Space metrics for the VM collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
vm_id <i>optional</i>	Unique identifier representing a specific virtual machine.	string

base_space_metrics_by_vm_rollup

Summary of VM level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period.

Name	Description	Schema
last_data_reduction <i>optional</i>	Last data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
last_logical_provisioned <i>optional</i>	Last logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used <i>optional</i>	Last logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_reducible_data_reduction <i>optional</i>	Last reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)

Name	Description	Schema
last_shared_logical_used <i>optional</i>	Summary of VM level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_snap_clone_logical_used <i>optional</i>	Last snap and clone logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_snapshot_savings <i>optional</i>	Last snapshot savings space during the period.	number (float)
last_thin_savings <i>optional</i>	Last thin savings ratio during the period.	number (float)
last_unique_physical_used <i>optional</i>	Last unique physical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_unreducible_data <i>optional</i>	Summary of VM level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_data_reduction <i>optional</i>	Max data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
max_logical_provisioned <i>optional</i>	Max logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used <i>optional</i>	Max logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
max_reducible_data_reduction <i>optional</i>	Max reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
max_shared_logical_used <i>optional</i>	Summary of VM level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_snap_clone_logical_used <i>optional</i>	Max snap and clone logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_snapshot_savings <i>optional</i>	Max snapshot savings space during the period.	number (float)
max_thin_savings <i>optional</i>	Max thin savings ratio during the period.	number (float)
max_unique_physical_used <i>optional</i>	Max unique physical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_unreducible_data <i>optional</i>	Summary of VM level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)

Name	Description	Schema
vm_id <i>optional</i>	Unique identifier representing a specific virtual machine.	string

base_space_metrics_by_volume

Space metrics for the volume collected at five minute interval.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
logical_provisioned <i>optional</i>	Space metrics for the volume collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used <i>optional</i>	Space metrics for the volume collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
thin_savings <i>optional</i>	Ratio of all the volumes provisioned to data being written to them. For example, an appliance has two 2 GB volumes and have written 500 MB of data to them. The thin savings would be (2 GB * 2) / (0.5 GB * 2) or 4:1, so the thin_savings value would be 4.0.	number (float)
timestamp <i>optional</i>	End of sample period.	string (date-time)
volume_id <i>optional</i>	ID of the volume.	string

base_space_metrics_by_volume_family

Space metrics for the volume family collected at five minute interval.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression. Was added in version 4.0.0.0.	number (float)
family_id <i>optional</i>	ID of the family.	string
logical_provisioned <i>optional</i>	Space metrics for the volume family collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used <i>optional</i>	Amount of data in bytes host has written to a volume family without any deduplication, compression or sharing. This metric includes primaries, snaps and clones. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
reducible_data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression, based on reducible data only. Was added in version 4.0.0.0.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
shared_logical_used <i>optional</i>	Amount of space the volume family needs to hold the data written by host and shared by snaps and fast-clones in the family. This does not include deduplication or compression. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
snap_clone_logical_used <i>optional</i>	Total Amount of data in bytes host has written to all volumes in the volume family without any deduplication, compression or sharing. This metric includes snaps and clones in the volume family. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
snapshot_savings <i>optional</i>	Ratio of the amount of space that would have been used by snapshots if space efficiency was not applied to logical space used solely by snapshots. For example, a volume is provisioned as 1 GB bytes and it has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be (1 GB + 1 GB) / (0.2 GB + 0.2 GB) or 5:1. The snapshot_savings value will be 5 in this case.	number (float)
timestamp <i>optional</i>	End of sample period.	string (date-time)
unique_physical_used <i>optional</i>	Amount of physical space volume family used after compression and deduplication. This is the space to be freed up if a volume family is removed from the appliance. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
unreducible_data <i>optional</i>	Space metrics for the volume family collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

base_space_metrics_by_volume_family_rollup

Space metrics for the volume family for one hour or one day period beginning with timestamp, including the maximum and final values for that period.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
family_id <i>optional</i>	ID of the family.	string

Name	Description	Schema
last_data_reduction <i>optional</i>	Last data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
last_logical_provisioned <i>optional</i>	Last logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used <i>optional</i>	Last logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_reducible_data_reduction <i>optional</i>	Last reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
last_shared_logical_used <i>optional</i>	Last shared logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_snap_clone_logical_used <i>optional</i>	Last snap and clone logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_snapshot_savings <i>optional</i>	Last snapshot savings space during the period.	number (float)
last_unique_physical_used <i>optional</i>	Last unique physical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_unreducible_data <i>optional</i>	Space metrics for the volume family for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_data_reduction <i>optional</i>	Max data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)

Name	Description	Schema
max_logical_provisioned <i>optional</i>	Max logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used <i>optional</i>	Max logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_reducible_data_reduction <i>optional</i>	Max reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
max_shared_logical_used <i>optional</i>	Max shared logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_snap_clone_logical_used <i>optional</i>	Max snap and clone logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_snapshot_savings <i>optional</i>	Max snapshot savings space during the period.	number (float)
max_unique_physical_used <i>optional</i>	Max unique physical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_unreducible_data <i>optional</i>	Space metrics for the volume family for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_space_metrics_by_volume_rollup

Summary of volume level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period.

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
last_logical_provisioned <i>optional</i>	Last logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used <i>optional</i>	Last logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_thin_savings <i>optional</i>	Last thin savings ratio during the period.	number (float)
max_logical_provisioned <i>optional</i>	Max logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used <i>optional</i>	Max logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_thin_savings <i>optional</i>	Max thin savings ratio during the period.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)
volume_id <i>optional</i>	ID of the volume.	string

base_vsphere_appson_metrics_by_appliance

Summary of aggregate user virtual machines CPU and memory utilization on appliance beginning with timestamp, including the average values for that period.

Was added in version 3.0.0.0.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier representing a specific appliance.	string
avg_cpu_usage <i>optional</i>	Average CPU usage in MHz.	number (float)
avg_cpu_usage_pct <i>optional</i>	Average CPU usage as % of amount available on ESX hosts of appliance.	number (float)
avg_mem_consumed <i>optional</i>	Average memory consumption in KB.	number (float)
avg_mem_consumed_pct <i>optional</i>	Average memory consumption as % of amount available on ESX hosts of appliance.	number (float)
repeat_count <i>optional</i>	The number of times the current metric is repeated. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_vsphere_appson_metrics_by_node

Summary of aggregate user virtual machines CPU and memory utilization on node beginning with timestamp, including the average values for that period.

Was added in version 3.0.0.0.

Name	Description	Schema
avg_cpu_usage <i>optional</i>	Average CPU usage in MHz.	number (float)
avg_cpu_usage_pct <i>optional</i>	Average CPU usage as % of amount available on ESX host.	number (float)
avg_mem_consumed <i>optional</i>	Average memory consumption in KB.	number (float)
avg_mem_consumed_pct <i>optional</i>	Average memory consumption as % of amount available on ESX host.	number (float)
node_id <i>optional</i>	Unique identifier representing a specific node.	string
repeat_count <i>optional</i>	The number of times the current metric is repeated. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_vsphere_metrics_by_vm

Summary of virtual machine level performance compute metric data for various rollup intervals beginning with timestamp, including the average values for that period.

Was added in version 3.0.0.0.

Name	Description	Schema
avg_cpu_usage <i>optional</i>	Average CPU usage in MHz.	number (float)
avg_mem_consumed <i>optional</i>	Average memory consumption in KB.	number (float)

Name	Description	Schema
repeat_count <i>optional</i>	The number of times the current metric is repeated. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
timestamp <i>optional</i>	End of sample period.	string (date-time)
uptime <i>optional</i>	Total time elapsed, in seconds, since last virtual machine start-up.	number (float)
vm_id <i>optional</i>	Unique identifier representing a specific virtual machine.	string

base_wear_metrics_by_drive_daily_instance

Wear metrics for the drives collected daily. Was added in version 2.0.0.0.

Name	Description	Schema
drive_id <i>optional</i>	Reference to the associated drive which these metrics were recorded.	string
percent_endurance_remaining <i>optional</i>	The percentage of drive wear remaining.	number (float)
repeat_count <i>optional</i>	Number of times the metrics is repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)

base_wear_metrics_by_drive_instance

Wear metrics for the drives collected at twenty second interval. Was deprecated in version 2.0.0.0.

Name	Description	Schema
drive_id <i>optional</i>	Reference to the associated drive which these metrics were recorded.	string

Name	Description	Schema
percent_endurance_remaining <i>optional</i>	The percentage of drive wear remaining.	number (float)
repeat_count <i>optional</i>	Number of times the metrics is repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
timestamp <i>optional</i>	End of sample period.	string (date-time)

bond_create

Parameters to create a user bond. Was added in version 3.0.0.0.

Name	Description	Schema
description <i>optional</i>	A user supplied description of the bond.	string
port_ids <i>required</i>	The list of unique identifiers of the port of one node to be included in the bond. The ports must be unused.	< string > array

bond_instance

Properties of a bond. Values was added in 2.0.0.0: type, description, partner_id. Values was added in 3.0.0.0: status. This resource type has queriable associations from bond, fsn, ip_port, eth_port

Name	Description	Schema
description <i>optional</i>	User supplied description of the bond.	string
eth_ports <i>optional</i>	This is the inverse of the resource type eth_port association.	< eth_port_instance > array
fsn <i>optional</i>	This is the embeddable reference form of fsn_id attribute.	fsn_instance
fsn_id <i>optional</i>	Identifier of the associated fail-safe network, or null if the bond is not in an FSN. Was added in version 3.5.0.0.	string

Name	Description	Schema
id <i>optional</i>	Unique identifier of the bond.	string
ip_ports <i>optional</i>	This is the inverse of the resource type ip_port association.	< ip_port_instance > array
is_link_up <i>optional</i>	Indicates whether the bond's link is up. Values are: true Link is up. false Link is down.	boolean
mode <i>optional</i>		BondingModeEnum
mode_l10n <i>optional</i>	Localized message string corresponding to mode	string
mtu <i>optional</i>	Maximum Transmission Unit (MTU) packet size of the bond, in bytes. Minimum value : 0 Maximum value : 2147483647	integer (int32)
name <i>optional</i>	Bond name. This property supports case-insensitive filtering.	string
partner <i>optional</i>	This is the embeddable reference form of partner_id attribute.	bond_instance
partner_id <i>optional</i>	Identifier of the bond with the same physical location on the other node of the appliance. Partner ports are configured symmetrically for HA and load balancing purposes within the appliance. Was added in version 2.0.0.0.	string
status <i>optional</i>	Was added in version 3.0.0.0.	BondStatusEnum
status_l10n <i>optional</i>	Localized message string corresponding to status Was added in version 3.0.0.0.	string

Name	Description	Schema
type <i>optional</i>	Was added in version 2.0.0.0.	BondingTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type Was added in version 2.0.0.0.	string

bond_modify

Parameters used to modify a bond. Was added in version 3.0.0.0.

Name	Description	Schema
add_port_ids <i>optional</i>	The list of unique identifiers of the port to be used in the user bond. The ports must be unused.	< string > array
description <i>optional</i>	Modify the description of the bond.	string

cert_role_mapping_create

Parameters for creating a cert_role_mapping instance. Was added in version 4.1.0.0.

Name	Description	Schema
name <i>required</i>	Name of the cert_role_mapping instance. Must match either the UPN or the subject CN of the certificate, depending on the security_config cert_user_name_polity setting. Length : 1 - 256 Pattern : <code>"^[a-zA-Z0-9@*\\-_.()]{1,256}\$"</code>	string
role_id <i>required</i>	Unique identifier of the role to be assigned to this cert_role_mapping instance.	string

cert_role_mapping_instance

Properties of the cert_role_mapping instance. Was added in version 4.1.0.0.

Name	Description	Schema
id <i>optional</i>	Unique identifier of the cert_role_mapping instance.	string

Name	Description	Schema
is_locked <i>optional</i>	Indicates whether the cert_role_mapping is locked or not. False, by default.	boolean
name <i>optional</i>	Name of the cert_role_mapping instance. Must match either the UPN or subject CN of the certificate, depending on the security_config cert_user_name_polity setting.	string
role_id <i>optional</i>	Unique identifier of the role assigned to the cert_role_mapping instance.	string

cert_role_mapping_modify

Parameters for modifying a cert_role_mapping instance. Was added in version 4.1.0.0.

Name	Description	Schema
is_locked <i>optional</i>	Sets the new locking/unlocking status of this cert_role_mapping instance. A certificate role mapping with either the administrator or the security administrator role, can lock or unlock any other certificate role mapping. Users cannot lock an account that they are currently logged-in with.	boolean
role_id <i>optional</i>	Unique identifier of the new role to be assigned to this cert_role_mapping instance. A certificate role mapping with either the administrator or the security administrator role, can change the role of any other certificate role mapping. Users cannot change the role of the account that they are currently logged-in with.	string

chap_config_instance

Name	Description	Schema
id <i>optional</i>	Unique id of the CHAP config settings instance (always "0"). Example : "0"	string
mode <i>optional</i>		CHAPModeEnum
mode_l10n <i>optional</i>	Localized message string corresponding to mode	string

chap_config_modify

Name	Schema
mode <i>required</i>	CHAPModeEnum

chap_credentials_instance

Information about the iSCSI initiator, target session, or discovery CHAP secrets.

Name	Description	Schema
initiator_discovery_password <i>optional</i>	Password used by the initiator to authenticate the target during discovery authentication. Mutual CHAP mode only.	string (password)
initiator_discovery_username <i>optional</i>	Username used by the initiator to authenticate the target during discovery authentication. Mutual CHAP mode only.	string
initiator_session_password <i>optional</i>	Password used by the initiator to authenticate the target during session authentication. Mutual CHAP mode only.	string (password)
initiator_session_username <i>optional</i>	Username used by the initiator to authenticate the target during session authentication. Mutual CHAP mode only.	string
target_discovery_password <i>optional</i>	Password used by the target to authenticate the initiator during discovery authentication. Single CHAP mode only.	string (password)
target_discovery_username <i>optional</i>	Username used by the target to authenticate the initiator during discovery authentication. Single CHAP mode only.	string
target_session_password <i>optional</i>	Password used by the target to authenticate the initiator during session authentication. Single CHAP mode only.	string (password)

Name	Description	Schema
target_session_username <i>optional</i>	Username used by the target to authenticate the initiator during session authentication. Single CHAP mode only.	string

cluster_create

Cluster create parameters. Was added in version 2.0.0.0.

Name	Description	Schema
appliances <i>required</i>	The configuration settings for adding appliances during cluster creation. At least one appliance is required.	< cluster_create_appliances > array
cluster <i>required</i>		cluster_create_cluster
dns_servers <i>required</i>	Example : ["12.22.33.44", "55.66.77.88"]	< string (ip-address) > array
networks <i>required</i>	Configuration of one or more network(s) based on network type.	< cluster_create_networks > array
ntp_servers <i>required</i>	Example : ["12.22.33.44", "55.66.77.88"]	< string (ip-address) > array
physical_switches <i>optional</i>	Physical switch settings for a cluster.	< cluster_create_physical_switches > array
security_config <i>optional</i>	Was added in version 3.0.0.0.	cluster_create_security_config
vccenters <i>optional</i>	Configure vCenter settings when creating cluster. Parameters are required when creating PowerStore X cluster and optional for PowerStore cluster. Note Currently only single element is supported.	< cluster_create_vcenters > array

cluster_create_appliances

Appliance configuration setting during cluster creation. Was added in version 2.0.0.0.

Name	Description	Schema
drive_failure_tolerance_level <i>optional</i>		DriveFailureToleranceLevelEnum
link_local_address <i>required</i>	The link local address is a dynamically set local IPv4 address. It is unique to this appliance and is set by Zeroconf. Use the PowerStore Discovery Tool to get the link local addresses of available PowerStore appliances on the local subnet. Example : "11.22.33.44"	string (ip-address)
name <i>optional</i>	The name of the new appliance. By default, the name is "[cluster name]-appliance-[index number]". The maximum size is 64 characters. Length : 1 - 64 Example : "MyCluster-appliance-2"	string

cluster_create_cluster

The configuration settings of cluster during cluster creation.

Was added in version 2.0.0.0.

Name	Description	Schema
ignore_network_warnings <i>optional</i>	Set to true to ignore network warnings about unreachable external network services discovered while cluster creation. This can be useful for configuring a system before delivery into the intended deployment environment. The default is false, and these warnings will cause cluster creation to fail. Default : false Example : true	boolean
name <i>required</i>	The name of the cluster. The name can be up to 64 UTF-8 characters and cannot be an empty string. Length : 1 - 64 Example : "Cluster-007"	string

cluster_create_error_response

Error response for create operation. Contains a list of localized messages and a list of validation issues accompanied by the suggested resolution.

Was added in version 2.0.0.0.

Name	Schema
issues <i>optional</i>	< validate_create_issue > array
messages <i>optional</i>	< error_message > array

cluster_create_networks

Network configuration setting during cluster creation. Was added in version 2.0.0.0.

Name	Description	Schema
addresses <i>required</i>	IP addresses in IPv4 or IPv6 format. Example : ["10.244.24.191", "10.244.24.192"]	< string (ip-address) > array
cluster_mgmt_address <i>optional</i>	New cluster management IP address in IPv4 or IPv6 format, corresponding to the network's IP version. This can only be specified only when configuring the management type network. Example : "11.22.33.44"	string (ip-address)
gateway <i>optional</i>	Network gateway in IPv4 or IPv6 format, corresponding to the network's IP version. Default : "" Example : "10.244.24.1"	string (ip-address)
prefix_length <i>required</i>	Network prefix length, used for both IPv4 and IPv6. Minimum value : 0 Maximum value : 128 Example : 64	integer (int32)
purposes <i>optional</i>	Purposes of the network. Only applicable to storage networks. Omitting the property is equivalent to providing all applicable purposes, which are: iSCSI, NVMe/TCP. If provided, must include iSCSI to enable the internal host storage access. Was added in version 2.1.0.0. Example : ["iSCSI", "NVMe_TCP"]	< NetworkPurposeEnum > array

Name	Description	Schema
storage_discovery_address <i>optional</i>	New storage discovery IP address in IPv4 or IPv6 format, corresponding to the network's IP version. This can only be specified only when configuring the storage type network. Example : "11.22.33.45"	string (ip-address)
type <i>required</i>		NetworkTypeEnum
vlan_id <i>optional</i>	VLAN identifier. Default : 0 Minimum value : 0 Maximum value : 4094 Example : 10	integer (int32)

cluster_create_physical_switch_connection

Physical switch connection configuration setting during cluster creation. Was added in version 2.0.0.0.

Name	Description	Schema
address <i>required</i>	Physical switch address in IPv4 or IPv6 or DNS hostname format. Example : "10.244.244.244"	string (ip-address)
connect_method <i>required</i>		PhysicalSwitchConnectMethodEnum
port <i>optional</i>	Port used for connection to switch. Minimum value : 0 Maximum value : 65535 Example : 22	integer (int32)
snmp_community_string <i>optional</i>	SNMPv2 community string, if SNMPv2c connect method is specified. Example : "passwordCommunityString"	string (password)
ssh_password <i>optional</i>	SSH password to connect a physical switch if SSH connect method is specified. Example : "password"	string (password)

Name	Description	Schema
username <i>optional</i>	Username to connect a physical switch for SSH connection method. Example : "admin"	string

cluster_create_physical_switches

Physical switch configuration setting during cluster creation. Was added in version 2.0.0.0.

Name	Description	Schema
connections <i>required</i>	Supported connections for a physical switch.	< cluster_create_physical_switch_connection > array
name <i>required</i>	Name of physical switch. Example : "Cluster-Switch-1"	string
purpose <i>required</i>		PhysicalSwitchPurposeEnum

cluster_create_security_config

security configuration setting during cluster creation. Was added in version 3.0.0.0.

Name	Description	Schema
is_http_redirect_enabled <i>optional</i>	If true, redirecting HTTP requests to HTTPS is enabled. If false, HTTP redirection is disabled and only HTTPS is allowed. Was added in version 3.0.0.0. Default : true	boolean
vasa_retain_certificate <i>optional</i>	If true, VASA server certificate will not be overwritten by the vCenter. Was added in version 3.5.0.0. Default : false	boolean

cluster_create_vasa_provider_credentials

Storage system credentials for vCenter to use for communicating with the storage system using VASA. Parameters are required when creating PowerStore X cluster and optional for PowerStore cluster.

Was added in version 2.0.0.0.

Name	Description	Schema
password <i>required</i>	Password of the local user account which will be used by vSphere to register VASA provider. Example : "pass456!"	string (password)
username <i>required</i>	Username of the local user account which will be used by vSphere to register VASA provider. Example : "user456"	string

cluster_create_vcenters

vCenter configuration setting during cluster creation. Was added in version 2.0.0.0.

Name	Description	Schema
address <i>required</i>	IP address of vCenter in IPv4 or IPv6 or hostname format. Example : "10.244.84.121"	string (ip-address)
data_center_create <i>optional</i>	Along with data_center_name, indicates an intent to either create or use existing data center by name. Was added in version 3.0.0.0. Was deprecated in version 3.0.0.0. Default : false	boolean
data_center_id <i>optional</i>	VMWare ID of the datacenter. This should be specified when creating PowerStoreX cluster to join an existing datacenter. data_center_name may not also be specified with this. Was added in version 3.0.0.0. Example : "datacenter-42"	string
data_center_name <i>optional</i>	Name of the data center. This should be specified when creating PowerStoreX cluster in order to create and join a new datacenter in vCenter. data_center_id may not also be specified with this. When data_center_create is false, then an existing datacenter will be used if the name matches, otherwise a new one will be created. Example : "DataCenter-H3007"	string

Name	Description	Schema
esx_cluster_name <i>optional</i>	ESXi cluster name. The default name is "Cluster-" followed by the PowerStore cluster name. This should be specified when creating PowerStore X cluster. Default : "name" Example : "Cluster-H3007"	string
is_verify_server_cert <i>required</i>	Whether or not the connection will be secured with the vCenter SSL certificate. Example : false	boolean
password <i>required</i>	Password to login to vCenter. Example : "pass789!"	string (password)
username <i>required</i>	User name to login to vCenter. Example : "administrator@vsphere.local"	string
vasa_provider_credentials <i>required</i>		cluster_create_vasa_provider_credentials

cluster_discover_fc_targets_response

Response from the cluster discover_fc_targets operation. Was added in version 4.0.0.0.

Name	Description	Schema
fc_targets <i>optional</i>	FC target addresses for the data connection to the remote system. Must be specified when creating a Generic remote system.	< fc_target_instance > array

cluster_forecast

Name	Schema
metric_type <i>required</i>	ForecastMetricTypeEnum

cluster_forecast_response

Name	Description	Schema
high_value <i>optional</i>	Estimate of the upper bound of the 95% confidence interval for the forecast value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
low_value <i>optional</i>	Estimate of the lower bound of the 95% confidence interval for the forecast value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
mean_value <i>optional</i>	Estimate for the mean forecast value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
timestamp <i>optional</i>	Timestamp when the forecast was performed.	string (date-time)

cluster_instance

Properties of a cluster. Values was added in 2.0.0.0: primary_appliance_id. Values was deprecated in 2.0.0.0: master_appliance_id.

Name	Description	Schema
appliance_count <i>optional</i>	Number of appliances configured in this cluster. Minimum value : 0 Maximum value : 2147483647 Example : 4	integer (int32)
compatibility_level <i>optional</i>	The behavioral version of the software version API, and it is used to ensure the compatibility across potentially different software versions. Minimum value : 0 Maximum value : 2147483647 Example : 1	integer (int32)
global_id <i>optional</i>	The global unique identifier of the cluster. Example : "PS11AA22BB33CC"	string
id <i>optional</i>	The unique identifier of the cluster. Example : "0"	string

Name	Description	Schema
is_encryption_enabled <i>optional</i>	Whether or not Data at Rest Encryption is enabled on the cluster. Example : true	boolean
management_address <i>optional</i>	The floating management IP address for the cluster in IPv4 or IPv6 format. Example : "11.22.33.44"	string (ip-address)
master_appliance_id <i>optional</i>	The unique identifier of the appliance acting as primary. Was deprecated in version 2.0.0.0. Example : "A1"	string
name <i>optional</i>	The name of the cluster. Example : "Awesome storage cluster"	string
nvm_subsystem_nqn <i>optional</i>	NVMe Subsystem NQN for cluster. It cannot be set directly. Was added in version 3.0.0.0.	string
physical_mtu <i>optional</i>	The physical ethernet port (eth_port resource) MTU setting is global for all ports in the cluster. This is the default MTU setting for IP traffic, and the upper limit on network-specific MTU settings (network resource), where this can be overridden for some specific kinds of traffic (management, data, and vMotion). Minimum value : 0 Maximum value : 2147483647 Example : 1500	integer (int32)
primary_appliance_id <i>optional</i>	The unique identifier of the appliance acting as primary. Was added in version 2.0.0.0. Example : "A1"	string
state <i>optional</i>		ClusterStateEnum
state_l10n <i>optional</i>	Localized string corresponding to state.	string

Name	Description	Schema
storage_discovery_address <i>optional</i>	The floating storage discovery IP address for the cluster in IPv4 or IPv6 format. If multiple storage discovery addresses are configured, this property will be set to 'null'. In this case the storage network of interest should be used to retrieve the discovery address. Example : "11.22.33.45"	string (ip-address)
system_time <i>optional</i>	Current clock time for the system. System time and all the system reported times are in UTC (GMT+0:00) format. The system time is controlled via NTP. It cannot be set directly. Was added in version 2.0.0.0.	string (date-time)

cluster_modify

Cluster modify parameters.

Name	Description	Schema
name <i>optional</i>	The new name for the cluster. The name can be up to 64 UTF-8 characters and cannot be an empty string. Length : 1 - 64 Example : "Awesome new name"	string
physical_mtu <i>optional</i>	The physical ethernet port (eth_port resource) MTU setting is global for all ports in the cluster. This is the default MTU setting for IP traffic, and the upper limit on network-specific MTU settings (network resource), where this can be overridden for some specific kinds of traffic (management, data, and vmotion). This value must be in the range 1500-9000. Minimum value : 1500 Maximum value : 9000 Example : 9000	integer (int32)

cluster_time_to_full

Name	Schema
metric_type <i>required</i>	ForecastMetricTypeEnum

cluster_time_to_full_response

Name	Description	Schema
cluster_id <i>optional</i>	Unique ID of the cluster.	string
end_of_forecast <i>optional</i>	Timestamp of the end of the capacity forecast. If time to full estimates are null, the relevant forecast does not reach full capacity before it ends. In this case the end of the forecast can be used as a minimum for time to full.	string (date-time)
time_to_full <i>optional</i>	Estimated date-time at which the forecast value will reach full capacity.	string (date-time)
time_to_full_optimistic <i>optional</i>	Optimistic date-time for time to full based on the lower bound of the forecast 95% confidence interval.	string (date-time)
time_to_full_pessimistic <i>optional</i>	Pessimistic date-time for time to full based on the upper bound of the forecast 95% confidence interval.	string (date-time)
time_to_full_status <i>optional</i>		ForecastTimeToFullStatusEnum
time_to_full_status_l10n <i>optional</i>	Localized message string corresponding to time_to_full_status	string

cluster_validate_create

Validate create cluster parameters. Was added in version 2.0.0.0.

Name	Description	Schema
appliances <i>required</i>	The configuration settings for adding appliances during cluster creation. At least one appliance is required.	< cluster_create_appliances > array
cluster <i>required</i>		cluster_create_cluster

Name	Description	Schema
dns_servers <i>required</i>	Example : ["12.22.33.44", "55.66.77.88"]	< string (ip-address) > array
networks <i>required</i>	Configuration of one or more network(s) based on network type	< cluster_create_networks > array
ntp_servers <i>required</i>	Example : ["12.22.33.44", "55.66.77.88"]	< string (ip-address) > array
physical_switches <i>optional</i>	Create physical switch settings for a cluster.	< cluster_create_physical_switches > array
security_config <i>optional</i>	Was added in version 3.0.0.0.	cluster_create_security_config
vcenters <i>optional</i>	Configure vCenter settings when creating cluster. Parameters are required when creating PowerStore X cluster and optional for PowerStore cluster. Note currently only single element is supported.	< cluster_create_vcenters > array

cluster_validate_create_response

Response for a validate create request. It returns configuration warnings and errors detected during validation, as well as suggested resolutions.

Was added in version 2.0.0.0.

Name	Schema
issues <i>optional</i>	< validate_create_issue > array

cluster_validate_expand_issue

The cluster expansion issue information that contains an expansion issue type and a reason. Was added in version 4.1.0.0.

Name	Description	Schema
issue_type <i>optional</i>		ClusterExpansionIssueEnum
issue_type_l10n <i>optional</i>	Localized message string corresponding to issue_type Was added in version 4.1.0.0.	string
reason <i>optional</i>		error_message

cluster_validate_expand_response

Response for a validate expand request. It returns configuration issues detected for cluster expansion.

Was added in version 4.1.0.0.

Name	Description	Schema
expansion_issues <i>optional</i>	A list of configuration issues that block cluster expansion. Example : [{ "issue_type" : "Cluster_Size_Limit_Reached", "reason" : { "code" : "0xE0C010030028", "severity" : "Error", "message_l10n" : "Cluster size limit 4 is reached." } }]	<pre>< cluster_validate_exp and_issue > array</pre>

consistency_group_member_host_group_mapping

Unique identifiers of the host groups that map to the destination volume group member volume for an agentless import session. If the member volumes of a source consistency group are mapped to different host groups, then use this argument, otherwise use the host_group_ids argument to specify a common mapping for all the volumes in the group.

Was added in version 2.0.0.0.

Name	Description	Schema
host_group_ids <i>optional</i>	Unique identifiers of the host groups that map to the destination volume group member volume for an agentless import session.	< string > array
volume_wwn <i>optional</i>	WWN of the source consistency group member volume.	string

consistency_group_member_host_mapping

Consistency group member volume-host mapping information for cases where the mappings are not identical for all volumes.

Was added in version 1.0.2.

Name	Description	Schema
host_ids <i>optional</i>	Hosts to be mapped to the destination volume group member volume for an agentless import session.	< string > array
volume_wwn <i>optional</i>	WWN of the source consistency group member volume.	string

copy_metrics_by_appliance

Copy metrics for the appliance.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance.	string
data_remaining <i>optional</i>	Copy metrics for the appliance. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transferred <i>optional</i>	Copy metrics for the appliance. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_id <i>optional</i>	Localized message string corresponding to entity	string

Name	Description	Schema
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Copy metrics for the appliance. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

copy_metrics_by_appliance_rollup

Copy metrics for the appliance. Was added in version 3.5.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance.	string
data_remaining <i>optional</i>	Copy metrics for the appliance. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transferred <i>optional</i>	Copy metrics for the appliance. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_id <i>optional</i>	Localized message string corresponding to entity	string
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)

Name	Description	Schema
transfer_rate <i>optional</i>	Copy metrics for the appliance. Was added in version 3.5.0.0. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

copy_metrics_by_cluster

Copy metrics for the cluster.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
data_remaining <i>optional</i>	Copy metrics for the cluster. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transferred <i>optional</i>	Copy metrics for the cluster. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string

Name	Description	Schema
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Copy metrics for the cluster. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

copy_metrics_by_cluster_rollup

Copy metrics for the cluster. Was added in version 3.5.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
data_remaining <i>optional</i>	Copy metrics for the cluster. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transfered <i>optional</i>	Copy metrics for the cluster. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_id <i>optional</i>	Localized message string corresponding to entity	string
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Copy metrics for the cluster. Was added in version 3.5.0.0. Unit : bytes/second	number (float)

Name	Description	Schema
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

copy_metrics_by_file_system

Cluster wide copy metrics for the file system. Was added in version 4.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
data_remaining <i>optional</i>	Copy metrics for the file system. Was added in version 4.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transferred <i>optional</i>	Copy metrics for the file system. Was added in version 4.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_id <i>optional</i>	Localized message string corresponding to entity	string
file_system_id <i>optional</i>	Unique identifier of the file System.	string

Name	Description	Schema
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Copy metrics for the file system. Was added in version 4.0.0.0. Unit : bytes	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

copy_metrics_by_file_system_rollup

Cluster wide copy metrics for the file system. Was added in version 4.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
data_remaining <i>optional</i>	Copy metrics for the file system. Was added in version 4.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
data_transfer_red <i>optional</i>	Copy metrics for the file system. Was added in version 4.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
file_system_id <i>optional</i>	Unique identifier of the file system.	string
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Copy metrics for the file system. Was added in version 4.0.0.0. Unit : bytes	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

copy_metrics_by_nas_server

Cluster wide copy metrics for the NAS server. Was added in version 4.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
data_remaining <i>optional</i>	Copy metrics for the NAS server. Was added in version 4.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transferred <i>optional</i>	Copy metrics for the NAS server. Was added in version 4.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
nas_server_id <i>optional</i>	Unique identifier of the NAS server.	string
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sampling period.	string (date-time)

Name	Description	Schema
transfer_rate <i>optional</i>	Copy metrics for the NAS server. Was added in version 4.0.0.0. Unit : bytes	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

copy_metrics_by_nas_server_rollup

Cluster wide copy metrics for the NAS server. Was added in version 4.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
data_remaining <i>optional</i>	Copy metrics for the NAS server. Was added in version 4.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transferred <i>optional</i>	Copy metrics for the NAS server. Was added in version 4.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string

Name	Description	Schema
nas_server_id <i>optional</i>	Unique identifier of the NAS server.	string
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Copy metrics for the NAS server. Was added in version 4.0.0.0. Unit : bytes	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

copy_metrics_by_remote_system

Cluster wide copy metrics for the remote system.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
data_remaining <i>optional</i>	Cluster wide copy metrics for the remote system. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
data_transfer_red <i>optional</i>	Cluster wide copy metrics for the remote system. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
remote_system_id <i>optional</i>	Unique identifier of the remote system.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Cluster wide copy metrics for the remote system. Unit : bytes/second	number (float)

Name	Description	Schema
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

copy_metrics_by_remote_system_rollup

Cluster wide copy metrics for the remote system. Was added in version 3.5.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
data_remaining <i>optional</i>	Cluster wide copy metrics for the remote system. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transferred <i>optional</i>	Cluster wide copy metrics for the remote system. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_id <i>optional</i>	Localized message string corresponding to entity	string
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
remote_system_id <i>optional</i>	Unique identifier of the remote system.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Cluster wide copy metrics for the remote system. Was added in version 3.5.0.0. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

copy_metrics_by_replication_session

Cluster wide copy metrics for the replication session. Was added in version 4.1.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
data_remaining <i>optional</i>	Cluster wide copy metrics for the remote system. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transferred <i>optional</i>	Cluster wide copy metrics for the remote system. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_id <i>optional</i>	Localized message string corresponding to entity	string
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
remote_system_id <i>optional</i>	Unique identifier of the remote system.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)

Name	Description	Schema
transfer_rate <i>optional</i>	Cluster wide copy metrics for the remote system. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

copy_metrics_by_replication_session_rollup

Cluster wide copy metrics for the replication session. Was added in version 4.1.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
data_remaining <i>optional</i>	Cluster wide copy metrics for the remote system. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transferred <i>optional</i>	Cluster wide copy metrics for the remote system. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string

Name	Description	Schema
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
remote_system_id <i>optional</i>	Unique identifier of the remote system.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Cluster wide copy metrics for the remote system. Was added in version 3.5.0.0. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

copy_metrics_by_rg

Cluster wide copy metrics for the replication group. Was added in version 3.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
data_remaining <i>optional</i>	Cluster wide copy metrics for the replication group. Was added in version 3.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transferred <i>optional</i>	Cluster wide copy metrics for the replication group. Was added in version 3.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_id <i>optional</i>	Localized message string corresponding to entity	string
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
rg_id <i>optional</i>	Unique identifier of the replication group.	string
session_type <i>optional</i>		CopySessionTypeEnum

Name	Description	Schema
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Cluster wide copy metrics for the replication group. Was added in version 3.0.0.0. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

copy_metrics_by_rg_rollup

Cluster wide copy metrics for the replication group. Was added in version 3.5.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
data_remaining <i>optional</i>	Cluster wide copy metrics for the replication group. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transferred <i>optional</i>	Cluster wide copy metrics for the replication group. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum

Name	Description	Schema
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
rg_id <i>optional</i>	Unique identifier of the replication group.	string
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Cluster wide copy metrics for the replication group. Was added in version 3.5.0.0. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

copy_metrics_by_vg

Cluster wide copy metrics for the volume group.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
data_remaining <i>optional</i>	Cluster wide copy metrics for the volume group. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transferred <i>optional</i>	Cluster wide copy metrics for the volume group. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_id <i>optional</i>	Localized message string corresponding to entity	string
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)

Name	Description	Schema
transfer_rate <i>optional</i>	Cluster wide copy metrics for the volume group. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
vg_id <i>optional</i>	Unique identifier of the volume group.	string
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

copy_metrics_by_vg_rollup

Cluster wide copy metrics for the volume group. Was added in version 3.5.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
data_remaining <i>optional</i>	Cluster wide copy metrics for the volume group. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transferred <i>optional</i>	Cluster wide copy metrics for the volume group. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string

Name	Description	Schema
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Cluster wide copy metrics for the volume group. Was added in version 3.5.0.0. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
vg_id <i>optional</i>	Unique identifier of the volume group.	string
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

copy_metrics_by_volume

Cluster wide copy metrics for the volume.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
data_remaining <i>optional</i>	Cluster wide copy metrics for the volume. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transferred <i>optional</i>	Cluster wide copy metrics for the volume. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_id <i>optional</i>	Localized message string corresponding to entity	string
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Cluster wide copy metrics for the volume. Unit : bytes/second	number (float)

Name	Description	Schema
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
volume_id <i>optional</i>	Unique identifier of the volume.	string
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

copy_metrics_by_volume_rollup

Cluster wide copy metrics for the volume. Was added in version 3.5.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
data_remaining <i>optional</i>	Cluster wide copy metrics for the volume. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_transferred <i>optional</i>	Cluster wide copy metrics for the volume. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string

Name	Description	Schema
read_time <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
session_type <i>optional</i>		CopySessionTypeEnum
timestamp <i>optional</i>	End of sampling period.	string (date-time)
transfer_rate <i>optional</i>	Cluster wide copy metrics for the volume. Was added in version 3.5.0.0. Unit : bytes/second	number (float)
transfer_time <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
volume_id <i>optional</i>	Unique identifier of the volume.	string
write_time <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

create_response

Create response for an operation.

Name	Description	Schema
id <i>optional</i>	Unique identifier of the new instance created.	string

data_connection_instance

Data connection status between the local node and a remote target.

Name	Description	Schema
data_connection_type <i>optional</i>	Was added in version 3.0.0.0.	DataConnectionTypeEnum
data_connection_type_l10n <i>optional</i>	Localized message string corresponding to data_connection_type Was added in version 3.0.0.0.	string
initiator_address <i>optional</i>	Initiating address from the local node. IP for ISCSI and TCP data connection type. WWN for FC data connection type.	string (ip-address)
node_id <i>optional</i>	Unique identifier of the local, initiating node.	string
status <i>optional</i>		TransitConnectionStatusEnum
status_l10n <i>optional</i>	Localized message string corresponding to status	string
target_addresses <i>optional</i>	Target address from the remote system. IP for ISCSI and TCP data connection type. WWN for FC data connection type.	string (ip-address)

datacollection_appliance_instance

Appliance details for a datacollection. Was added in version 3.0.0.0.

Name	Description	Schema
appliance_serial_number <i>optional</i>	The serial number of the appliance where this data collection was created. Example : "FNM00152000433"	string

Name	Description	Schema
compressed_size <i>optional</i>	Appliance details for a datacollection. Was added in version 3.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807 Example : 213453222	integer (int64)
download_uri <i>optional</i>	The download URI for this file. Example : "/api/rest/datacollection_appliance/5d35bfb2-6b1b-4c4c-a7ea-09f380c4b409/download"	string (uri)
downloaded <i>optional</i>	The last date and time that this collection was downloaded. Example : "2018-04-06T21:22:09.956+00:00"	string (date-time)
end_timestamp <i>optional</i>	The date and time that this data collection completed on the appliance. Example : "2018-04-06T21:22:09.956+00:00"	string (date-time)
id <i>optional</i>	Unique identifier for this instance.	string
log_from_timestamp <i>optional</i>	The date and time from which to start collecting the logs.	string (date-time)
log_to_timestamp <i>optional</i>	The date and time up to which the logs should be collected.	string (date-time)
node <i>optional</i>	The node where the data collection bundle is located. Example : "node_a"	string
start_timestamp <i>optional</i>	The date and time that this data collection started on this appliance. Example : "2018-04-06T21:22:09.956+00:00"	string (date-time)
status <i>optional</i>		DatacollectionStatus Enum
status_message <i>optional</i>	Localized message string corresponding to status Was added in version 3.0.0.0.	string

Name	Description	Schema
status_message_l10n <i>optional</i>	Additional status detail Example : ""	string
uncompressed_size <i>optional</i>	Appliance details for a datacollection. Was added in version 3.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807 Example : 213453222	integer (int64)
upload_in_progress <i>optional</i>	Indicates whether upload of the data collection bundle is in progress. Example : false	boolean
uploaded <i>optional</i>	The last date and time that this collection was uploaded to your service provider. Example : "2018-04-06T21:22:09.956+00:00"	string (date-time)

datacollection_create

Create the data collection. Was added in version 3.0.0.0.

Name	Description	Schema
datacollection_profile_ids <i>optional</i>	The profiles to use for the data collection.	< string > array
description <i>optional</i>	Brief note describing the purpose of the data collection. Default : "" Maximal length : 128 Example : "After switch reboot"	string
log_from_time_stamp <i>optional</i>	The date and time from which to start collecting the logs.	string (date-time)
log_to_timestamp <i>optional</i>	The date and time up to which the logs should be collected. The default is the time of the creation.	string (date-time)

Name	Description	Schema
profiles <i>optional</i>	The profiles to use for the data collection.	< string > array
resource <i>optional</i>		datacollection_resource_instance
upload_to_support <i>optional</i>	Automatically upload this Data Collection to your support provider after it is complete. This option is only available if SupportAssist is enabled. Default : false Example : true	boolean

datacollection_instance

Properties of a datacollection instance. Was added in version 3.0.0.0.

Name	Description	Schema
appliances <i>optional</i>	Appliances associated with this data collection. Filtering on the fields of this embedded resource is not supported.	< datacollection_appliance_instance > array
compressed_size <i>optional</i>	Properties of a datacollection instance. Was added in version 3.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807 Example : 213453222	integer (int64)
creator_type <i>optional</i>		DatacollectionCreatorTypeEnum
creator_type_localization <i>optional</i>	Localized message string corresponding to creator_type Was added in version 3.0.0.0.	string
description <i>optional</i>	Brief note describing collection. Example : "INC: 12345, Post switch reboot"	string
downloaded <i>optional</i>	The last date and time that this collection was downloaded. Example : "2018-04-06 21:22:09.956+00:00"	string (date-time)

Name	Description	Schema
end_timestamp <i>optional</i>	The date and time at which the data collection completed or failed. Example : "2018-04-06 21:22:09.956+00:00"	string (date-time)
id <i>optional</i>	Unique identifier for this instance.	string
log_from_time_stamp <i>optional</i>	The date and time from which to start collecting the logs."	string (date-time)
log_to_timestamp <i>optional</i>	The date and time to which the logs should be collected."	string (date-time)
profiles <i>optional</i>	Profiles used to create this data collection. Filtering on the fields of this embedded resource is not supported.	< datacollection_profile_instance > array
start_timestamp <i>optional</i>	The date and time at which the data collection started. Example : "2018-04-06 21:22:09.956+00:00"	string (date-time)
status <i>optional</i>		DatacollectionStatus Enum
status_message <i>optional</i>	Localized message string corresponding to status Was added in version 3.0.0.0.	string
status_message <i>optional</i>	If the data collection failed, the reason for the failure.	string
uncompressed_size <i>optional</i>	Properties of a datacollection instance. Was added in version 3.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807 Example : 213453222	integer (int64)
uploaded <i>optional</i>	The last date and time that this collection was uploaded to your service provider. Example : "2018-04-06 21:22:09.956+00:00"	string (date-time)

datacollection_profile_instance

Properties of a data collection profile. Was added in version 3.0.0.0.

Name	Description	Schema
description <i>optional</i>	A description of the contents of the Data Collection Profile. Example : "Contains the information required to triage most situations."	string
id <i>optional</i>	Unique Data Collection Profile Identifier. Example : "1"	string
is_default <i>optional</i>	Indicates that this is the default profile. Only one profile can be set as the default. Example : true	boolean
name <i>optional</i>	Name of the Data Collection Profile. This property supports case-insensitive filtering. Example : "Essential"	string
prompt <i>optional</i>	The prompt that will be displayed to the user for this profile. Example : "Essential Data"	string
status <i>optional</i>	The status of the profile (enabled/disabled/deprecated). Was added in version 4.1.0.0.	DataCollectionProfileStatusEnum
status_message <i>optional</i>	Localized message string corresponding to status Was added in version 4.1.0.0.	string

datacollection_resource_instance

A list of resource types. Was added in version 3.0.0.0.

Name	Description	Schema
resource_ids <i>optional</i>	A list of resource ids to be included in this data collection. resource_type must be set for this to be used. Example : ["vol_1", "vol_2"]	< string > array
resource_type <i>optional</i>		DataCollectionResourceTypeEnum

datacollection_upload

Boolean flag to cause the data collection to be uploaded. Was added in version 3.0.0.0.

Name	Description	Schema
include_dump <i>optional</i>	If this data collection includes a system dump, upload the dump file in addition to the data collection. Example : true	boolean

datastore_instance

Properties of a datastore. Was added in version 3.0.0.0. This resource type has queriable associations from vcenter, storage_container, nfs_export, virtual_machine, volume, vsphere_host

Name	Description	Schema
id <i>optional</i>	Unique identifier of the datastore instance.	string
instance_uuid <i>optional</i>	UUID instance of the datastore in vCenter.	string
name <i>optional</i>	User-assigned name of the datastore in vCenter. This property supports case-insensitive filtering.	string
nfs_export <i>optional</i>	This is the embeddable reference form of nfs_export_id attribute.	nfs_export_instance
nfs_export_id <i>optional</i>	Unique identifier of a backing nfs_export instance (for NFS type only).	string
storage_container <i>optional</i>	This is the embeddable reference form of storage_container_id attribute.	storage_container_instance
storage_container_id <i>optional</i>	Unique identifier of a backing storage_container instance (for vVol type only).	string
type <i>optional</i>		DatastoreTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type Was added in version 3.0.0.0.	string

Name	Description	Schema
vcenter <i>optional</i>	This is the embeddable reference form of vcenter_id attribute.	vcenter_instance
vcenter_id <i>optional</i>	Unique identifier of a vCenter instance.	string
virtual_machines <i>optional</i>	List of the virtual_machines that are associated with this datastore.	< virtual_machine_instance > array
volumes <i>optional</i>	List of the volumes that are associated with this datastore.	< volume_instance > array
vsphere_hosts <i>optional</i>	List of the vsphere_hosts that are associated with this datastore.	< vsphere_host_instance > array
vsphere_object_id <i>optional</i>	Unique identifier of the datastore in vCenter.	string

discovered_appliance_compatibility

The compatibility information that contains a compatibility enum and the reason if it is incompatible. Was added in version 4.0.0.0.

Name	Description	Schema
compatibility <i>optional</i>		DiscoveredApplianceCompatibilityEnum
compatibility_l10n <i>optional</i>	Localized message string corresponding to compatibility Was added in version 4.0.0.0.	string
incompatible_reason_l10n <i>optional</i>		string

discovered_appliance_drive_failure_tolerance_level_availability

Drive failure tolerance level availability. Was added in version 3.0.0.0.

Name	Description	Schema
availability <i>optional</i>		DriveFailureToleranceAvailabilityEnum
level <i>optional</i>		DriveFailureToleranceLevelEnum
level_l10n <i>optional</i>	Localized message string corresponding to level Was added in version 3.0.0.0.	string
messages <i>optional</i>		< messages > array

messages

Name	Schema
code <i>optional</i>	string
message_l10n <i>optional</i>	string

discovered_appliance_instance

Appliance information such as the appliance's link local address, model, software version, and available drive failure tolerance levels.

Was added in version 3.0.0.0.

Name	Description	Schema
build_id <i>optional</i>	Unique identifier of this build. Example : "3001681"	string
build_version <i>optional</i>	Build version of the installed software package release. Example : "3.0.0.0"	string

Name	Description	Schema
clustering_compatibility <i>optional</i>	Information about the clustering compatibilities of the appliance. Limitation: Only those incompatible cases listed in <code>DiscoveredApplianceCompatibilityEnum</code> can be reported. If "Compatible" is reported, it does not mean the appliance can be definitely added to the cluster. All other incompatible cases will be reported during validation when adding the appliance. Was added in version 4.0.0.0. Filtering on the fields of this embedded resource is not supported. Example : [{ "compatibility" : "Incompatible_Cluster_Software_Too_Old", "incompatible_reason" : "This appliance cannot be added to the cluster because cluster software version is older than the minimum supported software version of the appliance: 4.1.0.0." }]	< <code>discovered_appliance_compatibility</code> > array
drive_failure_tolerance_level_and_availability <i>optional</i>	Information about the drive failure tolerance levels. Filtering on the fields of this embedded resource is not supported. Example : [{ "level" : "Single", "availability" : "Available", "messages" : [] }, { "level" : "Double", "availability" : "Unavailable", "messages" : [{ "code" : "0xM06010010001", "message_length" : "7 drives required. Please add 3 more drives to enable." }] }]	< <code>discovered_appliance_drive_failure_tolerance_level_availability</code> > array
express_service_code <i>optional</i>	The express service code for the appliance. Example : "29076816961"	string
id <i>optional</i>	Unique identifier of a discovered appliance. The local discovered appliance has the id "0". Example : "169.254.8.170"	string
is_hyper_converged <i>optional</i>	Indicates whether this is a hyper-converged appliance. Was added in version 3.2.0.0.	boolean
is_local <i>optional</i>	Indicates whether the appliance is local (serving this request). Example : <code>false</code>	boolean
is_unified_capable <i>optional</i>	Indicates whether the appliance is capable of a unified configuration Example : <code>true</code>	boolean

Name	Description	Schema
link_local_address <i>optional</i>	The link local IPv4 address for the appliance. Example : "169.254.8.170"	string (ip-address)
management_service_ready <i>optional</i>	Indicates whether the necessary management services are ready. Example : false	boolean
mode <i>optional</i>		ApplianceModeEnum
model <i>optional</i>	The model of the appliance. Example : "PowerStore 1000X"	string
node_count <i>optional</i>	The number of nodes deployed on an appliance. Default : 2 Minimum value : 0 Maximum value : 2147483647	integer (int32)
power_score <i>optional</i>	Power rating for this appliance. Minimum value : 0 Maximum value : 2147483647 Example : 7200	integer (int32)
service_name <i>optional</i>	The service name of the appliance. Example : "PSA_781LBX2_10_X_W_U_0_1"	string
service_tag <i>optional</i>	The Dell service tag. Example : "HCKRKB2"	string
software_version_compatibility <i>optional</i>		DiscoveredApplianceSoftwareVersionCompatibilityEnum
state <i>optional</i>		DiscoveredApplianceStateEnum
storage_class <i>optional</i>	Was added in version 4.0.0.0.	ApplianceStorageClassEnum
version <i>optional</i>	Software version Was added in version 4.0.0.0. Example : "4.0.0.0-1979851-retail"	string

discovered_appliance_modify

Modify appliance cluster state parameters. Was added in version 4.0.0.0.

Name	Schema
mode <i>optional</i>	ApplianceModeEnum

discovered_appliance_update_software

The parameters for an unconfigured appliance software update. Was added in version 3.0.0.0.

Name	Description	Schema
appliance_address <i>optional</i>	The link local address of an unconfigured appliance. At least one of appliance_address or appliance_dst must be specified. Example : "11.22.33.44"	string (ip-address)
appliance_dst <i>optional</i>	Appliance service tag. At least one of appliance_address or appliance_dst must be specified. Example : "RT34TY64"	string
mode <i>optional</i>		ApplianceModeEnum
password <i>optional</i>	The service user password to access an unconfigured appliance. Was deprecated in version 4.1.0.0. Example : "usually-default-password"	string (password)

discovered_initiator_instance

An initiator currently connected to the cluster, but not associated with any host.

Name	Description	Schema
name <i>optional</i>	IQN - for iSCSi Initiators; WWN - for SCSI over FC initiators; NQN - for NVMe/NVMe-vVol initiators.	string

Name	Description	Schema
nvme_transport_addresses <i>optional</i>	List of discovered NVMe Initiators' addresses. For NVMe/FC - nvme_wwns list; for NVMe/TCP - ip address list. It may be that same nqn (NVMe identifier) will be applied to multiple WWNs (FC port address) and/or multiple IP addresses for NVMe/TCP over Eth port. Was added in version 2.0.0.0.	< string > array
nvme_transport_types <i>optional</i>	List of transport types for discovered NVMe initiators. For NVMe/FC, there will be only 1 item of type FC. For NVMe/TCP, there will be only 1 item of type TCP. If the same nqn (NVMe identifier) is applied to NVMe/FC and NVMe/TCP, the list will have both FC and TCP. If the protocol_type is not NVMe this value will be null. Was added in version 2.1.0.0.	< NvmeTransportTypeEnum > array
nvme_transport_types_l10n <i>optional</i>	Localized message array corresponding to nvme_transport_types Was added in version 2.1.0.0.	< string > array
protocol_type <i>optional</i>		InitiatorProtocolTypeEnum
protocol_type_l10n <i>optional</i>	Localized message string corresponding to protocol_type Was deprecated in version 3.0.0.0.	string

dns_instance

Name	Description	Schema
addresses <i>optional</i>	DNS server addresses in IPv4 or IPv6 format.	< string (ip-address) > array
id <i>optional</i>	Unique identifier of the DNS setting.	string

dns_modify

Name	Description	Schema
addresses <i>required</i>	DNS server addresses in IPv4 or IPv6 format.	< string (ip-address) > array

email_notify_destination_create

Name	Description	Schema
email_address <i>required</i>	Email address to receive notifications. Example : "operator@system.org"	string
notify_critical <i>optional</i>	Whether to send notifications for critical alerts.	boolean
notify_info <i>optional</i>	Whether send notifications for informational alerts.	boolean
notify_major <i>optional</i>	Whether to send notifications for major alerts.	boolean
notify_minor <i>optional</i>	Whether to send notifications for minor alerts.	boolean

email_notify_destination_instance

Name	Description	Schema
email_address <i>optional</i>	Email address to receive notifications. Example : "operator@system.org"	string
id <i>optional</i>	Unique identifier of the email notification destination.	string
notify_critical <i>optional</i>	Whether to send notifications for critical alerts.	boolean
notify_info <i>optional</i>	Whether to send notifications for informational alerts.	boolean
notify_major <i>optional</i>	Whether to send notifications for major alerts.	boolean

Name	Description	Schema
notify_minor <i>optional</i>	Whether to send notifications for minor alerts.	boolean

email_notify_destination_modify

Name	Description	Schema
email_address <i>optional</i>	Email address to receive notifications. Example : "operator@system.org"	string
notify_critical <i>optional</i>	Whether to send notifications for critical alerts.	boolean
notify_info <i>optional</i>	Whether to send notifications for informational alerts.	boolean
notify_major <i>optional</i>	Whether to send notifications for major alerts.	boolean
notify_minor <i>optional</i>	Whether to send notifications for minor alerts.	boolean

error_instance

Filtering on the fields of this embedded resource is not supported.

Name	Description	Schema
arguments <i>optional</i>	Arguments (if applicable) for the error message.	< string > array
code <i>optional</i>	Hexadecimal error code for an import error.	string
message_l10n <i>optional</i>	Localized error message.	string

error_message

Error message for an operation.

Name	Description	Schema
arguments <i>optional</i>	Arguments (if applicable) for the error message.	< string > array
code <i>optional</i>	Hexadecimal error code of the message.	string
message_l10n <i>optional</i>	The message description in the specified locale with arguments substituted.	string
severity <i>optional</i>		MessageSeverityEnum
severity_l10n <i>optional</i>	Localized message string corresponding to severity	string

error_response

Error response for an operation. Contains an array of localized messages.

Name	Schema
messages <i>optional</i>	< error_message > array

esxi_credentials

Credentials required for re-registering the ESXi hosts in the vCenter. Should be passed only when ESXi host addresses or management network VLAN / prefix / gateway are changed during the reconfiguration of the PowerStoreX model appliances.

Type : < [esxi_credentials](#) > array

esxi_credentials

Name	Description	Schema
node_id <i>optional</i>	Node identifier corresponding to the ESXi host.	string
password <i>optional</i>	ESXi host root password.	string (password)

eth_be_port_instance

Properties of a Ethernet Backend port. Was added in version 3.0.0.0. This resource type has queriable associations from appliance, hardware, eth_be_port

Name	Description	Schema
actual_peer <i>optional</i>	This is the embeddable reference form of actual_peer_id attribute.	eth_be_port_instance
actual_peer_id <i>optional</i>	Unique identifier of the backend ethernet port which is actually connected to this one.	string
appliance <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	appliance_instance
appliance_id <i>optional</i>	Unique identifier of the appliance containing the port.	string
expected_peer <i>optional</i>	This is the embeddable reference form of expected_peer_id attribute.	eth_be_port_instance
expected_peer_id <i>optional</i>	Unique identifier of the backend ethernet port which is expected to be connected to this one.	string
hardware_parent <i>optional</i>	This is the embeddable reference form of hardware_parent_id attribute.	hardware_instance
hardware_parent_id <i>optional</i>	Unique identifier of the parent hardware instance handling the port.	string
id <i>optional</i>	Unique identifier of the Ethernet Backend port.	string
is_link_up <i>optional</i>	Indicates whether the Ethernet Backend port's link is up. Values are: true Link is up. false Link is down.	boolean

Name	Description	Schema
mac_address <i>optional</i>	The MAC address of the Ethernet Backend port.	string
name <i>optional</i>	Name of the Ethernet Backend port. This property supports case-insensitive filtering.	string
node <i>optional</i>	This is the embeddable reference form of node_id attribute.	hardware_instance
node_id <i>optional</i>	Unique identifier of the hardware instance of type 'Node' containing the port.	string
port_connector_type <i>optional</i>		FrontEndPortConnectorTypeEnum
port_connector_type_l10n <i>optional</i>	Localized message string corresponding to port_connector_type Was added in version 3.0.0.0.	string
port_index <i>optional</i>	Index of the Ethernet Backend port in IO module. Minimum value : 0 Maximum value : 2147483647	integer (int32)
protocols <i>optional</i>	Supported Protocols over Ethernet port. currently only NVMe is supported.	< EthBEPortProtocolEnum > array
protocols_l10n <i>optional</i>	Localized message array corresponding to protocols Was added in version 3.0.0.0.	< string > array
sfp <i>optional</i>	This is the embeddable reference form of sfp_id attribute.	hardware_instance
sfp_id <i>optional</i>	Unique identifier of the hardware instance of type 'SFP' (Small Form-factor Pluggable) inserted into the port.	string
speed <i>optional</i>		EthBEPortSpeedEnum
speed_l10n <i>optional</i>	Localized message string corresponding to speed Was added in version 3.0.0.0.	string

Name	Description	Schema
stale_state <i>optional</i>		PortStaleStateEnum
stale_state_l10n <i>optional</i>	Localized message string corresponding to stale_state Was added in version 3.0.0.0.	string

eth_port_instance

Ethernet front-end port configuration for all cluster nodes. Values was added in 3.0.0.0: is_in_use, permanent_mac_address. This resource type has queriable associations from appliance, hardware, bond, fsn, eth_port, ip_port

Name	Description	Schema
appliance <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	appliance_instance
appliance_id <i>optional</i>	The id of the appliance containing the port.	string
bond <i>optional</i>	This is the embeddable reference form of bond_id attribute.	bond_instance
bond_id <i>optional</i>	Unique identifier of the bond containing the port, or null if the port is not in a bond.	string
current_mtu <i>optional</i>	The Maximum transmission unit (MTU) packet size that the Ethernet port can transmit. The fabric MTU can be set to any value in the range [1500-9000]. The network MTU can be set to any value in the range [1280-9000]. The network MTU must be less than or equal to the current fabric MTU. Minimum value : 1280 Maximum value : 9000	integer (int32)
current_speed <i>optional</i>		EthPortSpeedEnum
current_speed_l10n <i>optional</i>	Localized message string corresponding to current_speed	string

Name	Description	Schema
fsn <i>optional</i>	This is the embeddable reference form of fsn_id attribute.	fsn_instance
fsn_id <i>optional</i>	Identifier of the associated fail-safe network, or null if the port is not in an FSN. Was added in version 3.5.0.0.	string
hardware_parent <i>optional</i>	This is the embeddable reference form of hardware_parent_id attribute.	hardware_instance
hardware_parent_id <i>optional</i>	Unique identifier of the parent hardware instance handling the port. Was added in version 2.0.0.0.	string
hypervisor_port_id <i>optional</i>	Unique identifier of the virtual switch port associated with the hypervisor port. Minimum value : 0 Maximum value : 2147483647	integer (int32)
hypervisor_port_name <i>optional</i>	Hypervisor front-end port name capabilities. This property supports case-insensitive filtering.	string
hypervisor_switch_id <i>optional</i>	Unique identifier of the virtual switch associated with the hypervisor port.	string
hypervisor_switch_name <i>optional</i>	Name of the virtual switch associated with the hypervisor port. This property supports case-insensitive filtering.	string
id <i>optional</i>	Ethernet port instance identifier.	string
io_module <i>optional</i>	This is the embeddable reference form of io_module_id attribute.	hardware_instance
io_module_id <i>optional</i>	Unique identifier of the hardware instance of type 'IO_Module' handling the port. Was deprecated in version 2.0.0.0.	string
ip_ports <i>optional</i>	This is the inverse of the resource type ip_port association.	< ip_port_instance > array

Name	Description	Schema
is_hypervisor_managed <i>optional</i>	Indicates whether the port is managed by a hypervisor.	boolean
is_in_use <i>optional</i>	Indicates whether the port is in use. Values are: true Is in use. false Is not in use. Was added in version 3.0.0.0.	boolean
is_link_up <i>optional</i>	Indicates whether the Ethernet port's link is up. Values are: true Link is up. false Link is down.	boolean
l2_discovery_details <i>optional</i>	Was added in version 4.1.0.0.	l2_discovery_details_instance
mac_address <i>optional</i>	Ethernet port current MAC address.	string
name <i>optional</i>	Ethernet port name. This property supports case-insensitive filtering.	string
node <i>optional</i>	This is the embeddable reference form of node_id attribute.	hardware_instance
node_id <i>optional</i>	Unique identifier of the hardware instance of type 'Node' containing the port.	string
partner <i>optional</i>	This is the embeddable reference form of partner_id attribute.	eth_port_instance
partner_id <i>optional</i>	Unique identifier of the partner port instance.	string
permanent_mac_address <i>optional</i>	Ethernet port permanent MAC address assigned at the moment of the manufacture. Was added in version 3.0.0.0.	string

Name	Description	Schema
port_connector_type <i>optional</i>		FrontEndPortConnectionTypeEnum
port_connector_type_l10n <i>optional</i>	Localized message string corresponding to port_connector_type	string
port_index <i>optional</i>	The index of the Ethernet port in IO module. Minimum value : 0 Maximum value : 2147483647	integer (int32)
requested_speed <i>optional</i>		EthPortSpeedEnum
requested_speed_l10n <i>optional</i>	Localized message string corresponding to requested_speed	string
sfp <i>optional</i>	This is the embeddable reference form of sfp_id attribute.	hardware_instance
sfp_id <i>optional</i>	Unique identifier of the hardware instance of type 'SFP' (Small Form-factor Pluggable) inserted into the port.	string
stale_state <i>optional</i>	Indicator of the stale state of the port. Was added in version 2.0.0.0.	PortStaleStateEnum
stale_state_l10n <i>optional</i>	Localized message string corresponding to stale_state Was added in version 2.0.0.0.	string
supported_speeds <i>optional</i>	The list of supported transmission speeds for Ethernet port.	< EthPortSpeedEnum > array
supported_speeds_l10n <i>optional</i>	Localized message array corresponding to supported_speeds	< string > array

eth_port_modify

Name	Schema
requested_speed <i>required</i>	EthPortSpeedEnum

event_instance

An event indicates that something of interest happened in the system. Normally, an event that requires attention will generate an alert as well. So, although they may be interesting for troubleshooting, it is not necessary to monitor events.

Values was added in 3.0.0.0: event_code.

Name	Description	Schema
description_l1 On <i>optional</i>	Description of this event.	string
event_code <i>optional</i>	Identifies the specific kind of event that has occurred.	string
generated_timestamp <i>optional</i>	Timestamp at which this event occurred.	string (date-time)
id <i>optional</i>	Unique identifier of this occurrence of an event.	string
repair_flow_l1 On <i>optional</i>	Suggestions for how to resolve any problems that may arise from this event.	string
resource_id <i>optional</i>	Unique identifier of the resource instance which generated this event.	string
resource_name <i>optional</i>	Name of the resource instance which generated this event. This property supports case-insensitive filtering.	string
resource_type <i>optional</i>	The type of the object which generated this event.	ResourceTypeEnum

Name	Description	Schema
resource_type_l10n <i>optional</i>	Localized message string corresponding to resource_type	string
severity <i>optional</i>	The severity of the event.	SeverityEnum
severity_l10n <i>optional</i>	Localized message string corresponding to severity	string
system_impact_l10n <i>optional</i>	Describes the possible effect on the system of this event.	string

fast_metrics_config_create

Was added in version 3.0.0.0.

Name	Description	Schema
resource_id <i>required</i>	Unique identifier of the resource. Maximal length : 36 Example : "2f5ea-f56f2-f638d-feffe-8feff"	string
resource_type <i>required</i>		FastMetricsResourceTypeEnum

fast_metrics_config_instance

Was added in version 3.0.0.0.

Name	Description	Schema
id <i>optional</i>	Unique identifier of the fast_metrics_config instance. Example : "2f5ea-f56f2-f638d-feffe-8feff"	string
resource_id <i>optional</i>	Unique identifier of the resource. Example : "3r4ea-f56f2-a638d-feffe-8feff"	string
resource_type <i>optional</i>		FastMetricsResourceTypeEnum

Name	Description	Schema
resource_type _l10n <i>optional</i>	Localized message string corresponding to resource_type Was added in version 3.0.0.0.	string

fc_port_instance

Properties of the FC front-end port. Values was added in 2.0.0.0: wwn_nvme. Values was added in 3.0.0.0: is_in_use. This resource type has queriable associations from appliance, hardware, fc_port

Name	Description	Schema
appliance <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	appliance_instance
appliance_id <i>optional</i>	Unique identifier of the appliance containing the port.	string
current_speed <i>optional</i>		FcPortSpeedEnum
current_speed _l10n <i>optional</i>	Localized message string corresponding to current_speed	string
hardware_parent <i>optional</i>	This is the embeddable reference form of hardware_parent_id attribute.	hardware_instance
hardware_parent_id <i>optional</i>	Unique identifier of the parent hardware instance handling the port. @added(Foothills) Was added in version 2.0.0.0.	string
id <i>optional</i>	Unique identifier of the port.	string
io_module <i>optional</i>	This is the embeddable reference form of io_module_id attribute.	hardware_instance
io_module_id <i>optional</i>	Unique identifier of the hardware instance of type 'IO_Module' handling the port. Was deprecated in version 2.0.0.0.	string

Name	Description	Schema
is_in_use <i>optional</i>	Indicates whether the port is in use. Values are: true Is in use. false Is not in use. Was added in version 3.0.0.0.	boolean
is_link_up <i>optional</i>	Indicates whether the port's link is up. Values are: true Link is up. false Link is down.	boolean
name <i>optional</i>	Name of the port. This property supports case-insensitive filtering.	string
node <i>optional</i>	This is the embeddable reference form of node_id attribute.	hardware_instance
node_id <i>optional</i>	Unique identifier of the hardware instance of type 'Node' containing the port.	string
partner <i>optional</i>	This is the embeddable reference form of partner_id attribute.	fc_port_instance
partner_id <i>optional</i>	Unique identifier of the partner port.	string
port_connector_type <i>optional</i>		FrontEndPortConnectorTypeEnum
port_connector_type_l10n <i>optional</i>	Localized message string corresponding to port_connector_type	string
port_index <i>optional</i>	Index of the port in the IO module. Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
protocols <i>optional</i>	List of supported protocols for the port. Was added in version 2.0.0.0.	< FcPortProtocolEnum > array
protocols_l10n <i>optional</i>	Localized message array corresponding to protocols Was added in version 2.0.0.0.	< string > array
requested_speed <i>optional</i>		FcPortSpeedEnum
requested_speed_l10n <i>optional</i>	Localized message string corresponding to requested_speed	string
scsi_mode <i>optional</i>	Was added in version 3.0.0.0.	FcPortScsiModeEnum
scsi_mode_l10n <i>optional</i>	Localized message string corresponding to scsi_mode Was added in version 3.0.0.0.	string
sfp <i>optional</i>	This is the embeddable reference form of sfp_id attribute.	hardware_instance
sfp_id <i>optional</i>	Unique identifier of the hardware instance of type 'SFP' (Small Form-factor Pluggable) inserted into the port.	string
stale_state <i>optional</i>	Indicator of the stale state of the port. Was added in version 2.0.0.0.	PortStaleStateEnum
stale_state_l10n <i>optional</i>	Localized message string corresponding to stale_state Was added in version 2.0.0.0.	string
supported_speeds <i>optional</i>	List of supported transmission speeds for the port.	< FcPortSpeedEnum > array
supported_speeds_l10n <i>optional</i>	Localized message array corresponding to supported_speeds	< string > array

Name	Description	Schema
wwn <i>optional</i>	World Wide Name (WWN) of the port. More specifically, it's the World Wide Port Name (WWPN) used for SCSI Protocol.	string
wwn_node <i>optional</i>	World Wide Name (WWN) of the Node of the port. More specifically, it's the World Wide Node Name (WWNN). Was added in version 3.0.0.0.	string
wwn_nvme <i>optional</i>	World Wide Name (WWN) of NVME port. Was added in version 2.0.0.0.	string

fc_port_modify

Name	Schema
requested_speed <i>required</i>	FcPortSpeedEnum

fc_target_instance

Information about the FC targets.

Was added in version 4.0.0.0.

Name	Description	Schema
wwnn <i>optional</i>	Unique identifier for World Wide Node Name.	string
wwpn <i>optional</i>	Unique identifier for World Wide Port Name.	string

file_dhsm_config_create

Was added in version 3.0.0.0.

Name	Description	Schema
nas_server_id <i>required</i>	Identifier of the parent NAS server. name:{name} can be used instead of {id}. For example: 'nas_server_id':'name:nas_server_name'	string
password <i>required</i>	The password for authentication to the DHSM server. Length : 1 - 15	string (password)

Name	Description	Schema
user_name <i>required</i>	User name for authentication to the DHSM server. Length : 1 - 64	string

file_dhsm_config_instance

Was added in version 3.0.0.0. This resource type has queriable association from nas_server

Name	Description	Schema
id <i>optional</i> <i>read-only</i>	Unique identifier of the DHSM Server object.	string
nas_server <i>optional</i>	This is the embeddable reference form of nas_server_id attribute.	nas_server_instance
nas_server_id <i>optional</i>	Identifier of the parent NAS server.	string
user_name <i>optional</i>	User name for authentication to the DHSM server. Length : 1 - 64	string

file_dhsm_config_modify

Was added in version 3.0.0.0.

Name	Description	Schema
password <i>optional</i>	The password for authentication to the DHSM server. Length : 1 - 15	string (password)
user_name <i>optional</i>	User name for authentication to the DHSM server. Length : 1 - 64	string

file_dns_create

Name	Description	Schema
domain <i>required</i>	Name of the DNS domain, where the NAS Server does host names lookup when an FQDN is not specified in the request. Length : 1 - 255	string

Name	Description	Schema
ip_addresses <i>required</i>	The list of DNS server IP addresses. The addresses may be IPv4 or IPv6.	< string (ip-address) > array
nas_server_id <i>required</i>	Unique identifier of the associated NAS Server instance that uses this DNS object. Only one DNS object per NAS Server is supported. name:{name} can be used instead of {id}. For example: 'nas_server_id':'name:nas_server_name'	string
transport <i>optional</i>		FileDNSTransportEnum

file_dns_instance

This resource type has queriable association from nas_server

Name	Description	Schema
domain <i>optional</i>	Name of the DNS domain, where the NAS Server does host names lookup when an FQDN is not specified in the request.	string
id <i>optional</i>	Unique identifier of the DNS server.	string
ip_addresses <i>optional</i>	The list of DNS server IP addresses. The addresses may be IPv4 or IPv6.	< string (ip-address) > array
is_destination_override_enabled <i>optional</i>	Used in replication context when the user wants to override the settings on the destination. Was added in version 3.0.0.0. Default : false	boolean
nas_server <i>optional</i>	This is the embeddable reference form of nas_server_id attribute.	nas_server_instance
nas_server_id <i>optional</i>	Unique identifier of the associated NAS Server instance that uses this DNS object. Only one DNS object per NAS Server is supported.	string
source_parameters <i>optional</i>	Information about the corresponding source NAS Server. Only populated when is_destination_override_enabled flag is set to true. Was added in version 3.0.0.0. Filtering on the fields of this embedded resource is not supported.	source_parameters

Name	Description	Schema
transport <i>optional</i>		FileDNSTransportEnum
transport_l10n <i>optional</i>	Localized message string corresponding to transport	string

source_parameters

Name	Description	Schema
ip_addresses <i>optional</i>	The list of DNS server IP addresses. The addresses may be IPv4 or IPv6.	< string (ip-address) > array

file_dns_modify

Name	Description	Schema
add_ip_addresses <i>optional</i>	IP addresses to add to the current list. The addresses may be IPv4 or IPv6. Error occurs if an IP address already exists. Cannot be combined with ip_addresses.	< string (ip-address) > array
domain <i>optional</i>	Name of the DNS domain, where the NAS Server does host names lookup when an FQDN is not specified in the request. Length : 1 - 255	string
ip_addresses <i>optional</i>	A new list of DNS server IP addresses to replace the existing list. The addresses may be IPv4 or IPv6.	< string (ip-address) > array
is_destination_override_enabled <i>optional</i>	Used in replication context when the user wants to override the settings on the destination. Was added in version 3.0.0.0.	boolean
remove_ip_addresses <i>optional</i>	IP addresses to remove from the current list. The addresses may be IPv4 or IPv6. Error occurs if IP address is not present. Cannot be combined with ip_addresses.	< string (ip-address) > array
transport <i>optional</i>		FileDNSTransportEnum

file_events_pool_create

Attributes for the Events Pool create operation. Was added in version 3.0.0.0.

Name	Description	Schema
file_events_publisher_servers <i>required</i>	File event service server addresses, in IPv4, IPv6, or FQDN format. Up to five file event service servers may be set per file events pool.	< string (ip-address) > array
file_events_settings <i>required</i>	List of up to three (one per category) sets of file event settings.	< file_events_settings_instance > array
name <i>required</i>	Name assigned to the set of Windows servers where file event service software is installed. Length : 1 - 80	string

file_events_pool_instance

Was added in version 3.0.0.0. This resource type has queriable association from file_events_publisher

Name	Description	Schema
destination_file_events_publisher_servers <i>optional</i>	This value is used to modify file event service server addresses of this resource when the associated NAS server is a replication destination i.e, is_replica is set. • If this value is set, file event service server addresses on the destination will be overridden with these values. • If this value is empty, file event service server addresses on the destination will be reset to the ones from the source. File event service server addresses, in IPv4, IPv6, or FQDN format. Up to five file event service servers may be set per file events pool.	< string (ip-address) > array
file_events_publisher_servers <i>optional</i>	File event service server addresses, in IPv4, IPv6, or FQDN format. Up to five file event service servers may be set per file events pool.	< string (ip-address) > array

Name	Description	Schema
file_events_publishers <i>optional</i>	List of the file_events_publishers that are associated with this file_events_pool.	< file_events_publisher_instance > array
file_events_settings <i>optional</i>	List of up to three (one per category) sets of file event settings. Filtering on the fields of this embedded resource is not supported.	< file_events_settings_instance > array
id <i>optional</i>	Unique identifier of the file event pool instance.	string
is_replica <i>optional</i>	Flag indicates if the file events pool is a replicated pool. Default : false	boolean
name <i>optional</i>	Name assigned to the set of Windows servers where file event service software is installed. This property supports case-insensitive filtering. Length : 1 - 80	string

file_events_pool_modify

Attributes for the file events pool create operation. Was added in version 3.0.0.0.

Name	Description	Schema
destination_file_events_publisher_servers <i>optional</i>	If this value is set file event service server addresses will be overridden on the destination with these values. File event service server addresses, in IPv4, IPv6, or FQDN format. Up to five file event service servers may be set per file events pool.	< string (ip-address) > array
file_events_publisher_servers <i>optional</i>	File event service server addresses, in IPv4, IPv6, or FQDN format. Up to five file event service servers may be set per file events pool.	< string (ip-address) > array
file_events_settings <i>optional</i>	List of up to three (one per category) sets of file event settings.	< file_events_settings_instance > array

Name	Description	Schema
name <i>optional</i>	Name assigned to the set of Windows servers where file event service software is installed. Length : 1 - 80	string
remove_categories <i>optional</i>	List of up to three (one per category) sets of file event settings to be removed.	< FileEventsCategoryEnum > array

file_events_publisher_create

Was added in version 3.0.0.0.

Name	Description	Schema
connection_timeout <i>optional</i>	Was added in version 3.0.0.0. Unit : millisecond Default : 1000 Minimum value : 50 Maximum value : 5000	integer (int32)
deny_access_when_all_servers_offline <i>optional</i>	Behavior when no configured file events servers respond. Values are: false - allow I/O to the file system to continue. true - deny I/O to the filesystem when an event cannot be published to any server. Default : false	boolean
file_events_pool_ids <i>optional</i>	The list of file events pool identifiers included in this file events publisher. Maximum of 3 file events pools can be associated to a file events publisher.	< string > array
heartbeat <i>optional</i>	Was added in version 3.0.0.0. Unit : second Default : 10 Minimum value : 1 Maximum value : 120	integer (int32)

Name	Description	Schema
http_port <i>optional</i>	TCP port number used but the service to connect to the CEPA server(s) with HTTP. Default port number is 12228. Set this value to 0 to disable HTTP. When enabled, connection via HTTP is attempted first. If HTTP connection is disabled, or the connection fails, then connection through MSRPC is attempted if all CEPP server(s) are defined by FQDN. The SMB account of the NAS server in the AD Domain is used to make the connection via MSRPC. Note that HTTP connections should only be used on secure networks, as it is neither SSL nor authenticated. Default : 12228 Minimum value : 0 Maximum value : 65535	integer (int32)
name <i>required</i>	Unique name of the file events publisher. Length : 1 - 80	string
password <i>optional</i>	Password of the windows user. Length : 1 - 255	string (password)
post_event_policy <i>optional</i>		PostEventPolicyEnum
username <i>optional</i>	Name of a Windows user allowing Events Publishing to connect to CEPA servers. To ensure that a secure connection (via Microsoft RPC protocol) is used disable HTTP by setting http_port to 0. Length : 1 - 1023	string

file_events_publisher_instance

Was added in version 3.0.0.0. This resource type has queriable associations from file_events_pool, nas_server

Name	Description	Schema
connection_timeout <i>optional</i>	Was added in version 3.0.0.0. This resource type has queriable associations from file_events_pool, nas_server Unit : millisecond Default : 1000 Minimum value : 50 Maximum value : 5000	integer (int32)

Name	Description	Schema
deny_access_when_all_servers_offline <i>optional</i>	Behavior when no configured file events servers respond. Values are: false - allow I/O to the file system to continue. true - deny I/O to the filesystem when an event cannot be published to any server. Default : false	boolean
file_events_pools <i>optional</i>	List of the file_events_pools that are associated with this file_events_publisher.	< file_events_pool_instance > array
heartbeat <i>optional</i>	Was added in version 3.0.0.0. This resource type has queriable associations from file_events_pool, nas_server Unit : second Default : 10 Minimum value : 1 Maximum value : 120	integer (int32)
http_port <i>optional</i>	TCP port number used but the service to connect to the CEPA server(s) with HTTP. Default port number is 12228. Set this value to 0 to disable HTTP. When enabled, connection via HTTP is attempted first. If HTTP connection is disabled, or the connection fails, then connection through MSRPC is attempted if all CEPP server(s) are defined by FQDN. The SMB account of the NAS server in the AD Domain is used to make the connection via MSRPC. Note that HTTP connections should only be used on secure networks, as it is neither SSL nor authenticated. Default : 12228 Minimum value : 0 Maximum value : 65535	integer (int32)
id <i>optional</i>	Unique identifier of the file events publisher.	string
is_enabled <i>optional</i>	Whether or not the event publisher will publish events.	boolean
is_replica <i>optional</i>	Flag indicates if the file events publisher is a replicated publisher. Default : false	boolean

Name	Description	Schema
name <i>optional</i>	Unique name of the file events publisher. This property supports case-insensitive filtering. Length : 1 - 80	string
nas_servers <i>optional</i>	List of the nas_servers that are associated with this file_events_publisher.	< nas_server_instance > array
post_event_policy <i>optional</i>		PostEventPolicyEnum
post_event_policy_l10n <i>optional</i>	Localized message string corresponding to post_event_policy Was added in version 3.0.0.0.	string
username <i>optional</i>	Name of a Windows user allowing Events Publishing to connect to CEPA servers. To ensure that a secure connection (via Microsoft RPC protocol) is used disable HTTP by setting http_port to 0.	string

file_events_publisher_modify

Was added in version 3.0.0.0.

Name	Description	Schema
connection_timeout <i>optional</i>	Was added in version 3.0.0.0. Unit : millisecond Minimum value : 50 Maximum value : 5000	integer (int32)
deny_access_when_all_servers_offline <i>optional</i>	Behavior when no configured file events servers respond. Values are: false - allow I/O to the file system to continue. true - deny I/O to the filesystem when an event cannot be published to any server.	boolean
file_events_pool_ids <i>optional</i>	The list of file events pool identifiers included in this file events publisher. Maximum of 3 file events pools can be associated to a file events publisher.	< string > array

Name	Description	Schema
heartbeat <i>optional</i>	Was added in version 3.0.0.0. Unit : second Minimum value : 1 Maximum value : 120	integer (int32)
http_port <i>optional</i>	TCP port number used but the service to connect to the CEPA server(s) with HTTP. Default port number is 12228. Set this value to 0 to disable HTTP. When enabled, connection via HTTP is attempted first. If HTTP connection is disabled, or the connection fails, then connection through MSRPC is attempted if all CEPP server(s) are defined by FQDN. The SMB account of the NAS server in the AD Domain is used to make the connection via MSRPC. Note that HTTP connections should only be used on secure networks, as it is neither SSL nor authenticated. Minimum value : 0 Maximum value : 65535	integer (int32)
is_enabled <i>optional</i>	Whether or not the event publisher will publish events.	boolean
name <i>optional</i>	Unique name of the file events publisher. Length : 1 - 80	string
password <i>optional</i>	Password of the windows user. Length : 1 - 255	string (password)
post_event_policy <i>optional</i>		PostEventPolicyEnum
username <i>optional</i>	Name of a Windows user allowing Events Publishing to connect to CEPA servers. To ensure that a secure connection (via Microsoft RPC protocol) is used disable HTTP by setting http_port to 0. Length : 1 - 1023	string

file_events_settings_instance

A category, along with a boolean setting for each kind of file protocol event that determines whether to notify the file event service in that category (timeframe). Was added in version 3.0.0.0.

Name	Description	Schema
close_dir <i>optional</i>	Sends a notification when a directory is closed. Protocols: SMB. Default : false	boolean
close_modified <i>optional</i>	Sends a notification when a file was modified before closing. Protocols: SMB, NFS(v4). Default : false	boolean
close_unmodified <i>optional</i>	Sends a notification when a file was not modified before closing. Protocols: SMB, NFS(v4). Default : false	boolean
create_dir <i>optional</i>	Sends a notification when a directory is created. Protocols: SMB, NFS(v3/v4). Default : false	boolean
create_file <i>optional</i>	Sends a notification when a file is created. Protocols: SMB, NFS(v3/v4). Default : false	boolean
delete_dir <i>optional</i>	Sends a notification when a directory is deleted. Protocols: SMB, NFS(v3/v4). Default : false	boolean
delete_file <i>optional</i>	Sends a notification when a file is deleted. Protocols: SMB, NFS(v3/v4). Default : false	boolean
events_category <i>optional</i>		FileEventsCategoryEnum
file_read <i>optional</i>	Sends a notification when a file read is received over NFS. Protocols: NFS(v3/v4). Default : false	boolean
file_write <i>optional</i>	Sends a notification when a file write is received over NFS. Protocols: NFS(v3/v4). Default : false	boolean
open_dir <i>optional</i>	Sends a notification when a directory is opened. Protocols: SMB. Default : false	boolean

Name	Description	Schema
open_file_no_access <i>optional</i>	Sends a notification when a file is opened for a change other than read or write access. Protocols: SMB, NFS(v4). Default : false	boolean
open_file_read <i>optional</i>	Sends a notification when a file is opened for read access. Protocols: SMB, NFS(v4). Default : false	boolean
open_file_read_offline <i>optional</i>	Sends a notification when a offline file is opened for read access. Protocols: SMB, NFS(v4). Default : false	boolean
open_file_write <i>optional</i>	Sends a notification when a file is opened for write access. Protocols: SMB, NFS(v4). Default : false	boolean
open_file_write_offline <i>optional</i>	Sends a notification when a offline file in opened for write access. Protocols: SMB, NFS(v4). Default : false	boolean
rename_dir <i>optional</i>	Sends a notification when a directory is renamed. Protocols: SMB, NFS(v3/v4). Default : false	boolean
rename_file <i>optional</i>	Sends a notification when a file is renamed. Protocols: SMB, NFS(v3/v4). Default : false	boolean
set_acl_dir <i>optional</i>	Sends a notification when the securirty descriptor (ACL) on a directory is modified. Protocols: SMB. Default : false	boolean
set_acl_file <i>optional</i>	Sends a notification when the security descriptor (ACL) on a files is modified. Protocols: SMB. Default : false	boolean
set_sec_dir <i>optional</i>	Sends a notification when a directory security modification is received over NFS. Protocols: NFS(v3/v4). Default : false	boolean
set_sec_file <i>optional</i>	Sends a notification when a file security modification is received over NFS. Protocols: NFS(v3/v4). Default : false	boolean

file_extended_localized_message

An object describing the localized messages. Was added in version 3.0.0.0.

Name	Schema
full_description <i>optional</i>	error_message
message <i>optional</i>	error_message
recommended_action <i>optional</i>	error_message

file_ftp_create

Parameters for file FTP create operation.

Name	Description	Schema
audit_dir <i>optional</i>	(Applies when the value of is_audit_enabled is true.) Directory of FTP/SFTP audit files. Logs are saved in '/' directory (default) or in a mounted file system (Absolute path of the File system directory which should already exist). Length : 0 - 511	string
audit_max_size <i>optional</i>	Parameters for file FTP create operation. Unit : bytes Minimum value : 40960 Maximum value : 5368709120	integer (int64)
default_home_dir <i>optional</i>	(Applies when the value of is_homedir_limit_enabled is false.) Default directory of FTP and SFTP clients who have a home directory that is not defined or accessible. Length : 0 - 511	string

Name	Description	Schema
groups <i>optional</i>	Allowed or denied user groups, depending on the value of the <code>is_allowed_groups</code> attribute. - If allowed groups exist, only users who are members of these groups and no others can connect to the NAS server through FTP or SFTP. - If denied groups exist, all users who are members of those groups always have access denied to the NAS server through FTP or SFTP. - If the list is empty, there is no restriction to the NAS server access through FTP or SFTP based on the user group.	< string > array
hosts <i>optional</i>	Allowed or denied hosts, depending on the value of the <code>is_allowed_hosts</code> attribute. A host is defined using its IP address. Subnets using CIDR notation are also supported. - If allowed hosts exist, only those hosts and no others can connect to the NAS server through FTP or SFTP. - If denied hosts exist, they always have access denied to the NAS server through FTP or SFTP. - If the list is empty, there is no restriction to NAS server access through FTP or SFTP based on the host IP address. - The addresses may be IPv4 or IPv6.	< string (ip-address) > array
is_allowed_groups <i>optional</i>	Indicates whether the groups attribute contains allowed or denied user groups. Values are: - true - Groups contains allowed user groups. - false - Groups contains denied user groups. Default : true	boolean
is_allowed_hosts <i>optional</i>	Indicates whether the hosts attribute contains allowed or denied hosts. Values are: - true - Hosts contains allowed hosts. - false - Hosts contains denied hosts. Default : true	boolean
is_allowed_users <i>optional</i>	Indicates whether the users attribute contains allowed or denied users. Values are: - true - Users contains allowed users. - false - Users contains denied users. Default : true	boolean
is_anonymous_authentication_enabled <i>optional</i>	Indicates whether FTP clients can be authenticated anonymously. Values are: - true - Anonymous user name is accepted. - false - Anonymous user name is not accepted. Default : false	boolean

Name	Description	Schema
is_audit_enabled <i>optional</i>	Indicates whether the activity of FTP and SFTP clients is tracked in audit files. Values are: - true - FTP/SFTP activity is tracked. - false - FTP/SFTP activity is not tracked. Default : false	boolean
is_ftp_enabled <i>optional</i>	Indicates whether the FTP server is enabled on the NAS server specified in the nasServer attribute. Values are: - true - FTP server is enabled on the specified NAS server. - false - FTP server is disabled on the specified NAS server. Default : false	boolean
is_homedir_limit_enabled <i>optional</i>	Indicates whether an FTP or SFTP user access is limited to the home directory of the user. Values are: - true - An FTP or SFTP user can access only the home directory of the user. - false - FTP and SFTP users can access any NAS server directory, according to NAS server permissions. Default : true	boolean
is_sftp_enabled <i>optional</i>	Indicates whether the SFTP server is enabled on the NAS server specified in the nasServer attribute. Values are: - true - SFTP server is enabled on the specified NAS server. - false - SFTP server is disabled on the specified NAS server. Default : false	boolean
is_smb_authentication_enabled <i>optional</i>	Indicates whether FTP and SFTP clients can be authenticated using an SMB user name. These user names are defined in a Windows domain controller, and their formats are user@domain or domain\user. Values are: - true - SMB user names are accepted for authentication. - false - SMB user names are not accepted for authentication. Default : true	boolean
is_unix_authentication_enabled <i>optional</i>	Indicates whether FTP and SFTP clients can be authenticated using a Unix user name. Unix user names are defined in LDAP, NIS servers or in local passwd file. Values are: - true - Unix user names are accepted for authentication. - false - Unix user names are not accepted for authentication. Default : true	boolean

Name	Description	Schema
message_of_the_day <i>optional</i>	Message of the day displayed on the console of FTP clients after their authentication. The length of this message is limited to 511 bytes of UTF-8 characters, and the length of each line is limited to 80 bytes. Length : 0 - 511	string
nas_server_id <i>required</i>	Unique identifier of the NAS server that is configured with the FTP server. name:{name} can be used instead of {id}. For example: 'nas_server_id':name:nas_server_name'	string
users <i>optional</i>	Allowed or denied users, depending on the value of the is_allowed_user attribute. - If allowed users exist, only those users and no others can connect to the NAS server through FTP or SFTP. - If denied users exist, they have always access denied to the NAS server through FTP or SFTP. - If the list is empty, there is no restriction to the NAS server access through FTP or SFTP based on the user name.	< string > array
welcome_message <i>optional</i>	Welcome message displayed on the console of FTP and SFTP clients before their authentication. The length of this message is limited to 511 bytes of UTF-8 characters, and the length of each line is limited to 80 bytes. Length : 0 - 511	string

file_ftp_instance

Properties of the file FTP instance. This resource type has queriable association from nas_server

Name	Description	Schema
audit_dir <i>optional</i>	(Applies when the value of is_audit_enabled is true.) Directory of FTP/SFTP audit files. Logs are saved in '/' directory (default) or in a mounted file system (Absolute path of the File system directory which should already exist). Length : 0 - 511	string
audit_max_size <i>optional</i>	Properties of the file FTP instance. This resource type has queriable association from nas_server Unit : bytes Minimum value : 40960 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
default_home_dir <i>optional</i>	(Applies when the value of is_homedir_limit_enabled is false.) Default directory of FTP and SFTP clients that have a home directory which is not defined or accessible. Length : 0 - 511	string
groups <i>optional</i>	Allowed or denied user groups, depending on the value of the is_allowed_groups attribute. - If allowed groups exist, only users who are members of these groups and no others can connect to the NAS server through FTP or SFTP. - If denied groups exist, all users who are members of those groups always have access denied to the NAS server through FTP or SFTP. - If the list is empty, there is no restriction to the NAS server access through FTP or SFTP based on the user group.	< string > array
hosts <i>optional</i>	Allowed or denied hosts, depending on the value of the is_allowed_hosts attribute. A host is defined using its IP address. Subnets using CIDR notation are also supported. - If allowed hosts exist, only those hosts and no others can connect to the NAS server through FTP or SFTP. - If denied hosts exist, they always have access denied to the NAS server through FTP or SFTP. - If the list is empty, there is no restriction to NAS server access through FTP or SFTP based on the host IP address. - The addresses may be IPv4 or IPv6.	< string (ip-address) > array
id <i>optional</i>	Unique identifier of the FTP server.	string
is_allowed_groups <i>optional</i>	Indicates whether the groups attribute contains allowed or denied user groups. Values are: - true - Groups contains allowed user groups. - false - Groups contains denied user groups. Default : true	boolean
is_allowed_hosts <i>optional</i>	Indicates whether the hosts attribute contains allowed or denied hosts. Values are: - true - Hosts contains allowed hosts. - false - Hosts contains denied hosts. Default : true	boolean
is_allowed_users <i>optional</i>	Indicates whether the users attribute contains allowed or denied users. Values are: - true - Users contains allowed users. - false - Users contains denied users. Default : true	boolean

Name	Description	Schema
is_anonymous_authentication_enabled <i>optional</i>	Indicates whether FTP clients can be authenticated anonymously. Values are: - true - Anonymous user name is accepted. - false - Anonymous user name is not accepted. Default : true	boolean
is_audit_enabled <i>optional</i>	Indicates whether the activity of FTP and SFTP clients is tracked in audit files. Values are: - true - FTP/SFTP activity is tracked. - false - FTP/SFTP activity is not tracked. Default : false	boolean
is_ftp_enabled <i>optional</i>	Indicates whether the FTP server is enabled on the NAS server. Values are: - true - FTP server is enabled on the specified NAS server. - false - FTP server is disabled on the specified NAS server.	boolean
is_homedir_limit_enabled <i>optional</i>	Indicates whether an FTP or SFTP user access is limited to his home directory. Values are: - true - An FTP or SFTP user can access his or her own home directory only. - false - FTP and SFTP users can access any NAS server directory, according to NAS server permissions.	boolean
is_sftp_enabled <i>optional</i>	Indicates whether the SFTP server is enabled on the NAS server. Values are: - true - SFTP server is enabled on the specified NAS server. - false - SFTP server is disabled on the specified NAS server. Default : false	boolean
is_smb_authentication_enabled <i>optional</i>	Indicates whether FTP and SFTP clients can be authenticated using an SMB user name. These user names are defined in a Windows domain controller, and their formats are user@domain or domain/user. Values are: - true - SMB user names are accepted for authentication. - false - SMB user names are not accepted for authentication. Default : true	boolean
is_unix_authentication_enabled <i>optional</i>	Indicates whether FTP and SFTP clients can be authenticated using a Unix user name. Unix user names are defined in LDAP, NIS servers or in local passwd file. Values are: - true - Unix user names are accepted for authentication. - false - Unix user names are not accepted for authentication. Default : true	boolean

Name	Description	Schema
message_of_the_day <i>optional</i>	Message of the day displayed on the console of FTP clients after their authentication. The length of this message is limited to 511 bytes of UTF-8 characters, and the length of each line is limited to 80 bytes. Length : 0 - 511	string
nas_server <i>optional</i>	This is the embeddable reference form of nas_server_id attribute.	nas_server_instance
nas_server_id <i>optional</i>	Unique identifier of the NAS server that is configured with the FTP server.	string
users <i>optional</i>	Allowed or denied users, depending on the value of the is_allowed_users attribute. - If allowed users exist, only those users and no others can connect to the NAS server through FTP or SFTP. - If denied users exist, they have always access denied to the NAS server through FTP or SFTP. - If the list is empty, there is no restriction to the NAS server access through FTP or SFTP based on the user name.	< string > array
welcome_message <i>optional</i>	Welcome message displayed on the console of FTP and SFTP clients before their authentication. The length of this message is limited to 511 bytes of UTF-8 characters, and the length of each line is limited to 80 bytes. Length : 0 - 511	string

file_ftp_modify

Parameters for file FTP modify operation.

Name	Description	Schema
add_groups <i>optional</i>	Groups to add to the current groups. Error occurs if the group already exists. Cannot be combined with groups.	< string > array
add_hosts <i>optional</i>	Host IP addresses to add to the current hosts. The addresses may be IPv4 or IPv6. Error occurs if the IP address already exists. Cannot be combined with hosts.	< string (ip-address) > array
add_users <i>optional</i>	Users to add to the current users. Error occurs if the user already exist. Cannot be combined with users.	< string > array

Name	Description	Schema
audit_dir <i>optional</i>	(Applies when the value of is_audit_enabled is true.) Directory of FTP/SFTP audit files. Logs are saved in '/' directory (default) or in a mounted file system (Absolute path of the File system directory which should already exist). Length : 0 - 511	string
audit_max_size <i>optional</i>	Parameters for file FTP modify operation. Unit : bytes Minimum value : 40960 Maximum value : 5368709120	integer (int64)
default_home_dir <i>optional</i>	(Applies when the value of is_homedir_limit_enabled is false.) Default directory of FTP and SFTP clients that have a home directory which is not defined or accessible. Length : 0 - 511	string
groups <i>optional</i>	Allowed or denied user groups, depending on the value of the is_allowed_groups attribute. - If allowed groups exist, only users who are members of these groups and no others can connect to the NAS server through FTP or SFTP. - If denied groups exist, all users who are members of those groups always have access denied to the NAS server through FTP or SFTP. - If the list is empty, there is no restriction to the NAS server access through FTP or SFTP based on the user group.	< string > array
hosts <i>optional</i>	Allowed or denied hosts, depending on the value of the is_allowed_hosts attribute. A host is defined using its IP address. Subnets using CIDR notation are also supported. - If allowed hosts exist, only those hosts and no others can connect to the NAS server through FTP or SFTP. - If denied hosts exist, they always have access denied to the NAS server through FTP or SFTP. - If the list is empty, there is no restriction to NAS server access through FTP or SFTP based on the host IP address. - The addresses may be IPv4 or IPv6.	< string (ip-address) > array
is_allowed_groups <i>optional</i>	Indicates whether the groups attribute contains allowed or denied user groups. Values are: - true - groups contains allowed user groups. - false - groups contains denied user groups.	boolean

Name	Description	Schema
is_allowed_hosts <i>optional</i>	Indicates whether the hosts attribute contains allowed or denied hosts. Values are: true - hosts contains allowed hosts. false - hosts contains denied hosts.	boolean
is_allowed_users <i>optional</i>	Indicates whether the users attribute contains allowed or denied users. Values are: - true - users contains allowed users. - false - users contains denied users.	boolean
is_anonymous_authentication_enabled <i>optional</i>	Indicates whether FTP clients can be authenticated anonymously. Values are: - true - Anonymous user name is accepted. - false - Anonymous user name is not accepted.	boolean
is_audit_enabled <i>optional</i>	Indicates whether the activity of FTP and SFTP clients is tracked in audit files. Values are: - true - FTP/SFTP activity is tracked. - false - FTP/SFTP activity is not tracked.	boolean
is_ftp_enabled <i>optional</i>	Indicates whether the FTP server is enabled on the NAS server specified in the nasServer attribute. Values are: - true - FTP server is enabled on the specified NAS server. - false - FTP server is disabled on the specified NAS server.	boolean
is_homedir_limit_enabled <i>optional</i>	Indicates whether an FTP or SFTP user access is limited to the home directory of the user. Values are: - true - An FTP or SFTP user can access only the home directory of the user. - false - FTP and SFTP users can access any NAS server directory, according to NAS server permissions.	boolean
is_sftp_enabled <i>optional</i>	Indicates whether the SFTP server is enabled on the NAS server specified in the nasServer attribute. Values are: - true - SFTP server is enabled on the specified NAS server. - false - SFTP server is disabled on the specified NAS server.	boolean
is_smb_authentication_enabled <i>optional</i>	Indicates whether FTP and SFTP clients can be authenticated using an SMB user name. These user names are defined in a Windows domain controller, and their formats are user@domain or domain\user. Values are: - true - SMB user names are accepted for authentication. - false - SMB user names are not accepted for authentication.	boolean

Name	Description	Schema
is_unix_authentication_enabled <i>optional</i>	Indicates whether FTP and SFTP clients can be authenticated using a Unix user name. Unix user names are defined in LDAP, NIS servers or in local passwd file. Values are: - true - Unix user names are accepted for authentication. - false - Unix user names are not accepted for authentication.	boolean
message_of_the_day <i>optional</i>	Message of the day displayed on the console of FTP clients after their authentication. The length of this message is limited to 511 bytes of UTF-8 characters, and the length of each line is limited to 80 bytes. Length : 0 - 511	string
remove_groups <i>optional</i>	Groups to remove from the current groups. Error occurs if the group is not present. Cannot be combined with groups.	< string > array
remove_hosts <i>optional</i>	Host IP addresses to remove from the current hosts. The addresses may be IPv4 or IPv6. Error occurs if the IP address is not present. Cannot be combined with hosts.	< string (ip-address) > array
remove_users <i>optional</i>	Users to remove from the current users. Error occurs if the user is not present. Cannot be combined with users.	< string > array
users <i>optional</i>	Allowed or denied users, depending on the value of the is_allowed_users attribute. - If allowed users exist, only those users and no others can connect to the NAS server through FTP or SFTP. - If denied users exist, they always have access denied to the NAS server through FTP or SFTP. - If the list is empty, there is no restriction to the NAS server access through FTP or SFTP based on the user name.	< string > array
welcome_message <i>optional</i>	Welcome message displayed on the console of FTP and SFTP clients before their authentication. The length of this message is limited to 511 bytes of UTF-8 characters, and the length of each line is limited to 80 bytes. Length : 0 - 511	string

file_import_interface_create

Arguments for the file import interface create operation. Was added in version 3.0.0.0.

Name	Description	Schema
gateway <i>optional</i>	Gateway address for the import interface. IPv4 and IPv6 are supported. Length : 1 - 45	string (ip-address)
ip_address <i>required</i>	IP address of the import interface. IPv4 and IPv6 are supported. Length : 1 - 45	string (ip-address)
ip_port_id <i>required</i>	Unique identifier of the IP Port.	string
prefix_length <i>required</i>	Prefix length for the import interface. IPv4 and IPv6 are supported. Default : 24 Minimum value : 1 Maximum value : 128	integer (int32)
vlan_id <i>optional</i>	Virtual Local Area Network (VLAN) identifier for the import interface. The import interface uses the identifier to accept packets that have matching VLAN tags. Default : 0 Minimum value : 0 Maximum value : 4094	integer (int32)

file_import_interface_instance

Was added in version 3.0.0.0.

Name	Description	Schema
gateway <i>optional</i>	Gateway address for the import interface. IPv4 and IPv6 are supported.	string (ip-address)
id <i>optional</i>	Unique identifier of the file import interface.	string
ip_address <i>optional</i>	IP address of the import interface. IPv4 and IPv6 are supported.	string (ip-address)
ip_port_id <i>optional</i>	Unique identifier of the IP Port.	string

Name	Description	Schema
prefix_length <i>optional</i>	Prefix length for the import interface. IPv4 and IPv6 are supported. Minimum value : 0 Maximum value : 2147483647	integer (int32)
vlan_id <i>optional</i>	Virtual Local Area Network (VLAN) identifier for the import interface. The import interface uses the identifier to accept packets that have matching VLAN tags. Default : 0 Minimum value : 0 Maximum value : 4094	integer (int32)

file_import_interface_modify

Arguments for the file import interface modify operation. Was added in version 3.0.0.0.

Name	Description	Schema
gateway <i>optional</i>	Gateway address for the import interface. IPv4 and IPv6 are supported. Length : 1 - 45	string (ip-address)
ip_address <i>optional</i>	IP address of the import interface. IPv4 and IPv6 are supported. Length : 1 - 45	string (ip-address)
ip_port_id <i>optional</i>	Unique indentifier of the IP Port.	string
prefix_length <i>optional</i>	Prefix length for the import interface. IPv4 and IPv6 are supported. Minimum value : 1 Maximum value : 128	integer (int32)
vlan_id <i>optional</i>	Virtual Local Area Network (VLAN) identifier for the import interface. The import interface uses the identifier to accept packets that have matching VLAN tags. Minimum value : 0 Maximum value : 4094	integer (int32)

file_import_nas_server_instance

Was added in version 3.0.0.0. Values was added in 3.2.0.0: is_importable, non_importable_criteria,

non_importable_messages. Values was added in 4.1.0.0: is_cta_configured.

Name	Description	Schema
file_interfaces <i>optional</i>	Filtering on the fields of this embedded resource is not supported.	< file_import_source_network_interface > array
file_systems <i>optional</i>	Filtering on the fields of this embedded resource is not supported.	< file_import_source_filesystem > array
id <i>optional</i>	Unique identifier of the NAS Server for the file import connection.	string
importable_criteria <i>optional</i>	Indicates NAS Server importable criteria. The expected values are NOT_READY_FOR_IMPORT, READY. For nasservers that are already been imported the value is NOT_READY_FOR_IMPORT. As the nasservers are already imported they are not available for import hence the enum NOT_READY_FOR_IMPORT. Was added in version 3.0.0.0. Was deprecated in version 3.0.0.0.	string
is_cta_configured <i>optional</i>	Indicates whether the NAS server is configured in Cloud Tiering Appliance. If true, CTA credentials need to be passed in to import the NAS server to PowerStore. Was added in version 4.1.0.0.	boolean
is_importable <i>optional</i>	Indicates whether the NAS Server is ready to import. Was added in version 3.2.0.0.	boolean
name <i>optional</i>	Name of the NAS Server for the file import connection.	string
non_importable_criteria <i>optional</i>	When is_importable is false, this lists the reasons the import cannot be performed. Was added in version 3.2.0.0.	< FileImportNasServerImportableCriteriaEnum > array
non_importable_criteria_i10n <i>optional</i>	Localized message array corresponding to non_importable_criteria Was added in version 3.2.0.0.	< string > array

Name	Description	Schema
non_importable_messages <i>optional</i>	When is_importable is false, these messages describe the reasons and recommended remedies. Was added in version 3.2.0.0. Filtering on the fields of this embedded resource is not supported.	< file_extended_localized_message > array
non_importable_reasons <i>optional</i>	If the NAS server is not importable, this is a '#'-separated list of one or more reason codes that report why it is not importable. Was added in version 3.0.0.0. Was deprecated in version 3.0.0.0.	string
protocol_type <i>optional</i>		FileImportNasServerProtocolTypeEnum
protocol_type_110n <i>optional</i>	Localized message string corresponding to protocol_type Was added in version 3.0.0.0.	string
remote_system_id <i>optional</i>	Unique identifier of the remote system where the NAS Server exists.	string
smb_server <i>optional</i>		file_import_smb_configuration

file_import_session_cancel

Was added in version 3.0.0.0.

Name	Description	Schema
domain_admin_password <i>optional</i>	Password for authentication to Active Directory domain with permissions to join computers. This is required for a non-standalone SMB import.	string (password)
domain_admin_username <i>optional</i>	User name for authentication to Active Directory domain with permissions to join computers. This is required for a non-standalone SMB import.	string
force <i>optional</i>	Normally a cancel will fail if the source system is unresponsive. When the force flag is true, the cancel will continue anyway. Note that source system cleanup will not be done. Default : false	boolean

file_import_session_commit

Was added in version 3.0.0.0.

Name	Description	Schema
force <i>optional</i>	Normally a commit will fail if the source system is unresponsive. When the force flag is true, the commit will continue anyway. Note that the source system cleanup will not be done. Default : false	boolean

file_import_session_create

Was added in version 3.0.0.0.

Name	Description	Schema
cta_admin_password <i>optional</i>	The management password to access the Cloud Tiering Appliance (CTA). This is required for Unity Stub-Aware migration. Was added in version 4.1.0.0. Maximal length : 1023	string (password)
cta_admin_username <i>optional</i>	The management user name to access the Cloud Tiering Appliance (CTA). This is required for Unity Stub-Aware migration. Was added in version 4.1.0.0. Length : 1 - 1023	string
description <i>optional</i>	Description of the file import session. The name can contain a maximum of 128 Unicode characters. It cannot contain unprintable characters. Maximal length : 128	string
file_interfaces <i>optional</i>	Optional list of mappings from source file interfaces to local bond/FSN. By default, all file interfaces associated with source NAS Server will be mapped with system bond/FSN. For alternate mappings for some or all of the source file interfaces, use this to specify the file interface and bond/FSN pairs. Any source file interfaces without an explicit mapping will be mapped to the system bond/FSN.	< file_import_session_file_interface_mapping > array
import_file_interface_id <i>required</i>	Unique identifier of the file interface in the destination system that is used for importing data from the source system.	string

Name	Description	Schema
name <i>required</i>	Name of the import session. The name must be unique in the PowerStore cluster and can contain a maximum of 32 unicode characters. It cannot contain special HTTP characters, unprintable characters, or white space. Maximal length : 32	string
protection_policy_id <i>optional</i>	Unique identifier of the protection policy that will be applied to an imported NAS server or filesystem after the import completes. Only snapshot policies are supported in an import. Once the import completes, you can add a replication policy. If you try to import a replication policy, the import job will fail. name:{name} can be used instead of {id}. For example: 'protection_policy_id':'name:policy_name'	string
remote_system_id <i>required</i>	Unique identifier of the storage system that contains the source NAS server to be imported. You can query the source NAS server object to get the identifier of the source system. Alternatively, you can use the remote_system object to get this information. name:{name} can be used instead of {id}. For example: 'remote_system_id':'name:remote_system_name'	string
scheduled_timestamp <i>optional</i>	Indicates the desired date and time at which the file import session should be scheduled to run. The date is specified in ISO 8601 format with time expressed in UTC format.	string
source_dhsm_password <i>optional</i>	The password for authentication to DHSM Server on the source NAS Server required for importing FLR filesystems. Maximal length : 1023	string (password)
source_dhsm_username <i>optional</i>	The username for authentication to DHSM Server on the source NAS Server required for importing FLR filesystems. Length : 1 - 1023	string
source_interface <i>optional</i>	Name of the migration interface on the source NAS Server. Was added in version 4.0.0.0.	string

Name	Description	Schema
source_resource_id <i>required</i>	Unique identifier of the source NAS server to be imported. Refer to the following objects for more information: VNX import_vnx_nas_server. name:{name} can be used instead of {id}. For example: 'source_resource_id':'name:nas_server_name'	string
source_smb_admin_password <i>optional</i>	Password for authentication to SMB Server on the source NAS Server with administrator privilege. This is required for SMB import. Maximal length : 1023	string (password)
source_smb_admin_username <i>optional</i>	User name for authentication to SMB Server on the source NAS server with administrator privilege. This is required for SMB import. Length : 1 - 1023	string

file_import_session_cutover

Was added in version 3.0.0.0.

Name	Description	Schema
domain_admin_password <i>optional</i>	Password for authentication to Active Directory domain with permissions to join computers. This is required for a non-standalone SMB import.	string (password)
domain_admin_username <i>optional</i>	User name for authentication to Active Directory domain with permissions to join computers. This is required for a non-standalone SMB import.	string
new_source_smb_server_configuration <i>optional</i>		file_import_session_cutover_smb_properties

file_import_session_cutover_smb_properties

The new SMB server configuration to be applied for the source NAS server to avoid name conflict with the destination NAS server after cutover. Was added in version 3.0.0.0.

Name	Description	Schema
computer_name <i>optional</i>	DNS name of the associated computer account when the source SMB server is joined to an Active Directory domain. This name is limited to 63 characters and must not contain the following characters: - comma (,) - tilde (~) - colon (:) - exclamation point (!) - at sign (@) - number sign (#) - dollar sign (\$) - percent (%) - caret (^) - ampersand (&) - apostrophe (') - period (.) - note that if you enter string with period only the first word will be kept - parentheses (()) - braces ({}) - white space (blank) as defined by the Microsoft naming convention (see https://support.microsoft.com/en-us/help/909264/) Underscore () is allowed. However it is not recommended to use it. Hyphen-minus sign (-) is not allowed as last character. When creating/modifying the SMB server, if no NetBIOS name is provided, up to the 15 first computer name characters will be used to compute a default NetBIOS name. This substring shall comply with NetBIOS name limitations. Length : 1 - 63	string
domain <i>optional</i>	Fully Qualified Domain Name (FQDN) where SMB server is registered in Active Directory. The maximum length is 255 characters. A FQDN is composed with multiple components separated by a dot character. The FQDN for the SMB server computer name is computer_name. where the computer_name is the first component. Domain must not contain the following characters: - comma (,) - tilde (~) - colon (:) - exclamation point (!) - at sign (@) - number sign (#) - dollar sign (\$) - percent (%) - caret (^) - ampersand (&) - apostrophe (') - parentheses (()) - braces ({}) - white space (blank) as defined by the Microsoft naming convention (see https://support.microsoft.com/en-us/help/909264/) Underscore () is allowed. However it is not recommended to use it. Hyphen-minus sign (-) is not allowed as last character. Period (.) is not allowed as first and last character. Length : 1 - 255	string
is_standalone <i>optional</i>	Indicates whether the source SMB server is standalone. A 'true' value indicated the SMB server is standalone and 'false' value indicates the SMB server is joined to an Active Directory.	boolean

Name	Description	Schema
netbios_name <i>optional</i>	NetBIOS name is the network name of the standalone SMB server. SMB server joined to Active Directory also have NetBIOS name, defaulted to the 15 first characters of the computerName attribute. Administrators can specify a custom NetBIOS name for a SMB server using this attribute. NetBIOS name must not contain the following characters: - backslash () - slash mark (/) - colon (:) - asterisk (*) - question mark (?) - quotation mark (") - less than sign (<) - greater than sign (>) - vertical bar () as defined by the Microsoft naming convention (see https://support.microsoft.com/en-us/help/909264/) The following characters are not allowed too: - semicolon (;) - comma (,) - equal sign (=) - plus sign (+) - left bracket ([) - right bracket (]) The following characters are not allowed as first character: - period (.) - white space (blank) - hyphen-minus (-) - at sign (@) Source system may apply additional restrictions. For example the source system may prohibit the following characters: - white space (blank) Length : 1 - 15	string
organizational_unit <i>optional</i>	Organizational unit of the source SMB server in Active Directory, if applicable. Minimum length : 1	string
workgroup <i>optional</i>	Applies to standalone SMB servers Only. Windows network workgroup for the SMB server. Workgroup Names are limited to 15 alphanumeric ASCII charaters and must not contain the following characters: - backslash () - slash mark (/) - colon (:) - asterisk (*) - question mark (?) - quotation mark (") - less than sign (<) - greater than sign (>) - vertical bar () The following characters are not allowed as first character: - period (.) - white space (blank) Source system may apply additional restrictions. For example the source system may prohibit the following characters: - comma (,) - white space (blank) Length : 1 - 15	string

file_import_session_file_interface_mapping

Mapping of a source NAS server file interface to a local bond/FSN. Was added in version 3.0.0.0.

Name	Description	Schema
ip_port_id <i>required</i>	Unique identifier of the IP Port.	string
name <i>required</i>	Name of the source NAS Server file interface. Length : 1 - 255	string

file_import_session_instance

Was added in version 3.0.0.0. Values was added in 4.1.0.0: cta_admin_username.

Name	Description	Schema
cta_admin_username <i>optional</i>	The management user name to access the Cloud Tiering Appliance (CTA). This is required for Unity Stub-Aware migration. Was added in version 4.1.0.0. Length : 1 - 1023	string
current_operation <i>optional</i>		FileImportSessionCurrentOperationEnum
current_operation_message <i>optional</i>	Localized message string corresponding to current_operation Was added in version 3.0.0.0.	string
current_operation_progress_percentage <i>optional</i>	When the import is in the 'Initial_Copy_In_Progress' or 'Incremental_Copy_In_Progress' state, this value indicates the completion percent for the import. Before the import is in the copy state, this value is 0. After the cutover or if there is a failure, this value is null. Minimum value : 0 Maximum value : 2147483647	integer (int32)
description <i>optional</i>	User-specified description of the file import session.	string
destination_resource_id <i>optional</i>	Unique identifier of the destination NAS server or filesystem created as part of the import process.	string

Name	Description	Schema
destination_resource_type <i>optional</i>		FileImportDestinationResourceTypeEnum
destination_resource_type_id <i>optional</i>	Localized message string corresponding to destination_resource_type Was added in version 3.0.0.0.	string
error <i>optional</i>	File Import Session error.	string
estimated_completion_timestamp <i>optional</i>	When the import is in the 'Initial_Copy_In_Progress' or 'Incremental_Copy_In_Progress' state, this value indicates the estimated time at which the data copy will complete. Before the import is in the copy state, the value is null. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
id <i>optional</i>	Unique identifier of the file import session.	string
import_file_interface_id <i>optional</i>	Unique identifier of the destination file interface used for importing data from the source system.	string
last_update_timestamp <i>optional</i>	The Date and time when the import session has been updated. This date is specified in ISO 8601 format with time expressed in UTC.	string (date-time)
name <i>optional</i>	User-specified name of the file import session. This property supports case-insensitive filtering.	string
nas_server_id <i>optional</i>	Unique identifier of the destination NAS server to which the destination filesystem will be added.	string
protection_policy_id <i>optional</i>	Unique identifier of the local protection policy in the PowerStore storage system that will be applied on an imported destination NAS server or filesystem after commit. Only snapshot policies are supported in an import. Once the import completes, you can add a replication policy.	string

Name	Description	Schema
remote_system_id <i>optional</i>	Unique identifier of the storage system that contains the source NAS Server to be imported.	string
scheduled_time_stamp <i>optional</i>	Indicates the Date and time at which the file import session is scheduled to run. The date is specified in ISO 8601 format with the time expressed in UTC format.	string (date-time)
source_dhsm_username <i>optional</i>	The username for authentication to DHSM Server on the source NAS Server required for importing FLR filesystems.	string
source_interface <i>optional</i>	Name of the migration interface on the source NAS Server. Was added in version 4.0.0.0.	string
source_resource_id <i>optional</i>	Unique identifier of the source NAS server which is being imported by the file import session.	string
source_smb_admin_username <i>optional</i>	User name for authentication to SMB Server on the source NAS Server with administrator privilege.	string
state <i>optional</i>		FileImportSessionStateEnum
state_message <i>optional</i>	Localized message string corresponding to state Was added in version 3.0.0.0.	string

file_import_session_modify

Was added in version 3.0.0.0.

Name	Description	Schema
cta_admin_password <i>optional</i>	The management password to access the Cloud Tiering Appliance (CTA). This is required for Unity Stub-Aware migration. Was added in version 4.1.0.0. Maximal length : 1023	string (password)

Name	Description	Schema
cta_admin_username <i>optional</i>	The management user name to access the Cloud Tiering Appliance (CTA). This is required for Unity Stub-Aware migration. Was added in version 4.1.0.0. Length : 1 - 1023	string
description <i>optional</i>	Description of the file import session. The name can contain a maximum of 128 Unicode characters. It cannot contain unprintable characters. Maximal length : 128	string
name <i>optional</i>	The name of the Import Session. Maximal length : 32	string
scheduled_timestamp <i>optional</i>	Indicates the new date and time at which the import session is scheduled to run. The date is specified in ISO 8601 format with time expressed in UTC format.	string (date-time)
source_dhsm_password <i>optional</i>	The password for authentication to DHSM Server on the source NAS Server required for importing FLR filesystems. Maximal length : 1023	string (password)
source_dhsm_username <i>optional</i>	The username for authentication to DHSM Server on the source NAS Server required for importing FLR filesystems. Length : 1 - 1023	string
source_smb_admin_password <i>optional</i>	Password for authentication to SMB Server on the source NAS Server with administrator privilege. Maximal length : 1023	string (password)
source_smb_admin_username <i>optional</i>	User name for authentication to SMB Server on the source NAS Server with administrator privilege. Length : 1 - 1023	string

file_import_session_report_current_operation_duration

Duration information for each stage. Was added in version 3.0.0.0.

Name	Description	Schema
cancelling_duration <i>optional</i>	Duration information for each stage. Was added in version 3.0.0.0. Unit : seconds Minimum value : 0 Maximum value : 2147483647	integer (int32)
committing_duration <i>optional</i>	Duration information for each stage. Was added in version 3.0.0.0. Unit : seconds Minimum value : 0 Maximum value : 2147483647	integer (int32)
cutting_over_duration <i>optional</i>	Duration information for each stage. Was added in version 3.0.0.0. Unit : seconds Minimum value : 0 Maximum value : 2147483647	integer (int32)
importing_configDuration <i>optional</i>	Duration information for each stage. Was added in version 3.0.0.0. Unit : seconds Minimum value : 0 Maximum value : 2147483647	integer (int32)
importing_config_duration <i>optional</i>	Duration information for each stage. Was added in version 3.0.0.0. Unit : seconds Minimum value : 0 Maximum value : 2147483647	integer (int32)
incremental_copy_duration <i>optional</i>	Duration information for each stage. Was added in version 3.0.0.0. Unit : seconds Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
initial_copy_duration <i>optional</i>	Duration information for each stage. Was added in version 3.0.0.0. Unit : seconds Minimum value : 0 Maximum value : 2147483647	integer (int32)
initial_provisioning_duration <i>optional</i>	Duration information for each stage. Was added in version 3.0.0.0. Unit : seconds Minimum value : 0 Maximum value : 2147483647	integer (int32)
total_Duration <i>optional</i>	Duration information for each stage. Was added in version 3.0.0.0. Unit : seconds Minimum value : 0 Maximum value : 2147483647	integer (int32)
total_duration <i>optional</i>	Duration information for each stage. Was added in version 3.0.0.0. Unit : seconds Minimum value : 0 Maximum value : 2147483647	integer (int32)

file_import_session_report_file_system

The properties of a filesystem. Was added in version 3.0.0.0.

Name	Description	Schema
destination_file_system_id <i>optional</i>	Unique identifier of the destination Filesystem.	string
destination_file_system_name <i>optional</i>	The name of the Filesystem on the destination matching the name of the mountpoint on the source.	string

Name	Description	Schema
destination_size_total <i>optional</i>	The properties of a filesystem. Was added in version 3.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
estimated_completion_timestamp <i>optional</i>	The estimated remaining time in UTC for the Filesystem data copy to complete.	string (date-time)
flr_enabled <i>optional</i>	Indicates whether File Level Retention feature is enabled on the Filesystem.	boolean
progress_percentage <i>optional</i>	The properties of a filesystem. Was added in version 3.0.0.0. Unit : percent Minimum value : 0 Maximum value : 2147483647	integer (int32)
source_file_system_name <i>optional</i>	The name of the Filesystem on the source.	string
source_size_total <i>optional</i>	The properties of a filesystem. Was added in version 3.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
state <i>optional</i>		file_system_import_state

file_import_session_report_production_net_interface

Properties of a production net interface. These interfaces are used to access the file data I/O throughout the migration process. Migration moves these interfaces from the source to the destination Was added in version 3.0.0.0.

Name	Description	Schema
destination_file_interface_id <i>optional</i>	Unique identifier of the file interface on the destination system.	string

Name	Description	Schema
destination_ip_port_id <i>optional</i>	Virtual port or link aggregation on which the network interface is running.	string
file_interface_id <i>optional</i>	Unique identifier of the file interface on the destination system. Was added in version 3.5.0.0. Was deprecated in version 3.5.0.0.	string
gateway <i>optional</i>	Gateway address for the network interface.	string (ip-address)
ip_address <i>optional</i>	IP address of the network interface.	string (ip-address)
is_disabled <i>optional</i>	Indicates whether the network interface is disabled.	boolean
prefix_length <i>optional</i>	Prefix length for the network interface. Minimum value : 0 Maximum value : 2147483647	integer (int32)
source_net_device <i>optional</i>	The name of the production network interface on the source NAS server	string
vlan_id <i>optional</i>	Virtual Local Area Network (VLAN) identifier for the interface. The interface uses the identifier to accept packets that have matching VLAN tags. Minimum value : 0 Maximum value : 2147483647	integer (int32)

file_import_session_report_response

File Import Session Report response object. Was added in version 3.0.0.0.

Name	Description	Schema
change_log <i>optional</i>	The list of transitions between File Import Session states.	< file_import_session_report_stage_change_log > array

Name	Description	Schema
created_times_tamp <i>optional</i>	The Date and time at when the file import session is created. The date is specified in RFC3339 format with the time expressed in UTC format.	string (date-time)
current_operation <i>optional</i>		FileImportSessionCurrentOperationEnum
current_operation_message <i>optional</i>	Localized message string corresponding to current_operation Was added in version 3.0.0.0.	string
current_operation_progress_percentage <i>optional</i>	File Import Session Report response object. Was added in version 3.0.0.0. Unit : percent Minimum value : 0 Maximum value : 2147483647	integer (int32)
destination_nas_server_id <i>optional</i>	Unique identifier of the destination NAS server to which the destination filesystem will be added. Was added in version 3.5.0.0.	string
destination_resource_id <i>optional</i>	Unique identifier of the destination NAS server to which the destination filesystem will be added. Was deprecated in version 3.5.0.0.	string
estimated_completion_time_stamp <i>optional</i>	Estimated completion time in UTC format. When the import is in the 'Initial_Copy_In_Progress' or 'Incremental_Copy_In_Progress' state, this value indicates the estimated time at which the data copy will complete. Before the import is in the copy state, the value is null.	string (date-time)
file_systems <i>optional</i>	List of filesystems included in the import.	< file_import_session_report_file_system > array
id <i>optional</i>	The unique identifier of the file import session.	string

Name	Description	Schema
latest_failure_messages <i>optional</i>	When the current operation is not progressing normally, these messages will provide additional information on how to remedy the issue. Was added in version 3.2.0.0.	< file_extended_localized_message > array
name <i>optional</i>	User-specified name of the file import session.	string
production_netInterfaces <i>optional</i>	The list of parameters for target production network interfaces.	< file_import_session_report_production_net_interface > array
protocol_type <i>optional</i>		FileImportSessionReportProtocolEnum
protocol_type_l10n <i>optional</i>	Localized message string corresponding to protocol_type Was added in version 3.0.0.0.	string
remote_system_id <i>optional</i>	Unique identifier of the remote system that contains the source NAS Server to be imported	string
smb_server <i>optional</i>		file_import_session_cutover_smb_properties
source_dhsm_username <i>optional</i>	The user name for authentication to DHSM Server on the source NAS Server required for importing FLR filesystems.	string
source_import_netInterface <i>optional</i>		file_import_session_report_source_net_interface
source_nas_server_name <i>optional</i>	Name of the NAS server at source which is being imported by the file import session.	string

Name	Description	Schema
source_smb_admin_username <i>optional</i>	The user name for authentication to SMB Server on the source NAS Server with admin access.	string
state <i>optional</i>		FileImportSessionStateEnum
state_duration <i>optional</i>		file_import_session_report_current_operation_duration
state_message <i>optional</i>	Localized message string corresponding to state Was added in version 3.0.0.0.	string
statistics <i>optional</i>		file_import_session_report_statistics
target_import_netInterface <i>optional</i>		file_import_session_report_target_net_interface
target_nas_server_name <i>optional</i>	Name of the NAS server at target which is being imported by the file import session.	string
warnings <i>optional</i>	The list of Import Session messages.	< file_extended_localized_message > array

file_import_session_report_source_net_interface

Properties of a source net interface. This is during migration for moving data from the source to the destination. Was added in version 3.0.0.0.

Name	Description	Schema
gateway <i>optional</i>	Gateway address for the network interface.	string (ip-address)
ip_address <i>optional</i>	IP address of the network interface.	string (ip-address)

Name	Description	Schema
name <i>optional</i>	The name of the Import Network Interface on the source NAS Server.	string
netmask <i>optional</i>	Netmask for the network interface.	string
network_device <i>optional</i>	Virtual port or link aggregation on which the network interface is running.	string
vlan_id <i>optional</i>	Virtual Local Area Network (VLAN) identifier for the interface. The interface uses the identifier to accept packets that have matching VLAN tags. Minimum value : 0 Maximum value : 2147483647	integer (int32)

file_import_session_report_stage_change_log

Properties of a single change log entry. Was added in version 3.0.0.0.

Name	Description	Schema
extended_message <i>optional</i>		file_extended_localized_message
state <i>optional</i>		FileImportSessionStateEnum
state_l10n <i>optional</i>	Localized message string corresponding to state Was added in version 3.0.0.0.	string

file_import_session_report_statistics

The statistics on the Filesystem import. Was added in version 3.0.0.0.

Name	Description	Schema
imported_inode_count <i>optional</i>	Total number of files/folders imported. Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
imported_tree_quota_count <i>optional</i>	Total number of quota tree imported. Minimum value : 0 Maximum value : 2147483647	integer (int32)
imported_user_quota_count <i>optional</i>	Total number of user quota imported. Minimum value : 0 Maximum value : 2147483647	integer (int32)
source_inode_count <i>optional</i>	Total number of files/folders in source. Minimum value : 0 Maximum value : 2147483647	integer (int32)
source_tree_quota_count <i>optional</i>	Total number of quota tree in source. Minimum value : 0 Maximum value : 2147483647	integer (int32)
source_user_quota_count <i>optional</i>	Total number of user quota in source. Minimum value : 0 Maximum value : 2147483647	integer (int32)
total_imported_data <i>optional</i>	The statistics on the Filesystem import. Was added in version 3.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

file_import_session_report_target_net_interface

Properties of a destination net interface. Was added in version 3.0.0.0.

Name	Description	Schema
file_interface_id <i>optional</i>	Unique identifier of the file interface on the destination system.	string
gateway <i>optional</i>	Gateway address for the network interface..	string (ip-address)
ip_address <i>optional</i>	IP address of the network interface.	string (ip-address)

Name	Description	Schema
ip_port_id <i>optional</i>	Virtual port or link aggregation on which the network interface is running.	string
name <i>optional</i>	The name of the Import Network Interface on the destination NAS Server.	string
prefix_length <i>optional</i>	Prefix length for the interface. Minimum value : 0 Maximum value : 2147483647	integer (int32)
vlan_id <i>optional</i>	Virtual Local Area Network (VLAN) identifier for the interface. The interface uses the identifier to accept packets that have matching VLAN tags. Minimum value : 0 Maximum value : 2147483647	integer (int32)

file_import_smb_configuration

The SMB server configuration for File Import NAS server. Was added in version 3.0.0.0. Filtering on the fields of this embedded resource is not supported.

Name	Description	Schema
computer_name <i>optional</i>	DNS name of the associated computer account when the source SMB server is joined to an Active Directory domain. Length : 1 - 63	string
description <i>optional</i>	Description of the source SMB server. Was deprecated in version 3.2.0.0.	string
domain <i>optional</i>	Domain name where the source SMB server is registered in Active Directory, if applicable. Length : 1 - 255	string
is_standalone <i>optional</i>	Indicates whether the source SMB server is standalone. A 'true' value indicated the SMB server is standalone and 'false' value indicates the SMB server is joined to an Active Directory.	boolean

Name	Description	Schema
netbios_name <i>optional</i>	NetBIOS or network name of the standalone source SMB server. SMB server joined to Active Directory also has a NetBIOS Name, defaulted to the first 15 characters of the computer name attribute. Administrators can specify a custom NetBIOS name for a SMB server using this attribute. Length : 1 - 15	string
organizational_unit <i>optional</i>	Organizational unit of the source SMB server in Active Directory, if applicable. Minimum length : 1	string
workgroup <i>optional</i>	Windows network workgroup for the source SMB server. This is applicable to stand-alone SMB servers only. Length : 1 - 15	string

file_import_source_filesystem

The list of filesystems mounted on the NAS server. Was added in version 3.0.0.0.

Name	Description	Schema
import_source_nas_server_id <i>optional</i>	Unique identifier of the source file system. Was added in version 3.0.0.0. Was deprecated in version 3.2.0.0.	string
is_flr_enabled <i>optional</i>	Indicates whether File Level Retention feature is enabled on the Filesystem.	boolean
name <i>optional</i>	Name of the filesystem. Was added in version 3.2.0.0.	string
size <i>optional</i>	The list of filesystems mounted on the NAS server. Was added in version 3.0.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
sourcename <i>optional</i>	Source name of the filesystem. Was added in version 3.0.0.0. Was deprecated in version 3.2.0.0.	string

Name	Description	Schema
targetname <i>optional</i>	Target name of the filesystem. Was added in version 3.0.0.0. Was deprecated in version 3.2.0.0.	string

file_import_source_network_interface

The list of file interfaces attached to the NAS server. Was added in version 3.0.0.0.

Name	Description	Schema
gateway <i>optional</i>	IPv4 gateway address for the file interface.	string (ip-address)
import_source_nas_server_id <i>optional</i>	Unique identifier of the source file system. Was added in version 3.0.0.0. Was deprecated in version 3.2.0.0.	string
ip_address <i>optional</i>	IP address of the file interface.	string (ip-address)
is_disabled <i>optional</i>	Indicates whether the file interface is disabled.	boolean
name <i>optional</i>	Name of the file interface attached to the NAS server.	string
netmask <i>optional</i>	IPv4 netmask for the file interface, if it uses an IPv4 address. Was added in version 3.0.0.0. Was deprecated in version 3.2.0.0.	string (ip-address)
network_device <i>optional</i>	Name of the network device associated with the file interface.	string
prefix_length <i>optional</i>	IPv4 prefix length for the file interface, if it uses an IPv4 address. Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
vlan_id <i>optional</i>	Virtual Local Area Network (VLAN) identifier for the file interface. Minimum value : 0 Maximum value : 2147483647	integer (int32)

file_interface_create

Attributes for the create operation.

Name	Description	Schema
gateway <i>optional</i>	Gateway address for the network interface. IPv4 and IPv6 are supported. Length : 1 - 45	string (ip-address)
ip_address <i>required</i>	IP address of the network interface. IPv4 and IPv6 are supported. Length : 1 - 45	string (ip-address)
ip_port_id <i>optional</i>	Unique Identifier of the IP Port that is associated with the file interface. Was added in version 3.0.0.0.	string
is_disabled <i>optional</i>	Indicates whether the network interface is disabled. Default : false	boolean
nas_server_id <i>required</i>	Unique identifier of the NAS server to which the network interface belongs, as defined by the nas_server resource type. name:{name} can be used instead of {id}. For example: 'nas_server_id':'name:nas_server_name'	string
prefix_length <i>required</i>	Prefix length for the interface. IPv4 and IPv6 are supported. Minimum value : 1 Maximum value : 128	integer (int32)
role <i>optional</i>		FileInterfaceRoleEnum
vlan_id <i>optional</i>	Virtual Local Area Network (VLAN) identifier for the interface. The interface uses the identifier to accept packets that have matching VLAN tags. Default : 0 Minimum value : 0 Maximum value : 4094	integer (int32)

file_interface_instance

This resource type has queriable associations from nas_server, ip_port, file_interface_route

Name	Description	Schema
file_interface_routes <i>optional</i>	This is the inverse of the resource type file_interface_route association.	< file_interface_route_instance > array
gateway <i>optional</i>	Gateway address for the network interface. IPv4 and IPv6 are supported.	string (ip-address)
id <i>optional</i>	Unique identifier of the file interface.	string
ip_address <i>optional</i>	IP address of the network interface. IPv4 and IPv6 are supported.	string (ip-address)
ip_port <i>optional</i>	This is the embeddable reference form of ip_port_id attribute.	ip_port_instance
ip_port_id <i>optional</i>	Unique Identifier of the IP Port that is associated with the file interface. Was added in version 3.0.0.0.	string
is_destination_override_enabled <i>optional</i>	Used in replication context when the user wants to override the settings on the destination. Was added in version 3.0.0.0. Default : false	boolean
is_disabled <i>optional</i>	Indicates whether the network interface is disabled. Default : false	boolean

Name	Description	Schema
is_dr_test <i>optional</i>	True when the associated nas_server has been created as a clone with the is_dr_test option set to true. Disaster Recovery Testing provides following functionalities 1. The ability to create a DR Test (DRT) enabled nas_server by cloning a replicated nas_server on destination PowerStore. 2. The ability to create the necessary isolated networking environment on the destination PowerStore. 3. With isolated network, DRT-enabled nas_server can operate with same IP address(es) as the the production nas_server on the source PowerStore. 4. DRT-enabled nas_servers can run without IP address conflicts even if failover/failback of the replication occurs. 5. If isolated network is configured, do not configure production nas_servers with isolated network interfaces on destination PowerStore. Was added in version 3.6.0.0.	boolean
name <i>optional</i>	Name of the network interface. This property supports case-insensitive filtering.	string
nas_server <i>optional</i>	This is the embeddable reference form of nas_server_id attribute.	nas_server_instance
nas_server_id <i>optional</i>	Unique identifier of the NAS server.	string
prefix_length <i>optional</i>	Prefix length for the interface. IPv4 and IPv6 are supported. Minimum value : 0 Maximum value : 2147483647	integer (int32)
role <i>optional</i>		FileInterfaceRoleEnum
role_l10n <i>optional</i>	Localized message string corresponding to role	string
source_parameters <i>optional</i>	Was added in version 3.0.0.0.	file_interface_source_parameters

Name	Description	Schema
vlan_id <i>optional</i>	Virtual Local Area Network (VLAN) identifier for the interface. The interface uses the identifier to accept packets that have matching VLAN tags. Default : 0 Minimum value : 0 Maximum value : 4094	integer (int32)

file_interface_modify

Attributes for the modify operation.

Name	Description	Schema
gateway <i>optional</i>	Gateway address for the network interface. IPv4 and IPv6 are supported. Length : 0 - 45	string (ip-address)
ip_address <i>optional</i>	IP address of the network interface. IPv4 and IPv6 are supported. Length : 1 - 45	string (ip-address)
ip_port_id <i>optional</i>	Unique Identifier of the IP Port that is associated with the file interface. Was added in version 3.0.0.0.	string
is_destination_override_enabled <i>optional</i>	Used in replication context when the user wants to override the settings on the destination. Was added in version 3.0.0.0.	boolean
is_disabled <i>optional</i>	Indicates whether the network interface is disabled.	boolean
prefix_length <i>optional</i>	Prefix length for the interface. IPv4 and IPv6 are supported. Minimum value : 1 Maximum value : 128	integer (int32)
vlan_id <i>optional</i>	Virtual Local Area Network (VLAN) identifier for the interface. The interface uses the identifier to accept packets that have matching VLAN tags. Minimum value : 0 Maximum value : 4094	integer (int32)

file_interface_route_create

Parameters for the file interface route create operation.

Name	Description	Schema
destination <i>required</i>	IPv4 or IPv6 address of the target network node based on the specific route type. Values are: • For a default route, the route is specified in the gateway value for the related file interface. • For a host route, the destination value is a host IP address. For an IPV4 address the prefix_length must be 32, otherwise for an IPv6 address the prefix_length must be 128. • For a subnet route, the destination value is a subnet IP address and the appropriate prefix_length must be specified accordingly.	string (ip-address)
file_interface_id <i>required</i>	Unique identifier of the associated file interface. name:{name} can be used instead of {id}. For example: 'file_interface_id': 'name:file_interface_name'	string
gateway <i>optional</i>	IP address of the gateway associated with the route. Length : 1 - 45	string (ip-address)
prefix_length <i>required</i>	IPv4 or IPv6 prefix length for the route. Minimum value : 1 Maximum value : 128	integer (int32)

file_interface_route_instance

Properties of the file interface route. This resource type has queriable association from file_interface

Name	Description	Schema
destination <i>optional</i>	IPv4 or IPv6 address of the target network node based on the specific route type. Values are: - For a default route, the route is specified in the gateway value for the related file interface. - For a host route, the destination value is a host IP address. For an IPV4 address the prefix_length must be 32, otherwise for an IPv6 address the prefix_length must be 128. - For a subnet route, the destination value is a subnet IP address and the appropriate prefix_length must be specified accordingly.	string (ip-address)
file_interface <i>optional</i>	This is the embeddable reference form of file_interface_id attribute.	file_interface_instance
file_interface_id <i>optional</i>	Unique identifier of the associated file interface.	string
gateway <i>optional</i>	IP address of the gateway associated with the route.	string (ip-address)
id <i>optional</i> <i>read-only</i>	Unique identifier of the file interface route.	string
operational_status <i>optional</i>		FileInterfaceRouteOperationalStatusEnum
operational_status_message <i>optional</i>	Localized message string corresponding to operational_status	string
prefix_length <i>optional</i>	IPv4 or IPv6 prefix length for the route. Minimum value : 0 Maximum value : 2147483647	integer (int32)

file_interface_route_modify

Parameters for the file interface route modify operation.

Name	Description	Schema
destination <i>required</i>	IPv4 or IPv6 address of the target network node based on the specific route type. Values are: - For a default route, the route is specified in the gateway value for the related file interface. - For a host route, the destination value is a host IP address. For an IPV4 address the prefix_length must be 32, otherwise for an IPv6 address the prefix_length must be 128. - For a subnet route, the destination value is a subnet IP address and the appropriate prefix_length must be specified accordingly.	string (ip-address)
gateway <i>optional</i>	IP address of the gateway associated with the route. Length : 0 - 45	string (ip-address)
prefix_length <i>required</i>	IPv4 or IPv6 prefix length for the route. Minimum value : 1 Maximum value : 128	integer (int32)

file_interface_source_parameters

Information about the corresponding source NAS server's File Interface settings. Only populated when is_destination_override_enabled flag is set to true. Was added in version 3.0.0.0. Filtering on the fields of this embedded resource is not supported.

Name	Description	Schema
gateway <i>optional</i>	Gateway address for the network interface. IPv4 and IPv6 are supported. Length : 0 - 45	string (ip-address)
ip_address <i>optional</i>	IP address of the network interface. IPv4 and IPv6 are supported. Length : 1 - 45	string (ip-address)
ip_port_id <i>optional</i>	Unique identifier of the IP Port that is associated with the file interfacesinterface. Was added in version 3.0.0.0.	string
prefix_length <i>optional</i>	Prefix length for the interface. IPv4 and IPv6 are supported. Minimum value : 1 Maximum value : 128	integer (int32)

Name	Description	Schema
vlan_id <i>optional</i>	Virtual Local Area Network (VLAN) identifier for the interface. The interface uses the identifier to accept packets that have matching VLAN tags. Default : 0 Minimum value : 0 Maximum value : 4094	integer (int32)

file_io_limit_rule_create

Parameters of the file_io_limit_rule create operation. Was added in version 4.1.0.0.

Name	Description	Schema
max_bw <i>required</i>	Parameters of the file_io_limit_rule create operation. Was added in version 4.1.0.0. Unit : MB/sec Minimum value : 1 Maximum value : 1000000	integer (int32)
name <i>required</i>	Name of the file_io_limit_rule. Length : 1 - 128	string

file_io_limit_rule_instance

Properties of a file_io_limit_rule instance. Was added in version 4.1.0.0. This resource type has queriable association from policy

Name	Description	Schema
id <i>optional</i>	Unique identifier of the file_io_limit_rule.	string
max_bw <i>optional</i>	Properties of a file_io_limit_rule instance. Was added in version 4.1.0.0. This resource type has queriable association from policy Unit : MB/sec Minimum value : 1 Maximum value : 1000000	integer (int32)
name <i>optional</i>	Name of the file_io_limit_rule. This property supports case-insensitive filtering. Length : 1 - 128	string

Name	Description	Schema
policies <i>optional</i>	This is the inverse of the resource type policy association.	< policy_instance > array

file_io_limit_rule_modify

Parameters of the file_io_limit_rule modify operation. Was added in version 4.1.0.0.

Name	Description	Schema
max_bw <i>optional</i>	Parameters of the file_io_limit_rule modify operation. Was added in version 4.1.0.0. Unit : MB/sec Minimum value : 1 Maximum value : 1000000	integer (int32)
name <i>optional</i>	New name of the file_io_limit_rule. Length : 1 - 128	string

file_kerberos_create

Name	Description	Schema
kdc_addresses <i>required</i>	Fully Qualified domain names of the Kerberos Key Distribution Center (KDC) servers. IPv4 and IPv6 addresses are not supported.	< string > array
nas_server_id <i>required</i>	Unique identifier of the associated NAS Server instance that uses this Kerberos object. Only one Kerberos object per NAS Server is supported. name:{name} can be used instead of {id}. For example: 'nas_server_id':'name:nas_server_name'	string
port_number <i>optional</i>	KDC servers TCP port. Default : 88 Minimum value : 1 Maximum value : 65535	integer (int32)
realm <i>required</i>	Realm name of the Kerberos Service. Length : 1 - 255	string

file_kerberos_instance

This resource type has queriable association from nas_server

Name	Description	Schema
id <i>optional</i>	Unique identifier of the Kerberos service settings instance.	string
kdc_addresses <i>optional</i>	Fully Qualified domain names of the Kerberos Key Distribution Center (KDC) servers. IPv4 and IPv6 addresses are not supported.	< string > array
nas_server <i>optional</i>	This is the embeddable reference form of nas_server_id attribute.	nas_server_instance
nas_server_id <i>optional</i>	Unique identifier of the associated NAS Server instance that uses this Kerberos object. Only one Kerberos object per NAS Server is supported.	string
port_number <i>optional</i>	KDC servers TCP port. Default : 88 Minimum value : 0 Maximum value : 65535	integer (int32)
realm <i>optional</i>	Realm name of the Kerberos Service.	string

file_kerberos_keytab_file

Name	Description	Schema
data <i>optional</i>	The current keytab file for secure NFS service.	string (binary)

file_kerberos_modify

Name	Description	Schema
add_kdc_addresses <i>optional</i>	Fully Qualified domain names of the Kerberos Key Distribution Center (KDC) servers to add to the current list. Error occurs if name already exists. Cannot be combined with kdc_addresses. IPv4 and IPv6 addresses are not supported.	< string > array
kdc_addresses <i>optional</i>	Fully Qualified domain names of the Kerberos Key Distribution Center (KDC) servers. IPv4 and IPv6 addresses are not supported.	< string > array

Name	Description	Schema
port_number <i>optional</i>	KDC servers TCP port. Minimum value : 1 Maximum value : 65535	integer (int32)
realm <i>optional</i>	Realm name of the Kerberos Service. Length : 1 - 255	string
remove_kdc_addresses <i>optional</i>	Fully Qualified domain names of the Kerberos Key Distribution Center (KDC) servers to remove from the current list. Error occurs if name is not in the existing list. Cannot be combined with kdc_addresses. IPv4 and IPv6 addresses are not supported.	< string > array

file_ldap_create

Arguments for the create operation.

Name	Description	Schema
addresses <i>required</i>	The list of LDAP server IP addresses. The addresses may be IPv4 or IPv6.	< string (ip-address) > array
authentication_type <i>required</i>		FileLDAPAuthenticationTypeEnum
base_DN <i>required</i>	Name of the LDAP base DN. Base Distinguished Name (BDN) of the root of the LDAP directory tree. The appliance uses the DN to bind to the LDAP service and locate in the LDAP directory tree to begin a search for information. The base DN can be expressed as a fully-qualified domain name or in X.509 format by using the attribute dc=. For example, if the fully-qualified domain name is mycompany.com, the base DN is expressed as dc=mycompany,dc=com. Length : 3 - 255	string
bind_DN <i>optional</i>	Bind Distinguished Name (DN) to be used when binding. Length : 0 - 1023	string
bind_password <i>optional</i>	The associated password to be used when binding to the server. Length : 0 - 1023	string (password)

Name	Description	Schema
is_smb_account_used <i>optional</i>	Indicates whether SMB authentication is used to authenticate to the LDAP server. Values are: true Indicates that the SMB settings are used for Kerberos authentication. false Indicates that Kerberos uses its own settings.	boolean
is_verify_server_certificate <i>optional</i>	Indicates whether Certification Authority certificate is used to verify the LDAP server certificate for secure SSL connections. Values are: true verifies LDAP server's certificate. false doesn't verify LDAP server's certificate.	boolean
nas_server_id <i>required</i>	Unique identifier of the associated NAS Server instance that will use this LDAP object. Only one LDAP object per NAS Server is supported. name:{name} can be used instead of {id}. For example: 'nas_server_id':'name:nas_server_name'	string
password <i>optional</i>	The associated password for Kerberos authentication. Length : 0 - 1023	string (password)
port_number <i>required</i>	The TCP/IP port used by the NAS Server to connect to the LDAP servers. The default port number for LDAP is 389 and LDAPS is 636. Minimum value : 1 Maximum value : 65535	integer (int32)
principal <i>optional</i>	Specifies the principal name for Kerberos authentication. Length : 0 - 1023	string
profile_DN <i>optional</i>	For an iPlanet LDAP server, specifies the DN of the entry with the configuration profile. Length : 0 - 255	string
protocol <i>optional</i>		FileLDAPProtocolEnum
realm <i>optional</i>	Specifies the realm name for Kerberos authentication. Length : 0 - 255	string

file_ldap_instance

This resource type has queriable association from nas_server

Name	Description	Schema
addresses <i>optional</i>	The list of LDAP server IP addresses. The addresses may be IPv4 or IPv6.	< string (ip-address) > array
authentication_type <i>optional</i>		FileLDAPAuthenticationTypeEnum
authentication_type_id <i>optional</i>	Localized message string corresponding to authentication_type	string
base_DN <i>optional</i>	Name of the LDAP base DN. Base Distinguished Name (BDN) of the root of the LDAP directory tree. The appliance uses the DN to bind to the LDAP service and locate in the LDAP directory tree to begin a search for information. The base DN can be expressed as a fully-qualified domain name or in X.509 format by using the attribute dc=. For example, if the fully-qualified domain name is mycompany.com, the base DN is expressed as dc=mycompany,dc=com.	string
bind_DN <i>optional</i>	Bind Distinguished Name (DN) to be used when binding.	string
id <i>optional</i> <i>read-only</i>	Unique identifier of the LDAP service object.	string
is_certificate_uploaded <i>optional</i>	Indicates whether an LDAP certificate file has been uploaded. Default : false	boolean
is_config_file_uploaded <i>optional</i>	Indicates whether an LDAP configuration file has been uploaded. Default : false	boolean

Name	Description	Schema
is_destination_override_enabled <i>optional</i>	In order to modify any properties of this resource when the associated NAS server is a replication destination, the <code>is_destination_override_enabled</code> flag must be set to true. When true these properties may be modified: addresses Values are: true - Enable locally set properties. Source property changes will propagate to the <code>source_parameters</code> of the resource. false - Reset the properties to the ones from the source. Source property changes will propagate directly to this resource. Was added in version 3.0.0.0. Default : false	boolean
is_smb_account_used <i>optional</i>	Indicates whether SMB authentication is used to authenticate to the LDAP server. Values are: true Indicates that the SMB settings are used for Kerberos authentication. false Indicates that Kerberos uses its own settings.	boolean
is_verify_server_certificate <i>optional</i>	Indicates whether a Certification Authority certificate is used to verify the LDAP server certificate for secure SSL connections. Values are: true verifies LDAP server's certificate. false doesn't verify LDAP server's certificate.	boolean
nas_server <i>optional</i>	This is the embeddable reference form of <code>nas_server_id</code> attribute.	nas_server_instance
nas_server_id <i>optional</i>	Unique identifier of the associated NAS Server instance that uses this LDAP object. Only one LDAP object per NAS Server is supported.	string
port_number <i>optional</i>	The TCP/IP port used by the NAS Server to connect to the LDAP servers. The default port number for LDAP is 389 and LDAPS is 636. Minimum value : 0 Maximum value : 65535	integer (int32)

Name	Description	Schema
principal <i>optional</i>	Specifies the principal name for Kerberos authentication.	string
profile_DN <i>optional</i>	For an iPlanet LDAP server, specifies the DN of the entry with the configuration profile.	string
protocol <i>optional</i>		FileLDAPProtocolEnum
protocol_l10n <i>optional</i>	Localized message string corresponding to protocol	string
realm <i>optional</i>	Specifies the realm name for Kerberos authentication.	string
schema_type <i>optional</i>		FileLDAPSchemaTypeEnum
schema_type_l10n <i>optional</i>	Localized message string corresponding to schema_type	string
source_parameters <i>optional</i>	Information about the corresponding source NAS Server's File LDAP settings. Only populated when is_destination_override_enabled flag is set to true. Was added in version 3.0.0.0. Filtering on the fields of this embedded resource is not supported.	source_parameters

source_parameters

Name	Description	Schema
addresses <i>optional</i>	The list of LDAP server IP addresses. The addresses may be IPv4 or IPv6.	< string (ip-address) > array

file_ldap_modify

Name	Description	Schema
add_addresses <i>optional</i>	IP addresses to add to the current server IP addresses list. The addresses may be IPv4 or IPv6. Error occurs if an IP address already exists in the addresses list. Cannot be combined with addresses.	< string (ip-address) > array

Name	Description	Schema
addresses <i>optional</i>	The list of LDAP server IP addresses. The addresses may be IPv4 or IPv6.	< string (ip-address) > array
authentication_type <i>optional</i>		FileLDAPAuthenticationTypeEnum
base_DN <i>optional</i>	Name of the LDAP base DN. Base Distinguished Name (BDN) of the root of the LDAP directory tree. The appliance uses the DN to bind to the LDAP service and locate in the LDAP directory tree to begin a search for information. The base DN can be expressed as a fully-qualified domain name or in X.509 format by using the attribute dc=. For example, if the fully-qualified domain name is mycompany.com, the base DN is expressed as dc=mycompany,dc=com. Length : 3 - 255	string
bind_DN <i>optional</i>	Bind Distinguished Name (DN) to be used when binding. Length : 0 - 1023	string
bind_password <i>optional</i>	The associated password to be used when binding to the server. Length : 0 - 1023	string (password)
is_destination_override_enabled <i>optional</i>	In order to modify any properties of this resource when the associated NAS server is a replication destination, the is_destination_override_enabled flag must be set to true. When true these properties may be modified: addresses Values are: true - Enable locally set properties. Source property changes will propagate to the source_parameters of the resource. false - Reset the properties to the ones from the source. Source property changes will propagate directly to this resource. Was added in version 3.0.0.0.	boolean
is_smb_account_used <i>optional</i>	Indicates whether SMB authentication is used to authenticate to the LDAP server. Values are: true Indicates that the SMB settings are used for Kerberos authentication. false Indicates that Kerberos uses its own settings.	boolean

Name	Description	Schema
is_verify_server_certificate <i>optional</i>	Indicates whether Certification Authority certificate is used to verify the LDAP server certificate for secure SSL connections. Values are: true verifies LDAP server's certificate. false doesn't verify LDAP server's certificate.	boolean
password <i>optional</i>	The associated password for Kerberos authentication. Length : 0 - 1023	string (password)
port_number <i>optional</i>	The TCP/IP port used by the NAS Server to connect to the LDAP servers. Minimum value : 1 Maximum value : 65535	integer (int32)
principal <i>optional</i>	Specifies the principal name for Kerberos authentication. Length : 0 - 1023	string
profile_DN <i>optional</i>	For an iPlanet LDAP server, specifies the DN of the entry with the configuration profile. Length : 0 - 255	string
protocol <i>optional</i>		FileLDAPProtocolEnum
realm <i>optional</i>	Specifies the realm name for Kerberos authentication. Length : 0 - 255	string
remove_addresses <i>optional</i>	IP addresses to remove from the current server IP addresses list. The addresses may be IPv4 or IPv6. Error occurs if an IP address does not exist in the addresses_list. Cannot be combined with addresses.	< string (ip-address) > array

file_ndmp_create

Parameters for the file NDMP create operation.

Name	Description	Schema
nas_server_id <i>required</i>	Unique identifier of the NAS server to be configured with these NDMP settings. name:{name} can be used instead of {id}. For example: 'nas_server_id':'name:nas_server_name'	string

Name	Description	Schema
password <i>required</i>	Password for the NDMP service user. Length : 1 - 15	string (password)
user_name <i>required</i>	User name for accessing the NDMP service. Length : 1 - 64	string

file_ndmp_instance

Properties of the file NDMP. This resource type has queriable association from nas_server

Name	Description	Schema
id <i>optional</i> <i>read-only</i>	Unique identifier of the NDMP service object.	string
nas_server <i>optional</i>	This is the embeddable reference form of nas_server_id attribute.	nas_server_instance
nas_server_id <i>optional</i>	Unique identifier of the NAS server to be configured with these NDMP settings.	string
user_name <i>optional</i>	User name for accessing the NDMP service.	string

file_ndmp_modify

Parameters for the file NDMP modify operation.

Name	Description	Schema
password <i>optional</i>	Password for the NDMP service user. Length : 1 - 15	string (password)
user_name <i>optional</i>	User name for accessing the NDMP service. Length : 1 - 64	string

file_nis_create

Name	Description	Schema
domain <i>required</i>	Name of the NIS domain. Length : 1 - 255	string
ip_addresses <i>required</i>	The list of NIS server IP addresses.	< string (ip-address) > array
nas_server_id <i>required</i>	Unique identifier of the associated NAS Server instance that uses this NIS Service object. Only one NIS Service per NAS Server is supported. name:{name} can be used instead of {id}. For example: 'nas_server_id':'name:nas_server_name'	string

file_nis_instance

This resource type has queriable association from nas_server

Name	Description	Schema
domain <i>optional</i>	Name of the NIS domain.	string
id <i>optional</i>	Unique identifier of the NIS Service.	string
ip_addresses <i>optional</i>	The list of NIS server IP addresses.	< string (ip-address) > array
is_destination_override_enabled <i>optional</i>	Used in replication context when the user wants to override the settings on the destination. Was added in version 3.0.0.0. Default : false	boolean
nas_server <i>optional</i>	This is the embeddable reference form of nas_server_id attribute.	nas_server_instance
nas_server_id <i>optional</i>	Unique identifier of the associated NAS Server instance that uses this NIS Service object. Only one NIS Service per NAS Server is supported.	string
source_parameters <i>optional</i>	Information about the corresponding source NAS Server's File NIS settings. Only populated when is_destination_override_enabled flag is set to true. Was added in version 3.0.0.0. Filtering on the fields of this embedded resource is not supported.	source_parameters

source_parameters

Name	Description	Schema
ip_addresses <i>optional</i>	The list of NIS server IP addresses.	< string (ip-address) > array

file_nis_modify

Name	Description	Schema
add_ip_addresses <i>optional</i>	IP addresses to add to the current list. The addresses may be IPv4 or IPv6. Error occurs if the IP address already exists. Cannot be combined with ip_addresses.	< string (ip-address) > array
domain <i>optional</i>	Name of the NIS domain. Length : 1 - 255	string
ip_addresses <i>optional</i>	A new list of NIS server IP addresses to replace the existing list. The addresses may be IPv4 or IPv6.	< string (ip-address) > array
is_destination_override_enabled <i>optional</i>	In order to modify any properties of this resource when the associated NAS server is a replication destination, the is_destination_override_enabled flag must be set to true. When true these properties may be modified: ip_addresses, add_ip_addresses, remove_ip_addresses. Values are: true - Enable locally set properties. Source property changes will propagate to the source_parameters of the resource. false - Reset the properties to the ones from the source. Source property changes will propagate directly to this resource. Was added in version 3.0.0.0.	boolean
remove_ip_addresses <i>optional</i>	IP addresses to remove from the current list. The addresses may be IPv4 or IPv6. Error occurs if the IP address is not present. Cannot be combined with ip_addresses.	< string (ip-address) > array

file_system_clone

Parameters for the file system clone operation.

Name	Description	Schema
access_policy <i>optional</i>		FileSystemAccessPolicyEnum

Name	Description	Schema
description <i>optional</i>	Description of the clone. Length : 0 - 255	string
file_events_publishing_mode <i>optional</i>	Was added in version 3.0.0.0.	FileEventsPublishingModeEnum
flr_attributes <i>optional</i>	Was added in version 3.0.0.0.	flr_clone
folder_rename_policy <i>optional</i>		FileSystemFolderRenamePolicyEnum
is_async_MTime_enabled <i>optional</i>	Indicates whether asynchronous MTIME is enabled on the file system. Values are: true Asynchronous MTIME is enabled on the file system. false Asynchronous MTIME is disabled on the file system.	boolean
is_smb_notify_enabled <i>optional</i>	Indicates whether notifications of changes to directory file structure are enabled. true Change directory notifications are disabled. false Change directory notifications are enabled.	boolean
is_smb_notify_on_access_enabled <i>optional</i>	Indicates whether file access notifications are enabled on the file system. Values are: true File system notifications are enabled on the file system. false File system notifications are disabled on the file system.	boolean

Name	Description	Schema
is_smb_notify_on_write_enabled <i>optional</i>	Indicates whether file writes notifications are enabled on the file system. Values are: true File writes notifications are enabled on the file system. false File writes notifications are disabled on the file system.	boolean
is_smb_op_locks_enabled <i>optional</i>	Indicates if opportunistic file locking is enabled on the file system. Values are: true Opportunistic file locking is enabled on the file system. false Opportunistic file locking is disabled on the file system.	boolean
is_smb_sync_writes_enabled <i>optional</i>	Indicates whether the synchronous writes option is enabled on the file system. Values are: true Synchronous writes option is enabled on the file system. false Synchronous writes option is disabled on the file system.	boolean
locking_policy <i>optional</i>		FileSystemLockingPolicyEnum
name <i>required</i>	Name of the clone. Length : 1 - 255	string
smb_notify_on_change_dir_depth <i>optional</i>	Lowest directory level to which the enabled notifications apply, if any. Minimum value : 1 Maximum value : 512	integer (int32)

file_system_clone_response

File system clone created.

Name	Description	Schema
id <i>optional</i>	The unique identifier of the created clone.	string

file_system_create

Parameters for the file system create operation.

Name	Description	Schema
access_policy <i>optional</i>		FileSystemAccessPolicyEnum
config_type <i>optional</i>	Was added in version 3.0.0.0.	FileSystemConfigTypeEnum
description <i>optional</i>	File system description. (255 UTF-8 characters). Length : 0 - 255	string
file_events_publishing_mode <i>optional</i>	Was added in version 3.0.0.0.	FileEventsPublishingModeEnum
flr_attributes <i>optional</i>	Was added in version 3.0.0.0.	flr_create
folder_rename_policy <i>optional</i>		FileSystemFolderRenamePolicyEnum
host_io_size <i>optional</i>	Was added in version 3.0.0.0.	FileSystemHostIoSizeEnum
is_async_MTime_enabled <i>optional</i>	Indicates whether asynchronous MTIME is enabled on the file system or protocol snaps that are mounted writeable. Values are: true Asynchronous MTIME is enabled on the file system. false Asynchronous MTIME is disabled on the file system. Default : false	boolean

Name	Description	Schema
is_smb_no_notify_enabled <i>optional</i>	Indicates whether notifications of changes to directory file structure are enabled. true Change directory notifications are disabled. false Change directory notifications are enabled. Default : false	boolean
is_smb_notify_on_access_enabled <i>optional</i>	Indicates whether file access notifications are enabled on the file system. Cannot change value from default for VMware Config Type. Values are: true File access notifications are enabled on the file system. false File access notifications are disabled on the file system. Default : false	boolean
is_smb_notify_on_write_enabled <i>optional</i>	Indicates whether file writes notifications are enabled on the file system. Cannot change value from default for VMware Config Type. Values are: true File writes notifications are enabled on the file system. false File writes notifications are disabled on the file system. Default : false	boolean
is_smb_op_locks_enabled <i>optional</i>	Indicates whether opportunistic file locking is enabled on the file system. Cannot change value from default for VMware Config Type. Values are: true Opportunistic file locking is enabled on the file system. false Opportunistic file locking is disabled on the file system. Default : true	boolean

Name	Description	Schema
is_smb_sync_writes_enabled <i>optional</i>	Indicates whether the synchronous writes option is enabled on the file system. Cannot change value from default for VMware Config Type. Values are: true Synchronous writes option is enabled on the file system. false Synchronous writes option is disabled on the file system. Default : false	boolean
locking_policy <i>optional</i>		FileSystemLockingPolicyEnum
name <i>required</i>	Name of the file system. (255 UTF-8 characters). Length : 1 - 255	string
nas_server_id <i>required</i>	Unique identifier of the NAS Server on which the file system is mounted. name:{name} can be used instead of {id}. For example: 'nas_server_id':'name:nas_server_name'	string
performance_policy_id <i>optional</i>	Unique identifier of the File_Performance type policy applied to the file_system. If empty and there is no performance policy set for the parent nas_server, then no performance policy is governing the file_system. name:{name} can be used instead of {id}. For example: 'performance_policy_id':'name:policy_name' Was added in version 4.1.0.0.	string
protection_policy_id <i>optional</i>	Unique identifier of the protection policy applied to the file system. name:{name} can be used instead of {id}. For example: 'protection_policy_id':'name:policy_name'	string
size_total <i>required</i>	Parameters for the file system create operation. Unit : bytes Minimum value : 3221225472 Maximum value : 281474976710656	integer (int64)
smb_notify_on_change_dir_depth <i>optional</i>	Lowest directory level to which the enabled notifications apply, if any. Cannot change value from default for VMware Config Type. Minimum value : 1 Maximum value : 512	integer (int32)

file_system_import_state

The state of the Filesystem Import, the supported values are:

Idle	The data copy is not active.
Pending	The data copy is being (re-)started; this is a transient state.
Copying	The data copy from the source to the destination is ongoing.
Done	The data copy from the source to the destination has been completed. new writes are synced back to the source during the incremental copy.
Paused	The data copy from the source to the destination is paused per user request.
Error	The data copy has encountered an issue and is suspended.

Was added in version 3.0.0.0.

Type : enum (Idle, Pending, Copying, Done, Paused, Error)

file_system_instance

Properties of a file system. This resource type has queriable associations from nas_server, policy, file_tree_quota, file_user_quota, nfs_export, smb_share

Name	Description	Schema
access_policy <i>optional</i>		FileSystemAccessPolicyEnum
access_policy_l10n <i>optional</i>	Localized message string corresponding to access_policy	string
access_type <i>optional</i>		FileSystemSnapshotAccessTypeEnum
access_type_l10n <i>optional</i>	Localized message string corresponding to access_type	string
config_type <i>optional</i>	Was added in version 3.0.0.0.	FileSystemConfigTypeEnum

Name	Description	Schema
config_type_110n <i>optional</i>	Localized message string corresponding to config_type Was added in version 3.0.0.0.	string
creation_time_stamp <i>optional</i>	Time, in seconds, when the snapshot was created.	string (date-time)
creator_type <i>optional</i>		FileSystemSnapshotCreatorTypeEnum
creator_type_110n <i>optional</i>	Localized message string corresponding to creator_type	string
default_hard_limit <i>optional</i>	Properties of a file system. This resource type has queriable associations from nas_server, policy, file_tree_quota, file_user_quota, nfs_export, smb_share Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
default_soft_limit <i>optional</i>	Properties of a file system. This resource type has queriable associations from nas_server, policy, file_tree_quota, file_user_quota, nfs_export, smb_share Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
description <i>optional</i>	Description of the file system.	string
expiration_timestamp <i>optional</i>	Time, in seconds, when the snapshot will expire.	string (date-time)
file_events_publishing_mode <i>optional</i>	Was added in version 3.0.0.0.	FileEventsPublishingModeEnum

Name	Description	Schema
file_events_publishing_mode_l10n <i>optional</i>	Localized message string corresponding to file_events_publishing_mode Was added in version 3.0.0.0.	string
file_tree_quotas <i>optional</i>	This is the inverse of the resource type file_tree_quota association.	< file_tree_quota_instance > array
file_user_quotas <i>optional</i>	This is the inverse of the resource type file_user_quota association.	< file_user_quota_instance > array
filesystem_type <i>optional</i>		FileSystemTypeEnum
filesystem_type_l10n <i>optional</i>	Localized message string corresponding to filesystem_type	string
flr_attributes <i>optional</i>	Was added in version 3.0.0.0.	flr_instance
folder_rename_policy <i>optional</i>		FileSystemFolderRenamePolicyEnum
folder_rename_policy_l10n <i>optional</i>	Localized message string corresponding to folder_rename_policy	string
grace_period <i>optional</i>	Properties of a file system. This resource type has queriable associations from nas_server, policy, file_tree_quota, file_user_quota, nfs_export, smb_share Unit : seconds Default : -1 Minimum value : -1 Maximum value : 2147483647	integer (int32)
host_io_size <i>optional</i>	Was added in version 3.0.0.0.	FileSystemHostIoSizeEnum

Name	Description	Schema
host_io_size_10n <i>optional</i>	Localized message string corresponding to host_io_size Was added in version 3.0.0.0.	string
id <i>optional</i>	Unique identifier of the file system.	string
is_async_MTime_enabled <i>optional</i>	Indicates whether asynchronous MTIME is enabled on the file system. Values are: true Asynchronous MTIME is enabled on the file system. false Asynchronous MTIME is disabled on the file system.	boolean
is_modified <i>optional</i>	Indicates whether the snapshot may have changed since it was created. Values are: true Snapshot is or was shared with read/write access. false Snapshot was never shared.	boolean
is_quota_enabled <i>optional</i>	Indicates whether quota is enabled. Values are: true Start tracking usages for all users on a file system or a quota tree, and user quota limits will be enforced. false Stop tracking usages for all users on a file system or a quota tree, and user quota limits will not be enforced.	boolean

Name	Description	Schema
is_secure <i>optional</i>	Indicates whether a snapshot type filesystem is secure: true The snapshot is read-only and cannot be deleted until it has expired. The expiration time of secure snapshot cannot be reduced and cannot be set to infinite. The value of is_secure cannot be changed from true to false. false A normal snapshot. Was added in version 4.1.0.0.	boolean
is_smb_notify_enabled <i>optional</i>	Indicates whether notifications of changes to a directory file structure are enabled. true Change directory notifications are disabled. false Change directory notifications are enabled.	boolean
is_smb_notify_on_access_enabled <i>optional</i>	Indicates whether file access notifications are enabled on the file system. Values are: true File access notifications are enabled on the file system. false File access notifications are disabled on the file system.	boolean
is_smb_notify_on_write_enabled <i>optional</i>	Indicates whether file writes notifications are enabled on the file system. Values are: true File writes notification are enabled on the file system. false File writes notifications are disabled on the file system.	boolean

Name	Description	Schema
is_smb_op_locks_enabled <i>optional</i>	Indicates whether opportunistic file locking is enabled on the file system. Values are: true Opportunistic file locking is enabled on the file system. false Opportunistic file locking is disabled on the file system.	boolean
is_smb_sync_writes_enabled <i>optional</i>	Indicates whether the synchronous writes option is enabled on the file system. Values are: true Synchronous writes option is enabled on the file system. false Synchronous writes option is disabled on the file system.	boolean
last_refresh_timestamp <i>optional</i>	Time, in seconds, when the snapshot was last refreshed.	string (date-time)
last_writable_timestamp <i>optional</i>	If not mounted, and was previously mounted, the time (in seconds) of last mount. If never mounted, the value will be zero.	string (date-time)
locking_policy <i>optional</i>		FileSystemLockingPolicyEnum
locking_policy_l10n <i>optional</i>	Localized message string corresponding to locking_policy	string
name <i>optional</i>	Name of the file system. This property supports case-insensitive filtering.	string
nas_server <i>optional</i>	This is the embeddable reference form of nas_server_id attribute.	nas_server_instance
nas_server_id <i>optional</i>	Unique identifier of the NAS Server on which the file system is mounted.	string

Name	Description	Schema
nfs_exports <i>optional</i>	This is the inverse of the resource type nfs_export association.	< nfs_export_instance > array
parent_id <i>optional</i>	Unique identifier of the object of the parent of this file system (only applies to clones and snapshots). If the parent of a clone has been deleted the object_id will contain the null GUID 00000000-0000-0000-0000-000000000000.	string
performance_policy <i>optional</i>	This is the embeddable reference form of performance_policy_id attribute.	policy_instance
performance_policy_id <i>optional</i>	Unique identifier of the File_Performance type policy applied to the file_system. If empty and there is no performance policy set for the parent nas_server, then no performance policy is governing the file_system. Was added in version 4.1.0.0.	string
protection_policy <i>optional</i>	This is the embeddable reference form of protection_policy_id attribute.	policy_instance
protection_policy_id <i>optional</i>	Unique identifier of the protection policy applied to the file system.	string
size_total <i>optional</i>	Properties of a file system. This resource type has queriable associations from nas_server, policy, file_tree_quota, file_user_quota, nfs_export, smb_share Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
size_used <i>optional</i>	Properties of a file system. This resource type has queriable associations from nas_server, policy, file_tree_quota, file_user_quota, nfs_export, smb_share Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
smb_notify_on_change_dir_depth <i>optional</i>	Lowest directory level to which the enabled notifications apply, if any. Minimum value : 0 Maximum value : 2147483647	integer (int32)
smb_shares <i>optional</i>	This is the inverse of the resource type smb_share association.	< smb_share_instance > array

file_system_modify

Parameters for the file system modify operation. Modify a filesystem settings, where {id} is the unique identifier of the filesystem instance to modify Please note that modifying any of the following filesystem settings while in production may interrupt clients I/Os: - access_policy - locking_policy - folder_rename_policy - is_smb_sync_writes_enabled - is_smb_op_locks_enabled - is_async_MTime_enabled - file_events_publishing_mode - smb_notify_on_change_dir_depth

Name	Description	Schema
access_policy <i>optional</i>		FileSystemAccessPolicyEnum
default_hard_limit <i>optional</i>	Parameters for the file system modify operation. Modify a filesystem settings, where {id} is the unique identifier of the filesystem instance to modify Please note that modifying any of the following filesystem settings while in production may interrupt clients I/Os: - access_policy - locking_policy - folder_rename_policy - is_smb_sync_writes_enabled - is_smb_op_locks_enabled - is_async_MTime_enabled - file_events_publishing_mode - smb_notify_on_change_dir_depth Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
default_soft_limit <i>optional</i>	Parameters for the file system modify operation. Modify a filesystem settings, where {id} is the unique identifier of the filesystem instance to modify Please note that modifying any of the following filesystem settings while in production may interrupt clients I/Os: - access_policy - locking_policy - folder_rename_policy - is_smb_sync_writes_enabled - is_smb_op_locks_enabled - is_async_MTime_enabled - file_events_publishing_mode - smb_notify_on_change_dir_depth Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
description <i>optional</i>	Description of the file system. (255 UTF-8 characters). Length : 0 - 255	string
expiration_timestamp <i>optional</i>	Time when the snapshot will expire. Use 1970-01-01T00:00:00.000Z to set expiration timestamp to null.	string (date-time)
file_events_publishing_mode <i>optional</i>	Was added in version 3.0.0.0.	FileEventsPublishingModeEnum
flr_attributes <i>optional</i>	Was added in version 3.0.0.0.	flr_modify
folder_rename_policy <i>optional</i>		FileSystemFolderRenamePolicyEnum

Name	Description	Schema
grace_period <i>optional</i>	Parameters for the file system modify operation. Modify a filesystem settings, where {id} is the unique identifier of the filesystem instance to modify Please note that modifying any of the following filesystem settings while in production may interrupt clients I/Os: - access_policy - locking_policy - folder_rename_policy - is_smb_sync_writes_enabled - is_smb_op_locks_enabled - is_async_MTime_enabled - file_events_publishing_mode - smb_notify_on_change_dir_depth Unit : seconds Minimum value : -1 Maximum value : 2147483647	integer (int32)
is_async_MTime_enabled <i>optional</i>	Indicates whether asynchronous MTIME is enabled on the file system or protocol snaps that are mounted writeable. Values are: true Asynchronous MTIME is enabled on the file system. false Asynchronous MTIME is disabled on the file system.	boolean
is_quota_enabled <i>optional</i>	Indicates whether quota is enabled. Quotas are not supported for read-only file systems. Default value for the grace period is set to infinite=-1 to match Windows' quota policy Values are: true Start tracking usages for all users on a file system or a quota tree, and user quota limits will be enforced. false Stop tracking usages for all users on a file system or a quota tree, and user quota limits will not be enforced.	boolean

Name	Description	Schema
is_secure <i>optional</i>	Indicates whether a snapshot type filesystem is secure: true The snapshot is read-only and cannot be deleted until it has expired. The expiration time of secure snapshot cannot be reduced and cannot be set to infinite. The value of is_secure cannot be changed from true to false. false A normal snapshot. Was added in version 4.1.0.0.	boolean
is_smb_no_notify_enabled <i>optional</i>	Indicates whether notifications of changes to a directory file structure are enabled. Values are: true Change directory notifications are disabled. false Change directory notifications are enabled.	boolean
is_smb_notify_on_access_enabled <i>optional</i>	Indicates whether file access notifications are enabled on the file system. Values are: true File access notifications are enabled on the file system. false File access notifications on file access are disabled on the file system.	boolean
is_smb_notify_on_write_enabled <i>optional</i>	Indicates whether notifications on file writes are enabled on the file system. Values are: true File writes notifications are enabled on the file system. false File writes notifications are disabled on the file system.	boolean

Name	Description	Schema
is_smb_op_locks_enabled <i>optional</i>	Indicates whether opportunistic file locking is enabled on the file system. Values are: true Opportunistic file locking is enabled on the file system. false Opportunistic file locking is disabled on the file system.	boolean
is_smb_sync_writes_enabled <i>optional</i>	Indicates whether the synchronous writes option is enabled on the file system. Values are: true Synchronous writes option is enabled on the file system. false Synchronous writes option is disabled on the file system.	boolean
locking_policy <i>optional</i>		FileSystemLockingPolicyEnum
performance_policy_id <i>optional</i>	Unique identifier of the File_Performance type policy applied to the file_system. If empty and there is no performance policy set for the parent nas_server, then no performance policy is governing the file_system. name:{name} can be used instead of {id}. For example: 'performance_policy_id':'name:policy_name' Was added in version 4.1.0.0.	string
protection_policy_id <i>optional</i>	Unique identifier of the protection policy applied to the file system. name:{name} can be used instead of {id}. For example: 'protection_policy_id':'name:policy_name'	string

Name	Description	Schema
size_total <i>optional</i>	Parameters for the file system modify operation. Modify a filesystem settings, where {id} is the unique identifier of the filesystem instance to modify Please note that modifying any of the following filesystem settings while in production may interrupt clients I/Os: - access_policy - locking_policy - folder_rename_policy - is_smb_sync_writes_enabled - is_smb_op_locks_enabled - is_async_MTime_enabled - file_events_publishing_mode - smb_notify_on_change_dir_depth Unit : bytes Minimum value : 3221225472 Maximum value : 281474976710656	integer (int64)
smb_notify_on_change_dir_depth <i>optional</i>	Lowest directory level to which the enabled notifications apply, if any. Minimum value : 1 Maximum value : 512	integer (int32)

file_system_restore

Parameters for the file system restore operation.

Name	Description	Schema
copy_name <i>optional</i>	Name of the backup snap to be created before the Restore operation occurs. If no name is specified no backup copy will be made. Length : 1 - 255	string

file_system_restore_response

Backup snapshot of the file system created.

Name	Description	Schema
id <i>optional</i>	The unique identifier of the created snapshot.	string

file_system_snapshot

Parameters for the file system snapshot operation.

Name	Description	Schema
access_policy <i>optional</i>		FileSystemAccessPolicyEnum
access_type <i>optional</i>		FileSystemSnapshotAccessTypeEnum
description <i>optional</i>	Description of the snapshot. Length : 0 - 255	string
expiration_timestamp <i>optional</i>	Time, when the snapshot will expire.	string (date-time)
file_events_publishing_mode <i>optional</i>	Was added in version 3.0.0.0.	FileEventsPublishingModeEnum
folder_rename_policy <i>optional</i>		FileSystemFolderRenamePolicyEnum
is_async_MTime_enabled <i>optional</i>	Indicates whether asynchronous MTIME is enabled on the protocol snaps that are mounted writeable. Values are: true Asynchronous MTIME is enabled on the file system. false Asynchronous MTIME is disabled on the file system.	boolean
is_auto_delete_enabled <i>optional</i>	Indicates whether the snapshot can be automatically deleted per threshold settings. Values are: true Snapshot can be automatically deleted per threshold settings. false Snapshot cannot be automatically deleted.	boolean

Name	Description	Schema
is_secure <i>optional</i>	Indicates whether a snapshot type filesystem is secure: true The snapshot is read-only and cannot be deleted until it has expired. The expiration time of secure snapshot cannot be reduced and cannot be set to infinite. The value of is_secure cannot be changed from true to false. false A normal snapshot. Was added in version 4.1.0.0.	boolean
is_smb_notify_enabled <i>optional</i>	Indicates whether notifications of changes to a directory file structure are enabled. true Change directory notifications are disabled. false Change directory notifications are enabled.	boolean
is_smb_notify_on_access_enabled <i>optional</i>	Indicates whether file access notifications are enabled on the file system. Values are: true File access notifications are enabled on the file system. false File access notifications are disabled on the file system.	boolean
is_smb_notify_on_write_enabled <i>optional</i>	Indicates whether file writes notifications are enabled on the file system. Values are: true File writes notifications are enabled on the file system. false File writes notifications are disabled on the file system.	boolean

Name	Description	Schema
is_smb_op_locks_enabled <i>optional</i>	Indicates whether opportunistic file locking is enabled on the file system. Values are: true Opportunistic file locking is enabled on the file system. false Opportunistic file locking is disabled on the file system.	boolean
is_smb_sync_writes_enabled <i>optional</i>	Indicates whether the synchronous writes option is enabled on the file system. Values are: true Synchronous writes option is enabled on the file system. false Synchronous writes option is disabled on the file system.	boolean
locking_policy <i>optional</i>		FileSystemLockingPolicyEnum
name <i>optional</i>	Name of the snapshot. The default name of the snapshot is the date and time when the snapshot is taken. Length : 1 - 255	string
smb_notify_on_change_dir_depth <i>optional</i>	Lowest directory level to which the enabled notifications apply, if any. Minimum value : 1 Maximum value : 512	integer (int32)

file_system_snapshot_response

Snapshot file system created.

Name	Description	Schema
id <i>optional</i>	The unique identifier of the created snapshot.	string

file_tree_quota_create

Parameters for file tree quota create operation.

Name	Description	Schema
description <i>optional</i>	Description of the tree quota. Length : 0 - 256	string
file_system_id <i>required</i>	Unique identifier of the associated file system. name:{name} can be used instead of {id}. For example: 'file_system_id':'name:file_system_name'	string
grace_period <i>optional</i>	Parameters for file tree quota create operation. Unit : seconds Default : 0 Minimum value : -1 Maximum value : 2147483647	integer (int32)
hard_limit <i>optional</i>	Parameters for file tree quota create operation. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
is_user_quotas_enforced <i>optional</i>	Whether the quota must be enabled for all users, and whether user quota limits, if any, are enforced. Values are: true Start tracking usage for all users on the quota tree, and enforce user quota limits. false Stop tracking usage for all users on the quota tree, and do not enforce user quota limits.	boolean
path <i>required</i>	Path relative to the root of the associated filesystem. Length : 1 - 1024	string
soft_limit <i>optional</i>	Parameters for file tree quota create operation. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

file_tree_quota_instance

Properties of a file tree quota. Values was added in 2.0.0.0: grace_period. This resource type has queriable associations from file_system, file_user_quota

Name	Description	Schema
description <i>optional</i>	Description of the tree quota. Length : 0 - 256	string
file_system <i>optional</i>	This is the embeddable reference form of file_system_id attribute.	file_system_instance
file_system_id <i>optional</i>	Unique identifier of the associated file system.	string
file_user_tree_quotas <i>optional</i>	This is the inverse of the resource type file_user_quota association.	< file_user_quota_instance > array
grace_period <i>optional</i>	Properties of a file tree quota. Values was added in 2.0.0.0: grace_period. This resource type has queriable associations from file_system, file_user_quota Unit : seconds Default : 0 Minimum value : -1 Maximum value : 2147483647	integer (int32)
hard_limit <i>optional</i>	Properties of a file tree quota. Values was added in 2.0.0.0: grace_period. This resource type has queriable associations from file_system, file_user_quota Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
id <i>optional</i> <i>read-only</i>	Unique identifier of the tree quota.	string
is_user_quotas_enforced <i>optional</i>	Whether user quota are enabled on this tree quota. The tree quota itself is enforced regardless of this parameter.	boolean
path <i>optional</i>	Path relative to the root of the associated filesystem. Length : 1 - 1024	string

Name	Description	Schema
remaining_grace_period <i>optional</i>	Properties of a file tree quota. Values was added in 2.0.0.0: grace_period. This resource type has queriable associations from file_system, file_user_quota Unit : seconds Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
size_used <i>optional</i>	Properties of a file tree quota. Values was added in 2.0.0.0: grace_period. This resource type has queriable associations from file_system, file_user_quota Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
soft_limit <i>optional</i>	Properties of a file tree quota. Values was added in 2.0.0.0: grace_period. This resource type has queriable associations from file_system, file_user_quota Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
state <i>optional</i>		FileQuotaStateEnum
state_l10n <i>optional</i>	Localized message string corresponding to state	string

file_tree_quota_modify

Parameters for the file tree quota modify operation.

Name	Description	Schema
description <i>optional</i>	Description of the tree quota. Length : 0 - 256	string
grace_period <i>optional</i>	Parameters for the file tree quota modify operation. Unit : seconds Minimum value : -1 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
hard_limit <i>optional</i>	Parameters for the file tree quota modify operation. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
is_user_quota_s_enforced <i>optional</i>	Whether the quota must be enabled for all users, and whether user quota limits, if any, are enforced. Values are: true Start tracking usage for all users on the quota tree, and enforce user quota limits. false Stop tracking usage for all users on the quota tree, and do not enforce user quota limits.	boolean
soft_limit <i>optional</i>	Parameters for the file tree quota modify operation. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

file_user_quota_create

Name	Description	Schema
file_system_id <i>required</i>	Unique identifier of the filesystem in which the new user quota will be created. name:{name} can be used instead of {id}. For example: 'file_system_id':'name:file_system_name'	string
hard_limit <i>optional</i>	undefined Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
soft_limit <i>optional</i>	undefined Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
tree_quota_id <i>optional</i>	Unique identifier of the tree quota in which the new user quota will be created.	string

Name	Description	Schema
uid <i>optional</i>	Unix user identifier (UID) of the user. Preferred identifier. Minimum value : 1 Maximum value : 4294967294	integer (int64)
unix_name <i>optional</i>	Unix username. Identifiers are exclusive. Only one of the four identifiers among 'user uid' / 'unix username' / 'windows username' / 'windows SID' can be used at a time.	string
windows_name <i>optional</i>	Windows username. The format is domain\user for the domain user. Identifiers are exclusive. Only one of the four identifiers among 'user uid' / 'unix username' / 'windows username' / 'windows SID' can be used at a time.	string
windows_sid <i>optional</i>	Windows Security Identifier of the user. Identifiers are exclusive. Only one of the four identifiers among 'user uid' / 'unix username' / 'windows username' / 'windows SID' can be used at a time.	string

file_user_quota_instance

This resource type has queriable associations from file_system, file_tree_quota

Name	Description	Schema
file_system <i>optional</i>	This is the embeddable reference form of file_system_id attribute.	file_system_instance
file_system_id <i>optional</i>	Unique identifier of the associated filesystem.	string
hard_limit <i>optional</i>	This resource type has queriable associations from file_system, file_tree_quota Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
id <i>optional</i> <i>read-only</i>	Unique identifier of the user quota.	string

Name	Description	Schema
remaining_grace_period <i>optional</i>	Remaining grace period, in seconds, after the soft limit is exceeded: - 0 - Grace period has already expired - -1 - No grace period in-progress, or infinite grace period set The grace period of user quotas is set in the file system quota configuration. Minimum value : 0 Maximum value : 2147483647	integer (int32)
size_used <i>optional</i>	This resource type has queriable associations from file_system, file_tree_quota Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
soft_limit <i>optional</i>	This resource type has queriable associations from file_system, file_tree_quota Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
state <i>optional</i>		FileQuotaStateEnum
state_l10n <i>optional</i>	Localized message string corresponding to state	string
tree_quota <i>optional</i>	This is the embeddable reference form of tree_quota_id attribute.	file_tree_quota_instance
tree_quota_id <i>optional</i>	Unique identifier of the associated tree quota. Values are: - null - if the user quota is not within a quota tree. - tree_quota instance id - if the user quota is within a quota tree.	string
uid <i>optional</i>	Unix user identifier (UID) of the user. Minimum value : 1 Maximum value : 4294967294	integer (int64)
unix_name <i>optional</i>	Unix username.	string

Name	Description	Schema
windows_name <i>optional</i>	Windows username. The format is domain\user for the domain user.	string
windows_sid <i>optional</i>	Windows Security Identifier of the user.	string

file_user_quota_modify

Name	Description	Schema
hard_limit <i>optional</i>	undefined Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
soft_limit <i>optional</i>	undefined Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

file_virus_checker_add_privileged_account

Parameters of virus_checker add/remove privileged account operation. Was added in version 4.0.0.0.

Name	Description	Schema
account <i>required</i>	Account to which AV privilege will be granted/Removed, using the format 'domain'\account'. 'domain' can be domain name, netbios name, or empty to set the privilege to a local account. 'account' can be a user name or a group name. Length : 1 - 255	string

file_virus_checker_create

Name	Description	Schema
files_to_exclude <i>optional</i>	List of files or file extensions to exclude during scanning. * and ? wildcards can be used: - Asterix (*) matches one or more occurrences of any character - Question mark (?) matches a single occurrence or any character Was added in version 4.0.0.0. Example : ["pagefile.sys", "*.tmp"]	< string > array
files_to_scan <i>optional</i>	List of files or file extensions to be scanned. * and ? wildcards can be used: - Asterix (*) matches one or more occurrences of any character - Question mark (?) matches a single occurrence or any character Was added in version 4.0.0.0. Example : [".exe", ".txt", ".docx", ".bat", "*.xl?"]	< string > array
high_watermark <i>optional</i>	Send an event and block FS I/O when the number of requests waiting for checker is reaching this value. Was added in version 4.0.0.0. Default : 200 Minimum value : 4 Maximum value : 2000	integer (int32)
http_port <i>optional</i>	TCP port number used by the service to connect to the Virus checker server(s) with HTTP. Default port number is 12228. Set this http_port value to 0 to disable HTTP. When enabled, connection via HTTP is attempted first. If HTTP connection is disabled, or the connection fails, then connection through MSRPC is attempted if all Virus checker server(s) are defined by FQDN. The SMB account of the NAS server in the AD Domain is used to make the connection via MSRPC. Note that HTTP connections should only be used on secure networks, as it is neither SSL nor authenticated. Note: When the http_port is set, the same port number must be specified in the HttpPort entry of the Checker's Windows Registry at: HKEY_LOCAL_MACHINE\SOFTWARE\EMC\CEE\Configuration Was added in version 4.0.0.0. Default : 12228 Minimum value : 0 Maximum value : 65535	integer (int32)

Name	Description	Schema
ip_addresses <i>optional</i>	Virus Checker server IP addresses. The addresses may be IPv4 or IPv6 or FQDN. Was added in version 4.0.0.0.	< string > array
low_watermark <i>optional</i>	Only applicable after the high water mark is reached. After the high_watermark has been reached, system will wait the number of request to go below low watermark value before sending an event and un-blocking FS I/O. Recommended value is 1/4th of high_watermark value. Was added in version 4.0.0.0. Default : 50 Minimum value : 1 Maximum value : 500	integer (int32)
max_file_size <i>optional</i>	Files that are larger than this size won't be sent to the virus checker. 0 means no limit. Was added in version 4.0.0.0. Default : 0 Minimum value : 0 Maximum value : 4294967295	integer (int64)
msrpc_user <i>optional</i>	User for authentication to the Virus checker server when msrpc request is enabled - MANDATORY IF MSRPC IS EMPLOYED (note that you can use the same user as the 'AV privileged user' for ease of use, but it could be a different user). Was added in version 4.0.0.0. Length : 1 - 1023	string
msrpc_user_password <i>optional</i>	Password of the MS-RPC User Was added in version 4.0.0.0. Length : 1 - 255	string (password)
nas_server_id <i>required</i>	Unique identifier of an associated NAS Server instance that uses this virus checker configuration. Only one virus checker configuration per NAS Server is supported. name:{name} can be used instead of {id}. For example: 'nas_server_id': 'name:nas_server_name'	string
offline_policy <i>optional</i>	Was added in version 4.0.0.0.	FileVirusCheckerOfflinePolicyEnum

Name	Description	Schema
survey_time <i>optional</i>	Time, in seconds at which frequency the system will verify that the virus checkers are online. Was added in version 4.0.0.0. Default : 10 Minimum value : 1 Maximum value : 3600	integer (int32)

file_virus_checker_get_privileged_accounts_response

Response body for file_virus_checker get_privileged_accounts operation. Was added in version 4.0.0.0.

Name	Description	Schema
accounts <i>optional</i>	Accounts that currently have AV privilege on the NAS server of this file_virus_checker.	< string > array

file_virus_checker_get_viruschecker_audit_info_response

Virus checker audit info response. Was added in version 4.0.0.0.

Name	Schema
entries <i>optional</i>	< entries > array

entries

Name	Description	Schema
address <i>optional</i>	IP address of the virus checker server. Length : 1 - 45	string
av_engine_name <i>optional</i>	Anti Virus engine name. Length : 0 - 39	string
online <i>optional</i>	Whether virus checker server is online(true) or offline(false)	boolean

Name	Description	Schema
remediation_window <i>optional</i>	Some VC engines detect and take an action after returning an error to SDNAS. This 'window' allows SDNAS VC to wait a bit to identify what action was taken, rename(quarantine)/delete/modify(fix). Minimum value : 0 Maximum value : 2147483647	integer (int32)
server_name <i>optional</i>	Virus checker server name. if the virus checker server IP address cannot resolve to a name, the IP address is provided. Length : 1 - 255	string
server_version <i>optional</i>	Version of the virus checker server. Length : 0 - 19	string
signature_last_update_time <i>optional</i>	Last update time of known virus list.	string (date-time)

file_virus_checker_instance

This resource type has queriable association from nas_server

Name	Description	Schema
files_to_exclude <i>optional</i>	List of files or file extensions to exclude during scanning. * and ? wildcards can be used: - Asterix (*) matches one or more occurrences of any character - Question mark (?) matches a single occurrence or any character Was added in version 4.0.0.0. Example : ["pagefile.sys", "*.tmp"]	< string > array
files_to_scan <i>optional</i>	List of files or file extensions to be scanned. * and ? wildcards can be used: - Asterix (*) matches one or more occurrences of any character - Question mark (?) matches a single occurrence or any character Was added in version 4.0.0.0. Example : [".exe", ".txt", ".docx", ".bat", "*.xl?"]	< string > array

Name	Description	Schema
high_watermark <i>optional</i>	Send an event and block FS I/O when the number of requests waiting for checker is reaching this value. Was added in version 4.0.0.0. Default : 200 Minimum value : 4 Maximum value : 2000	integer (int32)
http_port <i>optional</i>	TCP port number used by the service to connect to the Virus checker server(s) with HTTP. Default port number is 12228. Set this http_port value to 0 to disable HTTP. When enabled, connection via HTTP is attempted first. If HTTP connection is disabled, or the connection fails, then connection through MSRPC is attempted if all Virus checker server(s) are defined by FQDN. The SMB account of the NAS server in the AD Domain is used to make the connection via MSRPC. Note that HTTP connections should only be used on secure networks, as it is neither SSL nor authenticated. Note: When the http_port is set, the same port number must be specified in the HttpPort entry of the Checker's Windows Registry at: HKEY_LOCAL_MACHINE\SOFTWARE\EMC\CEE\Configuration Was added in version 4.0.0.0. Default : 12228 Minimum value : 0 Maximum value : 65535	integer (int32)
id <i>optional</i>	Unique identifier of the virus checker instance.	string
ip_addresses <i>optional</i>	Virus Checker server IP addresses. The addresses may be IPv4 or IPv6 or FQDN. Was added in version 4.0.0.0.	< string > array
is_config_file_uploaded <i>optional</i>	Indicates whether a virus checker configuration file has been uploaded. Default : false	boolean

Name	Description	Schema
is_destination_override_enabled <i>optional</i>	In order to modify the configuration of this resource when the associated NAS server is a replication destination, the <code>is_destination_override_enabled</code> flag must be set to true. When true, a virus checker config file may be uploaded on the destination to override the source virus checker config file. Values are: true - Enable locally set configuration. A virus checker config file may be uploaded on the destination to override the source virus checker config file. false - Revert to use the source configuration file. Source configuration file changes will propagate directly to this resource. Was added in version 3.0.0.0. Default : false	boolean
is_enabled <i>optional</i>	Indicates whether the anti-virus service is enabled on this NAS server. Value are: - true - Anti-virus service is enabled. Each file created or modified by an SMB client is scanned by the third-party anti-virus servers. If a virus is detected, the access to the file system is denied. If third-party anti-virus servers are not available, according the policy, the access to the file systems is denied to prevent potential viruses propagation. - false - Anti-virus service is disabled. File systems of the NAS servers are available for access without virus checking	boolean
low_watermark <i>optional</i>	Only applicable after the high water mark is reached. After the <code>high_watermark</code> has been reached, system will wait the number of request to go below low watermark value before sending an event and un-blocking FS I/O. Recommended value is 1/4th of <code>high_watermark</code> value. Was added in version 4.0.0.0. Default : 50 Minimum value : 1 Maximum value : 500	integer (int32)
max_file_size <i>optional</i>	Files that are larger than this size won't be sent to the virus checker. 0 means no limit. Was added in version 4.0.0.0. Default : 0 Minimum value : 0 Maximum value : 4294967295	integer (int64)

Name	Description	Schema
msrpc_user <i>optional</i>	User for authentication to the Virus checker server when msrpc request is enabled - MANDATORY IF MSRPC IS EMPLOYED (note that you can use the same user as the 'AV privileged user' for ease of use, but it could be a different user). Was added in version 4.0.0.0. Length : 1 - 1023	string
nas_server <i>optional</i>	This is the embeddable reference form of nas_server_id attribute.	nas_server_instance
nas_server_id <i>optional</i>	NAS server that is configured with these anti-virus settings.	string
offline_policy <i>optional</i>	Was added in version 4.0.0.0.	FileVirusCheckerOfflinePolicyEnum
offline_policy_id <i>optional</i>	Localized message string corresponding to offline_policy Was added in version 4.0.0.0.	string
reference_time <i>optional</i>	To enable scan on first read the reference time must be set. When the last access time of a file is earlier than the reference time, on access the file is sent to the Virus checker before the access is granted to the client. Was added in version 4.0.0.0.	string (date-time)
rpc_request_timeout <i>optional</i>	Time in milliseconds, during which the file scan will be retried (msrpc only). Recommended value is RPC_retry_timeout * 5. Was added in version 4.0.0.0. Default : 25000 Minimum value : 1 Maximum value : 3600000	integer (int32)
rpc_retry_timeout <i>optional</i>	This resource type has queriable association from nas_server Unit : msec Default : 5000 Minimum value : 1 Maximum value : 3600000	integer (int32)

Name	Description	Schema
survey_time <i>optional</i>	Time, in seconds at which frequency the system will verify that the virus checkers are online. Was added in version 4.0.0.0. Default : 10 Minimum value : 1 Maximum value : 3600	integer (int32)

file_virus_checker_modify

Name	Description	Schema
files_to_exclude <i>optional</i>	Defines files or file extensions to exclude during scanning. * and ? wildcards can be used: - Asterix (*) matches one or more occurrences of any character - Question mark (?) matches a single occurrence or any character Was added in version 4.0.0.0. Example : ["pagefile.sys", "*.tmp"]	< string > array
files_to_scan <i>optional</i>	Defines files and file extensions to be scanned. * and ? wildcards can be used: - Asterix (*) matches one or more occurrences of any character - Question mark (?) matches a single occurrence or any character Was added in version 4.0.0.0. Example : [".exe", ".txt", ".docx", ".bat", "*.xl?"]	< string > array
high_watermark <i>optional</i>	Send an event and block FS I/O when the number of requests waiting for checker is reaching this value. Was added in version 4.0.0.0. Minimum value : 4 Maximum value : 2000	integer (int32)

Name	Description	Schema
http_port <i>optional</i>	TCP port number used by the service to connect to the Virus checker server(s) with HTTP. Default port number is 12228. Set this http_port value to 0 to disable HTTP. When enabled, connection via HTTP is attempted first. If HTTP connection is disabled, or the connection fails, then connection through MSRPC is attempted if all Virus checker server(s) are defined by FQDN. The SMB account of the NAS server in the AD Domain is used to make the connection via MSRPC. Note that HTTP connections should only be used on secure networks, as it is neither SSL nor authenticated. Note: When the http_port is set, the same port number must be specified in the HttpPort entry of the Checker's Windows Registry at: HKEY_LOCAL_MACHINE\SOFTWARE\EMC\CEE\Configuration Was added in version 4.0.0.0. Minimum value : 0 Maximum value : 65535	integer (int32)
ip_addresses <i>optional</i>	Virus Checker server IP addresses. The addresses may be IPv4 or IPv6 or FQDN. Was added in version 4.0.0.0.	< string > array
is_destination_override_enabled <i>optional</i>	In order to modify the configuration of this resource when the associated NAS server is a replication destination, the is_destination_override_enabled flag must be set to true. When true, a virus checker config file may be uploaded on the destination to override the source virus checker config file. Values are: true - Enable locally set configuration. A virus checker config file may be uploaded on the destination to override the source virus checker config file. false - Revert to use the source configuration file. Source configuration file changes will propagate directly to this resource. Was added in version 3.0.0.0.	boolean

Name	Description	Schema
is_enabled <i>optional</i>	Indicates whether the anti-virus service is enabled on this NAS server. Value are: - true - Anti-virus service is enabled. Each file created or modified by an SMB client is scanned by the third-party anti-virus servers. If a virus is detected, the access to the file system is denied. If third-party anti-virus servers are not available, according the policy, the access to the file systems is denied to prevent potential viruses propagation. - false - Anti-virus service is disabled. File systems of the NAS servers are available for access without virus checking.	boolean
low_watermark <i>optional</i>	Only applicable after the high water mark is reached. After the high_watermark has been reached, system will wait the number of request to go below low watermark value before sending an event and un-blocking FS I/O. Recommended value is 1/4th of high_watermark value. Was added in version 4.0.0.0. Minimum value : 1 Maximum value : 500	integer (int32)
max_file_size <i>optional</i>	Files that are larger than this size won't be sent to the virus checker. 0 means no limit. Was added in version 4.0.0.0. Minimum value : 0 Maximum value : 4294967295	integer (int64)
msrpc_user <i>optional</i>	User for authentication to the Virus checker server when msrpc request is enabled - MANDATORY IF MSRPC IS EMPLOYED (note that you can use the same user as the 'AV privileged user' for ease of use, but it could be a different user). Was added in version 4.0.0.0. Length : 1 - 1023	string
msrpc_user_password <i>optional</i>	Password of the MS-RPC User Was added in version 4.0.0.0. Length : 1 - 255	string (password)
offline_policy <i>optional</i>	Was added in version 4.0.0.0.	FileVirusCheckerOfflinePolicyEnum

Name	Description	Schema
reference_time <i>optional</i>	To enable scan on first read the reference time must be set. When the last access time of a file is earlier than the reference time, on access the file is sent to the Virus checker before the access is granted to the client. Was added in version 4.0.0.0.	string (date-time)
rpc_request_timeout <i>optional</i>	Time in milliseconds, during which the file scan will be retried (msrpc only). Recommended value is rpc_retry_timeout * 5. Was added in version 4.0.0.0. Minimum value : 1 Maximum value : 3600000	integer (int32)
rpc_retry_timeout <i>optional</i>	undefined Unit : msec Minimum value : 1 Maximum value : 3600000	integer (int32)
survey_time <i>optional</i>	Time, in seconds at which frequency the system will verify that the virus checkers are online. Was added in version 4.0.0.0. Minimum value : 1 Maximum value : 3600	integer (int32)

file_virus_checker_remove_privileged_account

Parameters of virus_checker add/remove privileged account operation. Was added in version 4.0.0.0.

Name	Description	Schema
account <i>required</i>	Account to which AV privilege will be granted/Removed, using the format 'domain'\account'. 'domain' can be domain name, netbios name, or empty to set the privilege to a local account. 'account' can be a user name or a group name. Length : 1 - 255	string

file_virus_checker_scan_status

Parameters of the virus_checker scan_status operation. Specify either a list file_system_ids or

is_get_all=true, not both.

Was added in version 4.0.0.0.

Name	Description	Schema
file_system_ids <i>optional</i>	List of specific filesystem ids whose scan status should be returned. Do not specify with is_get_all=true.	< string > array
is_get_all <i>optional</i>	True will get all virus scan status running on the storage resources of the associated NAS Server. Do not specify as true with file_system_ids. Default : false	boolean

file_virus_checker_scan_status_response

Virus checker scan status response. Was added in version 4.0.0.0.

Name	Schema
scan_status <i>optional</i>	< scan_status > array

scan_status

Name	Description	Schema
directories_scanned <i>optional</i>	Number of directories scanned. If directory is deleted before it was scanned, it will not be counted and if directory is deleted after it was scanned the counter won't change. Minimum value : 0 Maximum value : 2147483647	integer (int32)
file_system_id <i>optional</i>	Unique identifier of the file system.	string
files_queued <i>optional</i>	Number of files waiting for scan. Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
files_scanned <i>optional</i>	Number of files scanned. If file is deleted before it was scanned, it will not be counted and if file is deleted after it was scanned the counter won't change. Minimum value : 0 Maximum value : 2147483647	integer (int32)
is_scan_offline_files <i>optional</i>	Indicates whether the offline files will be scanned for viruses.	boolean
status <i>optional</i>		FileVirusCheckerStatusEnum

file_virus_checker_start_scan

Parameters of virus_checker start_scan operation. Was added in version 4.0.0.0.

Name	Description	Schema
file_system_ids <i>required</i>	List of file system IDs to be scanned.	< string > array

file_virus_checker_stop_scan

Parameters of the virus_checker stop_scan operation. Specify either a list file_system_ids or is_stop_all=true, not both.

Was added in version 4.0.0.0.

Name	Description	Schema
file_system_ids <i>optional</i>	List of specific filesystem ids where the virus scan must be stopped. Do not specify with is_stop_all=true.	< string > array
is_stop_all <i>optional</i>	True will stop all virus scan currently running on the storage resources of the associated NAS Server. Do not specify as true with file_system_ids. Default : false	boolean

flr_clone

Was added in version 3.0.0.0.

Name	Description	Schema
force_clone <i>optional</i>	Specifies whether an FLR-C file system should be cloned. True means cloning an FLR-C file system is allowed. False means cloning an FLR-C file system is not allowed and any attempt to do so will return an error. Default : false	boolean

flr_create

Was added in version 3.0.0.0.

Name	Description	Schema
default_retention <i>optional</i>	The default retention period that is used in an FLR-enabled file system when a file is locked and a retention period is not specified. This value must be greater than or equal to the minimum retention period, and less than or equal to the maximum retention period. Format [default_int][Y M D] (example 5Y for 5 years). Specify Y for years, M for months, D for days, or infinite. The default value for the default retention period is infinite for Enterprise FLR mode, and 1 year for Compliance FLR mode. This attribute should be set only for FLR enabled filesystems. Pattern : "(\\d+[DMY]) (infinite\$)"	string
maximum_retention <i>optional</i>	The longest retention period for which files on an FLR-enabled file system can be locked and protected from deletion. Any attempt to lock a file for more than this maximum retention period results in the file being locked until the current system time plus the maximum retention period is reached. Format [default_int][Y M D] (example 5Y for 5 years). Specify Y for years, M for months, D for days, or infinite. Setting infinite means that the files can never be deleted. This attribute should be set only for FLR enabled filesystems. Default : "infinite" Pattern : "(\\d+[DMY]) (infinite\$)"	string

Name	Description	Schema
minimum_retention <i>optional</i>	The shortest retention period for which files on an FLR-enabled file system can be locked and protected from deletion. This value must be less than or equal to the maximum retention period. Any attempt to lock a file for less than the minimum retention period results in the file being locked until the current system time plus the minimum retention period is reached. Format [default_int][Y M D] (example 5Y for 5 years). Specify Y for years, M for months, D for days, or the keyword infinite. Setting infinite means that the files can never be deleted. This attribute should be set only for FLR enabled filesystems. Default : "1D" Pattern : "(\\d+[DMY]) (infinite\$)"	string
mode <i>optional</i>		FileSystemFLRMode Enum

flr_instance

Was added in version 3.0.0.0. Filtering on the fields of this embedded resource is not supported.

Name	Description	Schema
auto_delete <i>optional</i>	Indicates whether locked files will be automatically delete from an FLR-enabled file system once their retention periods have expired. This setting is significant only when flr mode is not None.	boolean
auto_lock <i>optional</i>	Indicates whether to automatically lock files in an FLR-enabled file system. When true files are locked automatically after modification based on the policy_interval. When enabled, auto-locked files are set with the default retention period value. This setting is significant only when flr mode is not None.	boolean
clock_time <i>optional</i>	Per file system clock used to track the retention date. It is initialized when an FLR-enabled file system is first mounted on a NAS Server. It does not advance when a file system is not mounted. This setting is significant only when flr mode is not None.	string (date-time)

Name	Description	Schema
default_retention <i>optional</i>	The default retention period that is used in an FLR-enabled file system when a file is locked and a retention period is not specified. This value must be greater than or equal to the minimum retention period, and less than or equal to the maximum retention period. Format [integer][Y M D] "infinite" (example "5Y" for 5 years). Specify Y for years, M for months, D for days, or infinite. The default value for the default retention period is infinite, which means that the files can never be deleted. This setting is significant only when flr mode is not None.	string
has_protected_files <i>optional</i>	Indicates whether FLR file system has protected files. This setting is significant only when flr mode is not None.	boolean
maximum_retention <i>optional</i>	The longest retention period for which files on an FLR-enabled file system can be locked and protected from deletion. Any attempt to lock a file for more than this maximum retention period results in the file being locked until the current system time plus the maximum retention period is reached. Format [integer][Y M D] "infinite" (example "5Y" for 5 years). Specify Y for years, M for months, D for days, or the keyword infinite. The default value for the maximum retention period is infinite, which means that the files can never be deleted. This setting is significant only when flr mode is not None.	string
maximum_retention_date <i>optional</i>	Maximum date and time that has been set on any locked file in an FLR-enabled file system, which means that the file system itself will be protected until this date and time. This value is compared to the FLR Clock Time to determine whether the date and time have passed. Value is null if the maximum locked date is infinite, or a specific time. This setting is significant only when flr mode is not None.	string (date-time)

Name	Description	Schema
minimum_retention <i>optional</i>	The shortest retention period for which files on an FLR-enabled file system can be locked and protected from deletion. This value must be less than or equal to the maximum retention period. Any attempt to lock a file for less than the minimum retention period results in the file being locked until the current system time plus the minimum retention period is reached. The default value for the minimum retention period is 1 day. Format [integer][Y M D] "infinite" (example "5Y" for 5 years). Specify Y for years, M for months, D for days, or the keyword infinite. Setting infinite means that the files can never be deleted. This setting is significant only when flr mode is not None.	string
mode <i>optional</i>		FileSystemFLRMode Enum
mode_l10n <i>optional</i>	Localized message string corresponding to mode Was added in version 3.0.0.0.	string
policy_interval <i>optional</i>	Indicates how long to wait (in seconds) after files are modified before the files are automatically locked. The default value is 3600 seconds (1 hour). This setting is significant only when flr mode is not None. Minimum value : 0 Maximum value : 2147483647	integer (int32)

flr_modify

Was added in version 3.0.0.0.

Name	Description	Schema
auto_delete <i>optional</i>	Indicates whether locked files will be automatically delete from an FLR-enabled file system once their retention periods have expired. This setting can only be applied to mounted FLR enabled file systems.	boolean

Name	Description	Schema
auto_lock <i>optional</i>	Indicates whether to automatically lock files in an FLR-enabled file system. When true files are locked automatically after modification based on the flrPolicyInterval interval. When enabled, auto-locked files are set with the default retention period value. This setting can only be applied to mounted FLR enabled file systems.	boolean
default_retention <i>optional</i>	The default retention period that is used in an FLR-enabled file system when a file is locked and a retention period is not specified. This value must be greater than or equal to the minimum retention period, and less than or equal to the maximum retention period. Format [default_int][Y M D] (example 5Y for 5 years). Specify Y for years, M for months, D for days, or infinite. The default value for the default retention period is infinite for Enterprise FLR mode, and 1 year for Compliance FLR mode. This attribute should be set only for FLR enabled filesystems. Pattern : <code>"(\\d+[DMY]) (infinite\$)"</code>	string
maximum_retention <i>optional</i>	The longest retention period for which files on an FLR-enabled file system can be locked and protected from deletion. Any attempt to lock a file for more than this maximum retention period results in the file being locked until the current system time plus the maximum retention period is reached. Format [default_int][Y M D] (example 5Y for 5 years). Specify Y for years, M for months, D for days, or infinite. Setting infinite means that the files can never be deleted. This attribute should be set only for FLR enabled filesystems. Pattern : <code>"(\\d+[DMY]) (infinite\$)"</code>	string
minimum_retention <i>optional</i>	The shortest retention period for which files on an FLR-enabled file system can be locked and protected from deletion. This value must be less than or equal to the maximum retention period. Any attempt to lock a file for less than the minimum retention period results in the file being locked until the current system time plus the minimum retention period is reached. Format [default_int][Y M D] (example 5Y for 5 years). Specify Y for years, M for months, D for days, or the keyword infinite. Setting infinite means that the files can never be deleted. This attribute should be set only for FLR enabled filesystems. Pattern : <code>"(\\d+[DMY]) (infinite\$)"</code>	string

Name	Description	Schema
policy_interval <i>optional</i>	Indicates how long to wait (in seconds) after files are modified before the files are automatically locked. This setting can only be applied to mounted FLR enabled file systems. Minimum value : 60 Maximum value : 31536000	integer (int32)

fsn_create

Parameters to create a fail-safe network. Was added in version 3.5.0.0.

Name	Description	Schema
description <i>optional</i>	A user supplied description of the FSN.	string
port_ids <i>required</i>	The list of unique identifiers of ports or bonds of one node to be included in the FSN. The ports and bonds must be unused.	< string > array
primary_port_id <i>required</i>	TBD	string

fsn_instance

Properties of a fail-safe network (FSN). Was added in version 3.5.0.0. This resource type has queriable associations from fsn, appliance, ip_port, bond, eth_port

Name	Description	Schema
active_port_id <i>optional</i>	The unique identifier of the Ethernet port or bond which is currently used as an active connection.	string
appliance <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	appliance_instance
appliance_id <i>optional</i>	The id of the appliance containing the fail-safe network.	string
bonds <i>optional</i>	This is the inverse of the resource type bond association.	< bond_instance > array

Name	Description	Schema
description <i>optional</i>	User supplied description of the fail-safe network. Maximal length : 128	string
eth_ports <i>optional</i>	This is the inverse of the resource type eth_port association.	< eth_port_instance > array
id <i>optional</i>	Unique identifier of the fail-safe network, or null if the FSN is not in a link group.	string
ip_ports <i>optional</i>	This is the inverse of the resource type ip_port association.	< ip_port_instance > array
is_link_up <i>optional</i>	Indicates whether the fail-safe network's link is up. Values are: true Link is up. false Link is down.	boolean
mtu <i>optional</i>	Maximum Transmission Unit (MTU) packet size of the bond, in bytes. Minimum value : 0 Maximum value : 2147483647	integer (int32)
name <i>optional</i>	Fail-safe network name. This property supports case-insensitive filtering. Maximal length : 64	string
partner <i>optional</i>	This is the embeddable reference form of partner_id attribute.	fsn_instance
partner_id <i>optional</i>	Identifier of the fail-safe network with the same physical location on the other node of the appliance.	string
primary_port_id <i>optional</i>	The unique identifier of the Ethernet port or bond to be used and is not abandoned unless it fails.	string
status <i>optional</i>		FSNStatusEnum
status_l10n <i>optional</i>	Localized message string corresponding to status Was added in version 3.5.0.0.	string

fsn_modify

Parameters used to modify a fail-safe network. Was added in version 3.5.0.0.

Name	Description	Schema
description <i>optional</i>	Modify the description of the FSN.	string

hardware_drive_repurpose

A drive that has been used in a different appliance will be locked for use only in that appliance. This operation will allow a locked drive to be used in the current appliance. All data on the drive will become unrecoverable. It will fail if the drive is not locked to a different appliance.

Name	Description	Schema
psid <i>required</i>	An alpha-numeric string that can be found on the physical label of the drive to repurpose. This is needed to validate that the user has physical control of the drive before performing the operation. Example : "UW4TH8J9PB1RTCAXBERTG2KXCAU9UDVS"	string

hardware_extra_details_instance

Additional hardware details that are specific to each hardware type. Filtering on the fields of this embedded resource is not supported.

Name	Description	Schema
bus_number <i>optional</i>	Bus number of the Expansion_Shelf. Available on the Expansion_Shelf hardware type. Minimum value : 0 Maximum value : 2147483647	integer (int32)
connector_type <i>optional</i>		HardwareSFPConnectorTypeEnum
connector_type_l10n <i>optional</i>	Localized message string corresponding to connector_type	string

Name	Description	Schema
cpu_cores <i>optional</i>	Total number of physical cores. Available on the Node hardware type. Minimum value : 0 Maximum value : 2147483647	integer (int32)
cpu_model <i>optional</i>	CPU model name. Available on Node hardware type.	string
cpu_sockets <i>optional</i>	Total number of physical sockets. Available on the Node hardware type. Minimum value : 0 Maximum value : 2147483647	integer (int32)
dell_service_tag <i>optional</i>	Dell service tag of the hardware. Available on the Base_Enclosure and Expansion_Enclosure hardware types.	string
drive_type <i>optional</i>		HardwareDriveTypeEnum
drive_type_l10n <i>optional</i>	Localized message string corresponding to drive_type	string
enclosure_model_description <i>optional</i>	Was added in version 3.0.0.0.	HardwareEnclosureModelDescriptionEnum
enclosure_model_description_l10n <i>optional</i>	Localized message string corresponding to enclosure_model_description Was added in version 3.0.0.0.	string
enclosure_number <i>optional</i>	Enclosure number of the Expansion_Shelf. Available on the Expansion_Shelf hardware type. Minimum value : 0 Maximum value : 2147483647	integer (int32)
encryption_status <i>optional</i>		HardwareDriveEncryptionStatusEnum

Name	Description	Schema
encryption_status_l10n <i>optional</i>	Localized message string corresponding to encryption_status	string
express_service_code <i>optional</i>	Express service code of the hardware. Available on the Base_Enclosure and Expansion_Enclosure hardware types.	string
fips_status <i>optional</i>		HardwareDriveFIPSStatusEnum
fips_status_l10n <i>optional</i>	Localized message string corresponding to fips_status	string
firmware_version <i>optional</i>	Firmware version of the hardware. Available on the Drive hardware type.	string
mode <i>optional</i>		HardwareSFPModeEnum
mode_l10n <i>optional</i>	Localized message string corresponding to mode	string
model_name <i>optional</i>	Model name of the hardware. Available on the IO_Module and M2_Drive hardware types.	string
physical_memory_size_gb <i>optional</i>	Additional hardware details that are specific to each hardware type. Filtering on the fields of this embedded resource is not supported. Unit : bytes Minimum value : 0 Maximum value : 2147483647	integer (int32)
rpm_reading <i>optional</i>	rpm_reading. Was added in version 2.0.0.0.	string

Name	Description	Schema
size <i>optional</i>	Additional hardware details that are specific to each hardware type. Filtering on the fields of this embedded resource is not supported. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
storage_class <i>optional</i>	Was added in version 4.0.0.0.	ApplianceStorageClassEnum
storage_class_l10n <i>optional</i>	Localized message string corresponding to storage_class Was added in version 4.0.0.0.	string
supported_protocol <i>optional</i>		HardwareSFPSupportedProtocolEnum
supported_protocol_l10n <i>optional</i>	Localized message string corresponding to supported_protocol	string
supported_speeds <i>optional</i>		< HardwareSFPSpeedEnum > array
supported_speeds_l10n <i>optional</i>	Localized message array corresponding to supported_speeds	< string > array

hardware_instance

Hardware component information. This resource type has queriable associations from hardware, appliance, fc_port, sas_port, eth_port, eth_be_port

Name	Description	Schema
appliance <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	appliance_instance
appliance_id <i>optional</i>	The id of the component's associated appliance.	string

Name	Description	Schema
children <i>optional</i>	This is the inverse of the resource type hardware association.	< hardware_instance > array
extra_details <i>optional</i>	Additional hardware details. Contents are specific to each component type.	hardware_extra_details_instance
hardware_parent_eth_be_ports <i>optional</i>	This is the inverse of the resource type eth_be_port association.	< eth_be_port_instance > array
hardware_parent_eth_ports <i>optional</i>	This is the inverse of the resource type eth_port association.	< eth_port_instance > array
hardware_parent_fc_ports <i>optional</i>	This is the inverse of the resource type fc_port association.	< fc_port_instance > array
hardware_parent_sas_ports <i>optional</i>	This is the inverse of the resource type sas_port association.	< sas_port_instance > array
id <i>optional</i>	The unique id of the component.	string
io_module_eth_ports <i>optional</i>	This is the inverse of the resource type eth_port association.	< eth_port_instance > array
io_module_fc_ports <i>optional</i>	This is the inverse of the resource type fc_port association.	< fc_port_instance > array
io_module_sas_ports <i>optional</i>	This is the inverse of the resource type sas_port association.	< sas_port_instance > array
is_marked <i>optional</i>	Indicator of whether a component is location marked or not.	boolean

Name	Description	Schema
lifecycle_state <i>optional</i>	Life cycle state of the component.	HardwareLifecycleStateEnum
lifecycle_state_l10n <i>optional</i>	Localized message string corresponding to lifecycle_state	string
name <i>optional</i>	The name of the component. This property supports case-insensitive filtering.	string
node_eth_be_ports <i>optional</i>	This is the inverse of the resource type eth_be_port association.	< eth_be_port_instance > array
node_eth_ports <i>optional</i>	This is the inverse of the resource type eth_port association.	< eth_port_instance > array
node_fc_ports <i>optional</i>	This is the inverse of the resource type fc_port association.	< fc_port_instance > array
node_sas_ports <i>optional</i>	This is the inverse of the resource type sas_port association.	< sas_port_instance > array
parent <i>optional</i>	This is the embeddable reference form of parent_id attribute.	hardware_instance
parent_id <i>optional</i>	The id of the component's parent, or null if this component is at the top of the parent hierarchy.	string
part_number <i>optional</i>	The part number of the component.	string
serial_number <i>optional</i>	The serial number of the component.	string
sfp_eth_be_ports <i>optional</i>	This is the inverse of the resource type eth_be_port association.	< eth_be_port_instance > array

Name	Description	Schema
sfp_eth_ports <i>optional</i>	This is the inverse of the resource type eth_port association.	< eth_port_instance > array
sfp_fc_ports <i>optional</i>	This is the inverse of the resource type fc_port association.	< fc_port_instance > array
sfp_sas_ports <i>optional</i>	This is the inverse of the resource type sas_port association.	< sas_port_instance > array
slot <i>optional</i>	The slot or location of the component. Minimum value : 0 Maximum value : 2147483647	integer (int32)
stale_state <i>optional</i>	Indicator of the stale state of component. Was added in version 2.0.0.0.	HardwareStaleState Enum
stale_state_l10n <i>optional</i>	Localized message string corresponding to stale_state Was added in version 2.0.0.0.	string
status_led_state <i>optional</i>	Indicator of the state of the component status LED.	HardwareStatusLED StateEnum
status_led_state_l10n <i>optional</i>	Localized message string corresponding to status_led_state	string
type <i>optional</i>	Hardware component type.	HardwareTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type	string
valid_upgrades <i>optional</i>	Information describing what this hardware component can be upgraded to. If there are no valid upgrades available for this component, an empty list is returned. Was added in version 3.6.0.0. Filtering on the fields of this embedded resource is not supported.	< valid_upgrade_instance > array

hardware_modify

Hardware properties to modify.

Name	Description	Schema
is_marked <i>required</i>	New state for the hardware component location marker LED. Setting it to true will put the LED in a blinking state until set to false. Note that the state returned in the hardware component may not actually change for up to 60 seconds. This operation is currently supported for Base_Enclosure, Expansion_Enclosure, Node, Drive, and Access_Module. Note that operations at the Base_Enclosure and Expansion_Enclosure apply to their children (Nodes and Drives for Base_Enclosure, and Access_Modules and Drives for Expansion_Enclosure). For components with a single physical LED (Base_Enclosure, NVME Expansion_Enclosure, Node, Drive, and Access_Module), setting is_marked=true overrides the status_led_state property from on (or off) to Null, and setting is_marked=false reverts status_led_state to showing the state of the physical LED.	boolean

hardware_upgrade

Perform a hardware upgrade on the specified hardware component. An upgrade transforms a component from one model to a different model. Currently, only appliances can be upgraded.

Was added in version 3.6.0.0.

Name	Description	Schema
model_name <i>required</i>		HardwareModelTypeEnum
service_password <i>optional</i>	When offline upgrade is specified, the entire appliance is powered off. In this case, the service password is required to proceed. Example : "mypassword"	string (password)
upgrade_type <i>required</i>		HardwareUpgradeTypeEnum

hardware_validate_upgrade

Validate the hardware upgrade process to determine whether an upgrade can be performed on this

hardware component. The response includes any detected issues.

Was added in version 3.6.0.0.

Name	Schema
model_name <i>required</i>	HardwareModelTypeEnum
upgrade_type <i>required</i>	HardwareUpgradeTypeEnum

host_attach

Unique identifier of volume and optional logical unit number for attaching to host.

Name	Description	Schema
logical_unit_number <i>optional</i>	Logical unit number for the volume, if desired. Minimum value : 0 Maximum value : 16383	integer (int32)
volume_id <i>required</i>	Volume to attach. name:{name} can be used instead of {id}. For example: 'volume_id':'name:volume_name'	string

host_create

Parameters for the host create operation.

Name	Description	Schema
description <i>optional</i>	An optional description for the host. The description should not be more than 256 UTF-8 characters long and should not have any unprintable characters. Maximal length : 256	string
host_connectivity <i>optional</i>	Was added in version 3.0.0.0.	HostConnectivityEnum
initiators <i>required</i>		< initiator_create_modify > array

Name	Description	Schema
name <i>required</i>	The host name. The name should not be more than 128 UTF-8 characters long and should not have any unprintable characters. Length : 1 - 128	string
os_type <i>required</i>		OSTypeEnum

host_delete

Delete arguments.

Type : object

host_detach

Unique identifier of the volume to detach from host.

Name	Description	Schema
volume_id <i>required</i>	Volume to detach. name:{name} can be used instead of {id}. For example: 'volume_id':'name:volume_name'	string

host_group_attach

Unique identifier of volume and optional logical unit number for attaching to host group.

Name	Description	Schema
logical_unit_number <i>optional</i>	Logical unit number for the volume, if desired. Minimum value : 0 Maximum value : 16383	integer (int32)
volume_id <i>required</i>	Volume to attach. name:{name} can be used instead of {id}. For example: 'volume_id':'name:volume_name'	string

host_group_create

Create host group parameters.

Name	Description	Schema
description <i>optional</i>	An optional description for the host group. The description should not have any unprintable characters. Maximal length : 256	string
host_ids <i>required</i>		< string > array
name <i>required</i>	The host group name. The name should not be more than 128 UTF-8 characters long and should not have any unprintable characters. Length : 1 - 128	string

host_group_detach

Unique identifier of volume to detach from host.

Name	Description	Schema
volume_id <i>required</i>	Volume to detach. name:{name} can be used instead of {id}. For example: 'volume_id':'name:volume_name'	string

host_group_instance

Properties of a host group. This resource type has queriable associations from host, host_volume_mapping, host_virtual_volume_mapping

Name	Description	Schema
description <i>optional</i>	A description for the host group.	string
host_connectivity <i>optional</i>	Was added in version 3.0.0.0.	HostConnectivityEnum
host_connectivity_l10n <i>optional</i>	Localized message string corresponding to host_connectivity Was added in version 3.0.0.0.	string
host_virtual_volume_mappings <i>optional</i>	This is the inverse of the resource type host_virtual_volume_mapping association.	< host_virtual_volume_mapping_instance > array

Name	Description	Schema
hosts <i>optional</i>	This is the inverse of the resource type host association.	< host_instance > array
id <i>optional</i>	The host group unique identifier.	string
mapped_host_groups <i>optional</i>	This is the inverse of the resource type host_volume_mapping association.	< host_volume_mapping_instance > array
name <i>optional</i>	The host group name. This property supports case-insensitive filtering.	string

host_group_modify

Modify host group parameters.

Name	Description	Schema
add_host_ids <i>optional</i>	List of hosts to be added to host group. The operation fails if the host(s) to be added are attached to volume.	< string > array
description <i>optional</i>	An optional description for the host group. The description should not be more than 256 UTF-8 characters long and should not have any unprintable characters. Maximal length : 256	string
host_connectivity <i>optional</i>	Was added in version 3.0.0.0.	HostConnectivityEnum
name <i>optional</i>	A new host group name. The name should not be more than 128 UTF-8 characters long and should not have any unprintable characters. Length : 1 - 128	string
remove_host_ids <i>optional</i>	List of hosts to be removed from the host group. The operation fails if the host group is attached to any volume and the list includes all hosts in the host group.	< string > array

host_initiator_instance

Properties of a host initiator.

Name	Description	Schema
active_sessions <i>optional</i>	Array of active login sessions between an initiator and a target port.	< active_session_instance > array
chap_mutual_username <i>optional</i>	Username for CHAP authentication. This value must be 1 to 64 UTF-8 characters. CHAP username is required when the cluster CHAP mode is mutual authentication. Length : 1 - 64	string
chap_single_username <i>optional</i>	Username for CHAP authentication. This value must be 1 to 64 UTF-8 characters. CHAP username is required when the cluster CHAP mode is single authentication. Length : 1 - 64	string
port_name <i>optional</i>	IQN name aka address for iSCSI or WWN name for FC (SCSI) or NQN name for all NVMe-oF port types.	string
port_type <i>optional</i>		InitiatorProtocolTypeEnum
port_type_l10n <i>optional</i>	Localized message string corresponding to port_type Was deprecated in version 3.0.0.0.	string

host_instance

Properties of a host. This resource type has queriable associations from host_group, import_host_system, initiator, host_volume_mapping, host_virtual_volume_mapping, vsphere_host

Name	Description	Schema
description <i>optional</i>	A description for the host.	string
host_connectivity <i>optional</i>	Was added in version 3.0.0.0.	HostConnectivityEnum
host_connectivity_l10n <i>optional</i>	Localized message string corresponding to host_connectivity Was added in version 3.0.0.0.	string

Name	Description	Schema
host_group <i>optional</i>	This is the embeddable reference form of host_group_id attribute.	host_group_instance
host_group_id <i>optional</i>	Associated host group, if host is part of host group.	string
host_initiators <i>optional</i>	Was deprecated in version 3.0.0.0. Filtering on the fields of this embedded resource is not supported.	< host_initiator_instance > array
host_virtual_volume_mappings <i>optional</i>	This is the inverse of the resource type host_virtual_volume_mapping association.	< host_virtual_volume_mapping_instance > array
id <i>optional</i>	Unique identifier of the host.	string
import_host_system <i>optional</i>	This is the embeddable reference form of import_host_system_id attribute.	import_host_system_instance
import_host_system_id <i>optional</i>	Unique Identifier of the Host Agent System.	string
initiators <i>optional</i>	This is the inverse of the resource type initiator association.	< initiator_instance > array
mapped_hosts <i>optional</i>	This is the inverse of the resource type host_volume_mapping association.	< host_volume_mapping_instance > array
name <i>optional</i>	The host name. This property supports case-insensitive filtering.	string
os_type <i>optional</i>		OSTypeEnum
os_type_l10n <i>optional</i>	Localized message string corresponding to os_type	string

Name	Description	Schema
type <i>optional</i>	Was added in version 2.0.0.0.	HostTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type Was added in version 2.0.0.0.	string
vsphere_hosts <i>optional</i>	List of the vsphere_hosts that are associated with this host.	< vsphere_host_instance > array

host_modify

Parameters for the host modify operation.

Name	Description	Schema
add_initiators <i>optional</i>	The list of initiators to be added. CHAP username and password are optional.	< initiator_create_modify > array
description <i>optional</i>	An optional description for the host. The description should not be more than 256 UTF-8 characters long and should not have any unprintable characters. Maximal length : 256	string
host_connectivity <i>optional</i>	Was added in version 3.0.0.0.	HostConnectivityEnum
modify_initiators <i>optional</i>	Update list of existing initiators, identified by port_name, with new CHAP usernames and/or passwords.	< update_initiator_in_host > array
name <i>optional</i>	The host name. The name should not be more than 128 UTF-8 characters long and should not have any unprintable characters. Length : 1 - 128	string
remove_initiators <i>optional</i>	The list of initiator port_names to be removed.	< string > array

host_virtual_volume_mapping_instance

Virtual volume mapping details. This resource type has queriable associations from host, host_group, virtual_volume

Name	Description	Schema
host <i>optional</i>	This is the embeddable reference form of host_id attribute.	host_instance
host_group <i>optional</i>	This is the embeddable reference form of host_group_id attribute.	host_group_instance
host_group_id <i>optional</i>	Unique identifier of a host group attached to a virtual volume. The host_id and host_group_id cannot both be set.	string
host_id <i>optional</i>	Unique identifier of a host attached to a virtual volume. The host_id and host_group_id cannot both be set.	string
id <i>optional</i>	Unique identifier of a mapping between a host and a virtual volume.	string
virtual_volume <i>optional</i>	This is the embeddable reference form of virtual_volume_id attribute.	virtual_volume_instance
virtual_volume_id <i>optional</i>	Unique identifier of the virtual volume to which the host is attached.	string

host_volume_mapping_instance

Details about a configured host or host group attached to a volume. The host or host group may not necessarily be connected.

This resource type has queriable associations from host, host_group, volume

Name	Description	Schema
host <i>optional</i>	This is the embeddable reference form of host_id attribute.	host_instance
host_group <i>optional</i>	This is the embeddable reference form of host_group_id attribute.	host_group_instance

Name	Description	Schema
host_group_id <i>optional</i>	Unique identifier of a host group attached to a volume. The host_id and host_group_id cannot both be set.	string
host_id <i>optional</i>	Unique identifier of a host attached to a volume. The host_id and host_group_id cannot both be set.	string
id <i>optional</i>	Unique identifier of a mapping between a host and a volume.	string
logical_unit_number <i>optional</i>	Logical unit number for the host volume access. Minimum value : 0 Maximum value : 2147483647	integer (int32)
volume <i>optional</i>	This is the embeddable reference form of volume_id attribute.	volume_instance
volume_id <i>optional</i>	Unique identifier of the volume to which the host is attached.	string

import_host_initiator_instance

Details about an import host initiator.

Name	Description	Schema
id <i>optional</i>	Unique identifier of the import host initiator.	string
import_host_system_id <i>optional</i>	Unique identifier of the import host system.	string
iqn_or_wwn <i>optional</i>	iSCSI Qualified Name (IQN) or World Wide Name (WWN) of the host initiator.	string
protocol <i>optional</i>		HostInitiatorProtocolTypeEnum
protocol_l10n <i>optional</i>	Localized message string corresponding to protocol	string

import_host_system_create

Required parameters for adding an import host system.

Name	Description	Schema
agent_address <i>required</i>	Hostname or IPv4 address of the import host system.	string
agent_port <i>required</i>	TCP port of the import host system. Minimum value : 0 Maximum value : 65535	integer (int32)
chap_mutual_password <i>optional</i>	Password for mutual CHAP authentication. This password is required when the cluster is using mutual authentication CHAP mode. Example : "chappasswdMutual"	string (password)
chap_mutual_username <i>optional</i>	Username for mutual CHAP authentication. This username is required when the cluster is using mutual authentication CHAP mode. Example : "chapUserMutual"	string
chap_single_password <i>optional</i>	Password for single CHAP authentication. This password is required when the cluster is using single authentication CHAP mode. Example : "chapPasswdSingle"	string (password)
chap_single_username <i>optional</i>	Username for single CHAP authentication. This username is required when the cluster is using single authentication CHAP mode. Example : "chapuserSingle"	string
os_type <i>required</i>		HAOSTypeEnum
password <i>required</i>	Password for the specified username.	string (password)
user_name <i>required</i>	Username for the import host system.	string

import_host_system_instance

Details about an import host system. This resource type has queriable association from host

Name	Description	Schema
agent_address <i>optional</i>	Hostname or IPv4 address of the import host system.	string (ip-address)
agent_api_version <i>optional</i>	API version of the import host system.	string
agent_port <i>optional</i>	TCP port on the import host system. Minimum value : 0 Maximum value : 2147483647	integer (int32)
agent_status <i>optional</i>		HostAgentStatusEnum
agent_status_l10n <i>optional</i>	Localized message string corresponding to agent_status	string
agent_type <i>optional</i>		HostAgentTypeEnum
agent_type_l10n <i>optional</i>	Localized message string corresponding to agent_type	string
agent_version <i>optional</i>	Version of the import host system.	string
hosts <i>optional</i>	This is the inverse of the resource type host association.	< host_instance > array
id <i>optional</i>	Unique identifier of the import host system.	string
last_update_time <i>optional</i>	Time when the import host system was last updated.	string (date-time)
os_type <i>optional</i>		HAOSTypeEnum
os_type_l10n <i>optional</i>	Localized message string corresponding to os_type	string

Name	Description	Schema
os_version <i>optional</i>	Operating system version of the import host system.	string
user_name <i>optional</i>	Username for the import host system.	string

import_host_volume_instance

Details about an import host volume.

Name	Description	Schema
active_path <i>optional</i>	Active path of the host volume.	ActivePathEnum
active_path_l10n <i>optional</i>	Localized message string corresponding to active_path	string
array_identifier <i>optional</i>	Unique identifier of the storage system.	string
array_type <i>optional</i>	Product type of the storage system.	ArrayTypeEnum
array_type_l10n <i>optional</i>	Localized message string corresponding to array_type	string
host_system_id <i>optional</i>	Unique identifier of the import host system.	string
id <i>optional</i>	Unique identifier of the import host volume.	string
import_state <i>optional</i>		ImportOperationStatusEnum
import_state_l10n <i>optional</i>	Localized message string corresponding to import_state	string

Name	Description	Schema
is_migrating <i>optional</i>	Indicates whether the import host volume is migrating.	boolean
last_update_time <i>optional</i>	Time when the import host volume was last updated.	string (date-time)
mount_paths <i>optional</i>	Mount paths on the import host system.	< string > array
naa_id <i>optional</i>	Unique identifier of a volume that is presented to the import host.	string
name <i>optional</i>	Name of the import host volume. This property supports case-insensitive filtering.	string
protocols <i>optional</i>	Supported protocols for the import host volume.	< HostInitiatorProtocolTypeEnum > array
protocols_l10n <i>optional</i>	Localized message array corresponding to protocols	< string > array
size <i>optional</i>	Details about an import host volume. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
status <i>optional</i>	Status of the import host volume.	VolumeStatusEnum
status_l10n <i>optional</i>	Localized message string corresponding to status	string

import_netapp_cron_schedule_instance

An instance of a cron schedule. Was added in version 3.0.0.0.

Name	Description	Schema
days <i>optional</i>	The days of the month the schedule runs. This is empty for all.	< integer > array
hours <i>optional</i>	The hours of the day the schedule runs. This is empty for all.	< integer > array
minutes <i>optional</i>	The minutes the schedule runs.	< integer > array
months <i>optional</i>	The months of the year the schedule runs. This is empty for all.	< integer > array
weekdays <i>optional</i>	The weekdays the schedule runs. This is empty for all.	< integer > array

import_netapp_instance

An instance of NetApp storage system Was added in version 3.0.0.0. This resource type has queriable association from import_netapp_volume

Name	Description	Schema
api_version <i>optional</i>	Version of the ONTAP API that manages the NetApp storage system.	string
id <i>optional</i>	Unique identifier of the storage system that is a source storage system for import.	string
import_netapp_volumes <i>optional</i>	This is the inverse of the resource type import_netapp_volume association.	< import_netapp_volume_instance > array
last_updated_timestamp <i>optional</i>	Date and time when the NetApp storage system details were last updated. These details include the NetApp storage system and information about its importable volumes. The timestamp is updated when the NetApp storage system is created and whenever the importable volumes is discovered.	string (date-time)
management_address <i>optional</i>	Management address to use for communicating with the NetApp storage system. The address can be an IPv4 address or FQDN (Fully Qualified Domain Name).	string (ip-address)

Name	Description	Schema
name <i>optional</i>	Name of the NetApp storage system. This property supports case-insensitive filtering.	string
serial_number <i>optional</i>	Serial number will be the SVM uuid.	string
state <i>optional</i>		NetAppSVMStateEnum
state_l10n <i>optional</i>	Localized message string corresponding to state Was added in version 3.0.0.0.	string
supported_import_type <i>optional</i>		SupportedImportTypeEnum
supported_import_type_l10n <i>optional</i>	Localized message string corresponding to supported_import_type Was added in version 3.0.0.0.	string
user_name <i>optional</i>	User account name used to communicate with the NetApp storage system.	string

import_netapp_snapshot_schedule_instance

An instance of a snapshot schedule. Was added in version 3.0.0.0.

Name	Description	Schema
cron <i>optional</i>		import_netapp_cron_schedule_instance
interval <i>optional</i>	An ISO-8601 duration formatted string.	string
name <i>optional</i>	Name of the NetApp snapshot schedule.	string
type <i>optional</i>		NetAppScheduleTypeEnum

Name	Description	Schema
type_l10n <i>optional</i>	Localized message string corresponding to type Was added in version 3.0.0.0.	string

import_netapp_volume_import_snapshot_schedules_response

Response object for snapshot schedules of a volume. Was added in version 3.0.0.0.

Name	Description	Schema
schedules <i>optional</i>		import_netapp_snapshot_schedule_instance
snap_policy_name <i>optional</i>	Name of the NetApp snapshot policy.	string

import_netapp_volume_instance

An instance of a NetApp volume. Was added in version 3.0.0.0. This resource type has queriable association from import_netapp

Name	Description	Schema
container_state <i>optional</i>		NetAppContainerStateEnum
container_state_l10n <i>optional</i>	Localized message string corresponding to container_state Was added in version 3.0.0.0.	string
id <i>optional</i>	Unique identifier of the NetApp volume.	string
import_netapp <i>optional</i>	This is the embeddable reference form of import_netapp_id attribute.	import_netapp_instance
import_netapp_id <i>optional</i>	Unique identifier of the NetApp storage system to which the NetApp volume belongs.	string

Name	Description	Schema
importable_criteria <i>optional</i>	Indicates the reason when the volume is not importable. If the value is not Ready_For_Agentless_Import, the volume is not importable.	VolumeImportableCriteriaEnum
importable_criteria_l10n <i>optional</i>	Localized message string corresponding to importable_criteria Was added in version 3.0.0.0.	string
is_read_only <i>optional</i>	Indicates whether the NetApp volume is a read only volume.	boolean
is_replication_destination <i>optional</i>	Indicates whether the NetApp volume is a replication destination.	boolean
name <i>optional</i>	Name of the NetApp volume. This property supports case-insensitive filtering.	string
size <i>optional</i>	An instance of a NetApp volume. Was added in version 3.0.0.0. This resource type has queriable association from import_netapp Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
state <i>optional</i>		NetAppVolumeStateEnum
state_l10n <i>optional</i>	Localized message string corresponding to state Was added in version 3.0.0.0.	string
wwn <i>optional</i>	World Wide Name (WWN) of the NetApp volume.	string

import_psgroup_instance

PS Group details. This resource type has queriable association from import_psgroup_volume

Name	Description	Schema
description <i>optional</i>	Description of the PS Group.	string

Name	Description	Schema
group_addresses <i>optional</i>	IP address of the PS Group, which is used for data path communication. If a management address is not configured, this address is also used for management operations.	string (ip-address)
id <i>optional</i>	Unique identifier of the PS Group.	string
import_psgroup_volumes <i>optional</i>	This is the inverse of the resource type import_psgroup_volume association.	< import_psgroup_volume_instance > array
last_update_time <i>optional</i>	Time when the PS Group was last updated.	string (date-time)
management_address <i>optional</i>	Management address of the PS Group. This can be an IPv4 address or FQDN (Fully Qualified Domain Name).	string (ip-address)
name <i>optional</i>	Name of the PS Group. This property supports case-insensitive filtering.	string
serial_number <i>optional</i>	Serial number of the PS Group.	string
supported_import_type <i>optional</i>	Was added in version 1.0.2.	SupportedImportTypeEnum
supported_import_type_localization <i>optional</i>	Localized message string corresponding to supported_import_type Was added in version 1.0.2.	string
user_name <i>optional</i>	Name used to log in to the PS Group.	string

import_psgroup_schedule_instance

Snapshot schedule of a volume

Name	Description	Schema
active_date <i>optional</i>	Number of days for which the snapshot schedule has been active. Minimum value : 0 Maximum value : 2147483647	integer (int32)
end_time <i>optional</i>	Time when snapshot creation ends each day, in minutes. Minimum value : 0 Maximum value : 2147483647	integer (int32)
frequency <i>optional</i>	Frequency at which snapshots are created, in minutes. Minimum value : 0 Maximum value : 2147483647	integer (int32)
inactive_date <i>optional</i>	Number of days for which the snapshot schedule has been inactive. Minimum value : 0 Maximum value : 2147483647	integer (int32)
keep_count <i>optional</i>	Number of snapshots to retain. Minimum value : 0 Maximum value : 2147483647	integer (int32)
name <i>optional</i>	Name of the snapshot schedule.	string
repetition_interval <i>optional</i>	Repeat interval of the snapshot schedule, in days. The value is 1 for the schedule frequencies Once and Hourly. It can be greater than 1 for the schedule frequencies Daily and Weekly. Minimum value : 0 Maximum value : 2147483647	integer (int32)
start_time <i>optional</i>	Time when snapshot creation begins each day, in minutes. Minimum value : 0 Maximum value : 2147483647	integer (int32)
status <i>optional</i>		ImportPsgroupScheduleStatusEnum
status_l10n <i>optional</i>	Localized message string corresponding to status	string
type <i>optional</i>		ImportPsgroupScheduleTypeEnum

Name	Description	Schema
type_l10n <i>optional</i>	Localized message string corresponding to type	string

import_psgroup_volume_import_snapshot_schedules_response

Type : < [import_psgroup_schedule_instance](#) > array

import_psgroup_volume_instance

PS Group volume instance details. This resource type has queriable association from import_psgroup

Name	Description	Schema
block_size <i>optional</i>		VolumeBlockSizeEnum
block_size_l10n <i>optional</i>	Localized message string corresponding to block_size	string
host_volume_ids <i>optional</i>	Unique identifiers of the host volumes associated with the volume.	< string > array
id <i>optional</i>	Unique identifier of the volume.	string
import_psgroup <i>optional</i>	This is the embeddable reference form of import_psgroup_id attribute.	import_psgroup_instance
import_psgroup_id <i>optional</i>	Unique identifier of the PS Group with which the volume is associated.	string
importable_criteria <i>optional</i>	Volume import criteria. If the value is not Ready, the volume is not importable.	VolumeImportableCriteriaEnum

Name	Description	Schema
importable_criteria_l10n <i>optional</i>	Localized message string corresponding to importable_criteria	string
is_online <i>optional</i>	Indicates whether the volume is online.	boolean
is_read_only <i>optional</i>	Indicates whether the volume is read-only.	boolean
migration_state <i>optional</i>		ImportStatusEnum
migration_state_l10n <i>optional</i>	Localized message string corresponding to migration_state	string
name <i>optional</i>	Name of the volume. This property supports case-insensitive filtering.	string
size <i>optional</i>	PS Group volume instance details. This resource type has queriable association from import_psgroup Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
wwn <i>optional</i>	Unique WWN of the volume.	string

import_session_cancel

Name	Description	Schema
force <i>optional</i>	Indicates whether the cancel import session operation is a normal cancel (true) or a forced stop (false). For a forced stop, the import job terminates without rolling back in source or host down failover scenarios. Default : false	boolean

import_session_create

Name	Description	Schema
automatic_cut_over <i>optional</i>	Indicates whether the import session cutover is manual (true) or automatic (false). Default : false	boolean
consistency_group_member_host_group_ids <i>optional</i>	Was added in version 2.0.0.0.	< consistency_group_member_host_group_mapping > array
consistency_group_member_host_ids <i>optional</i>	Was added in version 1.0.2.	< consistency_group_member_host_mapping > array
description <i>optional</i>	Description of the import session. The name can contain a maximum of 128 unicode characters. It cannot contain unprintable characters. Maximal length : 128	string
global_storage_discovery_address <i>optional</i>	Global storage discovery iSCSI ip address that will be used for import workflow. The address can be an IPv4 address or FQDN (Fully Qualified Domain Name). Was added in version 3.0.0.0.	string (ip-address)
host_group_ids <i>optional</i>	Unique identifiers of the host groups that map to the destination resource for an agentless import session. In case of a consistency group, if all the member volumes have the same host group mapping, then use this property, otherwise use consistency_group_member_host_group_ids. Was added in version 2.0.0.0.	< string > array
host_ids <i>optional</i>	Hosts to be mapped to the destination resource for an agentless import session. Was added in version 1.0.2.	< string > array

Name	Description	Schema
name <i>required</i>	Name of the import session. The name must be unique in the PowerStore cluster and can contain a maximum of 128 unicode characters. It cannot contain special HTTP characters, unprintable characters, or white space. Maximal length : 128	string
protection_policy_id <i>optional</i>	Unique identifier of the protection policy that will be applied to an imported volume or consistency group after the import completes. Only snapshot policies are supported in an import. Once the import completes, you can add a replication policy. If you try to import a replication policy, the import job will fail. name:{name} can be used instead of {id}. For example: 'protection_policy_id':'name:policy_name'	string
remote_system_id <i>required</i>	Unique identifier of the storage system that contains the source volume or consistency group to be imported. You can query the source volume or consistency group object to get the identifier of the source system that the volume or consistency group are part of. Alternatively, you can use the remote_system object to get this information. name:{name} can be used instead of {id}. For example: 'remote_system_id':'name:remote_system_name'	string
scheduled_timestamp <i>optional</i>	Date and time at which the import session is scheduled to start. The date time is specified in ISO 8601 format with the time expressed in UTC format.	string (date-time)

Name	Description	Schema
source_resource_id <i>required</i>	Unique identifier of the volume or consistency group to be imported. Refer to the following objects for more information: - Storage Center : import_storage_center_volume, import_storage_center_consistency_group - VNX import_vnx_volume, import_vnx_consistency_group - PS Series : import_psgroup_volume - Unity import_unity_volume, import_unity_consistency_group - XtremIO import_xtremio_volume, import_xtremio_consistency_group - VMAX import_vmax - NetApp import_netapp_volume - Universal import_universal_volume, import_universal_consistency_group	string
type <i>optional</i>	Was added in version 1.0.2.	ImportSessionTypeEnum
volume_group_id <i>optional</i>	Unique identifier of the volume group to which the imported volume will belong, if any. name:{name} can be used instead of {id}. For example: 'volume_group_id':'name:volume_group_name'	string

import_session_enable_destination_volume

Parameters for enabling the destination volume of an agentless import session.

Was added in version 1.0.2.

Type : object

import_session_instance

This resource type has queriable association from remote_system

Name	Description	Schema
automatic_cutover <i>optional</i>	Indicates whether the import session cutover is manual (true) or automatic (false). Default : false	boolean
average_transfer_rate <i>optional</i>	This resource type has queriable association from remote_system Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
current_transfer_rate <i>optional</i>	This resource type has queriable association from remote_system Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
description <i>optional</i>	User-specified description of the import session.	string
destination_resource_id <i>optional</i>	Unique identifier of the destination volume or volume group created as part of the import process.	string
destination_resource_type <i>optional</i>		ImportDestinationResourceTypeEnum
destination_resource_type_10n <i>optional</i>	Localized message string corresponding to destination_resource_type	string
error <i>optional</i>		error_instance

Name	Description	Schema
estimated_completion_time_stamp <i>optional</i>	When the import is in the Copy_In_Progress state, this value indicates the estimated time at which the data copy will complete. Before the import is in the Copy_In_Progress state, the value is null.	string (date-time)
global_storage_discovery_address <i>optional</i>	Global storage discovery iSCSI ip address that will be used for import workflow. The address can be an IPv4 address or FQDN (Fully Qualified Domain Name). Was added in version 3.0.0.0.	string (ip-address)
id <i>optional</i>	Unique identifier of the import session.	string
last_update_time_stamp <i>optional</i>	Date and time when was the import was last updated. This value is updated each time the import job updates.	string (date-time)
name <i>optional</i>	User-specified name of the import session. This property supports case-insensitive filtering.	string
parent_session_id <i>optional</i>	For a volume that is part of a consistency group import, this value is the session identifier of the import session. For an individual volume import, this value is null.	string
progress_percentage <i>optional</i>	When the import is in the Copy_In_Progress state, this value indicates the completion percent for the import. Before the import is in the Copy_In_Progress state, this value is 0. After the cutover or if there is a failure, this value is null. Minimum value : 0 Maximum value : 2147483647	integer (int32)
protection_policy_id <i>optional</i>	Unique identifier of the local protection policy in the PowerStore storage system that will be applied on an imported destination volume or consistency group after cutover. Only snapshot policies are supported in an import. Once the import completes, you can add a replication policy.	string
remote_system <i>optional</i>	This is the embeddable reference form of remote_system_id attribute.	remote_system_instance

Name	Description	Schema
remote_system_id <i>optional</i>	Unique identifier of the storage system that contains the source volume or consistency group to be imported.	string
scheduled_time_stamp <i>optional</i>	Date and time at which the import session is scheduled to run. The date is specified in ISO 8601 format with the time expressed in UTC format.	string (date-time)
source_resource_id <i>optional</i>	Unique identifier of the volume or consistency group to be imported.	string
state <i>optional</i>		ImportSessionStateEnum
state_l10n <i>optional</i>	Localized message string corresponding to state	string
type <i>optional</i>	Was added in version 1.0.2.	ImportSessionTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type Was added in version 1.0.2.	string
volume_group_id <i>optional</i>	Unique identifier of the volume group to which the destination volume will be added, if any.	string

import_session_modify

Name	Description	Schema
scheduled_time_stamp <i>optional</i>	Indicates the new date and time at which the import session is scheduled to run. The date is specified in ISO 8601 format with time expressed in UTC format.	string (date-time)

import_storage_center_consistency_group_import_snapshot_profiles_response

Type : < [import_storage_center_snapshot_profile_instance](#) > array

import_storage_center_consistency_group_instance

This resource type has queriable associations from `import_storage_center`, `import_storage_center_volume`

Name	Description	Schema
id <i>optional</i>	Unique identifier of the SC consistency group.	string
import_storage_center <i>optional</i>	This is the embeddable reference form of <code>import_storage_center_id</code> attribute.	import_storage_center_instance
import_storage_center_id <i>optional</i>	Unique identifier of the SC array.	string
import_storage_center_volumes <i>optional</i>	This is the inverse of the resource type <code>import_storage_center_volume</code> association.	< import_storage_center_volume_instance > array
importable_criteria <i>optional</i>	Volume import criteria. If the value is not Ready, the volume is not importable.	CGImportableCriteriaEnum
importable_criteria_l10n <i>optional</i>	Localized message string corresponding to <code>importable_criteria</code>	string
name <i>optional</i>	Name of the SC consistency group. This property supports case-insensitive filtering.	string

import_storage_center_instance

This resource type has queriable associations from `import_storage_center_volume`, `import_storage_center_consistency_group`

Name	Description	Schema
api_version <i>optional</i>	API version of the SC OS (SCOS).	string

Name	Description	Schema
id <i>optional</i>	Unique identifier of the SC array that is a source storage system for import.	string
import_storage_center_consistency_groups <i>optional</i>	This is the inverse of the resource type import_storage_center_consistency_group association.	< import_storage_center_consistency_group_instance > array
import_storage_center_volumes <i>optional</i>	This is the inverse of the resource type import_storage_center_volume association.	< import_storage_center_volume_instance > array
last_update_time <i>optional</i>	Timestamp at which the SC array details were last updated. This includes the information about the array and its importable volumes and consistency groups. The timestamp is updated when the SC array is created and when the importable storage resources are discovered using the discover_importable_resources action.	string (date-time)
management_address <i>optional</i>	Management address to use for communicating with the SC array. The address can be an IPv4 address or FQDN (Fully Qualified Domain Name).	string (ip-address)
model <i>optional</i>	Model name of the SC array.	string
name <i>optional</i>	Name of the SC array. This property supports case-insensitive filtering.	string
serial_number <i>optional</i>	Serial number of the SC array. Minimum value : 0 Maximum value : 2147483647	integer (int32)
status <i>optional</i>		SCStatusEnum
status_l10n <i>optional</i>	Localized message string corresponding to status	string
supported_import_type <i>optional</i>	Was added in version 1.0.2.	SupportedImportTypeEnum

Name	Description	Schema
supported_import_type_l10n <i>optional</i>	Localized message string corresponding to supported_import_type Was added in version 1.0.2.	string
user_name <i>optional</i>	User account name used to communicate with the SC array.	string

import_storage_center_snapshot_profile_instance

Snapshot profile.

Name	Description	Schema
description <i>optional</i>	Description of the snapshot profile.	string
id <i>optional</i>	Unique identifier of the snapshot profile.	string
name <i>optional</i>	Name of the snapshot profile.	string
rules <i>optional</i>		< sc_profile_rule_instance > array
type <i>optional</i>	Type of the snapshot profile.	ScSnapshotProfileTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type	string

import_storage_center_volume_import_snapshot_profiles_response

Type : < [import_storage_center_snapshot_profile_instance](#) > array

import_storage_center_volume_instance

This resource type has queriable associations from import_storage_center, import_storage_center_consistency_group

Name	Description	Schema
health <i>optional</i>		SCStatusEnum
health_l10n <i>optional</i>	Localized message string corresponding to health	string
host_volume_ids <i>optional</i>	List of host volume identifiers that correspond to SC volumes.	< string > array
id <i>optional</i>	Unique identifier of the SC volume.	string
import_storage_center <i>optional</i>	This is the embeddable reference form of import_storage_center_id attribute.	import_storage_center_instance
import_storage_center_consistency_group <i>optional</i>	This is the embeddable reference form of import_storage_center_consistency_group_id attribute.	import_storage_center_consistency_group_instance
import_storage_center_consistency_group_id <i>optional</i>	Unique identifier of an SC consistency group, if the volume is part of one consistency group only. If the volume is part of multiple consistency groups, the attribute is empty.	string
import_storage_center_consistency_group_names <i>optional</i>	Names of the consistency groups of which the volume is a member, if this volume is in multiple consistency groups.	< string > array
import_storage_center_id <i>optional</i>	Unique identifier of the SC array where the volume resides.	string
importable_criteria <i>optional</i>	Volume import criteria. If the value is not Ready, the volume is not importable.	VolumeImportableCriteriaEnum

Name	Description	Schema
importable_criteria_l10n <i>optional</i>	Localized message string corresponding to importable_criteria	string
is_active <i>optional</i>	Indicates whether the SC volume is active on any controller. Only volumes that are active are importable.	boolean
is_read_only <i>optional</i>	Indicates whether the volume is read-only.	boolean
migration_state <i>optional</i>		MigrationStateEnum
migration_state_l10n <i>optional</i>	Localized message string corresponding to migration_state	string
name <i>optional</i>	Name of the SC volume. This property supports case-insensitive filtering.	string
size <i>optional</i>	This resource type has queriable associations from import_storage_center, import_storage_center_consistency_group Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
wwn <i>optional</i>	Device identifier presented to the server to which the volume is mapped.	string

import_unity_consistency_group_import_snapshot_schedules_response

Type : < [import_unity_snapshot_schedule_instance](#) > array

import_unity_consistency_group_instance

This resource type has queriable associations from import_unity, import_unity_volume

Name	Description	Schema
id <i>optional</i>	Unique identifier of the Unity consistency group.	string
import_unity <i>optional</i>	This is the embeddable reference form of import_unity_id attribute.	import_unity_instance
import_unity_id <i>optional</i>	Unique identifier of the Unity storage system where the consistency group resides.	string
import_unity_volumes <i>optional</i>	This is the inverse of the resource type import_unity_volume association.	< import_unity_volume_instance > array
importable_criteria <i>optional</i>	Consistency group import criteria.	CGImportableCriteriaEnum
importable_criteria_l10n <i>optional</i>	Localized message string corresponding to importable_criteria	string
name <i>optional</i>	Name of the consistency group. This property supports case-insensitive filtering.	string

import_unity_instance

This resource type has queriable associations from import_unity_volume, import_unity_consistency_group

Name	Description	Schema
api_version <i>optional</i>	Version of the API that the Unity storage system supports.	string
health <i>optional</i>		UnityHealthEnum
health_l10n <i>optional</i>	Localized message string corresponding to health	string

Name	Description	Schema
id <i>optional</i>	Unique identifier of the Unity storage system that is a source storage system for import. This is the serial number of the storage system.	string
import_unity_consistency_groups <i>optional</i>	This is the inverse of the resource type import_unity_consistency_group association.	< import_unity_consistency_group_instance > array
import_unity_volumes <i>optional</i>	This is the inverse of the resource type import_unity_volume association.	< import_unity_volume_instance > array
last_updated_timestamp <i>optional</i>	Date and time when the Unity storage system details were last updated. These details include the Unity storage system and information about its importable volumes and consistency groups. The timestamp is updated when the Unity storage system is created and whenever the importable volumes and consistency groups are discovered.	string (date-time)
management_address <i>optional</i>	Management address to use for communicating with the Unity storage system. The address can be an IPv4 address or FQDN (Fully Qualified Domain Name).	string (ip-address)
model <i>optional</i>	Model name of the Unity storage system.	string
name <i>optional</i>	Name of the Unity storage system. This property supports case-insensitive filtering.	string
serial_number <i>optional</i>	Serial number of the system	string
software_version <i>optional</i>	Software version of the Unity storage system.	string
supported_import_type <i>optional</i>	Was added in version 1.0.2.	SupportedImportTypeEnum

Name	Description	Schema
supported_import_type_110n <i>optional</i>	Localized message string corresponding to supported_import_type Was added in version 1.0.2.	string
user_name <i>optional</i>	User account name used to communicate with the Unity storage system.	string

import_unity_snapshot_schedule_instance

Name	Description	Schema
id <i>optional</i>	Unique identifier of the Unity snapshot schedule.	string
is_default <i>optional</i>	Indicates whether the Unity snapshot schedule is the default snapshot schedule.	boolean
is_modified <i>optional</i>	Indicates whether the Unity snapshot schedule has been modified.	boolean
name <i>optional</i>	Name of the Unity snapshot schedule.	string
rules <i>optional</i>		< import_unity_snapshot_schedule_rule_instance > array
version <i>optional</i>	Version of the snapshot schedule.	UnityScheduleVersionEnum
version_110n <i>optional</i>	Localized message string corresponding to version	string

import_unity_snapshot_schedule_rule_instance

Name	Description	Schema
days_of_month <i>optional</i>	Days of the month for which the snapshot schedule rule applies. [1..31].	< integer > array

Name	Description	Schema
days_of_week <i>optional</i>	Days of the week for which the snapshot schedule rule applies.	< UnityDayOfWeekEnum > array
days_of_week_l10n <i>optional</i>	Localized message array corresponding to days_of_week	< string > array
hours <i>optional</i>	Hourly frequency for the snapshot schedule rule.[0..23].	< integer > array
id <i>optional</i>	Unique identifier of the snapshot schedule rule .	string
interval <i>optional</i>	Number of days or hours between snaps, depending on the rule type. [1..31]. Minimum value : 1 Maximum value : 31	integer (int32)
is_auto_delete <i>optional</i>	Indicates whether the system can automatically delete the snapshot based on pool automatic-deletion thresholds.	boolean
minute <i>optional</i>	Snapshot schedule frequency.[0..59]. Minimum value : 0 Maximum value : 59	integer (int32)
retention_time <i>optional</i>	(Applies when the value of the isAutoDelete attribute is false.) Period of time for which to keep the snapshot, in seconds. Minimum value : 0 Maximum value : 2147483647	integer (int32)
type <i>optional</i>	Type of the snapshot schedule rule.	UnityScheduleTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type	string

import_unity_volume_import_snapshot_schedules_response

Type : < [import_unity_snapshot_schedule_instance](#) > array

import_unity_volume_instance

This resource type has queriable associations from import_unity, import_unity_consistency_group

Name	Description	Schema
health <i>optional</i>		UnityHealthEnum
health_l10n <i>optional</i>	Localized message string corresponding to health	string
host_volume_ids <i>optional</i>	List of host volume identifiers that correspond to Unity volumes.	< string > array
id <i>optional</i>	Unique identifier of the Unity volume.	string
import_unity <i>optional</i>	This is the embeddable reference form of import_unity_id attribute.	import_unity_instance
import_unity_consistency_group <i>optional</i>	This is the embeddable reference form of import_unity_consistency_group_id attribute.	import_unity_consistency_group_instance
import_unity_consistency_group_id <i>optional</i>	Unique identifier of the consistency group to which the Unity volume belongs. This value is null if the volume does not belong to a consistency group.	string
import_unity_id <i>optional</i>	Unique identifier of the Unity storage system to which the Unity volume belongs.	string
importable_criteria <i>optional</i>		VolumeImportableCriteriaEnum
importable_criteria_l10n <i>optional</i>	Localized message string corresponding to importable_criteria	string

Name	Description	Schema
is_replication_destination <i>optional</i>	Indicates whether the Unity volume is a replication destination.	boolean
is_thin_clone <i>optional</i>	Indicates whether the Unity volume is a thin clone.	boolean
migration_state <i>optional</i>		UnityVolumeMigrationStateEnum
migration_state_l10n <i>optional</i>	Localized message string corresponding to migration_state	string
name <i>optional</i>	Name of the Unity volume. This property supports case-insensitive filtering.	string
size <i>optional</i>	This resource type has queriable associations from import_unity, import_unity_consistency_group Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
type <i>optional</i>		UnityVolumeTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type	string
wwn <i>optional</i>	World Wide Name (WWN) of the Unity volume.	string

import_universal_consistency_group_add_members

Add members to a universal consistency group.

Was added in version 4.0.0.0.

Name	Description	Schema
import_universal_volume_ids <i>required</i>	A list of universal volumes to be added to the universal consistency group. Example : ["17972780-07e5-4d57-8b34-287e06c50bc1"]	< string > array

import_universal_consistency_group_create

Create universal consistency group request. Was added in version 4.0.0.0.

Name	Description	Schema
import_universal_volume_ids <i>optional</i>	A list of universal volumes to be added to the universal consistency group. Example : ["17972780-07e5-4d57-8b34-287e06c50bc1"]	< string > array
name <i>required</i>	Unique name for the universal consistency group. The name should contain no special HTTP characters and no unprintable characters. Although the case of the name provided is preserved, the uniqueness check is case-insensitive, so the same name in two different cases is not considered unique. Length : 1 - 128 Example : "Test Consistency Group"	string
remote_system_id <i>required</i>	The remote_system from which all of the universal import volumes will be imported. name:{name} can be used instead of {id}. For example: 'remote_system_id':'name:remote_system_name'	string

import_universal_consistency_group_instance

Information about a universal consistency group. Was added in version 4.0.0.0. This resource type has queriable association from remote_system

Name	Description	Schema
id <i>optional</i>	Unique identifier of the universal consistency group. Example : "b00b6683-9172-4d59-8caf-0f4e559d0ef7"	string
importable_criteria <i>optional</i>		CGImportableCriteriaEnum

Name	Description	Schema
importable_criteria_l10n <i>optional</i>	Localized message string corresponding to importable_criteria Was added in version 4.0.0.0.	string
name <i>optional</i>	Name of the universal consistency group. After import is completed this name will be applied to the new consistency group. This property supports case-insensitive filtering. Example : "Test Consistency Group"	string
remote_system <i>optional</i>	This is the embeddable reference form of remote_system_id attribute.	remote_system_instance
remote_system_id <i>optional</i>	Unique identifier of the Remote storage system to which the Universal volume belongs.	string

import_universal_consistency_group_modify

Modify universal consistency group request. Was added in version 4.0.0.0.

Name	Description	Schema
name <i>optional</i>	New name for the universal consistency group. The name should contain no special HTTP characters and no unprintable characters. Although the case of the name provided is preserved, the uniqueness check is case-insensitive, so the same name in two different cases is not considered unique. Length : 1 - 128 Example : "Consistency group for demonstration"	string

import_universal_consistency_group_remove_members

Remove universal volumes from the universal consistency group.

Was added in version 4.0.0.0.

Name	Description	Schema
import_universal_volume_ids <i>required</i>	A list of universal volumes that need to be removed from the consistency group. This list cannot be empty. Example : ["17972780-07e5-4d57-8b34-287e06c50bc1"]	< string > array

import_universal_volume_instance

An instance of a Universal volume. Was added in version 4.0.0.0. This resource type has queriable association from remote_system

Name	Description	Schema
block_size <i>optional</i>		VolumeBlockSizeEnum
block_size_l10n <i>optional</i>	Localized message string corresponding to block_size Was added in version 4.0.0.0.	string
id <i>optional</i>	Unique identifier of the Universal volume.	string
import_universal_consistency_group_id <i>optional</i>	Unique identifier of the Universal Consistency Group to which the Universal volume belongs.	string
importable_criteria <i>optional</i>		VolumeImportableCriteriaEnum
importable_criteria_l10n <i>optional</i>	Localized message string corresponding to importable_criteria Was added in version 4.0.0.0.	string
name <i>optional</i>	Name of the Universal volume. During discovery name will come as null from proxy layer and can later be updated by calling Modify Volume API. This property supports case-insensitive filtering.	string
remote_system <i>optional</i>	This is the embeddable reference form of remote_system_id attribute.	remote_system_instance

Name	Description	Schema
remote_system_id <i>optional</i>	Unique identifier of the Remote storage system to which the Universal volume belongs.	string
size <i>optional</i>	Size of the Universal volume, in bytes. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
wwn <i>optional</i>	World Wide Name (WWN) of the Universal volume.	string

import_universal_volume_modify

This is an import universal volume modify operation. Was added in version 4.0.0.0.

Name	Description	Schema
name <i>optional</i>	A new name for the import universal volume. This property supports case-insensitive filtering.	string

import_vmax_instance

An instance of an VMAX storage system. Was added in version 3.0.0.0. This resource type has queriable associations from import_vmax_volume, import_vmax_storage_group

Name	Description	Schema
id <i>optional</i>	Unique identifier of the import_vmax resource instance, and of the corresponding remote_system instance.	string
import_vmax_storage_group <i>optional</i>	This is the inverse of the resource type import_vmax_storage_group association.	< import_vmax_storage_group_instance > array
import_vmax_volumes <i>optional</i>	This is the inverse of the resource type import_vmax_volume association.	< import_vmax_volume_instance > array
is_embedded <i>optional</i>	The Unisphere is running as embedded or standalone.	boolean

Name	Description	Schema
last_updated_timestamp <i>optional</i>	Date and time when the VMAX storage system details were last updated. These details include the VMAX storage system and information about its importable storage groups. The timestamp is updated when the VMAX storage system is created and whenever the importable storage groups is discovered.	string (date-time)
management_address <i>optional</i>	Management address to use for communicating with the VMAX storage system. The address can be an IPv4 address, IPv6 address, or FQDN (Fully Qualified Domain Name).	string (ip-address)
model <i>optional</i>	Model represent the model of VMAX storage system.	string
port <i>optional</i>	Management port of PowerMax/VMAX remote system. Minimum value : 0 Maximum value : 2147483647	integer (int32)
supported_import_type <i>optional</i>		SupportedImportTypeEnum
supported_import_type_l10n <i>optional</i>	Localized message string corresponding to supported_import_type Was added in version 3.0.0.0.	string
symmetrix_id <i>optional</i>	Unique identifier of the VMAX storage system that is a storage system for import.	string
ucode_version <i>optional</i>	Ucode version will be present in this format 5977.1131.1131 for the VMAX storage system.	string
unisphere_api_version <i>optional</i>	Version of the Unisphere that manages the VMAX storage system.	string
user_name <i>optional</i>	User account name used to communicate with the VMAX storage system.	string

import_vmax_snapshot_policy_instance

An instance of a snapshot policy. Was added in version 3.0.0.0.

Name	Description	Schema
interval_minutes <i>optional</i>	The number of minutes between each policy execution. Minimum value : 0 Maximum value : 2147483647	integer (int32)
name <i>optional</i>	The Name of the VMAX snapshot policy.	string
offset_minutes <i>optional</i>	The number of minutes after 00:00 on Monday morning that the policy will execute. Minimum value : 0 Maximum value : 2147483647	integer (int32)
provider_name <i>optional</i>	The name of the cloud provider associated with this policy. Only applies to cloud policies.	string
retention_days <i>optional</i>	The number of days that snapshots will be retained in the cloud for. Only applies to cloud policies. Minimum value : 0 Maximum value : 2147483647	integer (int32)
secure <i>optional</i>	Set if the snapshot policy creates secure snapshots. Default : false	boolean
snapshot_count <i>optional</i>	The number of snapshots that will be taken before the oldest ones are no longer required. Minimum value : 0 Maximum value : 2147483647	integer (int32)
suspended <i>optional</i>	Set if the snapshot policy has been suspended. Default : false	boolean

import_vmax_storage_group_import_snapshot_policy_response

Response object for snapshot policy of a storage group. Was added in version 3.0.0.0.

Name	Schema
profiles <i>optional</i>	import_vmax_snapshot_policy_instance

import_vmax_storage_group_instance

Was added in version 3.0.0.0. This resource type has queriable associations from import_vmax, import_vmax_volume

Name	Description	Schema
id <i>optional</i>	Unique identifier of the VMAX storage group.	string
import_vmax <i>optional</i>	This is the embeddable reference form of import_vmax_id attribute.	import_vmax_instance
import_vmax_id <i>optional</i>	Unique identifier of the VMAX storage system where the storage group exists.	string
import_vmax_volume <i>optional</i>	This is the inverse of the resource type import_vmax_volume association.	< import_vmax_volume_instance > array
importable_criteria <i>optional</i>	Storage group import criteria. If the value is not Ready_For_Agentless_Import, storage group is not importable.	CGImportableCriteriaEnum
importable_criteria_l10n <i>optional</i>	Localized message string corresponding to importable_criteria Was added in version 3.0.0.0.	string
name <i>optional</i>	Name of the storage group. This property supports case-insensitive filtering.	string

import_vmax_volume_instance

An instance of an VMAX volume. Was added in version 3.0.0.0. This resource type has queriable associations from import_vmax, import_vmax_storage_group

Name	Description	Schema
block_size <i>optional</i>		VolumeBlockSizeEnum
block_size_l10n <i>optional</i>	Localized message string corresponding to block_size Was added in version 3.0.0.0.	string

Name	Description	Schema
id <i>optional</i>	Unique identifier of the VMAX volume.	string
import_vmax <i>optional</i>	This is the embeddable reference form of import_vmax_id attribute.	import_vmax_instance
import_vmax_id <i>optional</i>	Unique identifier of the VMAX storage system to which the VMAX volume belongs.	string
import_vmax_storage_group <i>optional</i>	This is the embeddable reference form of import_vmax_storage_group_id attribute.	import_vmax_storage_group_instance
import_vmax_storage_group_id <i>optional</i>	Unique identifier of the storage group to which the VMAX volume belongs.	string
importable_criteria <i>optional</i>		VolumeImportableCriteriaEnum
importable_criteria_l10n <i>optional</i>	Localized message string corresponding to importable_criteria Was added in version 3.0.0.0.	string
is_read_only <i>optional</i>	Indicates whether the VMAX volume is a read only volume.	boolean
is_replication_destination <i>optional</i>	Indicates whether the VMAX storage group is a replication destination.	boolean
is_snap_vx_target <i>optional</i>	Indicates whether the VMAX volume is a SnapVX target.	boolean
name <i>optional</i>	Name of the VMAX volume. This property supports case-insensitive filtering.	string

Name	Description	Schema
size <i>optional</i>	Size of the VMAX volume, in bytes. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
state <i>optional</i>		VmaxVolumeStateEnum
state_l10n <i>optional</i>	Localized message string corresponding to state Was added in version 3.0.0.0.	string
wwn <i>optional</i>	World Wide Name (WWN) of the VMAX volume.	string

import_vnx_array_instance

This resource type has queriable associations from [import_vnx_volume](#), [import_vnx_consistency_group](#)

Name	Description	Schema
alternate_management_address <i>optional</i>	Alternate management address for communicating with the VNX storage system. This is usually the address of Storage Processor B (SPB). The address can be an IPv4 address or FQDN (Fully Qualified Domain Name).	string (ip-address)
id <i>optional</i>	Unique identifier of the VNX storage system.	string
import_vnx_consistency_groups <i>optional</i>	This is the inverse of the resource type import_vnx_consistency_group association.	< import_vnx_consistency_group_instance > array
import_vnx_volumes <i>optional</i>	This is the inverse of the resource type import_vnx_volume association.	< import_vnx_volume_instance > array
is_faulted <i>optional</i>	Indicates whether the VNX storage system is faulted.	boolean

Name	Description	Schema
last_updated_timestamp <i>optional</i>	Timestamp at which the VNX storage system details were last updated. These details include information about the VNX storage system and its importable volumes and consistency groups. The timestamp is updated when the VNX storage system is created and when the importable storage resources are discovered using the discover action.	string (date-time)
management_address <i>optional</i>	Management address for communicating with the VNX storage system. This is usually the address of Storage Processor A (SPA). The address can be an IPv4 address or FQDN (Fully Qualified Domain Name).	string (ip-address)
model <i>optional</i>	Model name of the VNX storage system.	string
name <i>optional</i>	Name of the VNX storage system. This property supports case-insensitive filtering.	string
serial_number <i>optional</i>	Serial number of the VNX storage system.	string
software_version <i>optional</i>	The software version of the block operating environment of the VNX storage system.	string
supported_import_type <i>optional</i>	Was added in version 1.0.2.	SupportedImportTypeEnum
supported_import_type_l10n <i>optional</i>	Localized message string corresponding to supported_import_type Was added in version 1.0.2.	string
user_name <i>optional</i>	User account name used to communicate with the VNX storage system.	string

import_vnx_consistency_group_instance

This resource type has queriable associations from import_vnx_array, import_vnx_volume

Name	Description	Schema
id <i>optional</i>	Unique identifier of the VNX consistency group.	string
import_vnx_array <i>optional</i>	This is the embeddable reference form of import_vnx_array_id attribute.	import_vnx_array_instance
import_vnx_array_id <i>optional</i>	Unique identifier of the VNX storage system where the consistency group exists.	string
import_vnx_volumes <i>optional</i>	This is the inverse of the resource type import_vnx_volume association.	< import_vnx_volume_instance > array
importable_criteria <i>optional</i>		CGImportableCriteriaEnum
importable_criteria_l10n <i>optional</i>	Localized message string corresponding to importable_criteria	string
name <i>optional</i>	Name of the consistency group. This property supports case-insensitive filtering.	string

import_vnx_volume_instance

This resource type has queriable associations from import_vnx_array, import_vnx_consistency_group

Name	Description	Schema
health <i>optional</i>		VnxVolumeStateEnum
health_l10n <i>optional</i>	Localized message string corresponding to health	string
host_volume_ids <i>optional</i>	List of host volume identifiers associated with the VNX volume.	< string > array

Name	Description	Schema
id <i>optional</i>	Unique identifier of the VNX volume.	string
import_vnx_array <i>optional</i>	This is the embeddable reference form of import_vnx_array_id attribute.	import_vnx_array_instance
import_vnx_array_id <i>optional</i>	Unique identifier of the VNX storage system where the volume exists.	string
import_vnx_consistency_group <i>optional</i>	This is the embeddable reference form of import_vnx_consistency_group_id attribute.	import_vnx_consistency_group_instance
import_vnx_consistency_group_id <i>optional</i>	Unique identifier of the VNX consistency group, if the volume is in a consistency group.	string
importable_criteria <i>optional</i>		VolumeImportableCriteriaEnum
importable_criteria_l10n <i>optional</i>	Localized message string corresponding to importable_criteria	string
migration_state <i>optional</i>		VnxVolumeMigrationStateEnum
migration_state_l10n <i>optional</i>	Localized message string corresponding to migration_state	string
name <i>optional</i>	Name of the VNX volume. This property supports case-insensitive filtering.	string

Name	Description	Schema
size <i>optional</i>	This resource type has queriable associations from import_vnx_array, import_vnx_consistency_group Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
wwn <i>optional</i>	World wide name of the VNX volume.	string

import_xtremio_consistency_group_import_snapshot_schedules_response

Response object for snapshot schedules of a consistency group. Was added in version 1.0.2.

Type : < [import_xtremio_snapshot_schedule_instance](#) > array

import_xtremio_consistency_group_instance

An instance of XtremIO consistency group. Was added in version 1.0.2. This resource type has queriable associations from import_xtremio, import_xtremio_volume

Name	Description	Schema
id <i>optional</i>	Unique identifier of the XtremIO consistency group.	string
import_xtremio <i>optional</i>	This is the embeddable reference form of import_xtremio_id attribute.	import_xtremio_instance
import_xtremio_id <i>optional</i>	Unique identifier of the XtremIO storage system where the consistency group resides.	string
import_xtremio_volumes <i>optional</i>	This is the inverse of the resource type import_xtremio_volume association.	< import_xtremio_volume_instance > array
importable_criteria <i>optional</i>	Consistency group import criteria. If the value is not Ready, the consistency group is not importable.	CGImportableCriteriaEnum

Name	Description	Schema
importable_criteria_l10n <i>optional</i>	Localized message string corresponding to importable_criteria Was added in version 1.0.2.	string
name <i>optional</i>	Name of the consistency group. This property supports case-insensitive filtering.	string

import_xtremio_instance

An instance of an XtremIO storage system Was added in version 1.0.2. This resource type has queriable associations from import_xtremio_volume, import_xtremio_consistency_group

Name	Description	Schema
cluster_guid <i>optional</i>	Cluster GUID of the XtremIO storage system.	string
id <i>optional</i>	Unique identifier of the XtremIO storage system that is a source storage system for import.	string
import_xtremio_consistency_groups <i>optional</i>	This is the inverse of the resource type import_xtremio_consistency_group association.	< import_xtremio_consistency_group_instance > array
import_xtremio_volumes <i>optional</i>	This is the inverse of the resource type import_xtremio_volume association.	< import_xtremio_volume_instance > array
last_updated_timestamp <i>optional</i>	Date and time when the XtremIO storage system details were last updated. These details include the XtremIO storage system and information about its importable volumes and consistency groups. The timestamp is updated when the XtremIO storage system is created and whenever the importable volumes and consistency groups are discovered.	string (date-time)
management_address <i>optional</i>	Management address to use for communicating with the XtremIO storage system. The address can be an IPv4 address or FQDN (Fully Qualified Domain Name).	string (ip-address)

Name	Description	Schema
name <i>optional</i>	Name of the XtremIO storage system. This property supports case-insensitive filtering.	string
platform <i>optional</i>		XtremIOPlatformEnum
platform_l10n <i>optional</i>	Localized message string corresponding to platform Was added in version 1.0.2.	string
serial_number <i>optional</i>	Serial number of the XtremIO storage system.	string
severity <i>optional</i>		XtremIOObjectSeverityEnum
severity_l10n <i>optional</i>	Localized message string corresponding to severity Was added in version 1.0.2.	string
software_version <i>optional</i>	Software version of the XtremIO storage system.	string
state <i>optional</i>		XtremIOStateEnum
state_l10n <i>optional</i>	Localized message string corresponding to state Was added in version 1.0.2.	string
supported_import_type <i>optional</i>		SupportedImportTypeEnum
supported_import_type_l10n <i>optional</i>	Localized message string corresponding to supported_import_type Was added in version 1.0.2.	string
user_name <i>optional</i>	User account name used to communicate with the XtremIO storage system.	string
xms_version <i>optional</i>	Version of the XMS instance that manages the XtremIO storage system.	string

import_xtremio_snapshot_schedule_instance

An instance of a snapshot schedule. Was added in version 1.0.2.

Name	Description	Schema
id <i>optional</i>	Unique identifier of the XtremIO snapshot schedule.	string
name <i>optional</i>	Name of the XtremIO snapshot schedule.	string
retention_policy <i>optional</i>		import_xtremio_snapshot_schedule_retention_policy_instance
schedule <i>optional</i>	For schedule_type of interval, a triplet in the form of '[hours : minutes : seconds]', where a schedule using hours and minutes must have a seconds value of 0 and a schedule in seconds must have hours and minutes of 0. For example, '[1:30:0]' takes a snapshot every 1.5 hours and '[0:0:15]' takes a snapshot every 15 seconds. ¶ For schedule_type of explicit, a triplet in the form of '[day-of-week : hour : minute]', where day-of week values 0 is every day, 1 is Sunday, 2 is Monday, 3 is Tuesday, 4 is Wednesday, 5 is Thursday, and 6 is Saturday (for example, '[1:12:30]' takes a snapshot on Sunday at 12:30, and '[0:12:30]' takes a snapshot every day at 12:30.	string
schedule_type <i>optional</i>		XtremIOScheduleTypeEnum
schedule_type_localization <i>optional</i>	Localized message string corresponding to schedule_type Was added in version 1.0.2.	string
snapshots_to_keep_number <i>optional</i>	Defines the number of Snapshots to be saved. This value is present if the retention_policy is not present. Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
snapshots_to_keep_time <i>optional</i>	The time period, in seconds, for which a Snapshot is retained. When the defined time has passed, the snapshot is automatically removed. Minimum value is 60 (1 minute). Maximum value is 15768000 (5 Years). This value is present if the retention_policy is not present. Minimum value : 60 Maximum value : 15768000	integer (int32)
state <i>optional</i>		XtremIOScheduleStateEnum
state_l10n <i>optional</i>	Localized message string corresponding to state Was added in version 1.0.2.	string

import_xtremio_snapshot_schedule_retention_policy_instance

An instance of a snapshot schedule retention policy. Was added in version 1.0.2.

Name	Description	Schema
id <i>optional</i>	Unique identifier of the snapshot schedule retention policy.	string
long_period_duration <i>optional</i>	The duration of the long term period ranging from 1 to 500. Minimum value : 1 Maximum value : 500	integer (int32)
long_period_unit <i>optional</i>		XtremIODurationUnitEnum
long_period_unit_l10n <i>optional</i>	Localized message string corresponding to long_period_unit Was added in version 1.0.2.	string
long_retention_copies <i>optional</i>	The long term retention number of copies ranging from 1 to 500. The value of 0 indicates that this period is not in use. Minimum value : 0 Maximum value : 500	integer (int32)

Name	Description	Schema
middle_period_duration <i>optional</i>	The duration of the middle term period ranging from 1 to 500. Minimum value : 1 Maximum value : 500	integer (int32)
middle_period_unit <i>optional</i>		XtremIODurationUnitEnum
middle_period_unit_l10n <i>optional</i>	Localized message string corresponding to middle_period_unit Was added in version 1.0.2.	string
middle_retention_copies <i>optional</i>	The middle term retention number of copies ranging from 1 to 500. The value of 0 indicates that this period is not in use. Minimum value : 0 Maximum value : 500	integer (int32)
name <i>optional</i>	The name of the Retention Policy.	string
short_period_duration <i>optional</i>	The duration of the short term period ranging from 1 to 500. Minimum value : 0 Maximum value : 2147483647	integer (int32)
short_period_unit <i>optional</i>		XtremIODurationUnitEnum
short_period_unit_l10n <i>optional</i>	Localized message string corresponding to short_period_unit Was added in version 1.0.2.	string
short_retention_copies <i>optional</i>	The short term retention number of copies ranging from 1 to 500. The value of 0 indicates that this period is not in use. Minimum value : 0 Maximum value : 500	integer (int32)

import_xtremio_volume_import_snapshot_schedules_response

Response object for snapshot schedules of a volume. Was added in version 1.0.2.

Type : < [import_xtremio_snapshot_schedule_instance](#) > array

import_xtremio_volume_instance

An instance of an XtremIO volume Was added in version 1.0.2. This resource type has queriable associations from import_xtremio, import_xtremio_consistency_group

Name	Description	Schema
certainty <i>optional</i>		XtremIOCertaintyEnum
certainty_l10n <i>optional</i>	Localized message string corresponding to certainty Was added in version 1.0.2.	string
id <i>optional</i>	Unique identifier of the XtremIO volume.	string
import_xtremio <i>optional</i>	This is the embeddable reference form of import_xtremio_id attribute.	import_xtremio_instance
import_xtremio_consistency_group <i>optional</i>	This is the embeddable reference form of import_xtremio_consistency_group_id attribute.	import_xtremio_consistency_group_instance
import_xtremio_consistency_group_id <i>optional</i>	Unique identifier of the consistency group to which the XtremIO volume belongs. This value is null if the volume does not belong to a consistency group or a volume belongs to multiple consistency groups. The volume that belongs to multiple consistency groups will be imported as an individual volume and the attribute import_xtremio_consistency_group_names contains the names of the consistency groups of which the volume is a member.	string
import_xtremio_consistency_group_names <i>optional</i>	Names of the consistency groups of which the volume is a member, if the volume belong to multiple consistency groups. The attribute will be empty for a volume that is part of a single consistency group.	< string > array

Name	Description	Schema
import_xtremio_id <i>optional</i>	Unique identifier of the XtremIO storage system to which the XtremIO volume belongs.	string
importable_criteria <i>optional</i>	Indicates the reason when the volume is not importable. If the value is not Ready, the volume is not importable.	VolumeImportableCriteriaEnum
importable_criteria_l10n <i>optional</i>	Localized message string corresponding to importable_criteria Was added in version 1.0.2.	string
is_read_only <i>optional</i>	Indicates whether the XtremIO volume is a read only volume.	boolean
is_replication_destination <i>optional</i>	Indicates whether the XtremIO volume is a replication destination.	boolean
name <i>optional</i>	Name of the XtremIO volume. This property supports case-insensitive filtering.	string
severity <i>optional</i>		XtremIOObjectSeverityEnum
severity_l10n <i>optional</i>	Localized message string corresponding to severity Was added in version 1.0.2.	string
size <i>optional</i>	An instance of an XtremIO volume Was added in version 1.0.2. This resource type has queriable associations from import_xtremio, import_xtremio_consistency_group Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
wwn <i>optional</i>	World Wide Name (WWN) of the XtremIO volume.	string

initiator_create_modify

Parameters for creating or adding initiators to host.

Name	Description	Schema
chap_mutual_password <i>optional</i>	Password for CHAP authentication. This value must be 12 to 64 UTF-8 characters. This password cannot be queried. CHAP password is required when the cluster CHAP mode is mutual authentication. Length : 12 - 64	string (password)
chap_mutual_username <i>optional</i>	Username for CHAP authentication. This value must be 1 to 64 UTF-8 characters. CHAP username is required when the cluster CHAP mode is mutual authentication. Length : 1 - 64	string
chap_single_password <i>optional</i>	Password for CHAP authentication. This value must be 12 to 64 UTF-8 characters. This password cannot be queried. CHAP password is required when the cluster CHAP mode is single authentication. Length : 12 - 64	string (password)
chap_single_username <i>optional</i>	Username for CHAP authentication. This value must be 1 to 64 UTF-8 characters. CHAP username is required when the cluster CHAP mode is single authentication. Length : 1 - 64	string
port_name <i>required</i>	IQN name aka address or NQN name for NVMeoF port types.	string
port_type <i>required</i>		InitiatorProtocolTypeEnum

initiator_instance

Was added in version 3.0.0.0. This resource type has queriable association from host

Name	Description	Schema
active_sessions <i>optional</i>	Array of active login sessions between an initiator and a target port. Filtering on the fields of this embedded resource is not supported.	< active_session_instance > array
chap_mutual_username <i>optional</i>	Username for CHAP authentication. This value must be 1 to 64 UTF-8 characters. CHAP username is required when the cluster CHAP mode is mutual authentication. Length : 1 - 64	string

Name	Description	Schema
chap_single_username <i>optional</i>	Username for CHAP authentication. This value must be 1 to 64 UTF-8 characters. CHAP username is required when the cluster CHAP mode is mutual authentication. Length : 1 - 64	string
host <i>optional</i>	This is the embeddable reference form of host_id attribute.	host_instance
host_id <i>optional</i>	Unique id of a host instance.	string
id <i>optional</i>	Unique id of the initiator.	string
port_name <i>optional</i>	The port name, one of: IQN, WWN, or NQN.	string
port_type <i>optional</i>		InitiatorProtocolTypeEnum

io_limit_rule_create

Parameters to an I/O limit rule create operation. Was added in version 4.0.0.0.

Name	Description	Schema
burst_percent <i>optional</i>	Parameters to an I/O limit rule create operation. Was added in version 4.0.0.0. Unit : percent Minimum value : 0 Maximum value : 100	integer (int32)
max_bw <i>optional</i>	Parameters to an I/O limit rule create operation. Was added in version 4.0.0.0. Unit : KB/sec Minimum value : 2000 Maximum value : 2147483646	integer (int32)

Name	Description	Schema
max_iops <i>optional</i>	Parameters to an I/O limit rule create operation. Was added in version 4.0.0.0. Unit : IO/sec Minimum value : 1 Maximum value : 2147483646	integer (int32)
name <i>required</i>	Name of the I/O limit rule. Length : 1 - 128	string
type <i>required</i>		BandwidthLimitTypeEnum

io_limit_rule_instance

Properties of an I/O limit rule The I/O limit rule allows users to specify I/O bandwidth limits. If both IOP and bandwidth limits are set, both are enforced.

Was added in version 4.0.0.0. This resource type has queriable association from policy

Name	Description	Schema
burst_percent <i>optional</i>	Properties of an I/O limit rule The I/O limit rule allows users to specify I/O bandwidth limits. If both IOP and bandwidth limits are set, both are enforced. Was added in version 4.0.0.0. This resource type has queriable association from policy Unit : percent Minimum value : 0 Maximum value : 100	integer (int32)
id <i>optional</i>	Unique identifier of the I/O limit rule.	string

Name	Description	Schema
max_bw <i>optional</i>	Properties of an I/O limit rule The I/O limit rule allows users to specify I/O bandwidth limits. If both IOP and bandwidth limits are set, both are enforced. Was added in version 4.0.0.0. This resource type has queriable association from policy Unit : KB/sec Minimum value : 2000 Maximum value : 2147483646	integer (int32)
max_iops <i>optional</i>	Properties of an I/O limit rule The I/O limit rule allows users to specify I/O bandwidth limits. If both IOP and bandwidth limits are set, both are enforced. Was added in version 4.0.0.0. This resource type has queriable association from policy Unit : IO/sec Minimum value : 1 Maximum value : 2147483646	integer (int32)
name <i>optional</i>	Name of the I/O limit rule. This property supports case-insensitive filtering. Maximal length : 128	string
policies <i>optional</i>	This is the inverse of the resource type policy association.	< policy_instance > array
type <i>optional</i>		BandwidthLimitTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type Was added in version 4.0.0.0.	string

io_limit_rule_modify

Parameters to an I/O limit rule modify operation. Was added in version 4.0.0.0.

Name	Description	Schema
burst_percent <i>age optional</i>	Parameters to an I/O limit rule modify operation. Was added in version 4.0.0.0. Unit : percent Minimum value : 0 Maximum value : 100	integer (int32)
max_bw <i>optional</i>	Parameters to an I/O limit rule modify operation. Was added in version 4.0.0.0. Unit : KB/sec Minimum value : 2000 Maximum value : 2147483646	integer (int32)
max_iops <i>optional</i>	Parameters to an I/O limit rule modify operation. Was added in version 4.0.0.0. Unit : IO/sec Minimum value : 1 Maximum value : 2147483646	integer (int32)
name <i>optional</i>	New name of the I/O limit rule. Length : 1 - 128	string
type <i>optional</i>		BandwidthLimitTypeEnum

ip_pool_address_instance

Properties of the IP pool address. This resource type has queriable associations from network, ip_port, appliance, node, nvme_discovered_cdc

Name	Description	Schema
address <i>optional</i>	IP address value, in IPv4 or IPv6 format.	string (ip-address)
appliance <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	appliance_instance
appliance_id <i>optional</i>	Unique identifier of the appliance to which the IP address belongs.	string

Name	Description	Schema
id <i>optional</i>	Unique identifier of the IP address.	string
ip_port <i>optional</i>	This is the embeddable reference form of ip_port_id attribute.	ip_port_instance
ip_port_id <i>optional</i>	Unique identifier of the port that uses this IP address to provide access to storage network services, such as iSCSI. This attribute can be set only for an IP address used by networks of type Storage.	string
name <i>optional</i>	Name of the IP address. This property supports case-insensitive filtering. Was added in version 2.0.0.0. Length : 1 - 256	string
network <i>optional</i>	This is the embeddable reference form of network_id attribute.	network_instance
network_id <i>optional</i>	Unique identifier of the network to which the IP address belongs.	string
node <i>optional</i>	This is the embeddable reference form of node_id attribute.	node_instance
node_id <i>optional</i>	Unique identifier of the cluster node to which the IP address belongs.	string
nvme_discovered_cdc <i>optional</i>	This is the inverse of the resource type nvme_discovered_cdc association.	< nvme_discovered_cdc_instance > array
purposes <i>optional</i>	IP address purposes.	< IpPurposeTypeEnum > array
purposes_l10n <i>optional</i>	Localized message array corresponding to purposes	< string > array

ip_port_instance

Values was added in 3.5.0.0: fsn.name. This resource type has queriable associations from ip_port, fsn, bond, eth_port, veth_port, ip_pool_address, file_interface

Name	Description	Schema
available_usages <i>optional</i>	Available IP port usages.	< IpPortUsageEnum > array
available_usages_l10n <i>optional</i>	Localized message array corresponding to available_usages	< string > array
bond <i>optional</i>	This is the embeddable reference form of bond_id attribute.	bond_instance
bond_id <i>optional</i>	Unique identifier of the bond on top of which the IP port is configured. If the IP port is configured on top of an Ethernet front-end port or an FSN, this attribute should be empty.	string
current_usages <i>optional</i>	Current IP port usages.	< IpPortUsageEnum > array
current_usages_l10n <i>optional</i>	Localized message array corresponding to current_usages	< string > array
eth_port <i>optional</i>	This is the embeddable reference form of eth_port_id attribute.	eth_port_instance
eth_port_id <i>optional</i>	Unique identifier of the physical Ethernet front-end port on top of which the IP port is configured. This attribute can be set when the IP port is used by a Unified appliance. It should be empty if the IP port is used by a Unified+ appliance or if the IP port is configured on top of a bond or an FSN on a Unified appliance.	string
file_interfaces <i>optional</i>	This is the inverse of the resource type file_interface association.	< file_interface_instance > array
fsn <i>optional</i>	This is the embeddable reference form of fsn_id attribute.	fsn_instance

Name	Description	Schema
fsn_id <i>optional</i>	Unique identifier of the FSN on top of which the IP port is configured. If the IP port is configured on top of an Ethernet frontend-port or a bond, this attribute should be empty. Was added in version 3.5.0.0.	string
id <i>optional</i>	Unique identifier of the IP port.	string
ip_pool_addresses <i>optional</i>	This is the inverse of the resource type ip_pool_address association.	< ip_pool_address_instance > array
partner <i>optional</i>	This is the embeddable reference form of partner_id attribute.	ip_port_instance
partner_id <i>optional</i>	Identifier of the IP port that is configured on top of physical Ethernet port or virtual Ethernet port or bond with the same physical location on the other node of the appliance. Partner ports are configured symmetrically for HA and load balancing purposes within the appliance.	string
target_iqn <i>optional</i>	iSCSI qualified name used by the target configured on top of the IP port initially or as a result of network scaling. If the IP port is not used by an iSCSI connection, this attribute should be empty.	string
veth_port <i>optional</i>	This is the embeddable reference form of veth_port_id attribute.	veth_port_instance
veth_port_id <i>optional</i>	Unique identifier of the virtual Ethernet front-end port on top of which the IP port is configured. This attribute can be set when the IP port is used by a Unified+ appliance. For a Unified appliance, the value of veth_port_id should be empty.	string

ip_port_modify

Name	Description	Schema
add_current_usages <i>optional</i>	Usages to add to the current usages of an IP port. The current usages of an IP port can be extended with external replication, iSCSI or NVMe_TCP if those usages are in the port's list of available usages. The same settings will be applied to the partner IP port. If both add_current usages and remove_current usages specified in the request, removal will be done firstly, then addition.	< IpPortUsageEnum > array
network_id <i>optional</i>	Unique identifier of the network in which IP port usages will be changed name:{name} can be used instead of {id}. For example: 'network_id':'name:network_name' Was added in version 2.0.0.0. Was deprecated in version 4.0.0.0.	string
network_ids <i>optional</i>	List of unique identifiers of the networks in which IP port usages will be changed Was added in version 4.0.0.0.	< string > array
remove_current_usages <i>optional</i>	Usages to remove from the current usages of an IP port. Only External replication, iSCSI or NVMe_TCP usages can be removed. The same settings will be applied to the partner IP port. If both add_current usages and remove_current usages specified in the request, removal will be done firstly, then addition. Was added in version 4.0.0.0.	< IpPortUsageEnum > array

job_appliance_create_error_response

Error response for create operation. Contains a list of localized messages and validation issues accompanied by the suggested resolution.

Was added in version 2.0.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Schema
issues <i>optional</i>	< validate_create_issue > array
messages <i>optional</i>	< error_message > array

Name	Schema
response_type <i>required</i>	string

job_appliance_forecast_response

Response for appliance capacity or performance forecast. Response will be just an array of one of the child of this definition.

Polymorphism : Inheritance

Discriminator : metric_type

Name	Description	Schema
high_value <i>optional</i>	Estimate for the upper bound forecasted value on that particular time. Was deprecated in version 3.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
low_value <i>optional</i>	Estimate for the lower bound forecasted value on that particular time. Was deprecated in version 3.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
mean_value <i>optional</i>	Estimate for the mean forecasted value on that particular time. Was deprecated in version 3.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
metric_type <i>required</i>	Localized message string corresponding to metric_type. Was added in version 3.0.0.0.	string
response_type <i>required</i>		string
timestamp <i>optional</i>	Date-time of the forecast data. Was deprecated in version 3.0.0.0.	string (date-time)

job_appliance_time_to_full_response

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
appliance_id <i>optional</i>	Unique ID of appliance.	string
end_of_forecast <i>optional</i>	Timestamp of the end of the capacity forecast. If time to full estimates are null, the relevant forecast does not reach full capacity before it ends. In this case the end of the forecast can be used as a minimum for time to full.	string (date-time)
response_type <i>required</i>		string
time_to_full <i>optional</i>	Estimated date-time at which the forecast value will reach full capacity.	string (date-time)
time_to_full_optimistic <i>optional</i>	Optimistic date-time for time to full based on the lower bound of the forecast 95% confidence interval.	string (date-time)
time_to_full_pessimistic <i>optional</i>	Pessimistic date-time for time to full based on the upper bound of the forecast 95% confidence interval.	string (date-time)
time_to_full_status <i>optional</i>		ForecastTimeToFullStatusEnum
time_to_full_status_110n <i>optional</i>	Localized message string corresponding to time_to_full_status	string

job_appliance_validate_create_response

Response for an appliance validate create request. It returns configuration warnings and errors detected during validation and the suggested resolutions.

Was added in version 2.0.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Schema
issues <i>optional</i>	< validate_create_issue > array

Name	Schema
response_type <i>required</i>	string

job_base_capacity_forecast_response

Was added in version 3.0.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
high_value <i>optional</i>	Estimate of the upper bound of the 95% confidence interval for the forecast value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
low_value <i>optional</i>	Estimate of the lower bound of the 95% confidence interval for the forecast value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
mean_value <i>optional</i>	Estimate for the mean forecast value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
response_type <i>required</i>		string
timestamp <i>optional</i>	Timestamp when the associated forecast values apply.	string (date-time)

job_cluster_create_error_response

Error response for create operation. Contains a list of localized messages and a list of validation issues accompanied by the suggested resolution.

Was added in version 2.0.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Schema
issues <i>optional</i>	< validate_create_issue > array
messages <i>optional</i>	< error_message > array
response_type <i>required</i>	string

job_cluster_discover_fc_targets_response

Response from the cluster discover_fc_targets operation. Was added in version 4.0.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
fc_targets <i>optional</i>	FC target addresses for the data connection to the remote system. Must be specified when creating a Generic remote system.	< fc_target_instance > array
response_type <i>required</i>		string

job_cluster_forecast_response

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
high_value <i>optional</i>	Estimate of the upper bound of the 95% confidence interval for the forecast value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
low_value <i>optional</i>	Estimate of the lower bound of the 95% confidence interval for the forecast value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
mean_value <i>optional</i>	Estimate for the mean forecast value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
response_type <i>required</i>		string
timestamp <i>optional</i>	Timestamp when the forecast was performed.	string (date-time)

job_cluster_time_to_full_response

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
cluster_id <i>optional</i>	Unique ID of the cluster.	string
end_of_forecast <i>optional</i>	Timestamp of the end of the capacity forecast. If time to full estimates are null, the relevant forecast does not reach full capacity before it ends. In this case the end of the forecast can be used as a minimum for time to full.	string (date-time)
response_type <i>required</i>		string
time_to_full <i>optional</i>	Estimated date-time at which the forecast value will reach full capacity.	string (date-time)
time_to_full_optimistic <i>optional</i>	Optimistic date-time for time to full based on the lower bound of the forecast 95% confidence interval.	string (date-time)
time_to_full_pessimistic <i>optional</i>	Pessimistic date-time for time to full based on the upper bound of the forecast 95% confidence interval.	string (date-time)
time_to_full_status <i>optional</i>		ForecastTimeToFullStatusEnum

Name	Description	Schema
time_to_full_status_10n <i>optional</i>	Localized message string corresponding to time_to_full_status	string

job_cluster_validate_create_response

Response for a validate create request. It returns configuration warnings and errors detected during validation, as well as suggested resolutions.

Was added in version 2.0.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Schema
issues <i>optional</i>	< validate_create_issue > array
response_type <i>required</i>	string

job_cluster_validate_expand_response

Response for a validate expand request. It returns configuration issues detected for cluster expansion.

Was added in version 4.1.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
expansion_issues <i>optional</i>	A list of configuration issues that block cluster expansion. Example : [{ "issue_type" : "Cluster_Size_Limit_Reached", "reason" : { "code" : "0xE0C010030028", "severity" : "Error", "message_10n" : "Cluster size limit 4 is reached." } }]	< cluster_validate_expand_issue > array
response_type <i>required</i>		string

job_create_response

Create response for an operation.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
id <i>optional</i>	Unique identifier of the new instance created.	string
response_type <i>required</i>		string

job_error_response

Error response for an operation. Contains an array of localized messages.

Polymorphism : Inheritance

Discriminator : response_type

Name	Schema
messages <i>optional</i>	< error_message > array
response_type <i>required</i>	string

job_file_import_session_report_response

File Import Session Report response object. Was added in version 3.0.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
change_log <i>optional</i>	The list of transitions between File Import Session states.	< file_import_session_report_stage_change_log > array

Name	Description	Schema
created_times_tamp <i>optional</i>	The Date and time at when the file import session is created. The date is specified in RFC3339 format with the time expressed in UTC format.	string (date-time)
current_operation <i>optional</i>		FileImportSessionCurrentOperationEnum
current_operation_message <i>optional</i>	Localized message string corresponding to current_operation Was added in version 3.0.0.0.	string
current_operation_progress_percentage <i>optional</i>	File Import Session Report response object. Was added in version 3.0.0.0. Unit : percent Minimum value : 0 Maximum value : 2147483647	integer (int32)
destination_nas_server_id <i>optional</i>	Unique identifier of the destination NAS server to which the destination filesystem will be added. Was added in version 3.5.0.0.	string
destination_resource_id <i>optional</i>	Unique identifier of the destination NAS server to which the destination filesystem will be added. Was deprecated in version 3.5.0.0.	string
estimated_completion_time_stamp <i>optional</i>	Estimated completion time in UTC format. When the import is in the 'Initial_Copy_In_Progress' or 'Incremental_Copy_In_Progress' state, this value indicates the estimated time at which the data copy will complete. Before the import is in the copy state, the value is null.	string (date-time)
file_systems <i>optional</i>	List of filesystems included in the import.	< file_import_session_report_file_system > array
id <i>optional</i>	The unique identifier of the file import session.	string

Name	Description	Schema
latest_failure_messages <i>optional</i>	When the current operation is not progressing normally, these messages will provide additional information on how to remedy the issue. Was added in version 3.2.0.0.	< file_extended_localized_message > array
name <i>optional</i>	User-specified name of the file import session.	string
production_netInterfaces <i>optional</i>	The list of parameters for target production network interfaces.	< file_import_session_report_production_net_interface > array
protocol_type <i>optional</i>		FileImportSessionReportProtocolEnum
protocol_type_l10n <i>optional</i>	Localized message string corresponding to protocol_type Was added in version 3.0.0.0.	string
remote_system_id <i>optional</i>	Unique identifier of the remote system that contains the source NAS Server to be imported	string
response_type <i>required</i>		string
smb_server <i>optional</i>		file_import_session_cutover_smb_properties
source_dhsm_username <i>optional</i>	The user name for authentication to DHSM Server on the source NAS Server required for importing FLR filesystems.	string
source_import_netInterface <i>optional</i>		file_import_session_report_source_net_interface
source_nas_server_name <i>optional</i>	Name of the NAS server at source which is being imported by the file import session.	string

Name	Description	Schema
source_smb_admin_username <i>optional</i>	The user name for authentication to SMB Server on the source NAS Server with admin access.	string
state <i>optional</i>		FileImportSessionStateEnum
state_duration <i>optional</i>		file_import_session_report_current_operation_duration
state_l10n <i>optional</i>	Localized message string corresponding to state Was added in version 3.0.0.0.	string
statistics <i>optional</i>		file_import_session_report_statistics
target_import_netInterface <i>optional</i>		file_import_session_report_target_net_interface
target_nas_server_name <i>optional</i>	Name of the NAS server at target which is being imported by the file import session.	string
warnings <i>optional</i>	The list of Import Session messages.	< file_extended_localized_message > array

job_file_system_clone_response

File system clone created.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
id <i>optional</i>	The unique identifier of the created clone.	string
response_type <i>required</i>		string

job_file_system_restore_response

Backup snapshot of the file system created.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
id <i>optional</i>	The unique identifier of the created snapshot.	string
response_type <i>required</i>		string

job_file_system_snapshot_response

Snapshot file system created.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
id <i>optional</i>	The unique identifier of the created snapshot.	string
response_type <i>required</i>		string

job_file_virus_checker_get_privileged_accounts_response

Response body for file_virus_checker get_privileged_accounts operation. Was added in version 4.0.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
accounts <i>optional</i>	Accounts that currently have AV privilege on the NAS server of this file_virus_checker.	< string > array
response_type <i>required</i>		string

job_file_virus_checker_get_viruschecker_audit_info_response

Virus checker audit info response. Was added in version 4.0.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Schema
entries <i>optional</i>	< entries > array
response_type <i>required</i>	string

entries

Name	Description	Schema
address <i>optional</i>	IP address of the virus checker server. Length : 1 - 45	string
av_engine_name <i>optional</i>	Anti Virus engine name. Length : 0 - 39	string
online <i>optional</i>	Whether virus checker server is online(true) or offline(false)	boolean
remediation_window <i>optional</i>	Some VC engines detect and take an action after returning an error to SDNAS. This 'window' allows SDNAS VC to wait a bit to identify what action was taken, rename(quarantine)/delete/modify(fix). Minimum value : 0 Maximum value : 2147483647	integer (int32)
server_name <i>optional</i>	Virus checker server name. if the virus checker server IP address cannot resolve to a name, the IP address is provided. Length : 1 - 255	string
server_version <i>optional</i>	Version of the virus checker server. Length : 0 - 19	string

Name	Description	Schema
signature_last_update_time <i>optional</i>	Last update time of known virus list.	string (date-time)

job_file_virus_checker_scan_status_response

Virus checker scan status response. Was added in version 4.0.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Schema
response_type <i>required</i>	string
scan_status <i>optional</i>	< scan_status > array

scan_status

Name	Description	Schema
directories_scanned <i>optional</i>	Number of directories scanned. If directory is deleted before it was scanned, it will not be counted and if directory is deleted after it was scanned the counter won't change. Minimum value : 0 Maximum value : 2147483647	integer (int32)
file_system_id <i>optional</i>	Unique identifier of the file system.	string
files_queued <i>optional</i>	Number of files waiting for scan. Minimum value : 0 Maximum value : 2147483647	integer (int32)
files_scanned <i>optional</i>	Number of files scanned. If file is deleted before it was scanned, it will not be counted and if file is deleted after it was scanned the counter won't change. Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
is_scan_offline_files <i>optional</i>	Indicates whether the offline files will be scanned for viruses.	boolean
status <i>optional</i>		FileVirusCheckerStatusEnum

job_import_netapp_volume_import_snapshot_schedules_response

Response object for snapshot schedules of a volume. Was added in version 3.0.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
response_type <i>required</i>		string
schedules <i>optional</i>		import_netapp_snapshot_schedule_instance
snap_policy_name <i>optional</i>	Name of the NetApp snapshot policy.	string

job_import_vmax_storage_group_import_snapshot_policy_response

Response object for snapshot policy of a storage group. Was added in version 3.0.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Schema
profiles <i>optional</i>	import_vmax_snapshot_policy_instance
response_type <i>required</i>	string

job_instance

Information about the job. This resource type has queriable association from job

Name	Description	Schema
children <i>optional</i>	This is the inverse of the resource type job association.	< job_instance > array
description_110n <i>optional</i>	Description of the job.	string
end_time <i>optional</i>	Date and time when the job execution completed.	string (date-time)
estimated_completion_time <i>optional</i>	Estimated completion date and time.	string (date-time)
id <i>optional</i>	Unique identifier of the job.	string
leafs <i>optional</i>	This is the inverse of the resource type job association.	< job_instance > array
parent <i>optional</i>	This is the embeddable reference form of parent_id attribute.	job_instance
parent_id <i>optional</i>	Unique identifier of the parent job, if applicable.	string
phase <i>optional</i>	Was added in version 1.0.2.	JobPhaseEnum
phase_110n <i>optional</i>	Localized message string corresponding to phase Was added in version 1.0.2.	string
progress_percentage <i>optional</i>	Percent complete of the job. Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
resource_action <i>optional</i>		ResourceActionEnum
resource_action_l10n <i>optional</i>	Localized message string corresponding to resource_action	string
resource_id <i>optional</i>	Unique identifier of the resource on which the job is operating.	string
resource_name <i>optional</i>	Name of the resource on which the job is operating. This property supports case-insensitive filtering.	string
resource_type <i>optional</i>		ResourceTypeEnum
resource_type_l10n <i>optional</i>	Localized message string corresponding to resource_type	string
response_body <i>optional</i>		base_response
response_status <i>optional</i>	Was added in version 2.0.0.0.	HttpStatusEnum
response_status_l10n <i>optional</i>	Localized message string corresponding to response_status Was added in version 2.0.0.0.	string
root <i>optional</i>	This is the embeddable reference form of root_id attribute.	job_instance
root_id <i>optional</i>	Unique identifier of the root job, if applicable. The root job is the job at the top of the parent hierarchy.	string
start_time <i>optional</i>	Date and time when the job execution started.	string (date-time)

Name	Description	Schema
state <i>optional</i>	Was deprecated in version 1.0.2.	JobStateEnum
state_l10n <i>optional</i>	Localized message string corresponding to state Was deprecated in version 1.0.2.	string
step_order <i>optional</i>	Order of a given job step with respect to its siblings within the job hierarchy. Minimum value : 0 Maximum value : 2147483647	integer (int32)
user <i>optional</i>	Name of the user associated with the job.	string

job_job_response

Job response for an asynchronous request. The response to any asynchronous request that does not fail immediately.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
id <i>optional</i>	The id of the job created by the request.	string
response_type <i>required</i>		string

job_keystore_archive_regenerate_response

Success response body.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
download_uri <i>optional</i>	A Uniform Resource Identifier which can be used in a subsequent GET request to download the keystore backup archive file.	string

Name	Description	Schema
response_type <i>required</i>		string

job_metrics_archive_generate_response

Was added in version 3.0.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Schema
ids <i>optional</i>	< string > array
response_type <i>required</i>	string

job_migration_recommendation_create_migration_sessions_response

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
migration_session_ids <i>optional</i>	ID of migration sessions created for the recommendation.	< string > array
rescan_host_list <i>optional</i>	IDs of attached hosts that require a rescan to ensure accessibility of migrated storage objects after migrations complete.	< string > array
response_type <i>required</i>		string

job_migration_session_create_response

The response for the create migration operation.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
id <i>optional</i>	Identifier of the migration_session object.	string
rescan_host_ids <i>optional</i>	List of hosts that be rescanned before a migration session can proceed.	< string > array
response_type <i>required</i>		string

job_policy_clone_response

Policy clone response Was added in version 3.0.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
id <i>optional</i>	Unique identifier of the newly created instance.	string
response_type <i>required</i>		string

job_remote_system_query_available_powerstore_networks_response

Response to a query for the available storage networks from the local and remote PowerStore clusters. Was added in version 4.0.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
local_powerstore_networks <i>optional</i>	List of local storage networks that are defined to be used for replication data transfer.	< powerstore_network_info > array

Name	Description	Schema
remote_powerstore_networks <i>optional</i>	List of remote storage networks that are defined to be used for replication data transfer.	< powerstore_network_info > array
response_type <i>required</i>		string

job_replication_rule_clone_response

Replication rule clone response Was added in version 3.0.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
id <i>optional</i>	Unique identifier of the newly created replication rule.	string
response_type <i>required</i>		string

job_replication_session_stop_failover_test_response

Stop disaster recovery (DR) test response. Was added in version 2.0.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
response_type <i>required</i>		string
snapshot_id <i>optional</i>	Identifier of the optional snapshot instance created at the end of the test.	string

job_response

Job response for an asynchronous request. The response to any asynchronous request that does not fail immediately.

Name	Description	Schema
id <i>optional</i>	The id of the job created by the request.	string

job_security_config_generate_temp_credentials_response

Response for generating temporary credentials. Was added in version 4.1.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
client_id <i>optional</i>	Unique identifier of the client.	string
response_type <i>required</i>		string
secret <i>optional</i>	Secret of the client.	string (password)

job_smb_share_get_acl_response

Was added in version 3.5.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
aces <i>optional</i>	List of ACEs (access control entries) specifying identities and their access rights to the SMB Share.	< smb_share_ace > array
response_type <i>required</i>		string

job_snapshot_rule_clone_response

Snapshot rule clone response Was added in version 3.0.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
id <i>optional</i>	Unique identifier of the newly created snapshot rule.	string
response_type <i>required</i>		string

job_virtual_machine_snapshot_response

The response to a virtual_machine snapshot request.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
id <i>optional</i>	Unique id of the new snapshot.	string
response_type <i>required</i>		string

job_volume_clone_response

Unique identifier of the new clone volume.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
id <i>optional</i>	Unique identifier of the new clone volume.	string
response_type <i>required</i>		string

job_volume_configure_metro_response

Response information from a volume metro configuration operation. Was added in version 3.0.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
metro_replication_session_id <i>optional</i>	Unique metro replication session identifier of the newly configured volume.	string
response_type <i>required</i>		string

job_volume_group_clone_response

Response for volume group clone action

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
id <i>optional</i>	Unique identifier of the new instance created.	string
response_type <i>required</i>		string

job_volume_group_configure_metro_response

Response information from a volume group metro configuration operation. Was added in version 4.0.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
metro_replication_session_id <i>optional</i>	Unique metro replication session identifier of the newly configured metro volume group.	string
response_type <i>required</i>		string

job_volume_group_refresh_response

Volume group refresh response.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
backup_snaps_hot_id <i>optional</i>	Unique identifier of the backup snapshot set. This parameter will not be available if the create_backup_snap flag was set to false.	string
response_type <i>required</i>		string

job_volume_group_restore_response

Volume group restore response.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
backup_snaps_hot_id <i>optional</i>	Unique identifier of the backup snapshot set. This parameter will not be available if the create_backup_snap was set to false.	string
response_type <i>required</i>		string

job_volume_group_snapshot_response

Unique identifier of the new snapshot volume.

Polymorphism : Inheritance

Discriminator : response_type

Name	Schema
id <i>optional</i>	string
response_type <i>required</i>	string

job_volume_refresh_response

Volume refresh response definition.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
backup_snaps_hot_id <i>optional</i>	Unique identifier of the backup snapshot of the target volume, if one is created prior to the refresh operation.	string
response_type <i>required</i>		string

job_volume_restore_response

Volume restore response definition.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
backup_snaps_hot_id <i>optional</i>	Unique identifier of the backup snapshot of the target volume, if one is created prior to the restore operation.	string
response_type <i>required</i>		string

job_volume_snapshot_response

Volume snapshot response definition.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
id <i>optional</i>	Unique identifier of the new snapshot.	string
response_type <i>required</i>		string

job_vvol_error_response

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
description <i>optional</i>		string
error_code <i>optional</i>	Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_type <i>required</i>		string

job_x509_certificate_csr_response

CSR response. Was added in version 2.0.0.0.

Polymorphism : Inheritance

Discriminator : response_type

Name	Description	Schema
certificate_request <i>optional</i>	PEM encoded certificate signing request.	string
id <i>optional</i>	Unique ID of x509_certificate.	string
is_current <i>optional</i>	Indicates whether this is the current X509 certificate to be used by the service or this X509 certificate will be used in the future. When is_current is false for a X509 Certificate, this X509 Certificate will not be picked up by the service. Potential usage of this attribute is to prepare for the certificate roll-over/rotation.	boolean
is_valid <i>optional</i>	Indicate whether this is a valid X509 Certificate. When X509 certificate is expired or X509 Certificate of server type missing either a private key or a valid certificate entry, it will be false.	boolean

Name	Description	Schema
members <i>optional</i>	Member certificates included in this x509_certificate. It will be empty in csr creation response.	< member_certificate_instance > array
response_type <i>required</i>		string
scope <i>optional</i>	Scope defines a subset of certificates belonging to one service. Scope here defines what Certificate Signing Request (CSR) can be generated. The scope for CSR Response only includes: - Certificate with Service Management_HTTP and Type of Server, Scope value can only be External - Certificate with Service VASA_HTTP and Type of Server, Scope value can be null(unused and optional) - Certificate with Service KMIP_HTTP and Type of Client, Scope value can be null(unused and optional) - Certificate with Service Syslog_HTTP and Type of Client, Scope value can be null(unused and optional)	string
service <i>optional</i>		X509CertificateServiceEnum
service_l10n <i>optional</i>	Localized message string corresponding to service Was added in version 2.0.0.0.	string
type <i>optional</i>		X509CertificateUsageTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type Was added in version 2.0.0.0.	string

keystore_archive_instance

A keystore archive file.

Name	Description	Schema
data <i>optional</i>	A keystore archive file which includes the individual keystore backup files from each appliance in the cluster.	string (binary)

keystore_archive_regenerate_response

Success response body.

Name	Description	Schema
download_uri <i>optional</i>	A Uniform Resource Identifier which can be used in a subsequent GET request to download the keystore backup archive file.	string

kmip_config_instance

Was added in version 3.0.0.0.

Name	Description	Schema
id <i>optional</i>	Unique identifier for this instance.	string
is_enabled <i>optional</i>	Whether KMIP is enabled. At least one member (KMIP servers) must be defined to enable KMIP.	boolean
port <i>optional</i>	Port number for establishing connection to a KMIP server (defaults to 5696). Minimum value : 0 Maximum value : 2147483647	integer (int32)
server_timeout <i>optional</i>	Timeout in seconds for establishing a connection to a KMIP server. If the system does not receive a reply from the KMIP server before the specified timeout, it stops sending requests. Default value is 5 (5 seconds). Minimum value : 0 Maximum value : 2147483647	integer (int32)
servers <i>optional</i>	Array of member KMIP servers with the address and status of each. Filtering on the fields of this embedded resource is not supported.	< kmip_config_member_instance > array
username <i>optional</i>	Username for accessing the KMIP server.	string

kmip_config_member_instance

Was added in version 3.0.0.0.

Name	Description	Schema
address <i>optional</i>	Network address of a KMIP server. It may be specified as IPv4, IPv6, or as a host name.	string (ip-address)

Name	Description	Schema
status <i>optional</i>		KMIPConfigStatusEnum
status_l10n <i>optional</i>	Localized message string corresponding to status Was added in version 3.0.0.0.	string

kmip_config_modify

Was added in version 3.0.0.0.

Name	Description	Schema
add_servers <i>optional</i>	Add KMIP server addresses. Addresses may be IPv4, IPv6, or host names. Note, members may be removed and added as a combined operation call but they are executed sequentially. The remove_members operation will be run BEFORE the add_members operation.	< string (ip-address) > array
is_enabled <i>optional</i>	Whether KMIP is enabled. To enable KMIP, at least one operational member server must be defined.	boolean
password <i>optional</i>	Password for accessing the KMIP server.	string (password)
port <i>optional</i>	Port number for establishing connection to a KMIP server (defaults to 5696). Minimum value : 0 Maximum value : 2147483647	integer (int32)
remove_servers <i>optional</i>	Remove KMIP server addresses. Note, members may be removed and added as a combined operation call but they are executed sequentially. The remove_members operation will be run BEFORE the add_members operation.	< string (ip-address) > array
server_timeout <i>optional</i>	Timeout for establishing a connection to a KMIP server. If the system does not receive a reply from the KMIP server before the specified timeout, it stops sending requests. Default value is 5 (5 seconds). Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
servers <i>optional</i>	Replace all of the KMIP server addresses. Addresses may be IPv4, IPv6, or host names. Replace operation is mutually exclusive and is NOT allowed to be combined with add/remove_members operations.	< string (ip-address) > array
username <i>optional</i>	Username for accessing the KMIP server.	string

l2_discovery_details_instance

Link local discovery information received from the uplink port. Was added in version 4.1.0.0. Filtering on the fields of this embedded resource is not supported.

Name	Description	Schema
remote_description <i>optional</i>	Description of the remote switch.	string
remote_mac <i>optional</i>	Remote switch MAC address.	string
remote_mtu <i>optional</i>	MTU of the remote switch. Minimum value : 0 Maximum value : 2147483647	integer (int32)
remote_name <i>optional</i>	Name of the remote switch.	string
remote_native_vlan <i>optional</i>	Native VLAN of the remote switch. Minimum value : 0 Maximum value : 2147483647	integer (int32)
remote_port_name <i>optional</i>	Name of the interface of the port.	string

ldap_account_create

Parameters for creating an LDAP account. Was added in version 1.0.3.

Name	Description	Schema
domain_id <i>required</i>	Unique identifier of the LDAP domain to which LDAP user or group belongs. Example : "1"	string
name <i>required</i>	Name of the new LDAP account to be created. The name value can be 1 to 64 UTF-8 characters long, and may only use alphanumeric characters. Dot(.) is the only special character allowed. The name value has to match to the LDAP user or group in LDAP server to which the LDAP account is mapped. Length : 1 - 1023 Example : "testAdmin"	string
role_id <i>required</i>	Unique identifier of the role to which the new LDAP account will be mapped. Example : "1"	string
type <i>optional</i>		LDAPAccountTypeEnum

ldap_account_instance

Information about an LDAP account. Was added in version 1.0.3.

Name	Description	Schema
dn <i>optional</i>	Distinguished name for LDAP user or group from which the LDAP account is mapped. Example : "uid=testAdmin,OU=People,DC=ns,DC=com"	string
domain_id <i>optional</i>	Unique identifier of the LDAP domain to which the LDAP account belongs. Example : "1"	string
id <i>optional</i>	Unique identifier of the LDAP account. Example : "1"	string
name <i>optional</i>	Name of the LDAP account. Example : "testAdmin"	string
role_id <i>optional</i>	Unique identifier of the role to which the LDAP account is mapped. Example : "1"	string

Name	Description	Schema
type <i>optional</i>		LDAPAccountTypeEnum
type_110n <i>optional</i>	Localized message string corresponding to type Was added in version 1.0.3.	string

ldap_account_modify

Parameters for modifying an LDAP account. Was added in version 1.0.3.

Name	Description	Schema
role_id <i>optional</i>	Unique identifier of the new role to which the LDAP account will be mapped. The current login session cannot change its own role. Example : "1"	string

ldap_domain_create

Create parameters of LDAP domain. Was added in version 1.0.3.

Name	Description	Schema
bind_password <i>required</i>	Password to use when binding a new LDAP session. Length : 1 - 1023 Example : "ExamplePasswordHere"	string (password)
bind_user <i>required</i>	Distinguished Name (DN) of the user to be used when binding; that is, authenticating and setting up the connection to the LDAP Server. Length : 1 - 1023 Example : "administrator@mycompany.com"	string
domain_name <i>required</i>	Name of the LDAP authority to construct the LDAP server configuration. Length : 1 - 1023 Example : "mycompany.com"	string
group_member_attribute <i>optional</i>	Name of the LDAP attribute whose value contains the names of group members within a group. Default value is member. Length : 1 - 1023 Example : "member"	string

Name	Description	Schema
group_name_attribute <i>optional</i>	Name of the LDAP attribute whose value indicates the group name. Default value is cn. Length : 1 - 1023 Example : "cn"	string
group_object_class <i>optional</i>	LDAP object class for groups. Default value is group. In Active Directory, groups and users are stored in the same directory path, and are in a class called group. Default value is group. Length : 1 - 1023 Example : "group"	string
group_search_level <i>optional</i>	Nested search level for performing group search. Default value is 0 (no nested search level limitation). Minimum value : 0 Maximum value : 65535 Example : 2	integer (int32)
group_search_path <i>required</i>	Path used to search for groups on the directory server. Search path is empty, if global catalog is enabled. Length : 0 - 1023 Example : "OU=nested,DC=mycompany,DC=com"	string
is_global_catalog <i>optional</i>	Whether or not the catalog is global. Default value is false. Example : false	boolean
ldap_server_type <i>optional</i>		LDAPServerTypeEnum
ldap_servers <i>required</i>	List of IP addresses of the LDAP servers for the domain. IP addresses are in IPv4 or IPv6 format. Example : ["10.244.24.187", "10.244.24.188", "2620:0:170:7724:b88d:fe7f:61a6:d0e5"]	< string (ip-address) > array
ldap_timeout <i>optional</i>	Timeout for establishing a connection to an LDAP server in milliseconds. If the system does not receive a reply from the LDAP server after the specified timeout, it stops sending requests. Default value is 30000 (30 seconds). Minimum value : 0 Maximum value : 170000 Example : 30000	integer (int32)

Name	Description	Schema
port <i>optional</i>	Port number used to connect to the LDAP Server. Default values are LDAP(389), LDAPs(636), GlobalCatalog LDAP(3268), Global Catalog LDAPs(3269). Minimum value : 0 Maximum value : 65535 Example : 389	integer (int32)
protocol <i>optional</i>		LDAPProtocolEnum
user_id_attribute <i>optional</i>	Name of the LDAP attribute whose value indicates the unique identifier of the user. Default value is sAMAccountName. Length : 1 - 1023 Example : "sAMAccountName"	string
user_object_class <i>optional</i>	LDAP object class for users. Default value is user. Length : 1 - 1023 Example : "user"	string
user_search_path <i>required</i>	Path used to search for users on the directory server. Search path is empty, if global catalog is enabled. Length : 0 - 1023 Example : "OU=nested,DC=mycompany,DC=com"	string

ldap_domain_instance

Information about an LDAP domain. Was added in version 1.0.3.

Name	Description	Schema
bind_user <i>optional</i>	Distinguished Name (DN) of the user to be used when binding; that is, authenticating and setting up the connection to the LDAP Server. Example : "administrator@mycompany.com"	string
domain_name <i>optional</i>	Name of the LDAP authority to construct the LDAP server configuration. Example : "mycompany.com"	string
group_member_attribute <i>optional</i>	Name of the LDAP attribute whose value contains the names of group members within a group. Default value is member. Example : "member"	string

Name	Description	Schema
group_name_attribute <i>optional</i>	Name of the LDAP attribute whose value indicates the group name. Default value is cn. Example : "cn"	string
group_object_class <i>optional</i>	LDAP object class for groups. Default value is group. In Active Directory, groups and users are stored in the same directory path, and are in a class called group. Default value is group. Example : "group"	string
group_search_level <i>optional</i>	Nested search level for performing group search. Default value is 0 (no nested search level limitation). Minimum value : 0 Maximum value : 2147483647 Example : 2	integer (int32)
group_search_path <i>optional</i>	Path used to search for groups on the directory server. Example : "OU=nested,DC=mycompany,DC=com"	string
id <i>optional</i>	Unique identifier of the new LDAP server configuration. Example : "1"	string
is_global_catalog <i>optional</i>	Whether or not the catalog is global. Default value is false. Example : false	boolean
ldap_server_type <i>optional</i>		LDAPServerTypeEnum
ldap_server_type_localization <i>optional</i>	Localized message string corresponding to ldap_server_type Was added in version 1.0.3.	string
ldap_servers <i>optional</i>	List of IP addresses of the LDAP servers for the domain. IP addresses are in IPv4 or IPv6 format. Example : ["10.244.24.187", "10.244.24.188", "2620:0:170:7724:b88d:fe7f:61a6:d0e5"]	< string (ip-address) > array

Name	Description	Schema
ldap_timeout <i>optional</i>	Timeout for establishing a connection to an LDAP server in milliseconds. If the system does not receive a reply from the LDAP server after the specified timeout, it stops sending requests. Default value is 30000 (30 seconds). Minimum value : 0 Maximum value : 170000 Example : 1000	integer (int32)
port <i>optional</i>	Port number used to connect to the LDAP server(s). Default values are LDAP(389), LDAPS(636), GlobalCatalog LDAP(3268), Global Catalog LDAPS(3269). Minimum value : 0 Maximum value : 2147483647 Example : 389	integer (int32)
protocol <i>optional</i>		LDAPProtocolEnum
protocol_l10n <i>optional</i>	Localized message string corresponding to protocol Was added in version 1.0.3.	string
user_id_attribute <i>optional</i>	Name of the LDAP attribute whose value indicates the unique identifier of the user. Default value is sAMAccountName. Example : "sAMAccountName"	string
user_object_class <i>optional</i>	LDAP object class for users. Default value is user. Example : "user"	string
user_search_path <i>optional</i>	Path used to search for users on the directory server. Example : "OU=nested,DC=mycompany,DC=com"	string

ldap_domain_modify

Modifiable parameters of LDAP domain.

Name	Description	Schema
bind_password <i>optional</i>	Password to use when binding a new LDAP session. Length : 1 - 1023 Example : "ExamplePasswordHere"	string (password)

Name	Description	Schema
bind_user <i>optional</i>	Distinguished Name (DN) of the user to be used when binding; that is, authenticating and setting up the connection to the LDAP Server. Length : 1 - 1023 Example : "administrator@mycompany.com"	string
group_member_attribute <i>optional</i>	Name of the LDAP attribute whose value contains the names of group members within a group. Default value is member. Length : 1 - 1023 Example : "member"	string
group_name_attribute <i>optional</i>	Name of the LDAP attribute whose value indicates the group name. Default value is cn. Length : 1 - 1023 Example : "cn"	string
group_object_class <i>optional</i>	LDAP object class for groups. Default value is group. In Active Directory, groups and users are stored in the same directory path, and are in a class called group. Default value is group. Length : 1 - 1023 Example : "group"	string
group_search_level <i>optional</i>	Nested search level for performing group search. Default value is 0 (no nested search level limitation) Minimum value : 0 Maximum value : 65535 Example : 2	integer (int32)
group_search_path <i>optional</i>	Path used to search for groups on the directory server. Search path is empty, if global catalog is enabled. Length : 0 - 1023 Example : "OU=nested,DC=mycompany,DC=com"	string
is_global_catalog <i>optional</i>	Whether or not the catalog is global. Default value is false. Example : false	boolean
ldap_server_type <i>optional</i>		LDAPServerTypeEnum

Name	Description	Schema
ldap_servers <i>optional</i>	List of IP addresses of the LDAP servers for the domain. IP addresses are in IPv4 or IPv6 format. Example : ["10.244.24.187", "10.244.24.188", "2620:0:170:7724:b88d:fe7f:61a6:d0e5"]	< string (ip-address) > array
ldap_timeout <i>optional</i>	Timeout for establishing a connection to an LDAP server in milliseconds. If the system does not receive a reply from the LDAP server after the specified timeout, it stops sending requests. Default value is 30000 (30 seconds). Minimum value : 0 Maximum value : 170000 Example : 1000	integer (int32)
port <i>optional</i>	Port number used to connect to the LDAP Server. Default values are LDAP(389), LDAPs(636), GlobalCatalog LDAP(3268), Global Catalog LDAPs(3269). Minimum value : 0 Maximum value : 65535 Example : 389	integer (int32)
protocol <i>optional</i>		LDAPProtocolEnum
user_id_attribute <i>optional</i>	Name of the LDAP attribute whose value indicates the unique identifier of the user. Default value is sAMAccountName. Length : 1 - 1023 Example : "sAMAccountName"	string
user_object_class <i>optional</i>	LDAP object class for users. Default value is user. Length : 1 - 1023 Example : "user"	string
user_search_path <i>optional</i>	Path used to search for users on the directory server. Search path is empty, if global catalog is enabled. Length : 0 - 1023 Example : "OU=nested,DC=mycompany,DC=com"	string

license_instance

Software license information for the cluster. Values was added in 3.5.0.0: license_type.

Name	Description	Schema
activation_file_content <i>optional</i>	The content of the license activation file to send to the Dell Software Licensing Central to retrieve the software license for the cluster.	string
id <i>optional</i>	Unique identifier of the cluster license.	string
is_licensed <i>optional</i>	Whether or not the cluster currently has a valid license.	boolean
license_type <i>optional</i>	Was added in version 3.5.0.0.	LicenseTypeEnum
license_type_10n <i>optional</i>	Localized message string corresponding to license_type Was added in version 3.5.0.0.	string
trial_expiration_timestamp <i>optional</i>	If not currently licensed, the date the trial period expires. If the trial period expires, new provisioning operations will not be allowed.	string (date-time)

local_user_create

Parameters for creating a local user.

Name	Description	Schema
is_mfa_bypass <i>optional</i>	If true, multi-factor authentication (MFA) will not apply to this account. Only applies when MFA is enabled. Was added in version 3.5.0.0. Default : <code>false</code>	boolean
name <i>required</i>	Name of the new local user account to be created. The name value can be 1 to 64 UTF-8 characters long, and may only use alphanumeric characters. Dot(.) is the only special character allowed. Length : <code>1 - 64</code>	string

Name	Description	Schema
password <i>required</i>	Password for the new local user account to be created. The password value can be 8 to 40 UTF-8 characters long, and include as a minimum one uppercase character, one lowercase character, one numeric character, and one special character from (!, @\$%^*?_~). Length : 8 - 40	string (password)
role_id <i>required</i>	The unique identifier of the role to which the new local user will be mapped. Where role_id "1" is for Administrator, "2" is for Storage Administrator, "3" is for Operator, "4" is for VM Administrator and "5" is for Security Administrator roles.	string

local_user_instance

Information about a local user.

Name	Description	Schema
id <i>optional</i>	Unique identifier of the local user account.	string
is_built_in <i>optional</i>	Whether the user account is built-in or not.	boolean
is_default_password <i>optional</i>	Whether the user account has a default password or not. Only applies to default user accounts.	boolean
is_locked <i>optional</i>	Whether the user account is locked or not. Defaults to false at creation time.	boolean
is_mfa_bypass <i>optional</i>	If true, multi-factor authentication (MFA) will not apply to this account. Only applies when MFA is enabled. Was added in version 3.5.0.0.	boolean
mfa_alias <i>optional</i>	This is the user name that will be transmitted to the MFA service to identify this local user. The field is constructed with local username and the cluster's unique identifier. It is immutable and has the following format localUserName@clusterGlobalID. The clusterGlobalID value is available in the global_id property of the cluster resource. Was added in version 3.5.0.0.	string

Name	Description	Schema
name <i>optional</i>	Name of the local user account.	string
password_expiration_timestamp <i>optional</i>	Timestamp when the password will expire. Was added in version 3.0.0.0.	string (date-time)
role_id <i>optional</i>	Unique identifier of the role local user account is mapped to.	string

local_user_modify

Name	Description	Schema
current_password <i>optional</i>	Current password of the local user. Any local user can change his own password by providing current_password along with the new password.	string (password)
is_locked <i>optional</i>	Lock or unlock the local user account. Local user with administration/security administration role can lock or unlock any other local user account. You cannot lock an account you are currently logged-in to.	boolean
is_mfa_bypass <i>optional</i>	If true, multi-factor authentication (MFA) will not apply to this account. Only applies when MFA is enabled. Was added in version 3.5.0.0.	boolean
password <i>optional</i>	New password of the local user. Local user with administrator or security administrator role can reset the password of other local user accounts without providing the current password. You cannot reset the password of the account you are currently logged-in to. Length : 8 - 40	string (password)
role_id <i>optional</i>	The unique identifier of the new role to which the local user has to be mapped. Where role_id "1" is for Administrator, "2" is for Storage Administrator, "3" is for Operator, "4" is for VM Administrator and "5" is for Security Administrator. A local user with either an administration or a security administration role can change the role of any other local user. You cannot change the role of the account you are currently logged-in to.	string

location_history_instance

Storage resource location history. All entries are kept indefinitely and are removed when the resource object is deleted.

Name	Description	Schema
from_appliance_id <i>optional</i>	Unique identifier of the appliance from which the volume was relocated.	string
migrated_on <i>optional</i>	Time when the storage resource location changed.	string (date-time)
reason <i>optional</i>		LocationHistoryReasonEnum
reason_message <i>optional</i>	Localized message string corresponding to reason	string
to_appliance_id <i>optional</i>	Unique identifier of the appliance to which the volume was relocated.	string

login_banner_instance

Was added in version 2.1.0.0.

Name	Description	Schema
banner_text <i>optional</i>	Text to be shown on login page.	string
id <i>optional</i>	Unique identifier of the login banner.	string
is_enabled <i>optional</i>	Indicates whether the login banner should be shown.	boolean

login_banner_modify

Was added in version 2.1.0.0.

Name	Description	Schema
banner_text <i>optional</i>	Text to be shown on login page.	string
is_enabled <i>optional</i>	Indicates whether the login banner should be shown.	boolean

login_session_instance

Name	Description	Schema
id <i>optional</i>	Unique identifier of the login session.	string
idle_timeout <i>optional</i>	Remaining idle time until the session will expire, in seconds. Minimum value : 0 Maximum value : 2147483647	integer (int32)
is_built_in_user <i>optional</i>	Indicates whether the logged-in user is predefined.	boolean
is_password_change_required <i>optional</i>	Indicates whether the logged-in user requires a password change.	boolean
role_ids <i>optional</i>	Roles to which the logged-in user is mapped.	< string > array
user <i>optional</i>	Fully qualified user account name being used to log in.	string

maintenance_window_instance

This resource type has queriable association from appliance

Name	Description	Schema
appliance <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	appliance_instance

Name	Description	Schema
appliance_id <i>optional</i>	Appliance id on which this maintenance window is configured.	string
end_time <i>optional</i>	Time when the maintenance window will close (or did close).	string (date-time)
id <i>optional</i>	Unique identifier of the maintenance window.	string
is_enabled <i>optional</i>	Whether the maintenance window is active.	boolean

maintenance_window_modify

Name	Description	Schema
end_offset <i>optional</i>	undefined Unit : seconds Minimum value : 0 Maximum value : 432000	integer (int32)
is_enabled <i>optional</i>	Activate or deactivate the window for one appliance.	boolean

member_certificate_instance

Embedded member certificate in x509_certificate.

Name	Description	Schema
certificate <i>optional</i>	Base64 encoded certificate without any line breaks.	string
depth <i>optional</i>	Depth indicates the position of this member certificate in the X509 Certificate chain. End-entity certificate will always have a depth of 1, which is the minimum value for depth. The depth of direct issuer certificate will be incremented by 1 until reaching the root certificate. Root certificate should have the largest depth for the certificate chain. Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
issuer <i>optional</i>	Distinguished name of the certificate issuer.	string
key_length <i>optional</i>	Private key length. Minimum value : 0 Maximum value : 2147483647	integer (int32)
public_key_algorithm <i>optional</i>	Public key algorithm used to generate the key pair.	string
serial_number <i>optional</i>	Certificate serial number.	string
signature_algorithm <i>optional</i>	Certificate signature algorithm.	string
subject <i>optional</i>	Certificate subject or so called distinguished name.	string
subject_alternative_names <i>optional</i>	Additional DNS names or IP addresses in the x509_certificate.	< string > array
thumbprint <i>optional</i>	Hash value of the certificate.	string
thumbprint_algorithm <i>optional</i>		ThumbprintAlgorithmEnum
thumbprint_algorithm_110n <i>optional</i>	Localized message string corresponding to thumbprint_algorithm	string
valid_from <i>optional</i>	Date and time when the certificate becomes valid.	string (date-time)
valid_to <i>optional</i>	Date and time when the certificate will expire.	string (date-time)

member_details_instance

Details of one member volume and its corresponding snapshot info for volume_group sessions.

Was added in version 3.5.0.0.

Name	Description	Schema
local_snap_id <i>optional</i>	The unique identifier of the local snapshot of the volume that is being copied to or from. For instant_access session, this will be null.	string
volume_id <i>optional</i>	The local member volume unique identifier. For instant_access session, this will be unique identifier of the proxy volume through which remote backup snapshot is accessed.	string

metrics_archive_file

A metrics archive file. Was added in version 3.0.0.0.

Name	Description	Schema
data <i>optional</i>	A metrics archive zip file.	string (binary)

metrics_archive_generate

Generate a metrics archive. Was added in version 3.0.0.0.

Name	Description	Schema
archive_from_timestamp <i>optional</i>	The date and time from which the archive data begins. If not specified, earliest available archive time will be used.	string (date-time)
archive_to_timestamp <i>optional</i>	The date and time up to which the archive data covers. The default is the time of creation.	string (date-time)

metrics_archive_generate_response

Was added in version 3.0.0.0.

Name	Schema
ids <i>optional</i>	< string > array

metrics_archive_instance

Properties of a metrics archive instance. Was added in version 3.0.0.0.

Name	Description	Schema
archive_from_timestamp <i>optional</i>	The date and time from which the archive data begins.	string (date-time)
archive_to_timestamp <i>optional</i>	The date and time up to which the archive data covers.	string (date-time)
download_uri <i>optional</i>	The URI to use for downloading the archive. Example : <code>"/api/rest/metrics_archive/5d35bfb2-6b1b-4c4c-a7ea-09f380c4b409/download"</code>	string
downloaded_timestamp <i>optional</i>	The last date and time that this archive was downloaded.	string (date-time)
id <i>optional</i>	Unique identifier for this instance.	string
name <i>optional</i>	Archive filename. This property supports case-insensitive filtering.	string
size <i>optional</i>	The size of the archive in bytes. Minimum value : <code>0</code> Maximum value : <code>9223372036854775807</code>	integer (int64)

metrics_generate

Metrics for specified entity

Name	Description	Schema
entity <i>required</i>		MetricsEntityEnum

Name	Description	Schema
entity_id <i>required</i>	Identifier for specific entity.	string
interval <i>optional</i>		MetricsIntervalEnum

metrics_generate_response

Response will be just an array of one of the child of this definition

Name	Description	Schema
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
response_definition <i>required</i>	Response definition for the entity.	string

mfa_cacpiv_create

Arguments to an mfa_cacpiv create operation. Was added in version 4.1.0.0.

Name	Description	Schema
is_enabled <i>required</i>	Whether or not this MFA service is enabled. While not enabled, accounts and services using this MFA service will not be able to authenticate. Once enabled, CAC/PIV cannot be disabled.	boolean

mfa_cacpiv_instance

Properties of an mfa_cacpiv resource. Was added in version 4.1.0.0.

Name	Description	Schema
connection_timeout <i>optional</i>	Properties of an mfa_cacpiv resource. Was added in version 4.1.0.0. Unit : millisecond Default : 2500 Minimum value : 500 Maximum value : 4000	integer (int32)
crl_url <i>optional</i>	URL for certificate revocation list in order to check the CAC/PIV certificate validity. It overrides the CRL URL in the certificate.	string
id <i>optional</i>	Unique identifier of an mfa_cacpiv resource. Note there is at most one instance of mfa_cacpiv.	string
is_enabled <i>optional</i>	Whether or not this MFA service is enabled. While not enabled, accounts and services using this MFA service will not be able to authenticate.	boolean
ocsp_url <i>optional</i>	URL for online certificate status protocol in order to check the CAC/PIV certificate validity. It overrides the OCSP URL in the certificate.	string
read_timeout <i>optional</i>	Properties of an mfa_cacpiv resource. Was added in version 4.1.0.0. Unit : millisecond Default : 2500 Minimum value : 500 Maximum value : 4000	integer (int32)

mfa_cacpiv_modify

Arguments to an mfa_cacpiv modify operation. Was added in version 4.1.0.0.

Name	Description	Schema
is_enabled <i>optional</i>	Whether or not this MFA service is enabled. While not enabled, accounts and services using this MFA service will not be able to authenticate. Once enabled, CAC/PIV cannot be disabled.	boolean

mfa_securid_create

Arguments to an mfa_securid create operation. Was added in version 3.5.0.0.

Name	Description	Schema
access_key <i>required</i>	Access Key associated with RSA SecurID Authentication API. This value is passed in as the 'client-key' REST header to the RSA authentication manager. Maximal length : 128	string (password)
ca_certificate <i>required</i>	The PEM-encoded CA certificate for validating SSL communication with the SecurID service. This is a convenience argument that takes the place of using x509-certificates create, and setting the service to SECURID_HTTP, and scope to the id of this instance.	string
client_id <i>required</i>	Unique identifier of this system as a client of SecurID, assigned by SecurID service. Maximal length : 256	string
connection_timeout <i>optional</i>	Arguments to an mfa_securid create operation. Was added in version 3.5.0.0. Unit : milliseconds Default : 5000 Minimum value : 1 Maximum value : 30000	integer (int32)
is_enabled <i>optional</i>	Whether or not this MFA service is enabled. While not enabled, accounts and services using this MFA service will not use MFA. Default : true	boolean
name <i>optional</i>	Unique name (at system level) for this MFA service. Maximal length : 128	string
read_timeout <i>optional</i>	Arguments to an mfa_securid create operation. Was added in version 3.5.0.0. Unit : milliseconds Default : 5000 Minimum value : 1 Maximum value : 30000	integer (int32)

Name	Description	Schema
rsa_token <i>optional</i>	RSA token value used to verify the configuration. Was added in version 4.1.0.0. Maximal length : 16	string
rsa_username <i>optional</i>	User name used to verify the configuration. The name format must be as registered on the RSA Authentication Manager. Was added in version 4.1.0.0. Maximal length : 128	string
server_urls <i>required</i>	List of URLs to access the SecurID service. In this release, only one URL is allowed.	< string (uri) > array

mfa_securid_instance

Properties of an mfa_securid resource. Was added in version 3.5.0.0.

Name	Description	Schema
client_id <i>optional</i>	Unique identifier of this system as a client of SecurID, assigned by SecurID service. Maximal length : 50	string
connection_timeout <i>optional</i>	Properties of an mfa_securid resource. Was added in version 3.5.0.0. Unit : milliseconds Minimum value : 0 Maximum value : 2147483647	integer (int32)
id <i>optional</i>	Unique identifier of an mfa_securid resource.	string
is_enabled <i>optional</i>	Whether or not this MFA service is enabled. While not enabled, accounts and services using this MFA service will not use MFA.	boolean
name <i>optional</i>	Unique name (at system level) for this MFA service. Maximal length : 128	string

Name	Description	Schema
read_timeout <i>optional</i>	Properties of an mfa_securid resource. Was added in version 3.5.0.0. Unit : milliseconds Minimum value : 0 Maximum value : 2147483647	integer (int32)
server_urls <i>optional</i>	List of URLs to access the SecurID service. In this release, only one URL is allowed.	< string (uri) > array
status <i>optional</i>		MfaSecuridStatusEnum
status_l10n <i>optional</i>	Localized message string corresponding to status Was added in version 3.5.0.0.	string

mfa_securid_modify

Arguments to an mfa-securid modify operation. Was added in version 3.5.0.0.

Name	Description	Schema
access_key <i>optional</i>	Key associated with the Authentication Manager, assigned by SecurID service. Maximal length : 128	string (password)
client_id <i>optional</i>	Unique identifier of this system as a client of SecurID, assigned by SecurID service. Maximal length : 256	string
connection_timeout <i>optional</i>	Arguments to an mfa-securid modify operation. Was added in version 3.5.0.0. Unit : milliseconds Minimum value : 1 Maximum value : 30000	integer (int32)
is_enabled <i>optional</i>	Whether or not this MFA service is enabled. While not enabled, accounts and services using this MFA service will not use MFA.	boolean
name <i>optional</i>	Unique name (at system level) for this MFA service. Maximal length : 128	string

Name	Description	Schema
read_timeout <i>optional</i>	Arguments to an mfa-securid modify operation. Was added in version 3.5.0.0. Unit : milliseconds Minimum value : 1 Maximum value : 30000	integer (int32)
rsa_token <i>optional</i>	RSA token value used to verify the configuration. Was added in version 4.1.0.0. Maximal length : 16	string
rsa_username <i>optional</i>	User name used to verify the configuration. The name format must be as registered on the RSA Authentication Manager. Was added in version 4.1.0.0. Maximal length : 128	string
server_urls <i>optional</i>	List of URLs to access the SecurID service. In this release, only one URL is allowed.	< string (uri) > array

mfa_service_ref

Contains the type and identifier information that is used to reference an instance of MFA service.

Was added in version 3.5.0.0. Filtering on the fields of this embedded resource is not supported.

Name	Description	Schema
id <i>required</i>	Unique identifier of MFA service instance.	string
type <i>required</i>		MFAServiceTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type Was added in version 3.5.0.0.	string

migration_recommendation_action

A recommended migration action.

Name	Description	Schema
action_state <i>required</i>		MigrationRecommendationActionStateEnum
action_state_l10n <i>optional</i>	Localized message string corresponding to action_state	string
active <i>optional</i>	Whether this migration action is active or not. New recommendations will consist entirely of active recommendations but this may be changed with the modify operation. Was added in version 2.0.0.0.	boolean
connected_appliance_ids <i>optional</i>	List of appliance ids to which the host attached to this resource has connectivity. Was added in version 2.0.0.0.	< string > array
cost <i>required</i>	Unitless value describing estimated cost to perform relative to other migration actions. Minimum value : 0 Maximum value : 2147483647 Example : "2000000000000"	integer (int32)
dst_appliance_id <i>required</i>	ID of appliance that is the destination for this migration action.	string
host_connectivity_to_destination <i>required</i>	Whether all hosts for the migrating resource have connectivity to the destination appliance.	boolean
migration_primary_resource_type <i>required</i>		MigrationRecommendationPrimaryResourceTypeEnum
migration_primary_resource_type_l10n <i>optional</i>	Localized message string corresponding to migration_primary_resource_type	string

Name	Description	Schema
migration_reason <i>required</i>		MigrationRecommendationReasonEnum
migration_reason_110n <i>optional</i>	Localized message string corresponding to migration_reason	string
primary_id <i>required</i>	Unique ID of the primary object.	string
primary_name <i>required</i>	Name of the primary object.	string
resource_id <i>required</i>	ID of storage resource migrated by this action.	string
resource_type <i>required</i>		MigrationResourceTypeEnum
resource_type_110n <i>optional</i>	Localized message string corresponding to resource_type	string
src_appliance_id <i>required</i>	ID of appliance that is the source for this migration action.	string

migration_recommendation_action_modify

Migration actions to be modified. Was added in version 2.0.0.0.

Name	Description	Schema
migration_actions <i>required</i>	List of migration actions to be modified	< migration_actions > array

migration_actions

Name	Description	Schema
active <i>required</i>	New value of the active flag for this migration action. Deactivating an action keeps it in the recommendation, and it can be set active again, until the sessions are created. Inactive actions are skipped when the sessions are created and cannot be set to active after that point.	boolean
dst_appliance_id <i>required</i>	New dst appliance ID for this migration action.	string
resource_id <i>required</i>	Resource ID of migration action to be modified.	string

migration_recommendation_create

Set evacuate_appliance parameters to evacuate space. Filtering on the fields of this embedded resource is not supported.

Name	Description	Schema
evacuate_appliance <i>optional</i>	Evacuate appliance by specifying optional space_to_free.	evacuate_appliance
evacuate_appliance_all <i>optional</i>	Evacuate all storage objects from an appliance specified by appliance_id. Was added in version 2.0.0.0.	evacuate_appliance_all
evacuate_objects <i>optional</i>	Evacuate appliance by migrating specified storage objects. All specified storage objects must exist on the same source appliance specified by appliance_id. Was added in version 2.0.0.0.	evacuate_objects

evacuate_appliance

Name	Description	Schema
appliance_id <i>required</i>	ID of appliance on which available space is desired. Pattern : <code>"^[0-9a-zA-Z_]{2,10}\$"</code> Example : <code>"A1"</code>	string

Name	Description	Schema
space_to_free <i>optional</i>	Optional desired amount of used storage (in bytes) to move to other appliances. If space_to_free is not specified, space to be freed is estimated by the system such that migrating objects equivalent to that much amount of storage space would clear Major severity capacity alarm on the appliance. If there is no Major severity capacity alarm on an appliance and space_to_free is not specified, error will be returned. To free up desired amount of space from an appliance, specify the amount of space greater than zero to be freed. Minimum value : 1 Maximum value : 9223372036854775807 Example : 3000000000000	integer (int64)
target_appliance_ids <i>optional</i>	Optional IDs of appliances to which used storage can be migrated for this request. If no target appliances are specified, the evacuated objects can be placed on any appliance in the cluster. Example : ["A1", "A2", "..."]	< string > array

evacuate_appliance_all

Name	Description	Schema
appliance_id <i>required</i>	ID of appliance on which all selected storage objects are located. Pattern : "[0-9a-zA-Z_]{2,10}\$" Example : "A1"	string
target_appliance_ids <i>optional</i>	Optional IDs of appliances to which used storage can be migrated for this request. If no target appliances are specified, the evacuated objects can be placed on any appliance in the cluster. Example : ["A1", "A2", "..."]	< string > array

evacuate_objects

Name	Description	Schema
appliance_id <i>required</i>	ID of appliance on which all selected storage objects are located. Pattern : "[0-9a-zA-Z_]{2,10}\$" Example : "A1"	string

Name	Description	Schema
storage_objects <i>optional</i>	A collection of pairs of resource_type and the associated list of volume or volume group family ids or virtual_machine or virtual_volume resource ids. Multiple lists of the same resource type are allowed. Duplicated ids in a single or multiple lists will result in an error.	< storage_objects > array
target_appliance_ids <i>optional</i>	Optional IDs of appliances to which used storage can be migrated for this request. If no target appliances are specified, the evacuated objects can be placed on any appliance in the cluster. Example : ["A1", "A2", "..."]	< string > array

storage_objects

Name	Description	Schema
resource_ids <i>required</i>	List of resource ids to be evacuated.	< string (uuid) > array
resource_type <i>required</i>	Resource type.	MigrationResourceTypeEnum

migration_recommendation_create_migration_sessions_response

Name	Description	Schema
migration_session_ids <i>optional</i>	ID of migration sessions created for the recommendation.	< string > array
rescan_host_list <i>optional</i>	IDs of attached hosts that require a rescan to ensure accessibility of migrated storage objects after migrations complete.	< string > array

migration_recommendation_instance

Name	Description	Schema
created_timestamp <i>optional</i>	Time at which recommendation was created.	string (date-time)

Name	Description	Schema
estimated_cost <i>optional</i>	Unitless value describing estimated cost to migrate all volumes for this recommendation relative to other recommendations. Minimum value : 0 Maximum value : 9223372036854775807 Example : 3298534883328	integer (int64)
id <i>optional</i>	Unique ID of recommendation.	string
migration_actions <i>optional</i>	Filtering on the fields of this embedded resource is not supported.	< migration_recommendation_action > array
request_parameters <i>optional</i>		migration_recommendation_create
rescan_host_list <i>optional</i>	IDs of hosts that must be rescanned after migration sessions are created but before migration sessions are started. Example : ["host_for_vol_to_migrate_A", "host_for_vol_to_migrate_B"]	< string > array
sessions_completed_timestamp <i>optional</i>	Time at which all migration sessions for the recommendation were complete. Null if migration sessions have not been created/started or if any migration pursuant to the recommendation is still ongoing.	string (date-time)
sessions_created_timestamp <i>optional</i>	Time at which migration sessions were created for the recommendation. Null if migration sessions have not been created.	string (date-time)
state <i>optional</i>		MigrationRecommendationStateEnum
state_l10n <i>optional</i>	Localized message string corresponding to state	string
type <i>optional</i>	Type of request that generated a migration recommendation. Evacuate_Appliance - A recommendation to evacuate space by auto selecting storage objects from an appliance using specified size.	MigrationRecommendationTypeEnum

Name	Description	Schema
type_l10n <i>optional</i>	Localized message string corresponding to type	string

migration_session_create

Name	Description	Schema
automatic_cutover <i>optional</i>	Indicates whether the migration session cutover is manual or automatic. Default is manual. Default : false	boolean
destination_appliance_id <i>required</i>	Unique identifier of the destination appliance instance.	string
family_id <i>required</i>	Family identifier designating the storage resource or resources to migrate. For volume or virtual_volume migrations, the family is moved together because they share data among the primary object, snapshots, and clones. For volume_group migration, the family of each volume in the group is moved because it is a grouping of volumes.	string
name <i>optional</i>	User-specified friendly name of the migration session instance. The name can contain a maximum of 32 Unicode characters. It cannot contain unprintable characters or special HTTP characters.	string
resource_type <i>required</i>		MigrationResourceTypeEnum

migration_session_create_response

The response for the create migration operation.

Name	Description	Schema
id <i>optional</i>	Identifier of the migration_session object.	string
rescan_host_ids <i>optional</i>	List of hosts that be rescanned before a migration session can proceed.	< string > array

migration_session_delete

Name	Description	Schema
force <i>optional</i>	Indicates whether all migration activities will be canceled before deleting the session. Default : false	boolean

migration_session_instance

A migration session. This resource type has queriable associations from virtual_volume, volume, volume_group, replication_session

Name	Description	Schema
created_timestamp <i>optional</i>	Time when the migration session was created.	string (date-time)
current_transfer_rate <i>optional</i>	Transfer rate of the current sync operation in bytes/sec. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
destination_appliance_id <i>optional</i>	Unique identifier of the destination appliance instance.	string
estimated_completion_timestamp <i>optional</i>	Estimated completion time of the current sync operation.	string (date-time)
family_id <i>optional</i>	Family identifier designating the storage resource or resources being migrated. For volume or virtual_volume migrations, the family is moved together because they share data among the primary object, snapshots, and clones. For volume_group migration, the family of each volume in the group is moved because it is a grouping of volumes.	string
id <i>optional</i>	Unique identifier of the migration session instance.	string

Name	Description	Schema
last_sync_time_stamp <i>optional</i>	Time of the last successful sync operation.	string (date-time)
name <i>optional</i>	User-specified friendly name of the migration session instance. This property supports case-insensitive filtering.	string
progress_percentage <i>optional</i>	Progress percentage of the current sync operation. Minimum value : 0 Maximum value : 2147483647	integer (int32)
replication_sessions <i>optional</i>	This is the inverse of the resource type replication_session association.	< replication_session_instance > array
resource_type <i>optional</i>		MigrationResourceTypeEnum
resource_type_l10n <i>optional</i>	Localized message string corresponding to resource_type	string
source_appliance_id <i>optional</i>	Unique identifier of the source appliance instance.	string
state <i>optional</i>		MigrationSessionStateEnum
state_l10n <i>optional</i>	Localized message string corresponding to state	string
virtual_volumes <i>optional</i>	This is the inverse of the resource type virtual_volume association.	< virtual_volume_instance > array
volume_groups <i>optional</i>	This is the inverse of the resource type volume_group association.	< volume_group_instance > array
volumes <i>optional</i>	This is the inverse of the resource type volume association.	< volume_instance > array

migration_session_sync

Name	Description	Schema
automatic_cutover <i>optional</i>	Indicates whether the migration session cutover is manual or automatic. Default is manual. Default : <i>false</i>	boolean
rescan_complete <i>optional</i>	Indicates whether a rescan will be performed during the sync operation. Default value is false. If the session creation completed with a message that rescan is required from one or more hosts, you must set this value to true during the subsequent sync operation. Otherwise, the sync operation will fail. Default : <i>false</i>	boolean

nas_server_clone

Parameters of the NAS server clone operation. Was added in version 3.0.0.0.

Name	Description	Schema
clone_flr_file_systems <i>optional</i>	Specifies whether cloning of FLR-C user file system should be allowed. Was deprecated in version 4.1.0.0. Default : <i>false</i>	boolean
file_systems <i>optional</i>	The list of File systems to clone.	< string > array

Name	Description	Schema
is_dr_test <i>optional</i>	Cloning a replicated NAS server destination with the Disaster Recovery Testing option enabled allows for an independent copy of the NAS server to be instantiated so that full DR testing can be done against the clone. The DR test clone will not interfere with the production NAS server, nor will it interfere with the cloned destination should an actual failover occur while the DR test clone is active. This relies on the clone having a completely isolated network from both the source and destination NAS servers of the replication. The DR test clone will have the same IP addresses as the cloned destination NAS server, so they cannot coexist on the same network. This means that port assignment to the clone must use ports that are not routable to the ports of the replicated destination NAS server. Was added in version 3.6.0.0. Default : false	boolean
name <i>required</i>	The name for the cloned NAS server.	string

nas_server_create

Name	Description	Schema
current_unix_directory_service <i>optional</i>		NASServerCurrentUnixDirectoryServiceEnum
default_unix_user <i>optional</i>	Default Unix user name used for granting access in case of Windows to Unix user mapping failure. When empty, access in such case is denied. Length : 0 - 63	string
default_windows_user <i>optional</i>	Default Windows user name used for granting access in case of Unix to Windows user mapping failure. When empty, access in such case is denied. Length : 0 - 1023	string

Name	Description	Schema
description <i>optional</i>	Description of the NAS server. Length : 0 - 255	string
is_auto_user_mapping_enabled <i>optional</i>	A Windows user must have a corresponding matching Unix user (uid) in order to connect. This attribute enables you to automatically generates this Unix user (uid), if that Windows user does not have any in the configured Unix directory service (UDS). In a pure SMB or non multi-protocol environment, this should be set to true. Default : false	boolean
is_username_translation_enabled <i>optional</i>	Enable the possibility to match a Windows account with an Unix account with different names. Default : false	boolean
name <i>required</i>	Name of the NAS server. Length : 1 - 255	string
performance_policy_id <i>optional</i>	Unique identifier of a File_Performance type policy applied to the nas_server. If not set, there is no performance policy governing the nas_server. name:{name} can be used instead of {id}. For example: 'performance_policy_id':'name:policy_name' Was added in version 4.1.0.0.	string
protection_policy_id <i>optional</i>	Id of the protection policy applied to the nas server. It is mandatory for policy to have replication rule before associating to nas server. name:{name} can be used instead of {id}. For example: 'protection_policy_id':'name:policy_name' Was added in version 3.0.0.0.	string

nas_server_delete

Arguments for the Delete operation.

Name	Description	Schema
domain_password <i>optional</i>	Administrator password used to unjoin the associated SMB servers from the Active Directory (AD) domain before deleting the NAS server. This parameter is required when the skipDomainUnjoin parameter is false or not set, and the NAS server has SMB servers joined to an AD domain.	string (password)

Name	Description	Schema
domain_user_name <i>optional</i>	Administrator login used to unjoin the associated SMB servers from the Active Directory (AD) domain before deleting the NAS server. This parameter is required when the skipDomainUnjoin parameter is false or not set, and the NAS server has SMB servers joined to an AD domain.	string
is_skip_domain_unjoin <i>optional</i>	Indicates whether to keep the associated SMB servers joined to the Active Directory when the NAS server is deleted. Values are: - true - Keep the associated SMB servers joined to the Active Directory when the NAS server is deleted. - false - (Default) Try to unjoin the associated SMB servers from the Active Directory before deleting the NAS server. Default : false	boolean

nas_server_instance

This resource type has queriable associations from policy, file_interface, file_ndmp, file_virus_checker, nfs_server, smb_server, file_dns, file_ftp, file_kerberos, file_ldap, file_nis, file_system, file_dhsm_config, file_events_publisher

Name	Description	Schema
backup_IPv4_interface_id <i>optional</i>	Unique identifier of the preferred IPv4 backup interface.	string
backup_IPv6_interface_id <i>optional</i>	Unique identifier of the preferred IPv6 backup interface.	string
current_node_id <i>optional</i>	Unique identifier of the node on which the NAS server is running.	string
current_preferred_IPv4_interface_id <i>optional</i>	Unique identifier of the current active preferred IPv4 interface.	string
current_preferred_IPv6_interface_id <i>optional</i>	Unique identifier of the current active preferred IPv6 interface.	string

Name	Description	Schema
current_unix_directory_service <i>optional</i>		NAServerCurrentUnixDirectoryServiceEnum
current_unix_directory_service_l10n <i>optional</i>	Localized message string corresponding to current_unix_directory_service	string
default_unix_user <i>optional</i>	Default Unix user name used for granting access in case of Windows to Unix user mapping failure. When empty, access in such case is denied.	string
default_windows_user <i>optional</i>	Default Windows user name used for granting access in case of Unix to Windows user mapping failure. When empty, access in such case is denied.	string
description <i>optional</i>	Description of the NAS server.	string
file_dhsm_configs <i>optional</i>	This is the inverse of the resource type file_dhsm_config association.	< file_dhsm_config_instance > array
file_dnsses <i>optional</i>	This is the inverse of the resource type file_dns association.	< file_dns_instance > array
file_events_publishers <i>optional</i>	List of the file_events_publishers that are associated with this nas_server.	< file_events_publisher_instance > array
file_events_publishing_mode <i>optional</i>	Was added in version 3.0.0.0.	FileEventsPublishingModeEnum
file_events_publishing_mode_l10n <i>optional</i>	Localized message string corresponding to file_events_publishing_mode Was added in version 3.0.0.0.	string
file_ftps <i>optional</i>	This is the inverse of the resource type file_ftp association.	< file_ftp_instance > array

Name	Description	Schema
file_interfaces <i>optional</i>	This is the inverse of the resource type file_interface association.	< file_interface_instance > array
file_kerberos <i>optional</i>	This is the inverse of the resource type file_kerberos association.	< file_kerberos_instance > array
file_ldaps <i>optional</i>	This is the inverse of the resource type file_ldap association.	< file_ldap_instance > array
file_ndmps <i>optional</i>	This is the inverse of the resource type file_ndmp association.	< file_ndmp_instance > array
file_nises <i>optional</i>	This is the inverse of the resource type file_nis association.	< file_nis_instance > array
file_systems <i>optional</i>	This is the inverse of the resource type file_system association.	< file_system_instance > array
file_virus_checkers <i>optional</i>	This is the inverse of the resource type file_virus_checker association.	< file_virus_checker_instance > array
id <i>optional</i>	Unique identifier of the NAS server.	string
is_auto_user_mapping_enabled <i>optional</i>	A Windows user must have a corresponding matching Unix user (uid) in order to connect. This attribute enables you to automatically generate this Unix user (uid), if that Windows user does not have any in the configured Unix directory service (UDS). In a pure SMB or non multi-protocol environment, this should be set to true. Default : false	boolean

Name	Description	Schema
is_dr_test <i>optional</i>	Cloning a replicated NAS server destination with the Disaster Recovery Testing option enabled allows for an independent copy of the NAS server to be instantiated so that full DR testing can be done against the clone. The DR test clone will not interfere with the production NAS server, nor will it interfere with the cloned destination should an actual failover occur while the DR test clone is active. This relies on the clone having a completely isolated network from both the source and destination NAS servers of the replication. The DR test clone will have the same IP addresses as the cloned destination NAS server, so they cannot coexist on the same network. This means that port assignment to the clone must use ports that are not routable to the ports of the replicated destination NAS server. Was added in version 3.6.0.0.	boolean
is_production_mode_enabled <i>optional</i>	true (Production mode) - In this mode, the NAS Server is fully operational. A NAS Server that is not part of a replication is always in production mode. Its configuration can also be changed without any restrictions. A NAS Server that is not part of a replication is always in production mode. false (Destination mode) - In this mode, user data access and configuration change is restricted. User file systems are all unmounted and so not directly accessible. The administrator may create a snapshot of a file system and share the snap. The data is then only accessible through NFS (not secure nfs) or NDMP. Only network settings of objects can be changed (overridden locally). This includes objects such as network interfaces, dns, nis, ldap etc... This allows a destination NAS Server to have appropriate local network services configured in the event of a failover. Was added in version 3.0.0.0.	boolean

Name	Description	Schema
is_replication_destination <i>optional</i>	Indicates whether this NAS Server is a replication destination. A replication destination will be created by the system when a replication session is created. After the replication session is deleted, the replication destination will remain as it is until the end user changes it to be a non-replication destination. After the change, it becomes a production NAS server. If the end user keeps it as a replication destination, when the replication session is recreated, the replication destination NAS server could potentially be reused in the new session. Was added in version 3.0.0.0.	boolean
is_username_translation_enabled <i>optional</i>	Enable the possibility to match a windows account to a Unix account with different names. Default : false	boolean
name <i>optional</i>	Name of the NAS server. This property supports case-insensitive filtering.	string
nfs_servers <i>optional</i>	This is the inverse of the resource type nfs_server association.	< nfs_server_instance > array
operational_status <i>optional</i>		NASServerOperationalStatusEnum
operational_status_l10n <i>optional</i>	Localized message string corresponding to operational_status	string
performance_policy <i>optional</i>	This is the embeddable reference form of performance_policy_id attribute.	policy_instance
performance_policy_id <i>optional</i>	Unique identifier of a File_Performance type policy applied to the nas_server. If not set, there is no performance policy governing the nas_server. Was added in version 4.1.0.0.	string

Name	Description	Schema
preferred_node_id <i>optional</i>	Unique identifier of the preferred node for the NAS server The initial value (on NAS server creation) is taken from the current node.	string
production_IPv4_interface_id <i>optional</i>	Unique identifier of the preferred IPv4 production interface.	string
production_IPv6_interface_id <i>optional</i>	Unique identifier of the preferred IPv6 production interface.	string
protection_policy <i>optional</i>	This is the embeddable reference form of protection_policy_id attribute.	policy_instance
protection_policy_id <i>optional</i>	Id of the protection policy applied to the nas server. Was added in version 3.0.0.0.	string
smb_servers <i>optional</i>	This is the inverse of the resource type smb_server association.	< smb_server_instance > array

nas_server_modify

Arguments for the modify operation.

Name	Description	Schema
backup_IPv4_interface_id <i>optional</i>	Unique identifier of the preferred IPv4 backup interface.	string
backup_IPv6_interface_id <i>optional</i>	Unique identifier of the preferred IPv6 backup interface.	string
current_node_id <i>optional</i>	Unique identifier of the node on which the NAS server is running.	string

Name	Description	Schema
current_unix_directory_service <i>optional</i>		NAServerCurrentUnixDirectoryServiceEnum
default_unix_user <i>optional</i>	Default Unix user name used for granting access in case of Windows to Unix user mapping failure. When empty, access in such case is denied. Length : 0 - 63	string
default_windows_user <i>optional</i>	Default Windows user name used for granting access in case of Unix to Windows user mapping failure. When empty, access in such case is denied. Length : 0 - 1023	string
description <i>optional</i>	Description of the NAS server. Length : 0 - 255	string
file_events_publisher_id <i>optional</i>	Unique identifier of the file events publisher. name:{name} can be used instead of {id}. For example: 'file_events_publisher_id': 'name:file_events_publisher_name' Was added in version 3.0.0.0.	string
file_events_publishing_mode <i>optional</i>	Was added in version 3.0.0.0.	FileEventsPublishingModeEnum
force <i>optional</i>	Normally a replication destination NAS server cannot be modified since it is controlled by replication. However, there can be cases where replication has failed or is no longer active and the replication destination NAS server needs to be cleaned up. With the force option, the user will be allowed to remove the protection policy from the replication destination NAS server provided that the replication session does not exists. This parameter defaults to false, if not specified. Was added in version 3.0.0.0. Default : false	boolean

Name	Description	Schema
is_auto_user_mapping_enabled <i>optional</i>	A Windows user must have a corresponding matching Unix user (uid) in order to connect. This attribute enables you to automatically generate this Unix user (uid), if that Windows user does not have any in the configured Unix directory service (UDS). In a pure SMB or non multi-protocol environment, this should be set to true.	boolean
is_production_mode_enabled <i>optional</i>	true (Production mode) - In this mode, the NAS Server is fully operational. User data is accessible through regular protocols like SMB/NFS etc. Its configuration can also be changed without any restrictions. A NAS Server that is not part of a replication is always in production mode. false (Destination mode) - In this mode, user data access and configuration change is restricted. User file systems are all unmounted and so not directly accessible. The administrator may create a snapshot of a file system and share the snap. The data is then only accessible through NFS (not secure nfs) or NDMP. Only network settings of objects can be changed (overridden locally). This includes objects such as network interfaces, dns, nis, ldap etc... This allows a destination NAS Server to have appropriate local network services configured in the event of a failover. Was added in version 3.0.0.0.	boolean
is_replication_destination <i>optional</i>	New value for is_replication_destination property. The modification is supported only when the current value is true and there is no longer a replication session using this NAS Server as a destination, and only to false. Was added in version 3.0.0.0.	boolean
is_username_translation_enabled <i>optional</i>	Enable the possibility to match a windows account to a Unix account with different names	boolean
name <i>optional</i>	Name of the NAS server. Length : 1 - 255	string

Name	Description	Schema
performance_policy_id <i>optional</i>	Unique identifier of a File_Performance policy applied to the nas_server. If not set, there is no performance policy governing the nas_server. name:{name} can be used instead of {id}. For example: 'performance_policy_id':'name:policy_name' Was added in version 4.1.0.0.	string
preferred_node_id <i>optional</i>	Unique identifier of the preferred node for the NAS server The initial value (on NAS server create) is taken from the current node.	string
production_IPv4_interface_id <i>optional</i>	Unique identifier of the preferred IPv4 production interface.	string
production_IPv6_interface_id <i>optional</i>	Unique identifier of the preferred IPv6 production interface.	string
protection_policy_id <i>optional</i>	Id of the protection policy applied to the nas server. name:{name} can be used instead of {id}. For example: 'protection_policy_id':'name:policy_name' Was added in version 3.0.0.0.	string

nas_server_ping

Request body for ping arguments.

Name	Description	Schema
destination_address <i>optional</i>	Destination to ping, can be either an IP address (IPv4 or IPv6) or a hostname being resolved by the NAS server name resolvers.	string (ip-address)
is_ipv6 <i>optional</i>	When true, and the destination is a hostname, it will be resolved to IPv6. Otherwise the hostname is resolved preferably to an IPv4 address. Default : false	boolean

network_create

Parameters for the network create operation. Was added in version 2.0.0.0.

Name	Description	Schema
add_addresses <i>optional</i>	IP addresses to add in IPv4 or IPv6 format.	< string (ip-address) > array
cluster_mgmt_address <i>optional</i>	- Cluster management IP address in IPv4 or IPv6 format, corresponding to the network's IP version. - This can only be specified when creating these network types - * ** File_Mobility - floating IP address for file mobility network. Was added in version 3.0.0.0.	string (ip-address)
gateway <i>optional</i>	- Network gateway in IPv4 or IPv6 format, corresponding to the network's IP version. - Specify empty string to remove the gateway.	string (ip-address)
ip_version <i>required</i>		IpVersionTypeEnum
mtu <i>required</i>	Maximum Transmission Unit (MTU) packet size set on network interfaces, in bytes. Minimum value : 1280 Maximum value : 9000	integer (int32)
name <i>required</i>	Name of the network. Length : 1 - 128	string
nvme_cdc_address <i>optional</i>	IP address of the NVMe Centralized Discovery Controller (CDC). This is only applicable if network contains NVMe_TCP among its purposes, and nvme_discovery_mode is set to Manual_CDC. Was added in version 3.0.0.0.	string (ip-address)

Name	Description	Schema
nvme_cdc_port <i>optional</i>	TCP port of the NVMe Centralized Discovery Controller (CDC). This is only applicable if network contains NVMe_TCP among its purposes, and nvme_discovery_mode is set to Manual_CDC. The valid values: 8009 or from 49152 to 49999 or 50100 to 65535. Was added in version 3.0.0.0. Default : 8009 Minimum value : 8009 Maximum value : 65535	integer (int32)
nvme_discovery_mode <i>optional</i>	Was added in version 3.0.0.0.	NVMeDiscoveryModeEnum
prefix_length <i>required</i>	Network prefix length. (Used for both IPv4 and IPv6). Minimum value : 1 Maximum value : 127 Example : 64	integer (int32)
purposes <i>required</i>	- Purposes of the network. - This returns a list of purposes for the networks that support multiple purposes per network, like storage network. - Returns an empty list for the single purposed networks, like management, vMotion, ICD and ICM.	< NetworkPurposeEnum > array
storage_discovery_address <i>optional</i>	- New storage discovery IP address in IPv4 or IPv6 format, corresponding to the network's IP version. - This can only be specified when creating the storage network. - Specify empty string to omit the storage discovery IP address.	string (ip-address)
type <i>required</i>		NetworkTypeEnum
vlan_id <i>optional</i>	VLAN identifier. Minimum value : 0 Maximum value : 4094 Example : 10	integer (int32)

network_instance

Properties of the network. Values was added in 2.0.0.0: name, purposes. Values was added in 3.0.0.0: nvme_discovery_mode, nvme_cdc_address, nvme_cdc_port. This resource type has queriable association from ip_pool_address

Name	Description	Schema
gateway <i>optional</i>	Network gateway in IPv4 or IPv6 format, corresponding to the network's IP version.	string (ip-address)
id <i>optional</i>	Unique identifier of the network. Example : "NW1"	string
ip_pool_addresses <i>optional</i>	This is the inverse of the resource type ip_pool_address association.	< ip_pool_address_instance > array
ip_version <i>optional</i>		IpVersionTypeEnum
ip_version_l10n <i>optional</i>	Localized message string corresponding to ip_version	string
mtu <i>optional</i>	Maximum Transmission Unit (MTU) packet size set on network interfaces, in bytes. Minimum value : 1280 Maximum value : 9000	integer (int32)
name <i>optional</i>	Name of the network. This property supports case-insensitive filtering. Was added in version 2.0.0.0. Length : 1 - 128	string
nvme_cdc_address <i>optional</i>	IP address of the NVMe Centralized Discovery Controller (CDC). This is only applicable if network contains NVMe_TCP among its purposes, and nvme_discovery_mode is set to Manual_CDC. Was added in version 3.0.0.0.	string (ip-address)

Name	Description	Schema
nvme_cdc_port <i>optional</i>	TCP port of the NVMe Centralized Discovery Controller (CDC). This is only applicable if network contains NVMe_TCP among its purposes, and nvme_discovery_mode is set to Manual_CDC. The valid values: 8009 or from 49152 to 49999 or 50100 to 65535. Was added in version 3.0.0.0. Default : 8009 Minimum value : 8009 Maximum value : 65535	integer (int32)
nvme_discovery_mode <i>optional</i>	Was added in version 3.0.0.0.	NVMeDiscoveryModeEnum
nvme_discovery_mode_l10n <i>optional</i>	Localized message string corresponding to nvme_discovery_mode Was added in version 3.0.0.0.	string
prefix_length <i>optional</i>	Network prefix length, used for both IPv4 and IPv6. Minimum value : 1 Maximum value : 127 Example : 64	integer (int32)
purposes <i>optional</i>	Purposes of the network. This returns a list of purposes for the networks that support multiple purposes per network, like storage network. Empty list is returned for single purposed networks, like management, vMotion, ICD and ICM. Was added in version 2.0.0.0.	< NetworkPurposeEnum > array
purposes_l10n <i>optional</i>	Localized message array corresponding to purposes Was added in version 2.0.0.0.	< string > array
type <i>optional</i>		NetworkTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type	string

Name	Description	Schema
vlan_id <i>optional</i>	VLAN identifier. Minimum value : 0 Maximum value : 4094 Example : 10	integer (int32)

network_modify

Parameters for the network modify operation.

Name	Description	Schema
add_addresses <i>optional</i>	IP addresses to add in IPv4 or IPv6 format.	< string (ip-address) > array
add_purposes <i>optional</i>	- Purposes to enable in the network. - This can only be specified when reconfiguring the network. Was added in version 2.1.0.0.	< NetworkPurposeEnum > array
cluster_mgmt_address <i>optional</i>	- Cluster management IP address in IPv4 or IPv6 format, corresponding to the network's IP version. - This can only be specified when reconfiguring these network types, which support cluster IP - * ** Management - floating IP address for external cluster management. * ** File_Mobility - floating IP address for file mobility network. Caution Changing the cluster management IP address for Management network will lead to losing management sessions through this address.	string (ip-address)
esxi_credentials <i>optional</i>		esxi_credentials

Name	Description	Schema
force <i>optional</i>	Indicates whether to suppress network validation errors. The option is intended to suppress false errors caused by network environment constraints. Normally the command will fail with an error when: - Some of system network ports are in degraded state or have cabling issues, - System top-of-rack switches have configuration issues leading to network unreachability, - Network IP addresses have duplicates in the network environment, or network gateway is unreachable. When force is true, the command will proceed instead. Caution: Only use this option when you are certain that your requested settings are correct, and that you understand why they are failing at this time, and that you want to apply the settings anyway. Improper network settings can make the system unreachable for data and management. Default : false	boolean
gateway <i>optional</i>	• Network gateway in IPv4 or IPv6 format, corresponding to the network's IP version. • Specify empty string to remove the gateway.	string (ip-address)
mtu <i>optional</i>	Maximum Transmission Unit (MTU) packet size set on network interfaces, in bytes. Minimum value : 1280 Maximum value : 9000	integer (int32)
name <i>optional</i>	Name of the network. Was added in version 2.0.0.0. Length : 1 - 128	string
nvme_cdc_address <i>optional</i>	IP address of the NVMe Centralized Discovery Controller (CDC). This is only applicable if network contains NVMe_TCP among its purposes, and nvme_discovery_mode is set to Manual_CDC. Was added in version 3.0.0.0.	string (ip-address)

Name	Description	Schema
nvme_cdc_port <i>optional</i>	TCP port of the NVMe Centralized Discovery Controller (CDC). This is only applicable if network contains NVMe_TCP among its purposes, and nvme_discovery_mode is set to Manual_CDC. The valid values: 8009 or from 49152 to 49999 or 50100 to 65535. Was added in version 3.0.0.0. Minimum value : 8009 Maximum value : 65535	integer (int32)
nvme_discovery_mode <i>optional</i>	Was added in version 3.0.0.0.	NVMeDiscoveryModeEnum
prefix_length <i>optional</i>	Network prefix length. (Used for both IPv4 and IPv6). Minimum value : 1 Maximum value : 127 Example : 64	integer (int32)
remove_addresses <i>optional</i>	IP addresses to remove in IPv4 or IPv6 format.	< string (ip-address) > array
remove_purposes <i>optional</i>	• Purposes to disable in the network. • This can only be specified when reconfiguring the network. • Removal of ISCSI, NVMe/TCP purpose will lead to I/O disruption on external ISCSI, NVMe/TCP hosts consuming volumes via this network. It is recommended to disconnect any external hosts that may be affected (initiators should log out). Was added in version 2.1.0.0.	< NetworkPurposeEnum > array
storage_discovery_address <i>optional</i>	• New storage discovery IP address in IPv4 or IPv6 format, corresponding to the network's IP version. • This can only be specified when reconfiguring the storage network. • Specify empty string to remove the storage discovery IP address.	string (ip-address)

Name	Description	Schema
vasa_provider_credentials <i>optional</i>	• Credentials required for re-registering the VASA vendor provider during the reconfiguration of the cluster management IP address. • Should be passed only when reconfiguring cluster management IP address.	vasa_provider_credentials
vlan_id <i>optional</i>	VLAN identifier. Minimum value : 0 Maximum value : 4094 Example : 10	integer (int32)

vasa_provider_credentials

Name	Description	Schema
password <i>optional</i>	VASA vendor provider password.	string (password)
username <i>optional</i>	VASA vendor provider user name.	string

network_replace

Name	Description	Schema
cluster_mgmt_address <i>required</i>	New cluster management IP address in IPv4 or IPv6 format, corresponding to the network's IP version. Minimum length : 1	string (ip-address)
dns_addresses <i>required</i>	List of new DNS server IP addresses in IPv4 or IPv6 format.	< string (ip-address) > array
esxi_credentials <i>optional</i>		esxi_credentials

Name	Description	Schema
force <i>optional</i>	Indicates whether to suppress network validation errors. The option is intended to suppress false errors caused by network environment constraints. Normally the command will fail with an error when: - some of system network ports are in degraded state or have cabling issues, - system top-of-rack switches have configuration issues leading to network unreachability, - network IP addresses have duplicates in the network environment, - or network gateway is unreachable. When force is true, the command will proceed instead. Caution: Only use this option when you are certain your requested settings are correct and you understand why they are failing at this time, and you want to apply the settings anyway. Improper network settings can make the system unreachable for data and management. Default : false	boolean
gateway <i>required</i>	Network gateway in IPv4 or IPv6 format, corresponding to the network's IP version. Specify empty string to remove the gateway.	string (ip-address)
ip_pool_addresses <i>required</i>	List of new IP addresses in IPv4 or IPv6 format.	< string (ip-address) > array
mtu <i>required</i>	Maximum Transmission Unit (MTU) packet size set on network interfaces, in bytes. Minimum value : 1280 Maximum value : 9000	integer (int32)
ntp_addresses <i>optional</i>	New list of NTP server IP addresses in IPv4 or IPv6 format. May not be specified at the same time as ntp_servers. Was deprecated in version 4.1.0.0.	< string (ip-address) > array
ntp_servers <i>optional</i>	New list of NTP servers, with optional authentication information. May not be specified at the same time as ntp_addresses. Was added in version 4.1.0.0.	< ntp_server_create > array
physical_switches <i>optional</i>	List of new physical switches settings. If this property is omitted, physical switches configuration will not be modified.	< network_replace_physical_switch > array

Name	Description	Schema
prefix_length <i>required</i>	Network prefix length. (Used for both IPv4 and IPv6). Minimum value : 1 Maximum value : 127 Example : 64	integer (int32)
smtp_config <i>optional</i>		network_replace_smtp_config
vasa_provider_credentials <i>optional</i>	Credentials required for re-registering the VASA vendor provider during the replacement of the cluster management IP address. Should be passed only when reconfiguring PowerStoreX cluster.	vasa_provider_credentials
vcenter_addresses <i>optional</i>	New vCenter FQDNs or IP address in IPv4 or IPv6 format. Required only when reconfiguring PowerStoreX cluster. Minimum length : 1	string (ip-address)
vlan_id <i>required</i>	VLAN identifier. Minimum value : 0 Maximum value : 4094 Example : 10	integer (int32)

vasa_provider_credentials

Name	Description	Schema
password <i>optional</i>	VASA vendor provider password.	string (password)
username <i>optional</i>	VASA vendor provider user name.	string

network_replace_physical_switch

Name	Description	Schema
connections <i>optional</i>	Supported connections for a physical switch.	< network_replace_physical_switch_connection > array
name <i>optional</i>	Name of a physical switch.	string

Name	Description	Schema
purpose <i>optional</i>		PhysicalSwitchPurposeEnum

network_replace_physical_switch_connection

Name	Description	Schema
address <i>required</i>	Physical switch address in IPv4 or IPv6 or DNS hostname format.	string (ip-address)
connect_method <i>required</i>		PhysicalSwitchConnectMethodEnum
port <i>optional</i>	Port used for connection to switch. Minimum value : 0 Maximum value : 65535 Example : 22	integer (int32)
snmp_community_string <i>optional</i>	SNMPv2 community string, if SNMPv2c connect method is specified.	string (password)
ssh_password <i>optional</i>	SSH password to connect a physical switch if SSH connect method is specified.	string (password)
username <i>optional</i>	Username to connect a physical switch for SSH connection method.	string

network_replace_smtp_config

Name	Description	Schema
address <i>required</i>	IP address of the SMTP server. Example : "192.168.1.100"	string (ip-address)
port <i>required</i>	Port used for sending SMTP messages. Minimum value : 0 Maximum value : 65535 Example : 25	integer (int32)

Name	Description	Schema
source_email <i>required</i>	Source email address used for sending SMTP messages. Example : "admin@mycompany.com"	string

network_scale

Parameters for the network scale operation.

Name	Description	Schema
add_port_ids <i>optional</i>	Unique identifiers of available IP ports to be used in the network.	< string > array
add_purposes_subset <i>optional</i>	Used to specify the list of purposes to be enabled on the port during scaling. A subset of network purposes must be passed. If not specified, all purposes valid for the network will be enabled on the port. Cannot be used with "remove_port_ids" field, if "remove_port_ids" specified - whole network will be unscaled from specified ports. Was added in version 4.0.0.0.	< NetworkPurposeEnum > array
force <i>optional</i>	- Indicates whether to suppress network validation errors. - The option is intended to suppress false errors caused by network environment constraints. Normally the command will fail with an error when: - system network ports on top of which IP ports are configured are in degraded state or have cabling issues, - or network IP addresses applied as a result of network scaling have duplicates in the network environment. When force is true, the command will proceed instead. Caution: Only use this option when you are certain, that your requested settings are correct and you understand why they are failing at this time, and you want to apply the settings anyway. Improper network settings can make the system unreachable for data. Default : false	boolean

Name	Description	Schema
remove_port_ids <i>optional</i>	Unique identifiers of IP ports to remove from use in the network.	< string > array

network_scaling_modify

Parameters of the network scaling_modify operation. Was added in version 4.0.0.0.

Name	Description	Schema
add_purposes <i>optional</i>	Used to specify the list of purposes to be enabled on the specified ports for current network. Only current network purposes may be specified. Caution: Only ip_ports in which selected network is scaled (already part of the network) can be used.	< NetworkPurposeEnum > array
port_ids <i>optional</i>	Unique identifiers of IP ports in the network to be modified.	< string > array
remove_purposes <i>optional</i>	The list of purposes to be disabled on the specified ports for current network. Caution: Cannot be used to remove all functionality from ip_port. Use the scaling operation instead to remove a port from the network completely.	< NetworkPurposeEnum > array

nfs_export_create

Name	Description	Schema
anonymous_GID <i>optional</i>	Specifies the group ID of the anonymous account. Default : -2 Minimum value : -2147483648 Maximum value : 2147483647	integer (int32)
anonymous_UID <i>optional</i>	Specifies the user ID of the anonymous account. Default : -2 Minimum value : -2147483648 Maximum value : 2147483647	integer (int32)
default_access <i>optional</i>		NFSExportDefaultAccessEnum

Name	Description	Schema
description <i>optional</i>	User defined NFS Export description. Length : 0 - 511	string
file_system_id <i>required</i>	Unique identifier of the file system on which the NFS Export will be created. name:{name} can be used instead of {id}. For example: 'file_system_id':'name:file_system_name'	string
is_no_SUID <i>optional</i>	If set, do not allow access to set SUID. Otherwise, allow access. Default : false	boolean
min_security <i>optional</i>		NFSExportMinSecurityEnum
name <i>required</i>	NFS Export name. Length : 1 - 255	string
nfs_owner_username <i>optional</i>	(Applies to NFS shares of VMware NFS storage resources.) Default owner of the NFS Export associated with the datastore. Required if secure NFS enabled. For NFSv3 or NFSv4 without Kerberos, the default owner is root. Was added in version 3.0.0.0. Length : 0 - 32	string
no_access_hosts <i>optional</i>	Hosts with no access to the NFS export or its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. The maximum length of an Host name is 255 bytes, and the sum of lengths of all the items in the list is limited to 4096 bytes.	< string > array
path <i>required</i>	Local path to export relative to the file system root directory. With NFS, each export of a file_system or file_snap must have a unique local path. Before you can create additional Exports within an NFS shared folder, you must create directories within it from a Linux/Unix host that is connected to the file system. After a directory has been created from a mounted host, you can create a corresponding Export and set access permissions accordingly. Length : 1 - 1023	string

Name	Description	Schema
read_only_hosts <i>optional</i>	Hosts with read-only access to the NFS export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. The maximum length of an Host name is 255 bytes, and the sum of lengths of all the items in the list is limited to 4096 bytes.	< string > array
read_only_root_hosts <i>optional</i>	Hosts with read-only and ready-only for root user access to the NFS Export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. The maximum length of an Host name is 255 bytes, and the sum of lengths of all the items in the list is limited to 4096 bytes.	< string > array
read_write_hosts <i>optional</i>	Hosts with read and write access to the NFS export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. The maximum length of an Host name is 255 bytes, and the sum of lengths of all the items in the list is limited to 4096 bytes.	< string > array
read_write_root_hosts <i>optional</i>	Hosts with read and write and read and write for root user access to the NFS Export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. The maximum length of an Host name is 255 bytes, and the sum of lengths of all the items in the list is limited to 4096 bytes.	< string > array

nfs_export_instance

This resource type has queriable associations from file_system, datastore

Name	Description	Schema
anonymous_GID <i>optional</i>	Specifies the group ID of the anonymous account. Default : -2 Minimum value : -2147483648 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
anonymous_UID <i>optional</i>	Specifies the user ID of the anonymous account. Default : -2 Minimum value : -2147483648 Maximum value : 2147483647	integer (int32)
datastores <i>optional</i>	This is the inverse of the resource type datastore association.	< datastore_instance > array
default_access <i>optional</i>		NFSExportDefaultAccessEnum
default_access_l10n <i>optional</i>	Localized message string corresponding to default_access	string
description <i>optional</i>	NFS Export description.	string
file_system <i>optional</i>	This is the embeddable reference form of file_system_id attribute.	file_system_instance
file_system_id <i>optional</i>	Unique identifier of the file system on which the NFS Export was created.	string
id <i>optional</i>	Unique id of the NFS Export.	string
is_no_SUID <i>optional</i>	If set, do not allow access to set SUID. Otherwise, allow access.	boolean
min_security <i>optional</i>		NFSExportMinSecurityEnum
min_security_l10n <i>optional</i>	Localized message string corresponding to min_security	string
name <i>optional</i>	NFS Export name. This property supports case-insensitive filtering.	string

Name	Description	Schema
nfs_owner_username <i>optional</i>	(Applies to NFS shares of VMware NFS storage resources.) Default owner of the NFS Export associated with the datastore. Required if secure NFS enabled. For NFSv3 or NFSv4 without Kerberos, the default owner is root.	string
no_access_hosts <i>optional</i>	Hosts with no access to the NFS export or its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @.	< string > array
path <i>optional</i>	Local path to a location within the file system. With NFS, each export must have a unique local path. By default, the system exports the root of the file system (top-most directory) at the time the file system is created. This path specifies the unique location of the file system on the storage system. Before you can create additional exports within an NFS shared folder, you must create directories within it from a Linux/Unix host that is connected to the file system. After a directory has been created from a mounted host, you can create a corresponding export and set access permissions accordingly.	string
read_only_hosts <i>optional</i>	Hosts with read-only access to the NFS export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @.	< string > array
read_only_root_hosts <i>optional</i>	Hosts with read-only and ready-only for root user access to the NFS Export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @.	< string > array
read_write_hosts <i>optional</i>	Hosts with read and write access to the NFS export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @.	< string > array
read_write_root_hosts <i>optional</i>	Hosts with read and write and read and write for root user access to the NFS Export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @.	< string > array

nfs_export_modify

Name	Description	Schema
add_no_access_hosts <i>optional</i>	Hosts to add to the no_access_host list. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. Error if the host already exists in the list. Cannot be combined with no_access_hosts. The maximum length of an Host name is 255 bytes, and the sum of lengths of all the items in the list is limited to 4096 bytes.	< string > array
add_read_only_hosts <i>optional</i>	Hosts to add to the current read_only_hosts list. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. Error if the host already exists. Cannot combine with read_only_hosts. The maximum length of an Host name is 255 bytes, and the sum of lengths of all the items in the list is limited to 4096 bytes.	< string > array
add_read_only_root_hosts <i>optional</i>	Hosts to add to the current read_only_root_hosts list. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. Error if the host already exists. Cannot combine with read_only_root_hosts. The maximum length of an Host name is 255 bytes, and the sum of lengths of all the items in the list is limited to 4096 bytes.	< string > array
add_read_write_hosts <i>optional</i>	Hosts to add to the current read_write_hosts list. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. Error if Host is already exists. Cannot combine with read_write_hosts. The maximum length of an Host name is 255 bytes, and the sum of lengths of all the items in the list is limited to 4096 bytes.	< string > array
add_read_write_root_hosts <i>optional</i>	Hosts to add to the current read_write_root_hosts list. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. Error if the host already exists. Cannot combine with read_write_root_hosts. The maximum length of an Host name is 255 bytes, and the sum of lengths of all the items in the list is limited to 4096 bytes.	< string > array

Name	Description	Schema
anonymous_GID <i>optional</i>	Specifies the group ID of the anonymous account. Minimum value : -2147483648 Maximum value : 2147483647	integer (int32)
anonymous_UID <i>optional</i>	Specifies the user ID of the anonymous account. Minimum value : -2147483648 Maximum value : 2147483647	integer (int32)
default_access <i>optional</i>		NFSExportDefaultAccessEnum
description <i>optional</i>	NFS Export description. Length : 0 - 511	string
is_no_SUID <i>optional</i>	If set, do not allow access to set SUID. Otherwise, allow access.	boolean
min_security <i>optional</i>		NFSExportMinSecurityEnum
nfs_owner_username <i>optional</i>	(Applies to NFS shares of VMware NFS storage resources.) Default owner of the NFS Export associated with the datastore. Required if secure NFS enabled. For NFSv3 or NFSv4 without Kerberos, the default owner is root. Was added in version 3.0.0.0. Length : 0 - 32	string
no_access_hosts <i>optional</i>	Hosts with no access to the NFS export or its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. The maximum length of an Host name is 255 bytes, and the sum of lengths of all the items in the list is limited to 4096 bytes.	< string > array
read_only_hosts <i>optional</i>	Hosts with read-only access to the NFS export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. The maximum length of an Host name is 255 bytes, and the sum of lengths of all the items in the list is limited to 4096 bytes.	< string > array

Name	Description	Schema
read_only_root_hosts <i>optional</i>	Hosts with read-only and ready-only for root user access to the NFS Export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLenght, or IPv4/subnetmask), Netgroups prefixed with @. The maximum length of an Host name is 255 bytes, and the sum of lengths of all the items in the list is limited to 4096 bytes.	< string > array
read_write_hosts <i>optional</i>	Hosts with read and write access to the NFS export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLenght, or IPv4/subnetmask) or, Netgroups prefixed with @. The maximum length of an Host name is 255 bytes, and the sum of lengths of all the items in the list is limited to 4096 bytes.	< string > array
read_write_root_hosts <i>optional</i>	Hosts with read and write and read and write for root user access to the NFS Export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLenght, or IPv4/subnetmask), or Netgroups prefixed with @. The maximum length of an Host name is 255 bytes, and the sum of lengths of all the items in the list is limited to 4096 bytes.	< string > array
remove_no_access_hosts <i>optional</i>	Hosts to remove from the current no_access_hosts list. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLenght, or IPv4/subnetmask), or Netgroups prefixed with @. Error if the host is not present. Cannot combine with no_access_hosts.	< string > array
remove_read_only_hosts <i>optional</i>	Hosts to remove from the current read_only_hosts list. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLenght, or IPv4/subnetmask), or Netgroups prefixed with @. Error if the host is not present. Cannot combine with read_only_hosts.	< string > array
remove_read_only_root_hosts <i>optional</i>	Hosts to remove from the current read_only_root_hosts list. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLenght, or IPv4/subnetmask), or Netgroups prefixed with @. Error if The host is not present. Cannot combine with read_only_root_hosts.	< string > array

Name	Description	Schema
remove_read_write_hosts <i>optional</i>	Hosts to remove from the current read_write_hosts list. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. Error if Host is not present. Cannot combine with read_write_hosts.	< string > array
remove_read_write_root_hosts <i>optional</i>	Hosts to remove from the current read_write_root_hosts list. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. Error if the host is not present. Cannot combine with read_write_root_hosts.	< string > array

nfs_server_create

Arguments for the NFS server create operation.

Name	Description	Schema
credentials_cache_TTL <i>optional</i>	Sets the Time-To-Live (in minutes) expiration time in minutes for a Windows entry in the credentials cache. When failed mapping entries expire, the system retries mapping the UID to the SID. Default : 15 Minimum value : 1 Maximum value : 35791394	integer (int32)
host_name <i>optional</i>	The name that will be used by NFS clients to connect to this NFS server. This name is required when using secure NFS, except when is_use_smb_config_enabled is true. In this case host_name is forced to the SMB server computer name, and must not be specified. Length : 1 - 255	string

Name	Description	Schema
is_extended_credentials_enabled <i>optional</i>	Indicates whether the NFS server supports more than 16 Unix groups in a Unix credential. Valid values are: - true - NFS server supports more than 16 Unix groups in a Unix credential. The NFS server will send additional request to Unix Directory service to identify Unix groups. - false - NFS server supports more than 16 Unix groups in a Unix credential. The NFS server will send additional request to Unix Directory service to identify Unix groups. Note - The NFS server builds its own Unix credential when it supports more than 16 groups. This process can slow the performance. Default : false	boolean
is_nfsv3_enabled <i>optional</i>	Indicates whether NFSv3 is enabled on the NAS server. When enabled, NFS shares can be accessed with NFSv3. When disabled, NFS shares can not be accessed with NFSv3 protocol. - true - NFSv3 is enabled on the specified NAS server. - false - NFSv3 is disabled on the specified NAS server. Default : true	boolean
is_nfsv4_enabled <i>optional</i>	Indicates whether NFSv4 is enabled on the NAS server. When enabled, NFS shares can be accessed with NFSv4. When disabled, NFS shares can not be accessed with NFSv4 protocol. - true - NFSv4 is enabled on the specified NAS server. - false - NFSv4 is disabled on the specified NAS server. Default : false	boolean
is_secure_enabled <i>optional</i>	Indicates whether secure NFS is enabled on the NFS server. - true - Secure NFS is enabled. - false - Secure NFS is disabled. Default : false	boolean
is_use_smb_config_enabled <i>optional</i>	Indicates whether SMB authentication is used to authenticate to the KDC. Values are: - true: Indicates that the configured SMB Server settings are used for Kerberos authentication. - false: Indicates that Kerberos uses its own settings. Default : false	boolean
nas_server_id <i>required</i>	Unique identifier of the NAS server. name:{name} can be used instead of {id}. For example: 'nas_server_id': 'name: nas_server_name'	string

nfs_server_delete

Arguments for the NFS server delete operation.

Name	Description	Schema
is_skip_unjoin <i>optional</i>	Allow to bypass NFS server unjoin. If false delete will fail if secure is enabled and current kdc_type is MS Windows. If secure is enabled either unjoin NFS server before doing delete or set value to true. Default : false	boolean

nfs_server_instance

Properties of an NFS server. This resource type has queriable association from nas_server

Name	Description	Schema
credentials_cache_TTL <i>optional</i>	Sets the Time-To-Live (in minutes) expiration timestamp for a Windows entry in the credentials cache. When failed mapping entries expire, the system retries mapping the UID to the SID. Default : 15 Minimum value : 1 Maximum value : 35791394	integer (int32)
host_name <i>optional</i>	The name that will be used by NFS clients to connect to this NFS server. This name is required when using secure NFS, except when is_use_smb_config_enabled is true. In this case host_name is forced to the SMB server computer name, and must not be specified.	string
id <i>optional</i>	Unique identifier of the NFS server.	string

Name	Description	Schema
is_extended_credentials_enabled <i>optional</i>	Indicates whether the NFS server supports more than 16 Unix groups in a Unix credential. Valid values are: - true - NFS server supports more than 16 Unix groups in a Unix credential. The NFS server will send additional request to Unix Directory service to identify Unix groups. - false - NFS server supports more than 16 Unix groups in a Unix credential. The NFS server will send additional request to Unix Directory service to identify Unix groups. Note - The NFS server builds its own Unix credential when it supports more than 16 groups. This process can slow the performance. Default : false	boolean
is_joined <i>optional</i>	Indicates whether the NFS server is joined to Active Directory. Required for Secure NFS. Always false when secure NFS is disabled and kdc_type is not MS Windows.	boolean
is_nfsv3_enabled <i>optional</i>	Indicates whether NFSv3 is enabled on the NAS server. When enabled, NFS shares can be accessed with NFSv3. When disabled, NFS shares cannot be accessed with NFSv3 protocol. - true - NFSv3 is enabled on the specified NAS server. - false - NFSv3 is disabled on the specified NAS server.	boolean
is_nfsv4_enabled <i>optional</i>	Indicates whether NFSv4 is enabled on the NAS server. When enabled, NFS shares can be accessed with NFSv4. When disabled, NFS shares cannot be accessed with NFSv4 protocol. - true - NFSv4 is enabled on the specified NAS server. - false - NFSv4 is disabled on the specified NAS server.	boolean
is_secure_enabled <i>optional</i>	Indicates whether secure NFS is enabled on the NFS server. - true - Secure NFS is enabled. - false - Secure NFS is disabled.	boolean
is_use_smb_config_enabled <i>optional</i>	Indicates whether SMB authentication is used to authenticate to the KDC. Values are: - true: Indicates that the configured SMB Server settings are used for Kerberos authentication. - false: Indicates that Kerberos uses its own settings. Default : false	boolean
nas_server <i>optional</i>	This is the embeddable reference form of nas_server_id attribute.	nas_server_instance

Name	Description	Schema
nas_server_id <i>optional</i>	The unique identifier of the NAS server that serves this share.	string
service_principal_name <i>optional</i>	The Service Principal Name (SPN) for the NFS server. This name is updated automatically when the NFS server configuration changes.	string

nfs_server_join

Request arguments for the NFS server join operation.

Name	Description	Schema
domain_password <i>required</i>	Password of the domain-user specified to join the Active Directory domain.	string (password)
domain_username <i>required</i>	Name of a domain-user with privileges to join the Active Directory domain.	string

nfs_server_modify

Arguments for the NFS server modify operation.

Name	Description	Schema
credentials_cache_TTL <i>optional</i>	Sets the Time-To-Live (in minutes) expiration stamp for a Windows entry in the credentials cache. When failed mapping entries expire, the system retries mapping the UID to the SID. Minimum value : 1 Maximum value : 35791394	integer (int32)
host_name <i>optional</i>	The name that will be used by NFS clients to connect to this NFS server. This name is required when using secure NFS, except when <code>is_use_smb_config_enabled</code> is true. In this case <code>host_name</code> is forced to the SMB server computer name, and must not be specified. Length : 1 - 255	string

Name	Description	Schema
is_extended_credentials_enabled <i>optional</i>	Indicates whether the NFS server supports more than 16 Unix groups in a Unix credential. Valid values are: - true - NFS server supports more than 16 Unix groups in a Unix credential. The NFS server will send additional request to Unix Directory service to identify Unix groups. - false - NFS server supports more than 16 Unix groups in a Unix credential. The NFS server will send additional request to Unix Directory service to identify Unix groups. Note - The NFS server builds its own Unix credential when it supports more than 16 groups. This process can slow the performance.	boolean
is_nfsv3_enabled <i>optional</i>	Indicates whether NFSv3 is enabled on the NAS server. When enabled, NFS shares can be accessed with NFSv3. When disabled, NFS shares cannot be accessed with NFSv3 protocol. - true - NFSv3 is enabled on the specified NAS server. - false - NFSv3 is disabled on the specified NAS server.	boolean
is_nfsv4_enabled <i>optional</i>	Indicates whether NFSv4 is enabled on the NAS server. When enabled, NFS shares can be accessed with NFSv4. When disabled, NFS shares cannot be accessed with NFSv4 protocol. - true - NFSv4 is enabled on the specified NAS server. - false - NFSv4 is disabled on the specified NAS server.	boolean
is_secure_enabled <i>optional</i>	Indicates whether secure NFS is enabled on the NFS server. - true - Secure NFS is Enabled. - false - Secure NFS is disabled.	boolean
is_skip_unjoin <i>optional</i>	Allow to bypass NFS server unjoin. If false modification will fail if secure is enabled and current kdc_type is MS Windows. If secure is enabled either unjoin NFS server before deleting or set value to true. Was deprecated in version 2.0.0.0.	boolean
is_use_smb_config_enabled <i>optional</i>	Indicates whether SMB authentication is used to authenticate to the KDC. Values are: - true: Indicates that the the configured SMB Server settings are used for Kerberos authentication. - false: Indicates that Kerberos uses its own settings.	boolean

nfs_server_unjoin

Request arguments for the NFS server unjoin operation.

Name	Description	Schema
domain_password <i>required</i>	Password of the domain-user specified to unjoin from the Active Directory domain.	string (password)
domain_username <i>required</i>	Name of a domain-user with privileges to unjoin from the Active Directory domain.	string

node_instance

This resource type has queriable associations from appliance, ip_pool_address, veth_port

Name	Description	Schema
appliance <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	appliance_instance
appliance_id <i>optional</i>	Unique identifier of the appliance to which the node belongs.	string
id <i>optional</i>	Unique identifier of the node.	string
ip_pool_addresses <i>optional</i>	This is the inverse of the resource type ip_pool_address association.	< ip_pool_address_instance > array
slot <i>optional</i>	Slot number of the node. Minimum value : 0 Maximum value : 2147483647	integer (int32)
veth_ports <i>optional</i>	This is the inverse of the resource type veth_port association.	< veth_port_instance > array

ntp_instance

Name	Description	Schema
addresses <i>optional</i>	NTP server addresses. This list may contain IPv4 addresses, IPv6 addresses, and host names.	< string > array
id <i>optional</i>	Unique identifier of the NTP setting.	string

ntp_modify

Name	Description	Schema
addresses <i>required</i>	NTP server addresses. This list may contain IPv4 addresses, IPv6 addresses, and host names.	< string > array

ntp_server_create

Parameters of the ntp_server create operation. When key_id is supplied, authentication_key and hash_function are required as well.

Was added in version 4.1.0.0.

Name	Description	Schema
address <i>required</i>	IPv4, IPv6, or FQDN address of the ntp_server.	string (ip-address)
authentication_key <i>optional</i>	Authentication key. Length : 16 - 64 Pattern : "[0-9a-zA-Z]*"	string (password)
hash_function <i>optional</i>		NtpAuthnHashAlgorithmEnum
key_id <i>optional</i>	Key id value, provided by the NTP server, in the 1 to 32767 range. Minimum value : 1 Maximum value : 32767	integer (int16)

ntp_server_instance

Properties of an ntp_server. Was added in version 4.1.0.0.

Name	Description	Schema
address <i>optional</i>	IPv4, IPv6, or FQDN address of the ntp_server.	string (ip-address)
hash_function <i>optional</i>		NtpAuthnHashAlgorithmEnum
id <i>optional</i>	Unique identifier of the ntp_server.	string
key_id <i>optional</i>	Key id value, in the 1 to 32767 range. Minimum value : 0 Maximum value : 32767	integer (int16)

ntp_server_modify

Parameters of the ntp_server modify operation.

If key_id is set to null, the authentication_key and hash function will also be removed.

Was added in version 4.1.0.0.

Name	Description	Schema
address <i>optional</i>	IPv4, IPv6, or FQDN address of the ntp_server.	string (ip-address)
authentication_key <i>optional</i>	Authentication key. Length : 16 - 64 Pattern : "[0-9a-zA-Z]*\$"	string (password)
hash_function <i>optional</i>		NtpAuthnHashAlgorithmEnum
key_id <i>optional</i>	Key id value, provided by the NTP server, in the 1 to 32767 range. If modified to null, then the authentication_key and hash_function values will also be cleared and the server will not use authentication. Minimum value : 1 Maximum value : 32767	integer (int16)

nvme_discovered_cdc_instance

Properties of an NVMe Centralized Discovery Controller (CDC). Was added in version 3.0.0.0. This resource type has queriable association from ip_pool_address

Name	Description	Schema
id <i>optional</i>	Unique identifier of the CDC.	string
ip_pool_address <i>optional</i>	This is the embeddable reference form of ip_pool_address_id attribute.	ip_pool_address_instance
ip_pool_address_id <i>optional</i>	Identifier of the IP address being used for NVMe/TCP through which CDC was discovered.	string
nvme_cdc_address <i>optional</i>	IP address of the CDC.	string (ip-address)
nvme_cdc_connection_state <i>optional</i>		NvmeCdcConnectionStateEnum
nvme_cdc_connection_state_localization <i>optional</i>	Localized message string corresponding to nvme_cdc_connection_state Was added in version 3.0.0.0.	string
nvme_cdc_qualified_name <i>optional</i>	NVMe Qualified Name of the CDC.	string
nvme_cdc_port <i>optional</i>	TCP port of the CDC. Minimum value : 0 Maximum value : 2147483647	integer (int32)

oidc_service_claim_instance

Name and value pairs of claim mapper. Was added in version 4.2.0.0.

Name	Description	Schema
name <i>optional</i>	Claim name from IDP.	string
value <i>optional</i>		StandardizedSSOClaimsEnum

oidc_service_create

Arguments to oidc_service create operation.

Was added in version 4.2.0.0.

Name	Description	Schema
ca_certificate <i>required</i>	The PEM-encoded CA certificate for validating SSL communication with the IDP. This is a convenience argument that takes the place of using x509_certificate create, and setting the service to OIDC_TLS. After creation, certificates for this oidc_service instance are managed using the x509_certificate resource.	string
claims <i>required</i>	List of claim mappings between the IDP's claims and local system(relying party) recognized claims. The local system's claim name in the value field needs to be User_Name, Display_User_Name, Groups_A, Groups_B or Groups_C. - User_Name claim: It is a required claim mapping, to provide an IDP's claim to map to User_Name. Its value will be used to configure sso_claim_role_mapping when user mapping is preferred. - Display_User_Name claim: It is an optional claim mapping. When an IDP's claim is mapping to this, its claim value will be used for displaying and auditing. When it isn't configured, claim value from the User_Name will be used for displaying and auditing. - Groups_A/B/C claims: The groups are optional claim mappings. Its claim value can be used to configure sso_claim_role_mapping when group mapping is preferred. 3 groups, gives user the flexibilities to map different "group" representations in IDP's token claims to different standard claims on local system (relying party). For instance, user can map the groups claim from IDP to Groups_A at the same time map the roles claim (from Azure app role) to Groups_B.	< oidc_service_claim_instance > array

Name	Description	Schema
idp_applications <i>required</i>	List of idp_application information. Each entity represents a client has been registered on the IDP to interact with it for authentication and token issuance. In the current release, only ONE idp_application is supported per oidc_service.	< oidc_service_idp_application_create > array
idp_metadata_url <i>required</i>	Metadata URL of the OIDC provider. This URL may begin with ftp:, http:, or https:, and may include an explicit port. It may use IPv4, IPv6, or DNS names for the host address portion. Length : 1 - 256	string
idp_type <i>required</i>		IDPTypeEnum
name <i>required</i>	Name for this OIDC service instance. Length : 1 - 256	string
scopes <i>required</i>	List of scopes used in the authorization code flow. Please refer to the OpenID Connect specification for scope definitions: https://openid.net/specs/openid-connect-basic-1_0.html For the first release only following well-defined scopes are supported. "openid" is a required scope to indicate the openid protocol. "profile" is required to ensure user information will be included in the claims of the IDP token. "offline_access" is a required scope to indicate a refresh token will be issued. "email" is an optional scope to indicate user's primary email address in the form of the email claim of the IDP token.	< string > array

oidc_service_idp_application_create

Arguments to idp_application create operation.

Was added in version 4.2.0.0.

Name	Description	Schema
client_id <i>required</i>	Client id of the application instance. It is generated by and available from the IDP. Length : 1 - 256	string

Name	Description	Schema
client_secret <i>required</i>	Client secret of the application instance. It is generated by and available from the IDP. Length : 1 - 256	string (password)
is_enabled <i>optional</i>	Whether or not the oidc service instance is enabled. Default : false	boolean
name <i>required</i>	Name for this idp_application instance. Length : 1 - 256	string

oidc_service_idp_application_instance

Properties of an idp_application_instance resource. This entity represents a client has been registered on the IDP to interact with it for authentication and token issuance.

Was added in version 4.2.0.0.

Name	Description	Schema
client_id <i>optional</i>	Client id for the product instance. It is generated by IDP. Length : 1 - 256	string
code_challenge_method <i>optional</i>		CodeChallengeMethodEnum
idp_metadata_syncup_timestamp <i>optional</i>	The timestamp of the local system synced up the metadata for the service from the idp_metadata_url.	string (date-time)
is_enabled <i>optional</i>	Whether or not this idp_application is enabled on local system to interact with idp.	boolean
name <i>optional</i>	Name of the idp_application. Length : 1 - 256	string
pkce_enabled <i>optional</i>	Whether or not PKCE is enabled.	boolean

oidc_service_idp_application_modify

Arguments to idp_application modify operation.

Was added in version 4.2.0.0.

Name	Description	Schema
client_id <i>required</i>	The client_id is the unique identifier of the application to change. It is generated by and available from the IDP. Length : 1 - 256	string
client_secret <i>optional</i>	Client's secret of product instance. It is generated by and available from the IDP. Length : 1 - 256	string (password)
is_enabled <i>optional</i>	Whether or not this idp_application is enabled.	boolean
name <i>optional</i>	Name for this idp_application instance. Length : 1 - 256	string

oidc_service_instance

Properties of an oidc_service resource.

Was added in version 4.2.0.0.

Name	Description	Schema
claims <i>optional</i>	List of claim mappings between the IDP's claim and local system(relying party) recognized claim. The local system's claim name in the value field needs to be User_Name, Display_User_Name, Groups_A, Groups_B or Groups_C. • User_Name claim: It is required claim mapping, to provide an IDP's claim to map to User_Name. Its value will be used to configure sso_claim_role_mapping when user mapping is preferred. • Display_User_Name claim: It is an optional claim mapping. When an IDP's claim is mapping to this, its claim value will be used for displaying and auditing. When it isn't configured, claim value from the User_Name will be used for displaying and auditing. • Groups_A/B/C claims: The groups are optional claim mappings. Its claim value can be used to configure sso_claim_role_mapping when group mapping is preferred. 3 groups are available to map different "group" representations in IDP's token claims to different standard claims on local system. For instance, user can map the groups claim from IDP to Groups_A at the same time map the roles claim (from Azure app role) to Groups_B. Filtering on the fields of this embedded resource is not supported.	< oidc_service_claim_instance > array
id <i>optional</i>	Unique identifier of an oidc service. Length : 1 - 256	string
idp_applications <i>optional</i>	A list of idp_application instances. For the current release only ONE idp_application is supported. Filtering on the fields of this embedded resource is not supported.	< oidc_service_idp_application_instance > array
idp_id <i>optional</i>	This is the unique identifier of the IDP. It is the issuer url which is loaded from idp_metadata_url.	string
idp_metadata_url <i>optional</i>	Metadata URL of the IDP. This URL may begin with ftp:, http:, or https:, and may include an explicit port. It may use IPv4, IPv6, or DNS names for the host address portion.	string

Name	Description	Schema
idp_type <i>optional</i>		IDPTypeEnum
name <i>optional</i>	Name of the oidc service. Length : 1 - 256	string
scopes <i>optional</i>	List of scopes used in the authorization code flow. Please refer to the OpenID Connect specification for scope definitions: https://openid.net/specs/openid-connect-basic-1_0.html For the first release only following well-defined scopes are supported. "openid" is a required scope to indicate the openid protocol. "profile" is required to ensure user information will be included in the claims of the IDP token. "offline_access" is a required scope to indicate a refresh token will be issued. "email" is an optional scope to indicate user's primary email address in the form of the email claim of the IDP token.	< string > array
supported_idp_config <i>optional</i>		supported_idp_meta_data_instance

oidc_service_modify

Arguments to oidc_service modify operation.

The API also provides capabilities to replace existing idp_application instances by providing a new list of IDP applications in idp_applications. To modify existing idp_application instances, use the modify_idp_applications argument. The modify_idp_applications is mutually exclusive from other attribute changes. For the current release, only one idp_application is supported within one OIDC service.

Was added in version 4.2.0.0.

Name	Description	Schema
claims <i>optional</i>	List of claim mappings between the IDP's claims and local system(relying party) recognized claims. The local system's claim name in the value field needs to be User_Name, Display_User_Name, Groups_A, Groups_B or Groups_C. - User_Name claim: It is required claim mapping, to provide an IDP's claim to map to User_Name. Its value will be used to configure sso_claim_role_mapping when user mapping is preferred. - Display_User_Name claim: It is an optional claim mapping. When an IDP's claim is mapping to this, its claim value will be used for displaying and auditing. When it isn't configured, claim value from the User_Name will be used for displaying and auditing. - Groups_A/B/C claims: The groups are optional claim mappings. Its claim value can be used to configure sso_claim_role_mapping when group mapping is preferred. 3 groups, gives user the flexibilities to map different "group" representations in IDP's token claims to different standard claims on local system. For instance, user can map the groups claim from IDP to Groups_A at the same time map the roles claim (from Azure app role) to Groups_B.	< oidc_service_claim_instance > array
idp_metadata_url <i>optional</i>	Metadata URL of the IDP. This URL may begin with ftp:, http:, or https:, or have an explicit port. It should support IPv4, IPv6, and DNS names for the host address portion. Length : 1 - 256	string
idp_type <i>optional</i>		IDPTypeEnum
modify_idp_applications <i>optional</i>	List of idp_application instances to be modified in OIDC service, matched by client_id. Other applications will not be modified.	< oidc_service_idp_application_modify > array
name <i>optional</i>	Name for this OIDC service instance.. Length : 1 - 256	string

Name	Description	Schema
scopes <i>optional</i>	List of scopes used in the authorization code flow. Please refer to the OpenID Connect specification for scope definitions: https://openid.net/specs/openid-connect-basic-1_0.html For the first release only following well-defined scopes are supported. "openid" is a required scope to indicate the openid protocol. "profile" is required to ensure user information will be included in the claims of the IDP token. "offline_access" is a required scope to indicate a refresh token will be issued. "email" is an optional scope to indicate user's primary email address in the form of the email claim of the IDP token.	< string > array

performance_headroom_by_appliance

Performance metrics for the appliance. Was added in version 4.1.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier representing a specific appliance.	string
avg_latency <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : microseconds	number (float)

Name	Description	Schema
avg_total_iops <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100/(100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100/(100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : iops	number (float)
effective_cpu_core_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100/(100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100/(100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string

Name	Description	Schema
headroom <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
incr_current_workload_pattern <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
max_backend_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_cpu_core_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
max_fe_cpu_core_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_fe_port_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
max_file_cpu_core_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_log_media_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
max_sustainable_iops_at_const_workload <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : iops	number (float)
performance_bottleneck <i>optional</i>	Was deprecated in version 4.2.0.0.	PerformanceBottleneckEnum
performance_bottleneck_110n <i>optional</i>	Localized message string corresponding to performance_bottleneck Was deprecated in version 4.2.0.0. Was added in version 4.1.0.0.	string
performance_bottlenecks <i>optional</i>	Was added in version 4.2.0.0.	< PerformanceBottleneckEnum > array
performance_bottlenecks_110n <i>optional</i>	Localized message array corresponding to performance_bottlenecks Was added in version 4.2.0.0.	< string > array

Name	Description	Schema
recommended_max_sustainable_iops_at_const_workload <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.1.0.0. Values was added in 4.2.0.0: performance_bottlenecks. Unit : iops	number (float)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	Headroom evaluation timestamp.	string (date-time)

performance_headroom_by_appliance_rollup

Performance metrics for the appliance. Was added in version 4.2.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier representing a specific appliance.	string

Name	Description	Schema
avg_latency <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : microseconds	number (float)
avg_total_iops <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : iops	number (float)

Name	Description	Schema
effective_cpu_core_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
headroom <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
incr_current_workload_pattern <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_backend_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
max_cpu_core_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_fe_cpu_core_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
max_fe_port_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_file_cpu_core_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
max_log_media_util <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_sustainable_iops_at_const_workload <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : iops	number (float)
performance_bottlenecks <i>optional</i>		< PerformanceBottleneckEnum > array
performance_bottlenecks_list <i>optional</i>	Localized message array corresponding to performance_bottlenecks Was added in version 4.2.0.0.	< string > array

Name	Description	Schema
recommended_max_sustainable_iops_at_const_workload <i>optional</i>	Describes performance headroom for an appliance at a specified time based on IO workload pattern observed over last 24 hours. Headroom (unutilized performance capabilities of a system) is calculated using resource utilization of IO processing hardware components such as FE port, CPU, Backend and NVRAM. Using headroom, max. sustainable IOPS at equivalent const. workload and increment in current workload pattern are calculated. $\text{max\_sustainable\_iops\_at\_const\_workload} = \text{avg\_total\_iops} * (100 / (100 - \text{headroom}))$ $\text{incr\_current\_workload\_pattern} = 100 / (100 - \text{headroom} - 1) * 100$ Performance headroom is available only at one day interval. Was added in version 4.2.0.0. Unit : iops	number (float)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	Headroom evaluation timestamp.	string (date-time)

performance_metrics_by_appliance

Performance metrics for the appliance collected at twenty second interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier representing a specific appliance.	string
avg_copy_io_size <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes	number (float)
avg_copy_latency <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : microseconds	number (float)

Name	Description	Schema
avg_io_size <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : microseconds	number (float)
avg_mirror_overhead_latency <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : microseconds	number (float)
avg_mirror_write_latency <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes	number (float)
avg_unmap_io_size <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes	number (float)
avg_unmap_latency <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : microseconds	number (float)
avg_write_latency <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : microseconds	number (float)

Name	Description	Schema
avg_write_size <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes	number (float)
avg_zero_io_size <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes	number (float)
avg_zero_lateness <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : microseconds	number (float)
copy_bandwidth <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes/sec	number (float)
copy_iops <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : ios/sec	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
io_workload_cpu_utilization <i>optional</i>	The percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests.	number (float)
mirror_write_bandwidth <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes	number (float)
mirror_write_iops <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : ios/sec	number (float)

Name	Description	Schema
read_bandwidth <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes	number (float)
read_iops <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes	number (float)
total_iops <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : ios/sec	number
unmap_bandwidth <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes/sec	number (float)
unmap_iops <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes	number (float)

Name	Description	Schema
write_iops <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : ios/sec	number (float)
zero_bandwidth <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : bytes/sec	number (float)
zero_iops <i>optional</i>	Performance metrics for the appliance collected at twenty second interval. Unit : ios/sec	number (float)

performance_metrics_by_appliance_resource_util_rollup

Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals begining with timestamp, including the average and maximum values.

Was added in version 4.1.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier representing a specific appliance.	string
avg_backend_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals begining with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
avg_cpu_core_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
avg_effective_cpu_core_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
avg_fe_cpu_core_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
avg_fe_port_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
avg_file_cpu_core_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
avg_log_media_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
max_backend_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_cpu_core_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
max_effective_cpu_core_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_fe_cpu_core_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_fe_port_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
max_file_cpu_core_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)

Name	Description	Schema
max_log_media_util <i>optional</i>	Summary of appliance level hardware resource utilization of various IO path components for various rollup intervals beginning with timestamp, including the average and maximum values. Was added in version 4.1.0.0. Unit : percent Minimum value : 0 Maximum value : 100 Example : 50.0	number (float)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

performance_metrics_by_appliance_rollup

Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier representing a specific appliance.	string
avg_copy_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_copy_io_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
avg_copy_iops <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_copy_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_io_workload_cpu_utilization <i>optional</i>	The average percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests. Calculated over time interval across appliance. Derived from an average of utilization across all nodes within the appliance.	number (float)
avg_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_mirror_overhead_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_mirror_write_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_mirror_write_iops <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
avg_mirror_write_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number

Name	Description	Schema
avg_unmap_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_unmap_io_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_unmap_iops <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_unmap_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_write_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_write_iops <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
avg_write_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_zero_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_zero_io_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_zero_iops <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_zero_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
max_avg_copy_io_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
max_avg_copy_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_io_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_mirror_overhead_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_mirror_write_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
max_avg_unm ap_io_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_unm ap_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_writ e_latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_writ e_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_zero _io_size <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_zero _latency <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_copy_ba ndwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)

Name	Description	Schema
max_copy_ios <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_io_workload_cpu_utilization <i>optional</i>	The maximum percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests. Calculated over time interval across appliance. Derived from an average of utilization across all nodes within the appliance.	number (float)
max_mirror_write_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_mirror_write_ios <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_read_ios <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_total_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_total_ios <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number

Name	Description	Schema
max_unmap_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_unmap_ios <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_write_ios <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_zero_bandwidth <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_zero_ios <i>optional</i>	Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string

Name	Description	Schema
timestamp <i>optional</i>	End of sample period.	string (date-time)

performance_metrics_by_cluster

Performance metrics for the cluster collected at twenty second interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
avg_copy_io_size <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes	number (float)
avg_copy_latency <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : microseconds	number (float)
avg_mirror_overhead_latency <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : microseconds	number (float)
avg_mirror_write_latency <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : microseconds	number (float)

Name	Description	Schema
avg_read_lateness <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes	number (float)
avg_unmap_io_size <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes	number (float)
avg_unmap_lateness <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : microseconds	number (float)
avg_write_lateness <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes	number (float)
avg_zero_io_size <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes	number (float)
avg_zero_lateness <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : microseconds	number (float)
cluster_id <i>optional</i>	Identifier of the cluster.	string

Name	Description	Schema
copy_bandwidth <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes/sec	number (float)
copy_iops <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : ios/sec	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
mirror_write_bandwidth <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes	number (float)
mirror_write_iops <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : ios/sec	number (float)
read_bandwidth <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes	number (float)
read_iops <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string

Name	Description	Schema
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes	number (float)
total_iops <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : ios/sec	number (float)
unmap_bandwidth <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes/sec	number (float)
unmap_iops <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes	number (float)
write_iops <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : ios/sec	number (float)
zero_bandwidth <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : bytes/sec	number (float)
zero_iops <i>optional</i>	Performance metrics for the cluster collected at twenty second interval. Unit : ios/sec	number (float)

performance_metrics_by_cluster_rollup

Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
avg_copy_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_copy_io_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_copy_iops <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_copy_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
avg_mirror_overhead_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_mirror_write_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_mirror_write_iops <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_mirror_write_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
avg_read_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number
avg_unmap_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_unmap_io_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_unmap_iops <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_unmap_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
avg_write_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_write_ios <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_zero_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_zero_io_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_zero_iops <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
avg_zero_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
cluster_id <i>optional</i>	Identifier of the cluster.	string
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
max_avg_copy_io_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_copy_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_io_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_mirror_overhead_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_mirror_write_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_unmap_io_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_unmap_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
max_avg_zero_io_size <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_zero_latency <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_copy_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_copy_ios <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_mirror_write_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_mirror_write_ios <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
max_read_ios <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_total_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_total_ios <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number
max_unmap_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_unmap_ops <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_write_ios <i>optional</i>	Maximum writes per second.	number (float)
max_zero_bandwidth <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)

Name	Description	Schema
max_zero_ios <i>optional</i>	Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

performance_metrics_by_fe_eth_node

Ethernet performance metrics for the node collected at twenty second interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
bytes_rx_ps <i>optional</i>	Ethernet performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
bytes_tx_ps <i>optional</i>	Ethernet performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string

Name	Description	Schema
node_id <i>optional</i>	Reference to the associated node on which these metrics were recorded.	string
pkt_rx_crc_error_ps <i>optional</i>	The number of packets received with CRC error (and thus dropped) per second.	number (float)
pkt_rx_no_buffer_error_ps <i>optional</i>	The number of packets discarded per second due to lack of buffer space.	number (float)
pkt_rx_ps <i>optional</i>	The number of packets received per second.	number (float)
pkt_tx_error_ps <i>optional</i>	The number of packets that failed to be transmitted per second due to error.	number (float)
pkt_tx_ps <i>optional</i>	The number of packets transmitted per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

performance_metrics_by_fe_eth_node_rollup

Ethernet performance metrics for the node rolled up at various rollup intervals.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string

Name	Description	Schema
avg_bytes_rx_ps <i>optional</i>	Ethernet performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_bytes_tx_ps <i>optional</i>	Ethernet performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_pkt_rx_crc_error_ps <i>optional</i>	The average number of packets received with CRC error (and thus dropped) per second.	number (float)
avg_pkt_rx_no_buffer_error_ps <i>optional</i>	The average number of packets discarded per second due to lack of buffer space.	number (float)
avg_pkt_rx_ps <i>optional</i>	Ethernet performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_pkt_tx_error_ps <i>optional</i>	The average number of packets that failed to be transmitted per second due to error.	number (float)
avg_pkt_tx_ps <i>optional</i>	Ethernet performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
max_bytes_rx_ps <i>optional</i>	Ethernet performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)

Name	Description	Schema
max_bytes_tx_ps <i>optional</i>	Ethernet performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_pkt_rx_crc_error_ps <i>optional</i>	The maximum number of packets received with CRC error (and thus dropped) per second.	number (float)
max_pkt_rx_no_buffer_error_ps <i>optional</i>	The maximum number of packets discarded per second due to lack of buffer space.	number (float)
max_pkt_rx_ps <i>optional</i>	The maximum number of packets received per second.	number (float)
max_pkt_tx_error_ps <i>optional</i>	The maximum number of packets that failed to be transmitted per second due to error.	number (float)
max_pkt_tx_ps <i>optional</i>	The maximum number of packets transmitted per second.	number (float)
node_id <i>optional</i>	Reference to the associated node on which these metrics were recorded.	string
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

performance_metrics_by_fe_eth_port

Performance metrics for the frontend ethernet port collected at twenty second interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
bytes_rx_ps <i>optional</i>	Performance metrics for the frontend ethernet port collected at twenty second interval. Unit : bytes	number (float)
bytes_tx_ps <i>optional</i>	Performance metrics for the frontend ethernet port collected at twenty second interval. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
fe_port_id <i>optional</i>	Reference to the associated frontend ethernet port (eth_port) on which these metrics were recorded.	string
node_id <i>optional</i>	Reference to the node the port belongs to.	string
pkt_rx_crc_error_ps <i>optional</i>	The number of packets received with CRC error (and thus dropped) per second.	number (float)
pkt_rx_no_buffer_error_ps <i>optional</i>	The number of packets discarded per second due to lack of buffer space.	number (float)
pkt_rx_ps <i>optional</i>	The number of packets received per second.	number (float)
pkt_tx_error_ps <i>optional</i>	The number of packets that failed to be transmitted per second due to error.	number (float)

Name	Description	Schema
pkt_tx_ps <i>optional</i>	The number of packets transmitted per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

performance_metrics_by_fe_eth_port_rollup

Performance metrics for the frontend ethernet port rolled up at various rollup intervals.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
avg_bytes_rx_ps <i>optional</i>	Performance metrics for the frontend ethernet port rolled up at various rollup intervals. Unit : bytes	number (float)
avg_bytes_tx_ps <i>optional</i>	Performance metrics for the frontend ethernet port rolled up at various rollup intervals. Unit : bytes	number (float)
avg_pkt_rx_crc_error_ps <i>optional</i>	The average number of packets received with CRC error (and thus dropped) per second.	number (float)
avg_pkt_rx_no_buffer_error_ps <i>optional</i>	The average number of packets discarded per second due to lack of buffer space.	number (float)

Name	Description	Schema
avg_pkt_rx_ps <i>optional</i>	The average number of packets received per second.	number (float)
avg_pkt_tx_error_ps <i>optional</i>	The average number of packets that failed to be transmitted per second due to error.	number (float)
avg_pkt_tx_ps <i>optional</i>	The average number of packets transmitted per second.	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
fe_port_id <i>optional</i>	Reference to the associated frontend ethernet port (eth_port) on which these metrics were recorded.	string
max_bytes_rx_ps <i>optional</i>	Performance metrics for the frontend ethernet port rolled up at various rollup intervals. Unit : bytes	number (float)
max_bytes_tx_ps <i>optional</i>	Performance metrics for the frontend ethernet port rolled up at various rollup intervals. Unit : bytes	number (float)
max_pkt_rx_crc_error_ps <i>optional</i>	The maximum number of packets received with CRC error (and thus dropped) per second.	number (float)
max_pkt_rx_no_buffer_error_ps <i>optional</i>	The maximum number of packets discarded per second due to lack of buffer space.	number (float)
max_pkt_rx_ps <i>optional</i>	The maximum number of packets received per second.	number (float)

Name	Description	Schema
max_pkt_tx_error_ps <i>optional</i>	The maximum number of packets that failed to be transmitted per second due to error.	number (float)
max_pkt_tx_ps <i>optional</i>	The maximum number of packets transmitted per second.	number (float)
node_id <i>optional</i>	Reference to the node the port belongs to.	string
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

performance_metrics_by_fe_fc_node

Fibre channel performance metrics for the node collected at twenty second interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded. Was added in version 3.5.0.0.	string
avg_copy_io_size <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_copy_latency <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)

Name	Description	Schema
avg_io_size <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_unmap_io_size <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_unmap_latency <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_zero_io_size <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_zero_latency <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)

Name	Description	Schema
copy_bandwidth <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes/sec	number (float)
copy_iops <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : ios/sec	number (float)
current_logins <i>optional</i>	The number of logins to the target from initiators. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
dumped_frames_ps <i>optional</i>	Dumped frames per second.	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
invalid_crc_count_ps <i>optional</i>	Invalid crc count per second.	number (float)
invalid_tx_word_count_ps <i>optional</i>	Invalid transmission word count per second.	number (float)
link_failure_count_ps <i>optional</i>	Link failure count per second.	number (float)
loss_of_signal_count_ps <i>optional</i>	Loss of signal count per second.	number (float)
loss_of_sync_count_ps <i>optional</i>	Loss of sync count per second.	number (float)

Name	Description	Schema
node_id <i>optional</i>	Reference to the associated node on which these metrics were recorded.	string
prim_seq_prot_err_count_ps <i>optional</i>	Primitive sequence protocol error count per second.	number (float)
read_bandwidth <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
read_iops <i>optional</i>	Total number of read operations by the node.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
total_iops <i>optional</i>	Total read and write operations per second.	number (float)
unaligned_bandwidth <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
unaligned_iops <i>optional</i>	Unaligned total input/output per second. Was deprecated in version 2.1.0.0.	number (float)

Name	Description	Schema
unaligned_read_bandwidth <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
unaligned_read_iops <i>optional</i>	Unaligned read input/output per second. Was deprecated in version 2.1.0.0.	number (float)
unaligned_write_bandwidth <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
unaligned_write_iops <i>optional</i>	Unaligned write input/output per second. Was deprecated in version 2.1.0.0.	number (float)
unmap_bandwidth <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes/sec	number (float)
unmap_iops <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
write_iops <i>optional</i>	Total write operations per second.	number (float)
zero_bandwidth <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : bytes/sec	number (float)
zero_iops <i>optional</i>	Fibre channel performance metrics for the node collected at twenty second interval. Unit : ios/sec	number (float)

performance_metrics_by_fe_fc_node_rollup

Fibre channel performance metrics for the node rolled up at various rollup intervals.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded. Was added in version 3.5.0.0.	string
avg_copy_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes/sec	number (float)
avg_copy_io_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_copy_iops <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : ios/sec	number (float)
avg_copy_latency <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : microseconds	number (float)
avg_current_logins <i>optional</i>	Average number of logins to the target from initiators. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
avg_dumped_frames_ps <i>optional</i>	Average dumped frames per second.	number (float)
avg_invalid_crc_count_ps <i>optional</i>	Average invalid crc count per second.	number (float)

Name	Description	Schema
avg_invalid_tx_word_count_ps <i>optional</i>	Average invalid transmission word count per second.	number (float)
avg_io_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_latency <i>optional</i>	Weighted average latency in microseconds.	number (float)
avg_link_failure_count_ps <i>optional</i>	Average link failure count per second.	number (float)
avg_loss_of_signal_count_ps <i>optional</i>	Average loss of signal count per second.	number (float)
avg_loss_of_sync_count_ps <i>optional</i>	Average loss of sync count per second.	number (float)
avg_prim_seq_prot_err_count_ps <i>optional</i>	Average primitive sequence protocol error count per second.	number (float)
avg_read_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Average reads per second.	number (float)
avg_read_latency <i>optional</i>	Weighted average read latency in microseconds.	number (float)

Name	Description	Schema
avg_read_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Average total input and output operations per second.	number
avg_unaligned_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_unaligned_iops <i>optional</i>	Average unaligned total input/output per second. Was deprecated in version 2.1.0.0.	number (float)
avg_unaligned_read_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_unaligned_read_iops <i>optional</i>	Average unaligned read input/output per second. Was deprecated in version 2.1.0.0.	number (float)
avg_unaligned_write_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_unaligned_write_iops <i>optional</i>	Average unaligned write input/output per second. Was deprecated in version 2.1.0.0.	number (float)
avg_unmap_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes/sec	number (float)

Name	Description	Schema
avg_unmap_io_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_unmap_iops <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : ios/sec	number (float)
avg_unmap_latency <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : microseconds	number (float)
avg_write_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_write_iops <i>optional</i>	Average writes per second.	number (float)
avg_write_latency <i>optional</i>	Weighted average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
avg_zero_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes/sec	number (float)
avg_zero_io_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)

Name	Description	Schema
avg_zero_iops <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : ios/sec	number (float)
avg_zero_latency <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : microseconds	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
max_avg_copy_io_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_avg_copy_latency <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : microseconds	number (float)
max_avg_io_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Maximum of average latency in microseconds.	number (float)
max_avg_read_latency <i>optional</i>	Maximum read latency in microseconds.	number (float)
max_avg_read_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)

Name	Description	Schema
max_avg_unmap_io_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_avg_unmap_latency <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : microseconds	number (float)
max_avg_write_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
max_avg_write_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_avg_zero_io_size <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_avg_zero_latency <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : microseconds	number (float)
max_copy_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes/sec	number (float)
max_copy_ios <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : ios/sec	number (float)
max_current_logins <i>optional</i>	Maximum number of logins to the target from initiators. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
max_dumped_frames_ps <i>optional</i>	The maximum dumped frames per second.	number (float)
max_invalid_crc_count_ps <i>optional</i>	The maximum invalid crc count per second.	number (float)
max_invalid_tx_word_count_ps <i>optional</i>	The maximum invalid transmission word count per second.	number (float)
max_link_failure_count_ps <i>optional</i>	The maximum link failure count per second.	number (float)
max_loss_of_signal_count_ps <i>optional</i>	The maximum loss of signal count per second.	number (float)
max_loss_of_sync_count_ps <i>optional</i>	The maximum loss of sync count per second.	number (float)
max_primitive_seq_prot_err_count_ps <i>optional</i>	The maximum primitive sequence protocol error count per second.	number (float)
max_read_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_read_iops <i>optional</i>	Maximum reads per second.	number (float)
max_total_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)

Name	Description	Schema
max_total_iops <i>optional</i>	Maximum totals per second.	number
max_unaligned_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_unaligned_iops <i>optional</i>	Maximum unaligned total input/output per second. Was deprecated in version 2.1.0.0.	number (float)
max_unaligned_read_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_unaligned_read_iops <i>optional</i>	Maximum unaligned read input/output per second. Was deprecated in version 2.1.0.0.	number (float)
max_unaligned_write_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)
max_unaligned_write_iops <i>optional</i>	Maximum unaligned write input/output per second. Was deprecated in version 2.1.0.0.	number (float)
max_unmap_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes/sec	number (float)
max_unmap_iops <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : ios/sec	number (float)
max_write_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes	number (float)

Name	Description	Schema
max_write_ios <i>optional</i>	Maximum writes per second.	number (float)
max_zero_bandwidth <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : bytes/sec	number (float)
max_zero_ios <i>optional</i>	Fibre channel performance metrics for the node rolled up at various rollup intervals. Unit : ios/sec	number (float)
node_id <i>optional</i>	Reference to the associated node on which these metrics were recorded.	string
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

performance_metrics_by_fe_fc_port

Performance metrics for the frontend fibre channel port collected at twenty second interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
avg_copy_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)

Name	Description	Schema
avg_copy_latency <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)
avg_unmap_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)
avg_unmap_latency <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : microseconds	number (float)
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)
avg_zero_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)

Name	Description	Schema
avg_zero_latency <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : microseconds	number (float)
copy_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes/sec	number (float)
copy_iops <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : ios/sec	number (float)
current_logins <i>optional</i>	The number of logins to the target from initiators. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
dumped_frames_ps <i>optional</i>	Dumped frames per second.	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
fe_port_id <i>optional</i>	Reference to the associated frontend fibre channel port (fc_port) on which these metrics were recorded.	string
invalid_crc_count_ps <i>optional</i>	Invalid crc count per second.	number (float)
invalid_tx_word_count_ps <i>optional</i>	Invalid transmission word count per second.	number (float)
link_failure_count_ps <i>optional</i>	Link failure count per second.	number (float)

Name	Description	Schema
loss_of_signal_count_ps <i>optional</i>	Loss of signal count per second.	number (float)
loss_of_sync_count_ps <i>optional</i>	Loss of sync count per second.	number (float)
node_id <i>optional</i>	Reference to the node the port belongs to.	string
prim_seq_prot_err_count_ps <i>optional</i>	Primitive sequence protocol error count per second.	number (float)
read_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)
read_iops <i>optional</i>	Total number of read operations by the node.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)
total_iops <i>optional</i>	Total read and write operations per second.	number (float)

Name	Description	Schema
unaligned_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)
unaligned_iops <i>optional</i>	Unaligned total input/output per second. Was deprecated in version 2.1.0.0.	number (float)
unaligned_read_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)
unaligned_read_iops <i>optional</i>	Unaligned read input/output per second. Was deprecated in version 2.1.0.0.	number (float)
unaligned_write_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)
unaligned_write_iops <i>optional</i>	Unaligned write input/output per second. Was deprecated in version 2.1.0.0.	number (float)
unmap_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes/sec	number (float)
unmap_iops <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes	number (float)
write_iops <i>optional</i>	Total write operations per second.	number (float)

Name	Description	Schema
zero_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : bytes/sec	number (float)
zero_iops <i>optional</i>	Performance metrics for the frontend fibre channel port collected at twenty second interval. Unit : ios/sec	number (float)

performance_metrics_by_fe_fc_port_rollup

Performance metrics for the frontend fibre channel port rolled up at various intervals.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
avg_copy_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes/sec	number (float)
avg_copy_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
avg_copy_iops <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : ios/sec	number (float)
avg_copy_latency <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : microseconds	number (float)
avg_current_logins <i>optional</i>	Average number of logins to the target from initiators. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
avg_dumped_frames_ps <i>optional</i>	Average dumped frames per second.	number (float)
avg_invalid_crc_count_ps <i>optional</i>	Average invalid crc count per second.	number (float)
avg_invalid_tx_word_count_ps <i>optional</i>	Average invalid transmission word count per second.	number (float)
avg_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
avg_latency <i>optional</i>	Weighted average latency in microseconds.	number (float)
avg_link_failure_count_ps <i>optional</i>	Average link failure count per second.	number (float)
avg_loss_of_signal_count_ps <i>optional</i>	Average loss of signal count per second.	number (float)
avg_loss_of_sync_count_ps <i>optional</i>	Average loss of sync count per second.	number (float)
avg_prim_seq_prot_err_count_ps <i>optional</i>	Average primitive sequence protocol error count per second.	number (float)
avg_read_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)

Name	Description	Schema
avg_read_iops <i>optional</i>	Average reads per second.	number (float)
avg_read_latency <i>optional</i>	Weighted average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Average total input and output operations per second.	number
avg_unaligned_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
avg_unaligned_iops <i>optional</i>	Average unaligned total input/output per second. Was deprecated in version 2.1.0.0.	number (float)
avg_unaligned_read_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
avg_unaligned_read_iops <i>optional</i>	Average unaligned read input/output per second.	number (float)
avg_unaligned_write_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)

Name	Description	Schema
avg_unaligned_write_iops <i>optional</i>	Average unaligned write input/output per second.	number (float)
avg_unmap_bw <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes/sec	number (float)
avg_unmap_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
avg_unmap_iops <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : ios/sec	number (float)
avg_unmap_latency <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : microseconds	number (float)
avg_write_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
avg_write_iops <i>optional</i>	Average writes per second.	number (float)
avg_write_latency <i>optional</i>	Weighted average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)

Name	Description	Schema
avg_zero_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes/sec	number (float)
avg_zero_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
avg_zero_iops <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : ios/sec	number (float)
avg_zero_latency <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : microseconds	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
fe_port_id <i>optional</i>	Reference to the associated frontend fibre channel port (fc_port) on which these metrics were recorded.	string
max_avg_copy_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
max_avg_copy_latency <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : microseconds	number (float)
max_avg_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)

Name	Description	Schema
max_avg_latency <i>optional</i>	Maximum of average latency in microseconds.	number (float)
max_avg_read_latency <i>optional</i>	Maximum read latency in microseconds.	number (float)
max_avg_read_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
max_avg_unmap_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
max_avg_unmap_latency <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : microseconds	number (float)
max_avg_write_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
max_avg_write_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
max_avg_zero_io_size <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
max_avg_zero_latency <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : microseconds	number (float)

Name	Description	Schema
max_copy_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes/sec	number (float)
max_copy_ios <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : ios/sec	number (float)
max_current_logins <i>optional</i>	Maximum number of logins to the target from initiators. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_dumped_frames_ps <i>optional</i>	The maximum dumped frames per second.	number (float)
max_invalid_crc_count_ps <i>optional</i>	The maximum invalid crc count per second.	number (float)
max_invalid_tx_word_count_ps <i>optional</i>	The maximum invalid transmission word count per second.	number (float)
max_link_failure_count_ps <i>optional</i>	The maximum link failure count per second.	number (float)
max_loss_of_signal_count_ps <i>optional</i>	The maximum loss of signal count per second.	number (float)
max_loss_of_sync_count_ps <i>optional</i>	The maximum loss of sync count per second.	number (float)
max_prim_seq_prot_err_count_ps <i>optional</i>	The maximum primitive sequence protocol error count per second.	number (float)

Name	Description	Schema
max_read_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
max_read_iops <i>optional</i>	Maximum reads per second.	number (float)
max_total_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
max_total_iops <i>optional</i>	Maximum totals per second.	number
max_unaligned_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
max_unaligned_iops <i>optional</i>	Maximum unaligned total input/output per second. Was deprecated in version 2.1.0.0.	number (float)
max_unaligned_read_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
max_unaligned_read_iops <i>optional</i>	Maximum unaligned read input/output per second. Was deprecated in version 2.1.0.0.	number (float)
max_unaligned_write_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
max_unaligned_write_iops <i>optional</i>	Maximum unaligned write input/output per second. Was deprecated in version 2.1.0.0.	number (float)

Name	Description	Schema
max_unmap_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes/sec	number (float)
max_unmap_ios <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : ios/sec	number (float)
max_write_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes	number (float)
max_write_ios <i>optional</i>	Maximum writes per second.	number (float)
max_zero_bandwidth <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : bytes/sec	number (float)
max_zero_ios <i>optional</i>	Performance metrics for the frontend fibre channel port rolled up at various intervals. Unit : ios/sec	number (float)
node_id <i>optional</i>	Reference to the node the port belongs to.	string
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

performance_metrics_by_file_system

Performance metrics for the file system collected at twenty second interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_latency <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : microseconds	number (float)
avg_mirror_overhead_latency <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : bytes	number (float)
avg_size <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : bytes	number (float)

Name	Description	Schema
block_avg_write_latency <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : microseconds	number (float)
block_write_bandwidth <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : bytes/sec	number (float)
block_write_iops <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : ios/sec	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
file_system_id <i>optional</i>	Unique identifier of the file system.	string
mirror_write_bandwidth <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : bytes/sec	number (float)
mirror_write_iops <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : ios/sec	number (float)
read_bandwidth <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : bytes/sec	number (float)
read_iops <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : ios/sec	number (float)

Name	Description	Schema
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values.If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : bytes/sec	number (float)
total_iops <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : bytes/sec	number (float)
write_iops <i>optional</i>	Performance metrics for the file system collected at twenty second interval. Unit : ios/sec	number (float)

performance_metrics_by_file_system_rollup

Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string

Name	Description	Schema
avg_block_write_bandwidth <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_block_write_iops <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_block_write_latency <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_latency <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_mirror_overhead_latency <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_mirror_write_bandwidth <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_mirror_write_iops <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
avg_read_bandwidth <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_read_iops <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_size <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_total_iops <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
avg_write_bandwidth <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_write_ios <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
file_system_id <i>optional</i>	Unique identifier of the file system.	string
max_avg_block_write_latency <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_latency <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_mirror_overhead_latency <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_size <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_block_write_bandwidth <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)

Name	Description	Schema
max_block_write_iops <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_iops <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_mirror_write_bandwidth <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_mirror_write_iops <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_read_iops <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_total_bandwidth <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)

Name	Description	Schema
max_write_bandwidth <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_write_ios <i>optional</i>	Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values.If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

performance_metrics_by_hg

Performance metrics for the hosts in a host group collected at twenty second interval. Was added in version 3.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
avg_copy_io_size <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_copy_lateness <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : microseconds	number (float)

Name	Description	Schema
avg_io_size <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_unmap_io_size <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_unmap_latency <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_io_size <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_latency <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : microseconds	number (float)

Name	Description	Schema
copy_bandwidth <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
copy_iops <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
hg_id <i>optional</i>	Reference to the associated host group for which these metrics were recorded.	string
read_bandwidth <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
read_iops <i>optional</i>	Total read operations per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
total_iops <i>optional</i>	Total read and write operations per second.	number
unmap_bandwidth <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
unmap_iops <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
write_iops <i>optional</i>	Total write operations per second.	number (float)
zero_bandwidth <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
zero_iops <i>optional</i>	Performance metrics for the host group collected at twenty second interval. Was added in version 3.0.0.0. Unit : ios/sec	number (float)

performance_metrics_by_hg_rollup

Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
avg_copy_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
avg_copy_io_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_copy_iops <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
avg_copy_latency <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Weighted average latency in microseconds.	number (float)
avg_read_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_read_iops <i>optional</i>	Average reads per second.	number (float)
avg_read_latency <i>optional</i>	Weighted average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Average total input and output operations per second.	number
avg_unmap_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
avg_unmap_io_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_unmap_iops <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)

Name	Description	Schema
avg_unmap_latency <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_write_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_write_ios <i>optional</i>	Average writes per second.	number (float)
avg_write_latency <i>optional</i>	Weighted average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
avg_zero_io_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_zero_iops <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
avg_zero_latency <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
hg_id <i>optional</i>	Reference to the associated host group for which these metrics were recorded.	string
max_avg_copy_io_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_copy_latency <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
max_avg_io_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_avg_latency <i>optional</i>	Maximum of average latency in microseconds.	number (float)
max_avg_read_latency <i>optional</i>	Maximum read latency in microseconds.	number (float)
max_avg_read_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_unmap_io_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_unmap_latency <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
max_avg_write_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
max_avg_write_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_avg_zero_io_size <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_zero_latency <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
max_copy_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
max_copy_ios <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_read_ios <i>optional</i>	Maximum reads per second.	number (float)
max_total_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_total_ios <i>optional</i>	Maximum totals per second.	number
max_unmap_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
max_unmap_ios <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_write_ios <i>optional</i>	Maximum writes per second.	number (float)
max_zero_bandwidth <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
max_zero_ios <i>optional</i>	Summary of host group level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)

Name	Description	Schema
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

performance_metrics_by_host

Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
avg_copy_io_size <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_copy_latency <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)

Name	Description	Schema
avg_read_size <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_unmap_io_size <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_unmap_latency <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_io_size <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_latency <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : microseconds	number (float)
copy_bandwidth <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
copy_iops <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum

Name	Description	Schema
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
host_id <i>optional</i>	Reference to the associated host for which these metrics were recorded.	string
read_bandwidth <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
read_iops <i>optional</i>	Total read operations per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
total_iops <i>optional</i>	Total read and write operations per second.	number
unmap_bandwidth <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
unmap_iops <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : ios/sec	number (float)

Name	Description	Schema
write_bandwidth <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
write_iops <i>optional</i>	Total write operations per second.	number (float)
zero_bandwidth <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
zero_iops <i>optional</i>	Performance metrics for the host collected at twenty second interval. Was added in version 3.0.0.0. Unit : ios/sec	number (float)

performance_metrics_by_host_rollup

Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
avg_copy_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
avg_copy_io_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_copy_iops <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
avg_copy_latency <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Weighted average latency in microseconds.	number (float)
avg_read_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Average reads per second.	number (float)
avg_read_latency <i>optional</i>	Weighted average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_total_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Average total input and output operations per second.	number
avg_unmap_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
avg_unmap_io_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_unmap_iops <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
avg_unmap_latency <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_write_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_write_iops <i>optional</i>	Average writes per second.	number (float)
avg_write_latency <i>optional</i>	Weighted average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
avg_zero_io_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_iops <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
avg_zero_latency <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum

Name	Description	Schema
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
host_id <i>optional</i>	Reference to the associated host for which these metrics were recorded.	string
max_avg_copy_io_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_copy_latency <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
max_avg_io_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Maximum of average latency in microseconds.	number (float)
max_avg_read_latency <i>optional</i>	Maximum read latency in microseconds.	number (float)
max_avg_read_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_avg_unm ap_io_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_unm ap_latency <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
max_avg_writ e_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
max_avg_writ e_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_zero _io_size <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_zero _latency <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
max_copy_ba ndwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
max_copy_ios <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_read_ios <i>optional</i>	Maximum reads per second.	number (float)
max_total_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_total_ios <i>optional</i>	Maximum totals per second.	number
max_unmap_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
max_unmap_ios <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)

Name	Description	Schema
max_write_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_write_iops <i>optional</i>	Maximum writes per second.	number (float)
max_zero_bandwidth <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
max_zero_iops <i>optional</i>	Summary of host level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

performance_metrics_by_initiator

Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
avg_copy_io_size <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_copy_latency <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_unmap_io_size <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_unmap_latency <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_zero_io_size <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_lateness <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : microseconds	number (float)
copy_bandwidth <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
copy_iops <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
initiator_id <i>optional</i>	Reference to the associated initiator for which these metrics were recorded.	string
read_bandwidth <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
read_iops <i>optional</i>	Total read operations per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string

Name	Description	Schema
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
total_iops <i>optional</i>	Total read and write operations per second.	number
unmap_bandwidth <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
unmap_iops <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes	number (float)
write_iops <i>optional</i>	Total write operations per second.	number (float)
zero_bandwidth <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
zero_iops <i>optional</i>	Performance metrics for the initiator collected at twenty second interval. Was added in version 3.0.0.0. Unit : ios/sec	number (float)

performance_metrics_by_initiator_rollup

Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
avg_copy_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
avg_copy_io_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_copy_iops <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
avg_copy_latency <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Weighted average latency in microseconds.	number (float)

Name	Description	Schema
avg_read_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Average reads per second.	number (float)
avg_read_latency <i>optional</i>	Weighted average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Average total input and output operations per second.	number
avg_unmap_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
avg_unmap_io_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_unmap_iops <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
avg_unmap_latency <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
avg_write_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_write_iops <i>optional</i>	Average writes per second.	number (float)
avg_write_latency <i>optional</i>	Weighted average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
avg_zero_io_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
avg_zero_iops <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
avg_zero_latency <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
initiator_id <i>optional</i>	Reference to the associated initiator for which these metrics were recorded.	string
max_avg_copy_io_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_copy_latency <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_io_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Maximum of average latency in microseconds.	number (float)
max_avg_read_latency <i>optional</i>	Maximum read latency in microseconds.	number (float)
max_avg_read_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_unmap_io_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_unmap_latency <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
max_avg_write_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)

Name	Description	Schema
max_avg_write_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_zero_io_size <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_avg_zero_latency <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : microseconds	number (float)
max_copy_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
max_copy_ios <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_read_ios <i>optional</i>	Maximum reads per second.	number (float)

Name	Description	Schema
max_total_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_total_ios <i>optional</i>	Maximum totals per second.	number
max_unmap_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)
max_unmap_ios <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes	number (float)
max_write_ios <i>optional</i>	Maximum writes per second.	number (float)
max_zero_bandwidth <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
max_zero_ios <i>optional</i>	Summary of initiator level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 3.0.0.0. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

performance_metrics_by_ip_port

Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded. Was added in version 3.5.0.0.	string
avg_copy_io_size <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_copy_latency <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_unmap_io_size <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_unmap_latency <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_zero_io_size <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_zero_latency <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
copy_bandwidth <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
copy_iops <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
ip_port_id <i>optional</i>	Unique identifier representing a specific port.	string
read_bandwidth <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
read_iops <i>optional</i>	Total read operations per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics is repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
total_iops <i>optional</i>	Total read and write operations per second.	number

Name	Description	Schema
unmap_bandwidth <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
unmap_iops <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
write_iops <i>optional</i>	Total write operations per second.	number (float)
zero_bandwidth <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
zero_iops <i>optional</i>	Performance metrics for the ip port (total) collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)

performance_metrics_by_ip_port_iscsi

Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded. Was added in version 3.5.0.0.	string
avg_copy_io_size <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_copy_latency <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_unmap_io_size <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_unmap_latency <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_zero_io_size <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_zero_latency <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
copy_bandwidth <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
copy_iops <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
ip_port_id <i>optional</i>	Unique identifier representing a specific port.	string
read_bandwidth <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
read_iops <i>optional</i>	Total read operations per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics is repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

Name	Description	Schema
total_bandwidth <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
total_iops <i>optional</i>	Total read and write operations per second.	number
unmap_bandwidth <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
unmap_iops <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
write_iops <i>optional</i>	Total write operations per second.	number (float)
zero_bandwidth <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
zero_iops <i>optional</i>	Performance metrics for the ip port (iSCSI) collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)

performance_metrics_by_ip_port_iscsi_rollup

Performance metrics for the ip port (iSCSI) rolled up at various intervals. Was added in version 2.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded. Was added in version 3.5.0.0.	string
avg_copy_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
avg_copy_io_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_copy_iops <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_copy_latency <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Weighted average latency in microseconds.	number (float)

Name	Description	Schema
avg_read_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Average reads per second.	number (float)
avg_read_latency <i>optional</i>	Weighted average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Average total input and output operations per second.	number
avg_unmap_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
avg_unmap_io_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_unmap_ios <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_unmap_latency <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_write_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_write_ios <i>optional</i>	Average writes per second.	number (float)
avg_write_latency <i>optional</i>	Weighted average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_zero_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
avg_zero_io_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_zero_iops <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_zero_latency <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
ip_port_id <i>optional</i>	Unique identifier representing a specific port.	string
max_avg_copy_io_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_copy_latency <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_io_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Maximum of average latency in microseconds.	number (float)
max_avg_read_latency <i>optional</i>	Maximum read latency in microseconds.	number (float)
max_avg_read_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_unmap_io_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_unmap_latency <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_avg_write_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)

Name	Description	Schema
max_avg_write_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_zero_io_size <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_zero_latency <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_copy_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_copy_ios <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_read_ios <i>optional</i>	Maximum reads per second.	number (float)

Name	Description	Schema
max_total_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_total_ios <i>optional</i>	Maximum totals per second.	number
max_unmap_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_unmap_ios <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_write_ios <i>optional</i>	Maximum writes per second.	number (float)
max_zero_bandwidth <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
max_zero_ios <i>optional</i>	Summary of ip port (iSCSI) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of times the metrics is repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

performance_metrics_by_ip_port_rollup

Performance metrics for the ip port (total) rolled up at various intervals. Was added in version 2.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded. Was added in version 3.5.0.0.	string
avg_copy_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
avg_copy_io_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_copy_iops <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_copy_latency <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_io_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Weighted average latency in microseconds.	number (float)
avg_read_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Average reads per second.	number (float)
avg_read_latency <i>optional</i>	Weighted average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_total_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Average total input and output operations per second.	number
avg_unmap_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
avg_unmap_io_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_unmap_iops <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_unmap_latency <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_write_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_write_iops <i>optional</i>	Average writes per second.	number (float)
avg_write_latency <i>optional</i>	Weighted average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_zero_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
avg_zero_io_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_zero_iops <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_zero_latency <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum

Name	Description	Schema
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
ip_port_id <i>optional</i>	Unique identifier representing a specific port.	string
max_avg_copy_io_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_copy_latency <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_avg_io_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Maximum of average latency in microseconds.	number (float)
max_avg_read_latency <i>optional</i>	Maximum read latency in microseconds.	number (float)
max_avg_read_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_avg_unm ap_io_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_unm ap_latency <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_avg_writ e_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
max_avg_writ e_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_zero _io_size <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_zero _latency <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_copy_ba ndwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
max_copy_ios <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_read_ios <i>optional</i>	Maximum reads per second.	number (float)
max_total_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_total_ios <i>optional</i>	Maximum totals per second.	number
max_unmap_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_unmap_ios <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)

Name	Description	Schema
max_write_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_write_ios <i>optional</i>	Maximum writes per second.	number (float)
max_zero_bandwidth <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_zero_ios <i>optional</i>	Summary of ip port (total) performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of times the metrics is repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

performance_metrics_by_nas_server

Performance metrics for the nas server collected at twenty second interval.

Was added in version 3.5.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of an appliance.	string
avg_latency <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : microseconds	number (float)
avg_mirror_overhead_latency <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : bytes	number (float)
avg_size <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : bytes	number (float)
block_avg_write_latency <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : microseconds	number (float)

Name	Description	Schema
block_write_bandwidth <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
block_write_iops <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
mirror_write_bandwidth <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
mirror_write_iops <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
nas_server_id <i>optional</i>	Unique identifier of the nas server.	string
read_bandwidth <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
read_iops <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values.If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
total_iops <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
write_iops <i>optional</i>	Performance metrics for the nas server collected at twenty second interval. Was added in version 3.5.0.0. Unit : ios/sec	number (float)

performance_metrics_by_nas_server_rollup

Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Was added in version 3.5.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of an appliance.	string

Name	Description	Schema
avg_block_write_bandwidth <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
avg_block_write_iops <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
avg_block_write_latency <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : microseconds	number (float)
avg_latency <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : microseconds	number (float)
avg_mirror_overhead_latency <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : microseconds	number (float)
avg_mirror_write_bandwidth <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
avg_mirror_write_iops <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
avg_read_bandwidth <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
avg_read_iops <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes	number (float)
avg_size <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_total_bandwidth <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
avg_total_iops <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
avg_write_bandwidth <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
avg_write_iops <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes	number (float)

Name	Description	Schema
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
max_avg_block_write_latency <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : microseconds	number (float)
max_avg_latency <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : microseconds	number (float)
max_avg_mirror_overhead_latency <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_avg_size <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes	number (float)
max_block_write_bandwidth <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
max_block_write_iops <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
max_iops <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : ios/sec	number (float)

Name	Description	Schema
max_mirror_write_bandwidth <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
max_mirror_write_iops <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
max_read_iops <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
max_total_bandwidth <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
max_write_ios <i>optional</i>	Summary of nas server level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : ios/sec	number (float)
nas_server_id <i>optional</i>	Unique identifier of the nas server.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values.If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

performance_metrics_by_node

Performance metrics for the node collected at twenty second interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
avg_copy_io_size <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_copy_latency <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)

Name	Description	Schema
avg_io_size <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)
avg_mirror_overhead_latency <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)
avg_mirror_write_latency <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_unmap_io_size <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_unmap_latency <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)
avg_write_latency <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)

Name	Description	Schema
avg_write_size <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_zero_io_size <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
avg_zero_lateness <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : microseconds	number (float)
copy_bandwidth <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes/sec	number (float)
copy_iops <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : ios/sec	number (float)
current_logins <i>optional</i>	The number of logins to the target from initiators. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
io_workload_cpu_utilization <i>optional</i>	The percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests.	number (float)
mirror_write_bandwidth <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)

Name	Description	Schema
mirror_write_iops <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : ios/sec	number (float)
node_id <i>optional</i>	Unique identifier representing a specific node.	string
read_bandwidth <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
read_iops <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
total_iops <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : ios/sec	number (float)
unaligned_bandwidth <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)

Name	Description	Schema
unaligned_iops <i>optional</i>	Unaligned total input/output per second. Was deprecated in version 2.1.0.0.	number (float)
unaligned_read_bandwidth <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
unaligned_read_iops <i>optional</i>	Unaligned read input/output per second. Was deprecated in version 2.1.0.0.	number (float)
unaligned_write_bandwidth <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
unaligned_write_iops <i>optional</i>	Unaligned write input/output per second. Was deprecated in version 2.1.0.0.	number (float)
unmap_bandwidth <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes/sec	number (float)
unmap_iops <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes	number (float)
write_iops <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : ios/sec	number (float)

Name	Description	Schema
zero_bandwidth <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : bytes/sec	number (float)
zero_iops <i>optional</i>	Performance metrics for the node collected at twenty second interval. Unit : ios/sec	number (float)

performance_metrics_by_node_rollup

Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
avg_copy_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_copy_io_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_copy_iops <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
avg_copy_lateness <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_current_logins <i>optional</i>	Average number of logins to the target from initiators. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
avg_io_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_io_workload_cpu_utilization <i>optional</i>	The average percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests. Derived from an average of utilization across all cores on the node.	number (float)
avg_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_mirror_overhead_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_mirror_write_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_mirror_write_iops <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
avg_mirror_write_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number

Name	Description	Schema
avg_unaligned_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_unaligned_iops <i>optional</i>	Average unaligned total input/output per second. Was deprecated in version 2.1.0.0.	number (float)
avg_unaligned_read_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_unaligned_read_iops <i>optional</i>	Average unaligned read input/output per second. Was deprecated in version 2.1.0.0.	number (float)
avg_unaligned_write_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_unaligned_write_iops <i>optional</i>	Average unaligned write input/output per second. Was deprecated in version 2.1.0.0.	number (float)
avg_unmap_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_unmap_io_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
avg_unmap_ios <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_unmap_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_write_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_write_ios <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_zero_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)

Name	Description	Schema
avg_zero_io_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_zero_iops <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_zero_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
max_avg_copy_io_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_copy_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_io_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
max_avg_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_mirror_overhead_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_mirror_write_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_unmap_io_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_unmap_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_write_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_zero_io_size <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_zero_latency <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_copy_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_copy_ios <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_current_logins <i>optional</i>	Maximum number of logins to the target from initiators. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_io_workload_cpu_utilization <i>optional</i>	The maximum percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests. Derived from an average of utilization across all cores on the node.	number (float)

Name	Description	Schema
max_mirror_write_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_mirror_write_iops <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_read_iops <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_total_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_total_iops <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number
max_unaligned_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_unaligned_iops <i>optional</i>	Maximum unaligned total input/output per second. Was deprecated in version 2.1.0.0.	number (float)

Name	Description	Schema
max_unaligned_read_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_unaligned_read_iops <i>optional</i>	Maximum unaligned read input/output per second. Was deprecated in version 2.1.0.0.	number (float)
max_unaligned_write_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_unaligned_write_iops <i>optional</i>	Maximum unaligned write input/output per second. Was deprecated in version 2.1.0.0.	number (float)
max_unmap_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_unmap_iops <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_write_iops <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
max_zero_bandwidth <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_zero_ios <i>optional</i>	Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
node_id <i>optional</i>	Unique identifier representing a specific node.	string
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

performance_metrics_by_vg

Performance metrics for the volumes in a volume group collected at twenty second interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
avg_io_size <i>optional</i>	Performance metrics for the volumes in a volume group collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)

Name	Description	Schema
avg_mirror_overhead_latency <i>optional</i>	Performance metrics for the volumes in a volume group collected at twenty second interval. Unit : usec	number (float)
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics for the volumes in a volume group collected at twenty second interval. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics for the volumes in a volume group collected at twenty second interval. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
mirror_write_bandwidth <i>optional</i>	Performance metrics for the volumes in a volume group collected at twenty second interval. Unit : bytes/sec	number (float)
mirror_write_iops <i>optional</i>	Performance metrics for the volumes in a volume group collected at twenty second interval. Unit : IO/sec	number (float)
read_bandwidth <i>optional</i>	Performance metrics for the volumes in a volume group collected at twenty second interval. Unit : bytes	number (float)

Name	Description	Schema
read_iops <i>optional</i>	Total read operations per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the volumes in a volume group collected at twenty second interval. Unit : bytes	number (float)
total_iops <i>optional</i>	Total read and write operations per second.	number (float)
vg_id <i>optional</i>	Unique identifier representing a volume group.	string
write_bandwidth <i>optional</i>	Performance metrics for the volumes in a volume group collected at twenty second interval. Unit : bytes	number (float)
write_iops <i>optional</i>	Total write operations per second.	number (float)

performance_metrics_by_vg_rollup

Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
avg_io_size <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Weighted average latency in microseconds.	number (float)
avg_mirror_overhead_latency <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : usec	number (float)
avg_mirror_write_bandwidth <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
avg_mirror_write_iops <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : IO/sec	number (float)
avg_read_bandwidth <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Average reads per second.	number (float)
avg_read_latency <i>optional</i>	Weighted average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_total_bandwidth <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Average total input and output operations per second.	number (float)
avg_write_bandwidth <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)
avg_write_iops <i>optional</i>	Average writes per second.	number (float)
avg_write_latency <i>optional</i>	Weighted average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
max_avg_io_size <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Maximum of average latency in microseconds.	number (float)

Name	Description	Schema
max_avg_mirror_overhead_latency <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : usec	number (float)
max_avg_read_latency <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
max_avg_read_size <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
max_avg_write_size <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)
max_mirror_write_bandwidth <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes/sec	number (float)
max_mirror_write_iops <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : IO/sec	number (float)
max_read_bandwidth <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_read_iops <i>optional</i>	Maximum reads per second.	number (float)
max_total_bandwidth <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)
max_total_iops <i>optional</i>	Maximum totals per second.	number (float)
max_write_bandwidth <i>optional</i>	Performance metrics of all volumes in a volume group aggregated at various rollup intervals. Was added in version 3.5.0.0. Unit : bytes	number (float)
max_write_iops <i>optional</i>	Maximum writes per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
vg_id <i>optional</i>	Unique identifier representing a volume group.	string

performance_metrics_by_vm

Performance metrics for the virtual machine collected at twenty second interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
avg_io_size <i>optional</i>	Performance metrics for the virtual machine collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics for the virtual machine collected at twenty second interval. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics for the virtual machine collected at twenty second interval. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_id <i>optional</i>	Localized message string corresponding to entity	string
read_bandwidth <i>optional</i>	Performance metrics for the virtual machine collected at twenty second interval. Unit : bytes	number (float)
read_iops <i>optional</i>	Total read operations per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the virtual machine collected at twenty second interval. Unit : bytes	number (float)
total_iops <i>optional</i>	Total read and write operations per second.	number (float)
vm_id <i>optional</i>	Unique identifier representing a specific virtual machine.	string
write_bandwidth <i>optional</i>	Performance metrics for the virtual machine collected at twenty second interval. Unit : bytes	number (float)
write_iops <i>optional</i>	Total write operations per second.	number (float)

performance_metrics_by_vm_rollup

Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
avg_io_size <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_latency <i>optional</i>	Weighted average latency in microseconds.	number (float)

Name	Description	Schema
avg_read_bandwidth <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Average reads per second.	number (float)
avg_read_latency <i>optional</i>	Weighted average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Average total input and output operations per second.	number (float)
avg_write_bandwidth <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_write_iops <i>optional</i>	Average writes per second.	number (float)
avg_write_latency <i>optional</i>	Weighted average write latency in microseconds.	number (float)

Name	Description	Schema
avg_write_size <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
max_avg_io_size <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Maximum of average latency in microseconds.	number (float)
max_avg_read_latency <i>optional</i>	Maximum read latency in microseconds.	number (float)
max_avg_read_size <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
max_avg_write_size <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
max_read_bandwidth <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_read_ios <i>optional</i>	Maximum reads per second.	number (float)
max_total_bandwidth <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_total_ios <i>optional</i>	Maximum totals per second.	number
max_write_bandwidth <i>optional</i>	Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_write_ios <i>optional</i>	Maximum writes per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
vm_id <i>optional</i>	Unique identifier representing a specific virtual machine.	string

performance_metrics_by_volume

Performance metrics for the volume collected at twenty second interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
avg_io_size <i>optional</i>	Performance metrics for the volume collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)
avg_mirror_overhead_latency <i>optional</i>	Average additional latency incurred on the source in order to do the remote mirror writes in microseconds. This applies to metro volumes in the active-active state. Was added in version 3.0.0.0.	number (float)
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics for the volume collected at twenty second interval. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics for the volume collected at twenty second interval. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum

Name	Description	Schema
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
mirror_write_bandwidth <i>optional</i>	Performance metrics for the volume collected at twenty second interval. Unit : bytes	number (float)
mirror_write_iops <i>optional</i>	Total mirror write operations per second. This applies to metro volumes in the active-active state. Was added in version 3.0.0.0.	number (float)
read_bandwidth <i>optional</i>	Performance metrics for the volume collected at twenty second interval. Unit : bytes	number (float)
read_iops <i>optional</i>	Total read operations per second.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the volume collected at twenty second interval. Unit : bytes	number (float)
total_iops <i>optional</i>	Total read and write operations per second.	number (float)
volume_id <i>optional</i>	Unique identifier representing a specific volume.	string

Name	Description	Schema
write_bandwidth <i>optional</i>	Performance metrics for the volume collected at twenty second interval. Unit : bytes	number (float)
write_iops <i>optional</i>	Total write operations per second.	number (float)

performance_metrics_by_volume_rollup

Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
avg_io_size <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_latency <i>optional</i>	Weighted average latency in microseconds.	number (float)
avg_mirror_overhead_latency <i>optional</i>	Weighted additional latency incurred on the source in order to do the remote mirror writes in microseconds. This applies to metro volumes in the active-active state. Was added in version 3.0.0.0.	number (float)
avg_mirror_write_bandwidth <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_mirror_write_iops <i>optional</i>	Average mirror write operations per second. This applies to metro volumes in the active-active state. Was added in version 3.0.0.0.	number (float)

Name	Description	Schema
avg_read_bandwidth <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Average reads per second.	number (float)
avg_read_latency <i>optional</i>	Weighted average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_iops <i>optional</i>	Average total input and output operations per second.	number
avg_write_bandwidth <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_write_iops <i>optional</i>	Average writes per second.	number (float)
avg_write_latency <i>optional</i>	Weighted average write latency in microseconds.	number (float)

Name	Description	Schema
avg_write_size <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
max_avg_io_size <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Maximum of average latency in microseconds.	number (float)
max_avg_mirror_overhead_latency <i>optional</i>	Maximum of average additional latency incurred on the source in order to do the remote mirror writes in microseconds. This applies to metro volumes in the active-active state. Was added in version 3.0.0.0.	number (float)
max_avg_read_latency <i>optional</i>	Maximum read latency in microseconds.	number (float)
max_avg_read_size <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)

Name	Description	Schema
max_avg_write_size <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_mirror_write_bandwidth <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_mirror_write_iops <i>optional</i>	Maximum mirror write operations per second. This applies to metro volumes in the active-active state. Was added in version 3.0.0.0.	number (float)
max_read_bandwidth <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_read_iops <i>optional</i>	Maximum reads per second.	number (float)
max_total_bandwidth <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_total_iops <i>optional</i>	Maximum totals per second.	number
max_write_bandwidth <i>optional</i>	Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_write_iops <i>optional</i>	Maximum writes per second.	number (float)

Name	Description	Schema
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
volume_id <i>optional</i>	Unique identifier representing a specific volume.	string

performance_metrics_file_by_appliance

Performance metrics for the file per appliance collected at twenty second interval.

Was added in version 2.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance.	string
avg_io_size <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)

Name	Description	Schema
avg_read_size <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
read_bandwidth <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
read_iops <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

Name	Description	Schema
total_bandwidth <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
total_iops <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
write_iops <i>optional</i>	Performance metrics for file per appliance collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)

performance_metrics_file_by_appliance_rollup

Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period.

Was added in version 2.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of an appliance.	string
avg_io_size <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_latency <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_read_bandwidth <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
avg_total_iops <i>optional</i>	Average read and write operations per second.	number (float)

Name	Description	Schema
avg_write_bandwidth <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
avg_write_ios <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
max_avg_io_size <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_avg_latency <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
max_avg_write_size <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_iops <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)

Name	Description	Schema
max_read_bandwidth <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_read_ios <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
max_total_bandwidth <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_write_ios <i>optional</i>	Summary of file level performance metric data per appliance for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

performance_metrics_file_by_cluster

Performance metrics cluster for the file collected at twenty second interval.

Was added in version 2.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
avg_io_size <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)

Name	Description	Schema
avg_write_size <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
cluster_id <i>optional</i>	Unique identifier of the cluster. Was added in version 3.5.0.0.	string
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
read_bandwidth <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
read_iops <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
total_iops <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
write_iops <i>optional</i>	Performance metrics cluster level for file collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)

performance_metrics_file_by_cluster_rollup

Summary of Cluster level file performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Was added in version 2.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
avg_io_size <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)

Name	Description	Schema
avg_read_bandwidth <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
avg_read_iops <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
avg_total_iops <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)

Name	Description	Schema
avg_write_bandwidth <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
avg_write_ios <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
cluster_id <i>optional</i>	Unique identifier of the cluster. Was added in version 3.5.0.0.	string
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string

Name	Description	Schema
max_avg_io_size <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_iops <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_read_iops <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
max_total_bandwidth <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_write_iops <i>optional</i>	Summary of cluster level file performance metric for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)

Name	Description	Schema
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

performance_metrics_file_by_node

Performance metrics for the file per node collected at twenty second interval.

Was added in version 2.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_io_size <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_latency <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)

Name	Description	Schema
avg_read_size <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_name <i>optional</i>	Localized message string corresponding to entity	string
node_id <i>optional</i>	Unique identifier of the node.	string
read_bandwidth <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
read_iops <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string

Name	Description	Schema
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
total_iops <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
write_iops <i>optional</i>	Performance metrics for file per node collected at twenty second interval. Was added in version 2.0.0.0. Unit : ios/sec	number (float)

performance_metrics_file_by_node_rollup

Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period.

Was added in version 2.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_io_size <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
avg_latency <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_read_bandwidth <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
avg_read_iops <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)

Name	Description	Schema
avg_total_iops <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_write_bandwidth <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
avg_write_iops <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string

Name	Description	Schema
max_avg_io_size <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes	number (float)

Name	Description	Schema
max_iops <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_read_iops <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)
max_total_bandwidth <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : bytes/sec	number (float)
max_write_iops <i>optional</i>	Summary of file level performance metric data per node for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 2.0.0.0. Unit : ios/sec	number (float)

Name	Description	Schema
node_id <i>optional</i>	Unique identifier of the node.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

performance_metrics_nfs_by_node

Performance metrics for the nfs collected at twenty second interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_io_size <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : microseconds	number (float)

Name	Description	Schema
avg_read_size <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_id <i>optional</i>	Localized message string corresponding to entity	string
node_id <i>optional</i>	Unique identifier of the node.	string
read_bandwidth <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : bytes/sec	number (float)
read_iops <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string

Name	Description	Schema
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_bandwidth <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : bytes/sec	number (float)
total_iops <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : ios/sec	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : bytes/sec	number (float)
write_iops <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : ios/sec	number (float)

performance_metrics_nfs_by_node_rollup

Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_io_size <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
avg_latency <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_bandwidth <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_read_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_total_bandwidth <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_total_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
avg_write_bandwidth <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
avg_write_ios <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
max_avg_io_size <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_latency <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_read_latency <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_read_bandwidth <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_read_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
max_total_bandwidth <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_write_bandwidth <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes/sec	number (float)
max_write_ios <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

performance_metrics_nfsv3_by_node

Performance metrics for the nfs collected at twenty second interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string

Name	Description	Schema
avg_md_latency <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : microseconds	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
failed_md_ops <i>optional</i>	Total failed md operations per second.	number (float)
md_ops <i>optional</i>	Total md operations per second.	number (float)
node_id <i>optional</i>	Unique identifier of the nfs.	string
read_iops <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_iops <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : ios/sec	number (float)

Name	Description	Schema
write_iops <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : ios/sec	number (float)

performance_metrics_nfsv3_by_node_rollup

Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_failed_md_ops <i>optional</i>	Average failed operations per second.	number (float)
avg_md_latency <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_md_ops <i>optional</i>	Average md operations per second.	number (float)
avg_read_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_total_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
avg_write_ios <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
max_avg_md_latency <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_failed_md_ops <i>optional</i>	Max failed operations per second.	number (float)
max_md_ops <i>optional</i>	Max md operations per second. Was added in version 3.5.0.0.	number (float)
max_read_ios <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_total_ios <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_write_ios <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string

Name	Description	Schema
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values.If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

performance_metrics_nfsv4_by_node

Performance metrics for the nfs collected at twenty second interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_md_latency <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : microseconds	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
failed_md_ops <i>optional</i>	Total failed md operations per second.	number (float)
md_ops <i>optional</i>	Total md operations per second.	number (float)
node_id <i>optional</i>	Unique identifier of the nfs.	string

Name	Description	Schema
read_iops <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_iops <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : ios/sec	number (float)
write_iops <i>optional</i>	Performance metrics for the nfs collected at twenty second interval. Unit : ios/sec	number (float)

performance_metrics_nfsv4_by_node_rollup

Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_failed_md_ops <i>optional</i>	Average failed operations per second.	number (float)

Name	Description	Schema
avg_md_latency <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_md_ops <i>optional</i>	Average md operations per second.	number (float)
avg_read_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_total_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_iops <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
max_avg_md_latency <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_failed_md_ops <i>optional</i>	Max failed operations per second.	number (float)
max_md_ops <i>optional</i>	Max md operations per second. Was added in version 3.5.0.0.	number (float)

Name	Description	Schema
max_read_ios <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_total_ios <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_write_ios <i>optional</i>	Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

performance_metrics_smb1_builtinclient_by_node

Performance metrics for the smb v1 client collected at twenty second interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string

Name	Description	Schema
avg_io_size <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
node_id <i>optional</i>	Unique identifier of the node.	string
read_iops <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : ios/sec	number (float)

Name	Description	Schema
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_calls <i>optional</i>	Total calls.	number (float)
total_iops <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : ios/sec	number (float)
write_iops <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : ios/sec	number (float)

performance_metrics_smb1_builtinclient_by_node_role

Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_calls <i>optional</i>	Average calls.	number (float)

Name	Description	Schema
avg_io_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_write_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
avg_write_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
max_avg_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
max_avg_write_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_calls <i>optional</i>	Maximum calls.	number (float)
max_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_read_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_write_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). ' Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string

Name	Description	Schema
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

performance_metrics_smb1_by_node

Performance metrics for the smb v1 node collected at twenty second interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_io_size <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : bytes	number (float)

Name	Description	Schema
current_tcp_connections <i>optional</i>	Current TCP Connections. Was added in version 3.5.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
node_id <i>optional</i>	Unique identifier of the node.	string
read_iops <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_calls <i>optional</i>	Total calls.	number (float)
total_iops <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : ios/sec	number (float)
write_iops <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : ios/sec	number (float)

performance_metrics_smb1_by_node_rollup

Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_calls <i>optional</i>	Average calls.	number (float)
avg_current_tcp_connections <i>optional</i>	Average TCP Connections. Was added in version 3.5.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
avg_io_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_iops <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_iops <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
avg_read_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_write_ios <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
max_avg_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_read_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_calls <i>optional</i>	Maximum calls.	number (float)
max_current_tcp_connections <i>optional</i>	Max TCP Connections. Was added in version 3.5.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
max_iops <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
max_read_ios <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_write_ios <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

performance_metrics_smb2_builtinclient_by_node

Performance metrics for the smb v1 client collected at twenty second interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_io_size <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : bytes	number (float)

Name	Description	Schema
avg_latency <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
node_id <i>optional</i>	Unique identifier of the node.	string
read_iops <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_calls <i>optional</i>	Total calls.	number (float)
total_iops <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : ios/sec	number (float)
write_iops <i>optional</i>	Performance metrics for the smb v1 client collected at twenty second interval. Unit : ios/sec	number (float)

performance_metrics_smb2_builtinclient_by_node_role

Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_calls <i>optional</i>	Average calls.	number (float)
avg_io_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
avg_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_write_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
avg_write_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
max_avg_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_write_size <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_calls <i>optional</i>	Maximum calls.	number (float)
max_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_read_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_write_iops <i>optional</i>	Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

performance_metrics_smb2_by_node

Performance metrics for the smb v1 node collected at twenty second interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_io_size <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : bytes	number (float)
current_tcp_connections <i>optional</i>	Current TCP Connections. Was added in version 3.5.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum

Name	Description	Schema
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
node_id <i>optional</i>	Unique identifier of the node.	string
read_iops <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_calls <i>optional</i>	Total calls.	number (float)
total_iops <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : ios/sec	number (float)
write_iops <i>optional</i>	Performance metrics for the smb v1 node collected at twenty second interval. Unit : ios/sec	number (float)

performance_metrics_smb2_by_node_rollup

Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_calls <i>optional</i>	Average calls.	number (float)
avg_current_tcp_connections <i>optional</i>	Average TCP Connections. Was added in version 3.5.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
avg_io_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_iops <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_iops <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
avg_read_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_write_iops <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
max_avg_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_read_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_calls <i>optional</i>	Maximum calls.	number (float)
max_current_tcp_connections <i>optional</i>	Max TCP Connections. Was added in version 3.5.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
max_iops <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_read_iops <i>optional</i>	Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
max_write_ios <i>optional</i>	Maximum write operations per second.	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

performance_metrics_smb_branch_cache_by_node

Performance metrics for the smb cache collected at twenty second interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
hash_avg_lateness <i>optional</i>	Performance metrics for the smb cache collected at twenty second interval. Unit : microseconds	number (float)

Name	Description	Schema
hash_avg_size <i>optional</i>	Average hash size.	number (float)
hash_max_latency <i>optional</i>	Performance metrics for the smb cache collected at twenty second interval. Unit : microseconds	number (float)
hash_max_size <i>optional</i>	Max hash size.	number (float)
hash_min_latency <i>optional</i>	Performance metrics for the smb cache collected at twenty second interval. Unit : microseconds	number (float)
hash_min_size <i>optional</i>	Max hash size.	number (float)
max_used_threads <i>optional</i>	Max used threads	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_rejected_tasks <i>optional</i>	Total rejected task.	number (float)

Name	Description	Schema
total_tasks <i>optional</i>	Total tasks.	number (float)

performance_metrics_smb_branch_cache_by_node_rollup

Performance metrics nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
hash_avg_latency <i>optional</i>	Performance metrics nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
hash_avg_size <i>optional</i>	Average hash size.	number (float)
hash_max_avg_latency <i>optional</i>	Performance metrics nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
hash_max_avg_size <i>optional</i>	Average max hash size.	number (float)

Name	Description	Schema
hash_max_latency <i>optional</i>	Performance metrics nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
hash_max_size <i>optional</i>	Max hash size.	number (float)
hash_min_latency <i>optional</i>	Performance metrics nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
hash_min_size <i>optional</i>	Max hash size.	number (float)
max_used_threads <i>optional</i>	Max used threads	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_rejected_tasks <i>optional</i>	Total rejected task.	number (float)

Name	Description	Schema
total_tasks <i>optional</i>	Total tasks.	number (float)

performance_metrics_smb_builtinclient_by_node

Performance metrics for the smb client collected at twenty second interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_io_size <i>optional</i>	Performance metrics for the smb client collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Performance metrics for the smb client collected at twenty second interval. Unit : microseconds	number (float)
avg_read_latency <i>optional</i>	Performance metrics for the smb client collected at twenty second interval. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Performance metrics for the smb client collected at twenty second interval. Unit : bytes	number (float)
avg_write_latency <i>optional</i>	Performance metrics for the smb client collected at twenty second interval. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Performance metrics for the smb client collected at twenty second interval. Unit : bytes	number (float)

Name	Description	Schema
current_tcp_connections <i>optional</i>	Current TCP Connections. Was added in version 4.0.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
node_id <i>optional</i>	Unique identifier of the node.	string
read_iops <i>optional</i>	Performance metrics for the smb client collected at twenty second interval. Unit : ios/sec	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
total_calls <i>optional</i>	Total calls.	number (float)
total_iops <i>optional</i>	Performance metrics for the smb client collected at twenty second interval. Unit : ios/sec	number (float)
write_iops <i>optional</i>	Performance metrics for the smb client collected at twenty second interval. Unit : ios/sec	number (float)

performance_metrics_smb_builtinclient_by_node_rollup

Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_calls <i>optional</i>	Average calls.	number (float)
avg_io_size <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_iops <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_latency <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_iops <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
avg_read_size <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_write_ios <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
max_avg_latency <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_latency <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_read_size <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_size <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_calls <i>optional</i>	Maximum calls.	number (float)
max_iops <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_read_iops <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_write_iops <i>optional</i>	Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
node_id <i>optional</i>	Unique identifier of the node.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

performance_metrics_smb_by_node

Performance metrics for the smb node collected at twenty second interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_io_size <i>optional</i>	Performance metrics for the smb node collected at twenty second interval. Unit : bytes	number (float)
avg_latency <i>optional</i>	Average read and write latency in microseconds.	number (float)
avg_read_latency <i>optional</i>	Average read latency in microseconds.	number (float)
avg_read_size <i>optional</i>	Performance metrics for the smb node collected at twenty second interval. Unit : bytes	number (float)

Name	Description	Schema
avg_write_latency <i>optional</i>	Average write latency in microseconds.	number (float)
avg_write_size <i>optional</i>	Performance metrics for the smb node collected at twenty second interval. Unit : bytes	number (float)
current_tcp_connections <i>optional</i>	Current TCP Connections. Was added in version 3.5.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
node_id <i>optional</i>	Unique identifier of the node.	string
read_bandwidth <i>optional</i>	Performance metrics for the smb node collected at twenty second interval. Unit : bytes	number (float)
read_iops <i>optional</i>	Total read operations per second.	number (float)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

Name	Description	Schema
total_bandwidth <i>optional</i>	Performance metrics for the smb node collected at twenty second interval. Unit : bytes	number (float)
total_calls <i>optional</i>	Total calls.	number (float)
total_iops <i>optional</i>	Total read and write operations per second.	number (float)
write_bandwidth <i>optional</i>	Performance metrics for the smb node collected at twenty second interval. Unit : bytes	number (float)
write_iops <i>optional</i>	Total write operations per second.	number (float)

performance_metrics_smb_by_node_rollup

Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance. Was added in version 3.0.0.0.	string
avg_calls <i>optional</i>	Average calls.	number (float)
avg_current_tcp_connections <i>optional</i>	Average TCP Connections. Was added in version 3.5.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
avg_io_size <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_iops <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_latency <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_bandwidth <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_read_iops <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_read_latency <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_read_size <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)

Name	Description	Schema
avg_total_bandwidth <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_write_bandwidth <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
avg_write_ios <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
avg_write_latency <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
avg_write_size <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
max_avg_latency <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)

Name	Description	Schema
max_avg_read_latency <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_read_size <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_size <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_avg_write_latency <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : microseconds	number (float)
max_avg_write_size <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_calls <i>optional</i>	Maximum calls.	number (float)
max_current_tcp_connections <i>optional</i>	Max TCP Connections. Was added in version 3.5.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
max_iops <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)

Name	Description	Schema
max_read_bandwidth <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_read_ios <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
max_total_bandwidth <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_write_bandwidth <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : bytes	number (float)
max_write_ios <i>optional</i>	Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period. Unit : ios/sec	number (float)
node_id <i>optional</i>	Unique identifier of the node.	string
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

performance_rule_instance

Quality of service rule in a performance policy for policy based management of storage resources.
This resource type has queriable association from policy

Name	Description	Schema
id <i>optional</i>	Unique identifier representing a performance rule. Example : "default_high"	string
io_priority <i>optional</i>		IoPriorityEnum
io_priority_l10n <i>optional</i>	Localized message string corresponding to io_priority	string
name <i>optional</i>	Name of the performance rule. This property supports case-insensitive filtering. Example : "High Performance Rule"	string
policies <i>optional</i>	List of the policies that are associated with this performance_rule.	< policy_instance > array

physical_space_used_one_day

Response for appliance capacity based forecast. Was added in version 3.0.0.0.

Polymorphism : Inheritance

Discriminator : metric_type

Name	Description	Schema
high_value <i>optional</i>	Estimate of the upper bound of the 95% confidence interval for the forecast value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
low_value <i>optional</i>	Estimate of the lower bound of the 95% confidence interval for the forecast value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
mean_value <i>optional</i>	Estimate for the mean forecast value at the given timestamp. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
metric_type <i>required</i>	Localized message string corresponding to metric_type. Was added in version 3.0.0.0.	string
timestamp <i>optional</i>	Timestamp when the associated forecast values apply.	string (date-time)

physical_switch_connection_create

Name	Description	Schema
address <i>required</i>	Physical switch address in IPv4 or IPv6 or DNS hostname format. Length : 1 - 255	string (ip-address)
connect_method <i>required</i>		PhysicalSwitchConnectMethodEnum
port <i>optional</i>	Port used for connection to switch. Minimum value : 0 Maximum value : 65535 Example : 22	integer (int32)
snmp_community_string <i>optional</i>	SNMPv2 community string, if SNMPv2c connect method is specified. Maximal length : 128	string (password)
ssh_password <i>optional</i>	SSH password to connect a physical switch if SSH connect method is specified. Maximal length : 128	string (password)
username <i>optional</i>	Username to connect a physical switch for SSH connection method. Maximal length : 128	string

physical_switch_connection_instance

This resource type has queriable association from physical_switch

Name	Description	Schema
address <i>optional</i>	Physical switch address in IPv4 or IPv6 or DNS hostname format. Length : 1 - 255	string (ip-address)
connect_method <i>optional</i>		PhysicalSwitchConnectMethodEnum
connect_method_l10n <i>optional</i>	Localized message string corresponding to connect_method	string
physical_switch <i>optional</i>	This is the embeddable reference form of physical_switch_id attribute.	physical_switch_instance
physical_switch_id <i>optional</i>	Id of physical switch to which connection belongs. Maximal length : 128	string
port <i>optional</i>	Port used for connection to switch. Minimum value : 0 Maximum value : 65535 Example : 22	integer (int32)
username <i>optional</i>	Username to connect a physical switch for SSH connection method. Maximal length : 128	string

physical_switch_connection_modify

Name	Description	Schema
address <i>required</i>	Physical switch address in IPv4 or IPv6 or DNS hostname format. Length : 1 - 255	string (ip-address)
connect_method <i>required</i>		PhysicalSwitchConnectMethodEnum

Name	Description	Schema
port <i>optional</i>	Port used for connection to switch. Minimum value : 0 Maximum value : 65535 Example : 22	integer (int32)
snmp_community_string <i>optional</i>	SNMPv2 community string, if SNMPv2c connect method is specified. Maximal length : 128	string (password)
ssh_password <i>optional</i>	SSH password to connect a physical switch if SSH connect method is specified. Maximal length : 128	string (password)
username <i>optional</i>	Username to connect a physical switch for SSH connection method. Maximal length : 128	string

physical_switch_create

Name	Description	Schema
connections <i>required</i>	Supported connections for a physical switch.	< physical_switch_connection_create > array
name <i>required</i>	Name of a physical switch. Length : 1 - 128	string
purpose <i>required</i>		PhysicalSwitchPurposeEnum

physical_switch_instance

This resource type has queriable association from physical_switch_connection

Name	Description	Schema
connections <i>optional</i>	This is the inverse of the resource type physical_switch_connection association.	< physical_switch_connection_instance > array

Name	Description	Schema
id <i>optional</i>	Unique identifier of the physical switch setting. Length : 1 - 32	string
name <i>optional</i>	Name of physical switch. This property supports case-insensitive filtering. Length : 1 - 128	string
purpose <i>optional</i>		PhysicalSwitchPurposeEnum
purpose_l10n <i>optional</i>	Localized message string corresponding to purpose	string

physical_switch_modify

Name	Description	Schema
connections <i>optional</i>	Supported connections for a physical switch.	< physical_switch_connection_modify > array
name <i>optional</i>	Name of physical switch. Length : 1 - 128	string
purpose <i>optional</i>		PhysicalSwitchPurposeEnum

policy_clone

Policy clone request. Was added in version 3.0.0.0.

Name	Description	Schema
force <i>optional</i>	Normally, this operation is only supported for user-managed policies. However, a non user-managed policy can be cloned when the force flag is set to true. Default : false	boolean
name <i>required</i>	Name of the newly created protection policy. This name is also used to generate the names of cloned rules associated with this policy.	string

policy_clone_response

Policy clone response Was added in version 3.0.0.0.

Name	Description	Schema
id <i>optional</i>	Unique identifier of the newly created instance.	string

policy_create

Policy create request.

Name	Description	Schema
description <i>optional</i>	Policy description.	string
file_io_limit_rule_id <i>optional</i>	The unique identifier of the file_io_limit_rule included in this policy, if any. This attribute is only valid, and required, for the File_Performance Policy type. name:{name} can be used instead of {id}. For example: 'file_io_limit_rule_id':'name:file_io_limit_rule_name' Was added in version 4.1.0.0.	string
io_limit_rule_id <i>optional</i>	I/O limit rule identifier included in this policy. This attribute is only used for the QoS Performance Policy type. name:{name} can be used instead of {id}. For example: 'io_limit_rule_id':'name:io_limit_rule_name' Was added in version 4.0.0.0.	string
name <i>required</i>	Policy name. Length : 1 - 128	string
replication_rule_ids <i>optional</i>	Replication rule identifiers included in this policy. At least one snapshot rule or one replication rule must be specified to create a protection policy.	< string > array
snapshot_rule_ids <i>optional</i>	Snapshot rule identifiers included in this policy. At least one snapshot rule or one replication rule must be specified to create a protection policy.	< string > array

policy_instance

Properties of a policy. Values was added in 3.0.0.0: is_replica, is_read_only. This resource type has

queriable associations from file_io_limit_rule, virtual_volume, virtual_machine, volume, volume_group, nas_server, file_system, performance_rule, snapshot_rule, replication_rule, replication_group

Name	Description	Schema
description <i>optional</i>	Policy description.	string
file_io_limit_rule <i>optional</i>	This is the embeddable reference form of file_io_limit_rule_id attribute.	file_io_limit_rule_instance
file_io_limit_rule_id <i>optional</i>	Unique identifier of a file_io_limit_rule. This attribute is only used for the File_Performance Policy type. Was added in version 4.1.0.0.	string
file_systems <i>optional</i>	This is the inverse of the resource type file_system association.	< file_system_instance > array
file_systems_with_qos <i>optional</i>	This is the inverse of the resource type file_system association.	< file_system_instance > array
id <i>optional</i>	Unique identifier of the policy. Example : "a9c64b58-59a5-45cd-80ed-92a4545fd080"	string
io_limit_rule <i>optional</i>	This is the embeddable reference form of io_limit_rule_id attribute.	io_limit_rule_instance
is_read_only <i>optional</i>	Indicates whether this policy can be modified. Was added in version 3.0.0.0. Default : false	boolean
is_replica <i>optional</i>	Indicates if this is a replica of a policy on a remote system that is the source of a replication session replicating a resource to the local system. A policy of this type is restricted from many operations. Default : false	boolean
managed_by <i>optional</i>	Was added in version 3.0.0.0.	PolicyManagedByEnum

Name	Description	Schema								
managed_by_id <i>optional</i>	Unique identifier of the managing entity based on the value of the managed_by property, as shown below: <table><tr><td>User</td><td>Empty</td></tr><tr><td>Metro</td><td>Unique identifier of the remote system where the policy was assigned.</td></tr><tr><td>Replication</td><td>Unique identifier of the source remote system.</td></tr><tr><td>VMware_vSphere</td><td>Unique identifier of the owning VMware vSphere/vCenter.</td></tr></table> Was added in version 3.0.0.0.	User	Empty	Metro	Unique identifier of the remote system where the policy was assigned.	Replication	Unique identifier of the source remote system.	VMware_vSphere	Unique identifier of the owning VMware vSphere/vCenter.	string
User	Empty									
Metro	Unique identifier of the remote system where the policy was assigned.									
Replication	Unique identifier of the source remote system.									
VMware_vSphere	Unique identifier of the owning VMware vSphere/vCenter.									
managed_by_label <i>optional</i>	Localized message string corresponding to managed_by Was added in version 3.0.0.0.	string								
name <i>optional</i>	Policy name. This property supports case-insensitive filtering. Example : "Gold Policy"	string								
nas_servers <i>optional</i>	This is the inverse of the resource type nas_server association.	< nas_server_instance > array								
nas_servers_with_qos <i>optional</i>	This is the inverse of the resource type nas_server association.	< nas_server_instance > array								
performance_rules <i>optional</i>	List of the performance_rules that are associated with this policy.	< performance_rule_instance > array								
qos_volume_groups <i>optional</i>	This is the inverse of the resource type volume_group association.	< volume_group_instance > array								
qos_volumes <i>optional</i>	This is the inverse of the resource type volume association.	< volume_instance > array								

Name	Description	Schema
replication_groups <i>optional</i>	List of the replication_groups that are associated with this policy.	< replication_group_instance > array
replication_rules <i>optional</i>	List of the replication_rules that are associated with this policy.	< replication_rule_instance > array
snapshot_rules <i>optional</i>	List of the snapshot_rules that are associated with this policy.	< snapshot_rule_instance > array
type <i>optional</i>		PolicyTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type	string
virtual_machines <i>optional</i>	This is the inverse of the resource type virtual_machine association.	< virtual_machine_instance > array
virtual_volumes <i>optional</i>	This is the inverse of the resource type virtual_volume association.	< virtual_volume_instance > array
volume_groups <i>optional</i>	This is the inverse of the resource type volume_group association.	< volume_group_instance > array
volumes <i>optional</i>	This is the inverse of the resource type volume association.	< volume_instance > array

policy_modify

Policy modify request.

Name	Description	Schema
add_replication_rule_ids <i>optional</i>	Replication rule identifiers to be added to this policy.	< string > array

Name	Description	Schema
add_snapshot_rule_ids <i>optional</i>	Snapshot rule identifiers to be added to this policy.	< string > array
description <i>optional</i>	Policy description.	string
file_io_limit_rule_id <i>optional</i>	Change the file_io_limit_rule. Performance policies can only be modified when they are not associated with a nas_server or file_system. This attribute is only valid for the File_Performance policy type. name:{name} can be used instead of {id}. For example: 'file_io_limit_rule_id':'name:file_io_limit_rule_name' Was added in version 4.1.0.0.	string
io_limit_rule_id <i>optional</i>	Change the I/O limit rule. Performance policies can only be modified when they are not associated with a volume or volume group. This attribute is only used for the QoS Performance Policy type. name:{name} can be used instead of {id}. For example: 'io_limit_rule_id':'name:io_limit_rule_name' Was added in version 4.0.0.0.	string
name <i>optional</i>	Policy name. Length : 1 - 128	string
remove_replication_rule_ids <i>optional</i>	Replication rule identifiers to be removed from this policy.	< string > array
remove_snapshot_rule_ids <i>optional</i>	Snapshot rule identifiers to be removed from this policy.	< string > array
replication_rule_ids <i>optional</i>	Replication rule identifiers that should replace the current list of replication rule identifiers in this policy.	< string > array
snapshot_rule_ids <i>optional</i>	Snapshot rule identifiers that should replace the current list of snapshot rule identifiers in this policy.	< string > array

powerstore_data_network_group

Group of local and remote PowerStore storage networks to use for configuring data connections for replication data transfers.

Was added in version 4.0.0.0.

Name	Description	Schema
id <i>optional</i>	Unique identifier of the data network group.	string
local_powerstore_networks <i>optional</i>	List of local storage networks that are defined to be used for replication data transfer.	< powerstore_network_info > array
name <i>optional</i>	User or system generated name for group of local and remote replication networks. Maximal length : 100	string
remote_powerstore_networks <i>optional</i>	List of remote storage networks that are defined to be used for replication data transfer.	< powerstore_network_info > array

powerstore_network_info

PowerStore storage network information as is from the local or remote PowerStore cluster.

Was added in version 4.0.0.0.

Name	Description	Schema
gateway <i>optional</i>	Network gateway in IPv4 or IPv6 format, corresponding to the network's IP version.	string (ip-address)
id <i>optional</i>	Unique identifier of the network.	string
mtu <i>optional</i>	Maximum Transmission Unit (MTU) packet size set on network interfaces, in bytes. Minimum value : 1280 Maximum value : 9000	integer (int32)

Name	Description	Schema
name <i>optional</i>	User-defined name of the network. This property supports case-insensitive filtering. Length : 1 - 128	string
prefix_length <i>optional</i>	Network prefix length, used for both IPv4 and IPv6. Minimum value : 1 Maximum value : 127 Example : 64	integer (int32)
vlan_id <i>optional</i>	VLAN identifier Minimum value : 0 Maximum value : 4094 Example : 10	integer (int32)

ppdd_storage_unit_details_create

PowerProtect DD details to register with Powerstore as a remote system.

Was added in version 3.5.0.0.

Name	Description	Schema
dd_boost_address <i>required</i>	DDBoost address of the PowerProtect DD remote system. IPv4 and FQDN is the supported DDBoost address.	string (ip-address)
dd_boost_password <i>required</i>	Password used to access the storage unit of a PowerProtect DD remote system.	string (password)
dd_boost_username <i>required</i>	Username used to access the storage unit of a PowerProtect DD remote system.	string
is_data_encryption_enabled <i>optional</i>	Enable or Disable encryption for all backup session from Powerstore to a storage unit in PowerProtect DD. Default : false	boolean
storage_unit_name <i>required</i>	Name of the storage unit in the PowerProtect DD. Maximal length : 256	string

ppdd_storage_unit_details_instance

PowerProtect DD details to register with Powerstore as a remote system.

Was added in version 3.5.0.0. Filtering on the fields of this embedded resource is not supported.

Name	Description	Schema
dd_boost_address <i>optional</i>	DDBoost address of the PowerProtect DD remote system. IPv4 and FQDN is the supported DDBoost address.	string (ip-address)
dd_boost_username <i>optional</i>	Username used to access the storage unit of a PowerProtect DD remote system.	string
is_data_encryption_enabled <i>optional</i>	Enable or Disable encryption for all backup session from Powerstore to a storage unit in PowerProtect DD.	boolean
storage_unit_name <i>optional</i>	Name of the storage unit in the PowerProtect DD.	string

ppdd_storage_unit_details_modify

PowerProtect DD details to register with Powerstore as a remote system.

Was added in version 3.5.0.0.

Name	Description	Schema
dd_boost_address <i>optional</i>	DDBoost address of the PowerProtect DD remote system. IPv4 and FQDN is the supported DDBoost address.	string (ip-address)
dd_boost_password <i>optional</i>	Password used to access the storage unit of a PowerProtect DD remote system.	string (password)
dd_boost_username <i>optional</i>	Username used to access the storage unit of a PowerProtect DD remote system.	string

Name	Description	Schema
is_data_encryption_enabled <i>optional</i>	Enable or Disable encryption for all backup session from Powerstore to a storage unit in PowerProtect DD. Default : false	boolean

protection_data_instance

Protection data associated with a resource. Filtering on the fields of this embedded resource is not supported.

Name	Description	Schema
copy_signature <i>optional</i>	Used for tracking replicated copies of a snapshot set.	string
created_by_rule_id <i>optional</i>	Unique identifier of the snapshot rule that created the snapshot.	string
created_by_rule_name <i>optional</i>	The name of the rule that created the snapshot. This value will not change if the name of the rule changes after creating the snapshot.	string
creator_type <i>optional</i>	StorageCreatorTypeEnum	StorageCreatorTypeEnum
creator_type_localization <i>optional</i>	Localized message string corresponding to creator_type	string
expiration_timestamp <i>optional</i>	Date when the snapshot can be automatically purged.	string (date-time)
family_id <i>optional</i>	Family identifier of the resource. This is the identifier of the primary object at the root of the family tree. For a primary resource this will be the same as the unique identifier of the object. For snapshots and clone resources it will be set to the source object's family identifier.	string

Name	Description	Schema
is_app_consistent <i>optional</i>	A boolean flag that indicates whether the snapshot is application consistent. Only App Sync can create application consistent snapshots. Default : false	boolean
is_secure <i>optional</i>	A boolean flag indicating whether the snapshot is a secure snapshot. Secure snapshots cannot be deleted until expiration. Expiration timestamp can only be extended. This attribute is only applicable to block volume and volume group snapshots. Was added in version 3.5.0.0. Default : false	boolean
parent_id <i>optional</i>	Unique identifier of the resource from which a snapshot or clone resource is created. The parent_id is set when a resource is created and will only change if its parent resource is deleted. When a resource is deleted, its children get reparented to the parent of the deleted resource. If the deleted parent is of type Primary, the parent_id of the child resources will be set to null.	string
source_id <i>optional</i>	Unique identifier of the resource from which the content has been sourced. Data is sourced from another resource when a snapshot or clone is created, or when a refresh or restore occurs.	string
source_timestamp <i>optional</i>	The time at which the resource was sourced from the resource identified by source_id.	string (date-time)

recycle_bin_config_instance

Configuration settings for recycle bin. Was added in version 3.5.0.0.

Name	Description	Schema
expiration_duration <i>optional</i>	Duration in days for items to live in the recycle bin. A duration of zero indicates items will expire immediately. Minimum value : 0 Maximum value : 30	integer (int32)
id <i>optional</i>	Unique identifier for recycle bin configuration settings (always "0").	string

recycle_bin_config_modify

Set configuration settings for recycle bin. Was added in version 3.5.0.0.

Name	Description	Schema
expiration_duration <i>optional</i>	Duration in days for items to live in the recycle bin. A duration of zero indicates items will expire immediately. Minimum value : 0 Maximum value : 30	integer (int32)

recycle_bin_instance

Properties of a storage object available while in the recycle bin. Was added in version 3.5.0.0.

Name	Description	Schema
appliance_id <i>optional</i>	The appliance where this resource is located.	string
deletion_time_stamp <i>optional</i>	Time when the object was moved to the recycle bin.	string (date-time)
expiration_time_stamp <i>optional</i>	Time when the object will be auto-purged. Expired object are deleted by the aging service that runs periodically in the background.	string (date-time)
id <i>optional</i>	Unique identifier for the recycle bin instance.	string
logical_provisioned <i>optional</i>	Properties of a storage object available while in the recycle bin. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used <i>optional</i>	Properties of a storage object available while in the recycle bin. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
name <i>optional</i>	The name of the object. This property supports case-insensitive filtering. Maximal length : 128	string
resource_type <i>optional</i>		RecycleBinResourceTypeEnum
resource_type_110n <i>optional</i>	Localized message string corresponding to resource_type Was added in version 3.5.0.0.	string

remote_appliance_details

Appliance information.

Was added in version 3.0.0.0.

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance.	string
appliance_serial <i>optional</i>	Serial number of the appliance.	string

remote_member_details_instance

Details of remote member snapshots. Was added in version 3.5.0.0.

Name	Description	Schema
is_source_in_recycle_bin <i>optional</i>	This indicates whether member volume is in recycle bin. If member volume is deleted this will be false.	boolean
remote_identifier <i>optional</i>	The remote backup id of the member.	string
snapshot_name <i>optional</i>	The name of the member snapshot.	string

Name	Description	Schema
snapshot_size <i>optional</i>	The size of the member snapshot in bytes. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
volume_id <i>optional</i>	The member volume id.	string

remote_snapshot_instance

Information about a remote snapshot. Was added in version 3.5.0.0. This resource type has queriable associations from volume, volume_group, remote_system, remote_snapshot_session

Name	Description	Schema
creation_time_stamp <i>optional</i>	Date/time the remote snapshot was taken by the array.	string (date-time)
creator_type <i>optional</i>		RemoteSnapshotCreatorTypeEnum
creator_type_id <i>optional</i>	Localized message string corresponding to creator_type Was added in version 3.5.0.0.	string
expiration_timestamp <i>optional</i>	Date/time when the remote snapshot will expire.	string (date-time)
id <i>optional</i>	Unique identifier of the remote snapshot.	string
is_source_in_recycle_bin <i>optional</i>	This indicates whether local volume or volume group to which this snapshot belongs is in recycle bin. If local volume or volume group is deleted this will be false.	boolean
name <i>optional</i>	Name of the remote snapshot. This property supports case-insensitive filtering.	string
remote_backup_identifier <i>optional</i>	Unique identifier of snapshot generated by remote system.	string

Name	Description	Schema
remote_member_details <i>optional</i>	List of remote member snapshots. Only applies to volume_group type. Filtering on the fields of this embedded resource is not supported.	< remote_member_details_instance > array
remote_snapshots <i>optional</i>	This is the inverse of the resource type remote_snapshot_session association.	< remote_snapshot_session_instance > array
remote_system <i>optional</i>	This is the embeddable reference form of remote_system_id attribute.	remote_system_instance
remote_system_id <i>optional</i>	Unique identifier of the remote system.	string
resource_type <i>optional</i>		RemoteSnapshotResourceTypeEnum
resource_type_l10n <i>optional</i>	Localized message string corresponding to resource_type Was added in version 3.5.0.0.	string
source_id <i>optional</i>	Unique identifier of the source volume or volume_group. This preserves the value when the local volume/volume_group is deleted.	string
source_name <i>optional</i>	Name of the source volume or volume_group. This preserves the value when the local volume/volume_group is deleted. This property supports case-insensitive filtering.	string
state <i>optional</i>		RemoteSnapshotStateEnum
state_l10n <i>optional</i>	Localized message string corresponding to state Was added in version 3.5.0.0.	string
volume <i>optional</i>	This is the embeddable reference form of volume_id attribute.	volume_instance
volume_group <i>optional</i>	This is the embeddable reference form of volume_group_id attribute.	volume_group_instance

Name	Description	Schema
volume_group_id <i>optional</i>	Unique identifier of the local volume_group to which this snapshot belongs. This will be null if the volume_group is deleted or this is a volume snapshot.	string
volume_id <i>optional</i>	Unique identifier of the local volume to which this snapshot belongs. This will be null if the volume is deleted or this is a volume_group snapshot.	string

remote_snapshot_session_instance

Information about a remote snapshot session. Was added in version 3.5.0.0. This resource type has queriable associations from remote_system, volume, volume_group, remote_snapshot, snapshot_rule

Name	Description	Schema
average_transfer_rate <i>optional</i>	Average transfer rate of a data operation in bytes/sec over the whole copy period. Before and after the session is in the In_Progress state, this value is null. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
creator_type <i>optional</i>		RemoteSnapshotCreatorTypeEnum
creator_type_10n <i>optional</i>	Localized message string corresponding to creator_type Was added in version 3.5.0.0.	string
current_transfer_rate <i>optional</i>	Current transfer rate of a data operation in bytes/sec. Before and after the session is in the In_Progress state, this value is null. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
end_timestamp <i>optional</i>	Date/time when backup/retrieve of snapshot completed. Not applicable for instant_access session.	string (date-time)
error <i>optional</i>		error_instance

Name	Description	Schema
estimated_completion_timestamp <i>optional</i>	When the session is in the In_Progress state, this value indicates the estimated time at which the data copy will complete. Before the session is in the In_Progress state, the value is null.	string (date-time)
id <i>optional</i>	Unique identifier of the remote snapshot session.	string
last_backup_timestamp <i>optional</i>	For backup type session, the timestamp of the most recent snapshot successfully copied to the remote system.	string (date-time)
local_volume_group_snapshot <i>optional</i>	This is the embeddable reference form of local_volume_group_snapshot_id attribute.	volume_group_instance
local_volume_group_snapshot_id <i>optional</i>	For a volume_group backup type session, this is the id of the most recently protected local snapshot type volume_group. For a retrieve type session, this is the id of the local snapshot type volume group to which the retrieve is copying. This is null for volume sessions.	string
local_volume_snapshot <i>optional</i>	This is the embeddable reference form of local_volume_snapshot_id attribute.	volume_instance
local_volume_snapshot_id <i>optional</i>	For a volume backup type session, this is the id of the most recently protected local snapshot type volume. For a retrieve type session, this is the id of the local snapshot type volume to which the retrieve is copying. This is null for volume_group sessions.	string
member_details <i>optional</i>	Filtering on the fields of this embedded resource is not supported.	< member_details_instance > array
name <i>optional</i>	System-specified name of the remote snapshot session. This property supports case-insensitive filtering.	string

Name	Description	Schema
progress_percentage <i>optional</i>	When the session is in the In_Progress state, this value indicates the completion percent for the session. Before the session is in the In_Progress state, this value is 0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
remote_backup_identifier <i>optional</i>	Unique identifier of snapshot generated by remote system. Not applicable for backup session.	string
remote_session_id <i>optional</i>	Unique identifier of the corresponding session on the remote system.	string
remote_snapshot <i>optional</i>	This is the embeddable reference form of remote_snapshot_id attribute.	remote_snapshot_instance
remote_snapshot_id <i>optional</i>	ID of the volume to which this session belongs.	string
remote_system <i>optional</i>	This is the embeddable reference form of remote_system_id attribute.	remote_system_instance
remote_system_id <i>optional</i>	Unique identifier of the remote system.	string
resource_type <i>optional</i>		RemoteSnapshotResourceTypeEnum
resource_type_id <i>optional</i>	Localized message string corresponding to resource_type Was added in version 3.5.0.0.	string
rule <i>optional</i>	This is the embeddable reference form of rule_id attribute.	snapshot_rule_instance
rule_id <i>optional</i>	Id of the associated remote snapshot rule.	string

Name	Description	Schema
session_type <i>optional</i>		RemoteSnapshotSessionTypeEnum
session_type_10n <i>optional</i>	Localized message string corresponding to session_type Was added in version 3.5.0.0.	string
start_timestamp <i>optional</i>	Date/time when backup/retrieve of snapshot began. Not applicable for instant_access session.	string (date-time)
state <i>optional</i>		RemoteSnapshotSessionStateEnum
state_10n <i>optional</i>	Localized message string corresponding to state Was added in version 3.5.0.0.	string
volume <i>optional</i>	This is the embeddable reference form of volume_id attribute.	volume_instance
volume_group <i>optional</i>	This is the embeddable reference form of volume_group_id attribute.	volume_group_instance
volume_group_id <i>optional</i>	ID of the volume_group to which this session belongs.	string
volume_id <i>optional</i>	ID of the volume to which this session belongs.	string

remote_support_contact_instance

Remote support instance properties. Was added in version 2.0.0.0. Values was added in 3.0.0.0: first_name, last_name, email, phone.

Name	Description	Schema
email <i>optional</i>	The email address of the support contact for this system. Was added in version 2.0.0.0. Maximal length : 256 Example : "Edgar.Allan.Poe@RueMorgue"	string

Name	Description	Schema
first_name <i>optional</i>	The first name of the support contact for this system. Was added in version 2.0.0.0. Maximal length : 128 Example : "Edgar Allan"	string
id <i>optional</i>	The unique id of the remote_support_contact instance. Maximal length : 32 Example : "0"	string
last_name <i>optional</i>	The last name of the support contact for this system. Was added in version 2.0.0.0. Maximal length : 128 Example : "Poe"	string
phone <i>optional</i>	The phone number of this support contact for this system. Was added in version 2.0.0.0. Maximal length : 64 Example : "508-249-5678"	string

remote_support_contact_modify

Parameters for the remote support contact modify operation. Was added in version 2.0.0.0.

Name	Description	Schema
email <i>optional</i>	The email address of the support contact for this system. Was added in version 2.0.0.0. Maximal length : 256 Example : "Edgar.Allan.Poe@RueMorgue"	string
first_name <i>optional</i>	The first name of the support contact for this system. Was added in version 2.0.0.0. Maximal length : 128 Example : "Edgar Allan"	string
last_name <i>optional</i>	The last name of the support contact for this system. Was added in version 2.0.0.0. Maximal length : 128 Example : "Poe"	string
phone <i>optional</i>	The phone number of this support contact for this system. Was added in version 2.0.0.0. Maximal length : 64 Example : "508-249-5678"	string

remote_support_instance

Remote support properties. Was added in version 4.0.0.0.

Name	Description	Schema
classification_choice <i>optional</i>	Was added in version 4.0.0.0.	SoftwarePackageClassificationChoiceEnum
classification_choice_l10n <i>optional</i>	Localized message string corresponding to classification_choice Was added in version 4.0.0.0.	string
connectivity_status <i>optional</i>		RemoteSupportApplianceConnectivityStatusEnum
connectivity_status_l10n <i>optional</i>	Localized message string corresponding to connectivity_status Was added in version 4.0.0.0.	string
id <i>optional</i>	The id of the remote_support instance. Always "0". Example : <i>"0"</i>	string
is_cloudiq_enabled <i>optional</i>	Indicates whether support for CloudIQ is enabled. This is deprecated, use is_observability_enabled instead. Was deprecated in version 4.1.0.0. Example : <i>false</i>	boolean
is_icw_configured <i>optional</i>	Client already configured ICW. Was deprecated in version 3.0.0.0. Example : <i>false</i>	boolean
is_observability_enabled <i>optional</i>	Indicates whether support for APEX AIOps Observability is enabled. Was added in version 4.1.0.0. Example : <i>false</i>	boolean
is_rsc_enabled <i>optional</i>	Indicates whether support for Remote Service Credentials is enabled. Example : <i>false</i>	boolean

Name	Description	Schema
is_software_autodownload_enabled <i>optional</i>	Whether automatic software downloads are enabled. When enabled, new software packages that are valid for this PowerStore system will be automatically downloaded through the remote support connection, and an alert will be raised. Was added in version 3.0.0.0. Example : <i>false</i>	boolean
is_support_assist_license_accepted <i>optional</i>	Indicates whether user has accepted remote support license agreement before enabling the Support Assist on the system for the first time. Example : <i>false</i>	boolean
last_update <i>optional</i>	Last time that this configuration was updated. Example : <i>"2018-04-06T21:22:09.956+00:00"</i>	string (date-time)
policy_manager_address <i>optional</i>	Policy Manager server IP address (IPv4). Was deprecated in version 2.0.0.0. Example : <i>"1.2.3.4"</i>	string (ip-address)
policy_manager_port <i>optional</i>	Policy Manager port number. Was deprecated in version 2.0.0.0. Minimum value : <i>0</i> Maximum value : <i>65635</i> Example : <i>443</i>	integer (int32)
proxy_addresses <i>optional</i>	Proxy server IP address (IPv4). Example : <i>"1.2.3.4"</i>	string (ip-address)
proxy_port <i>optional</i>	Proxy server port number. Minimum value : <i>0</i> Maximum value : <i>65635</i> Example : <i>443</i>	integer (int32)
proxy_username <i>optional</i>	User name for proxy server access. Example : <i>"myUser"</i>	string
remote_support_servers <i>optional</i>	Remote support servers. Specifying this replaces the old server list Filtering on the fields of this embedded resource is not supported.	< remote_support_server_instance > array

Name	Description	Schema
support_assist_license_agreement_text <i>optional</i>	Contains full license text Example : "SUPPORTASSIST ENTERPRISE - SOFTWARE TERMS ..."	string
type <i>optional</i>		RemoteSupportType Enum
type_l10n <i>optional</i>	Localized message string corresponding to type Was added in version 4.0.0.0.	string

remote_support_modify

Remote support modify parameters. Was added in version 4.0.0.0.

Name	Description	Schema
classification_choice <i>optional</i>	Was added in version 4.0.0.0.	SoftwarePackageClassificationChoiceEnum
is_cloudiq_enabled <i>optional</i>	Indicates whether support for CloudIQ is enabled. This is deprecated, use <code>is_observability_enabled</code> instead. Was deprecated in version 4.1.0.0. Example : <code>true</code>	boolean
is_observability_enabled <i>optional</i>	Indicates whether support for APEX AIOps Observability is enabled. Was added in version 4.1.0.0. Example : <code>true</code>	boolean
is_rsc_enabled <i>optional</i>	Indicates whether support for Remote Service Credentials is enabled. Example : <code>true</code>	boolean
is_software_autodownload_enabled <i>optional</i>	Whether automatic software downloads are enabled. When enabled, new software packages that are valid for this PowerStore system will be automatically downloaded through the remote support connection, and an alert will be raised. Was added in version 3.0.0.0. Example : <code>false</code>	boolean

Name	Description	Schema
is_support_assist_license_accepted <i>optional</i>	indicates whether user has accepted remote support license agreement before enabling the Support Assist on the system for the first time.	boolean
proxy_addresses <i>optional</i>	Proxy server IP address (IPv4). Example : "5.6.7.8"	string (ip-address)
proxy_password <i>optional</i>	Password for proxy server access. Example : "myPass"	string (password)
proxy_port <i>optional</i>	Proxy server port number. Minimum value : 0 Maximum value : 65635 Example : 9443	integer (int32)
proxy_username <i>optional</i>	User name for proxy server access. Example : "myUser"	string
remote_support_servers <i>optional</i>	One or two remote support servers. If specified, this list will replace the existing list.	< remote_support_server_modify > array
type <i>optional</i>		RemoteSupportType Enum

remote_support_server_instance

Properties of a remote support server. Was added in version 4.0.0.0.

Name	Description	Schema
address <i>optional</i>	IP address (IPv4) or network name for this server. Example : "1.2.3.4"	string (ip-address)
connectivity_status <i>optional</i>	Connectivity data for this system.	< remote_support_servers_appliance_statuses_instance > array

Name	Description	Schema
id <i>optional</i>	Unique identifier of this server. Example : "0"	string
is_primary <i>optional</i>	Indicates whether this server is acting as the primary server when high availability is configured. Example : true	boolean
port <i>optional</i>	Port number for this server. Default : 9443 Minimum value : 0 Maximum value : 65635 Example : 9443	integer (int32)
remote_support_id <i>optional</i>	Unique identifier for the remote support configuration. Always "0". Example : "0"	string

remote_support_server_modify

Parameters for remote support server modify operation. Was added in version 4.0.0.0.

Name	Description	Schema
address <i>optional</i>	SRS VE or on-premise aggregator (SAE) gateway server IP address (IPv4) or network name. Example : "1.2.3.4"	string (ip-address)
is_primary <i>required</i>	Indicates whether the server is acting as the primary. One server must be set to false when two servers are configured. Example : true	boolean
port <i>optional</i>	SRS VE or on-premise aggregator (SAE) gateway server port. Default is 9443. Default : 9443 Minimum value : 0 Maximum value : 65635 Example : 9443	integer (int32)

remote_support_servers_appliance_status_instance

Server information for this appliance. Was added in version 4.0.0.0.

Name	Description	Schema
appliance_id <i>optional</i>	The unique identifier for this appliance. Example : "A1"	string
connectivity_status <i>optional</i>		RemoteSupportApplianceConnectivityStatusEnum
connectivity_status_l10n <i>optional</i>	Localized message string corresponding to connectivity_status Was added in version 4.0.0.0.	string
connectivity_status_priority <i>optional</i>	The relative priority of this status level. Used when calculating the cluster level status. Minimum value : 0 Maximum value : 2147483647	integer (int32)
connectivity_status_value <i>optional</i>	The percentage of successful requests.	number (float)
id <i>optional</i>	The unique identifier for the remote support configuration. Always "0". Example : "0"	string
last_update <i>optional</i>	The last time that the status information was updated. Example : "2018-04-06T21:22:09.956+00:00"	string (date-time)
remote_support_servers_id <i>optional</i>	The unique identifier for this server. Example : "0"	string

remote_support_verify

Remote support verify operation parameters. Was added in version 4.0.0.0.

Name	Description	Schema
address <i>optional</i>	Gateway server IP address (IPv4) or network name. Example : "1.2.3.4"	string (ip-address)

Name	Description	Schema
port <i>optional</i>	Gateway server port number. Default is 9443. Default : 9443 Minimum value : 0 Maximum value : 65635 Example : 9443	integer (int32)
type <i>optional</i>		RemoteSupportTypeEnum

remote_syslog_server_create

Create a remote syslog server configuration. Was added in version 2.0.0.0.

Name	Description	Schema
audit_types <i>optional</i>	Audit types to send to the syslog service. If the value is an empty list, no types of audit events will be sent to the syslog service. If the value is null (not specified), then all types of audit events will be sent to the syslog service.	< AuditEventTypeEnum > array
encryption <i>optional</i>		EncryptionTypeEnum
is_alert_events_included <i>optional</i>	If true, then events associated with alerts will be included in the logs. Was added in version 3.6.0.0.	boolean
is_enabled <i>optional</i>	If false, then no events will be sent to the syslog service.	boolean
port <i>required</i>	Port used for connection to the remote server. Minimum value : 0 Maximum value : 65535 Example : 1468	integer (int32)
protocol_type <i>required</i>		ProtocolTypeEnum
remote_server_address <i>required</i>	IPv4 or IPv6 address, or DNS name of the log server. Example : "10.10.10.10"	string (ip-address)

remote_syslog_server_instance

Properties of a remote syslog server. Values was added in 3.0.0.0: id. Was added in version 2.0.0.0.

Name	Description	Schema
audit_types <i>optional</i>	Audit types to send to the syslog service. If the value is an empty list, no types of audit events will be sent to the syslog service. If the value is null (not specified), then all types of audit events will be sent to the syslog service.	< AuditEventTypeEnum > array
audit_types_l10n <i>optional</i>	Localized message array corresponding to audit_types Was added in version 2.0.0.0.	< string > array
encryption <i>optional</i>		EncryptionTypeEnum
encryption_l10n <i>optional</i>	Localized message string corresponding to encryption Was added in version 2.0.0.0.	string
id <i>optional</i>	Unique remote syslog server identifier.	string
is_alert_events_included <i>optional</i>	If true, then events associated with alerts will be included in the logs. Was added in version 3.6.0.0.	boolean
is_enabled <i>optional</i>	If false, then no events will be sent to the syslog service.	boolean
port <i>optional</i>	Port used for connection to the remote server. Minimum value : 0 Maximum value : 65535 Example : 1468	integer (int32)
protocol_type <i>optional</i>		ProtocolTypeEnum
protocol_type_l10n <i>optional</i>	Localized message string corresponding to protocol_type Was added in version 2.0.0.0.	string

Name	Description	Schema
remote_server_address <i>optional</i>	IPv4 or IPv6 address, or DNS name of the log server. Example : "10.10.10.10"	string (ip-address)
status <i>optional</i>		RemoteSyslogServerStatusEnum
status_message <i>optional</i>	Localized message string corresponding to status. Was added in version 2.0.0.0.	string

remote_syslog_server_modify

Modify parameters for remote syslog server configurations. Was added in version 2.0.0.0.

Name	Description	Schema
audit_types <i>optional</i>	Audit types to send to the syslog service. If the value is an empty list, no types of audit events will be sent to the syslog service. If the value is null (not specified), then all types of audit events will be sent to the syslog service.	< AuditEventTypeEnum > array
encryption <i>optional</i>		EncryptionTypeEnum
is_alert_events_included <i>optional</i>	If true, then events associated with alerts will be included in the logs. Was added in version 3.6.0.0.	boolean
is_enabled <i>optional</i>	If false, then no events will be sent to the syslog service.	boolean
port <i>optional</i>	Port used for connection to the remote server. Minimum value : 0 Maximum value : 65535 Example : 1468	integer (int32)
protocol_type <i>optional</i>		ProtocolTypeEnum
remote_server_address <i>optional</i>	IPv4 or IPv6 address, or DNS name of the log server. Example : "10.10.10.10"	string (ip-address)

remote_syslog_server_test

Modify parameters for remote syslog server test. Was added in version 2.0.0.0.

Name	Description	Schema
message <i>optional</i>	Custom text message to be sent as part of the remote syslog server test operation. Maximal length : 256	string

remote_system_create

Parameters to create a remote system.

Name	Description	Schema
data_connection_type <i>optional</i>	Was added in version 3.0.0.0.	DataConnectionTypeEnum
data_network_latency <i>optional</i>		RemoteSystemLatencyEnum
description <i>optional</i>	User-specified description of the remote system. Maximal length : 256	string
discovery_chap_mode <i>optional</i>		RemoteSystemChapModeEnum
file_connection_address <i>optional</i>	Control station address of the VNX to establish file management connection from PowerStore. Not applicable for other remote systems. This address can be modified. Provide IP aliasing address to transparently handle connection failures from primary to secondary control station. Was added in version 3.0.0.0.	string (ip-address)
import_chap_info <i>optional</i>		chap_credentials_instance

Name	Description	Schema
iscsi_addresses <i>optional</i>	iSCSI target IP addresses for the data connection to the remote system. Must be specified when creating a non-PowerStore remote system.	< string (ip-address) > array
management_address <i>optional</i>	Management address of the remote system instance. IPv4 and FQDN is supported for non-PowerStore remote systems. IPv4, IPv6 and FQDN are supported for DataDomain and PowerStore remote systems.	string (ip-address)
management_port <i>optional</i>	Management port is applicable only for creating PowerMax/VMAX remote system. Was added in version 3.0.0.0. Default : 5443 Minimum value : 0 Maximum value : 2147483647	integer (int32)
name <i>optional</i>	User-specified name of the remote system. Used only for non-PowerStore systems. This value must contain 128 or fewer printable Unicode characters. Maximal length : 256	string
ppdd_storage_unit_details <i>optional</i>	Was added in version 3.5.0.0.	ppdd_storage_unit_details_create
remote_password <i>optional</i>	Password used to access the remote system. Used only for PowerProtect DD and non-PowerStore systems.	string (password)
remote_username <i>optional</i>	Username used to access the remote system. Used only for PowerProtect DD and non-PowerStore systems. For PowerProtect DD remote systems, provide a user with role 'user'.	string
session_chap_mode <i>optional</i>		RemoteSystemChapModeEnum
type <i>optional</i>		RemoteSystemTypeEnum

Name	Description	Schema
unity_file_details <i>optional</i>	Unity file details. Was added in version 4.0.0.0.	unity_file_details_create
universal_details <i>optional</i>	Was added in version 4.0.0.0.	universal_details
vnx_file_password <i>optional</i>	Password used to access the control station. Was added in version 3.0.0.0.	string (password)
vnx_file_username <i>optional</i>	User-specified VNX NAS administrator username. nasadmin account is preferred for file import. Was added in version 3.0.0.0.	string

universal_details

Name	Description	Schema
fc_targets <i>optional</i>	FC target addresses for the data connection to the remote system. Must be specified when creating a Universal remote system.	< fc_target_instance > array

remote_system_delete

Delete a remote system and any associated x509 Replication HTTP certificates.

Type : object

remote_system_instance

A remote system.

This resource type has queriable associations from `snapshot_rule`, `replication_rule`, `import_session`, `storage_container_destination`, `replication_session`, `remote_snapshot_session`, `remote_snapshot`, `import_universal_volume`, `import_universal_consistency_group`

Name	Description	Schema
appliance_details <i>optional</i>	Details of all the appliances of the remote PowerStore system. Was added in version 3.0.0.0. Filtering on the fields of this embedded resource is not supported.	< remote_appliance_details > array
capabilities <i>optional</i>	List of remote protection capabilities. Was added in version 3.0.0.0.	< RemoteProtectionCapabilityEnum > array
capabilities_l10n <i>optional</i>	Localized message array corresponding to capabilities Was added in version 3.0.0.0.	< string > array
data_connection_state <i>optional</i>	State of the data connection.	DataConnectionStateEnum
data_connection_state_l10n <i>optional</i>	Localized message string corresponding to data_connection_state	string
data_connection_type <i>optional</i>	Type of the data connection. Was added in version 3.0.0.0.	DataConnectionTypeEnum
data_connection_type_l10n <i>optional</i>	Localized message string corresponding to data_connection_type Was added in version 3.0.0.0.	string
data_connections <i>optional</i>	List of data connections from each appliance in the local cluster to target address. Filtering on the fields of this embedded resource is not supported.	< data_connection_instance > array
data_network_latency <i>optional</i>	Network latency for the remote system.	RemoteSystemLatencyEnum
data_network_latency_l10n <i>optional</i>	Localized message string corresponding to data_network_latency	string

Name	Description	Schema
description <i>optional</i>	User-specified description of the remote system instance.	string
discovery_chap_mode <i>optional</i>	Discovery chap mode for the non-PowerStore remote system.	RemoteSystemChapModeEnum
discovery_chap_mode_l10n <i>optional</i>	Localized message string corresponding to discovery_chap_mode	string
fc_target_wwns <i>optional</i>	FC target WWN discovered by Powerstore for the data connection to the remote system. Was added in version 3.0.0.0.	< string > array
file_connection_address <i>optional</i>	A public IPv4 or IPv6 address of a file remote system instance. File mobility network cluster IP address for PowerStore. Control station address for VNX2. Was added in version 3.0.0.0.	string (ip-address)
file_connection_state <i>optional</i>	Was added in version 3.0.0.0.	RemoteSystemFileConnectionStateEnum
file_connection_state_l10n <i>optional</i>	Localized message string corresponding to file_connection_state Was added in version 3.0.0.0.	string
id <i>optional</i>	Unique identifier of the remote system instance.	string
import_sessions <i>optional</i>	This is the inverse of the resource type import_session association.	< import_session_instance > array
import_universal_consistency_group <i>optional</i>	This is the inverse of the resource type import_universal_consistency_group association.	< import_universal_consistency_group_instance > array

Name	Description	Schema
import_universal_volumes <i>optional</i>	This is the inverse of the resource type import_universal_volume association.	< import_universal_volume_instance > array
iscsi_addresses <i>optional</i>	iSCSI target addresses for the data connection to the remote system.	< string (ip-address) > array
management_address <i>optional</i>	Management address of the remote system instance. IPv4 and FQDN is supported for non-PowerStore remote systems. IPv4, IPv6 and FQDN are supported for PowerStore remote systems.	string (ip-address)
management_port <i>optional</i>	Management port of PowerMax/VMAX remote system. Was added in version 3.0.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
name <i>optional</i>	User-specified name of the remote system instance. This property supports case-insensitive filtering.	string
powerstore_data_network_configuration <i>optional</i>	List of data network group with local and remote storage networks for replication data transfer. Was added in version 4.0.0.0. Filtering on the fields of this embedded resource is not supported.	< powerstore_data_network_group > array
ppdd_storage_unit_details <i>optional</i>	PowerProtect DD details. Was added in version 3.5.0.0.	ppdd_storage_unit_details_instance
remote_snapshot_sessions <i>optional</i>	This is the inverse of the resource type remote_snapshot_session association.	< remote_snapshot_session_instance > array
remote_snapshot_instances <i>optional</i>	This is the inverse of the resource type remote_snapshot association.	< remote_snapshot_instance > array

Name	Description	Schema
replication_rules <i>optional</i>	This is the inverse of the resource type replication_rule association.	< replication_rule_instance > array
replication_sessions <i>optional</i>	This is the inverse of the resource type replication_session association.	< replication_session_instance > array
serial_number <i>optional</i>	Serial number of the remote system instance.	string
session_chap_mode <i>optional</i>	Session chap mode for the non-PowerStore remote system.	RemoteSystemChapModeEnum
session_chap_mode_l10n <i>optional</i>	Localized message string corresponding to session_chap_mode	string
snapshot_rules <i>optional</i>	This is the inverse of the resource type snapshot_rule association.	< snapshot_rule_instance > array
state <i>optional</i>	Current state of the remote system.	RemoteSystemStateEnum
state_l10n <i>optional</i>	Localized message string corresponding to state	string
storage_container_destinations <i>optional</i>	This is the inverse of the resource type storage_container_destination association.	< storage_container_destination_instance > array
type <i>optional</i>	Type of the remote system.	RemoteSystemTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type	string

Name	Description	Schema
unity_file_details <i>optional</i>	Unity file details. Was added in version 4.0.0.0.	unity_file_details_instance
user_name <i>optional</i>	Username used to access the non-PowerStore remote systems.	string
version <i>optional</i>	Version of the remote system. Was added in version 2.0.0.0.	string
vnx_file_user_name <i>optional</i>	User-specified VNX NAS administrator username. nasadmin account is preferred for file import. Was added in version 3.0.0.0.	string

remote_system_modify

Modify the remote system.

Name	Description	Schema
add_powerstore_data_network_groups <i>optional</i>	List of new data network groups. Was added in version 4.0.0.0.	< powerstore_data_network_group > array
data_network_latency <i>optional</i>	Network latency for the PowerStore remote system.	RemoteSystemLatencyEnum
description <i>optional</i>	User-specified description of the remote system. Maximal length : 256	string
file_connection_address <i>optional</i>	Control station address of the VNX to establish file management connection from PowerStore. Not applicable for other remote systems. This address can be modified. Provide IP aliasing address to transparently handle connection failures from primary to secondary control station. Was added in version 3.0.0.0.	string (ip-address)

Name	Description	Schema
management_address <i>optional</i>	Management address of the remote system instance. IPv4 and FQDN is supported for non-PowerStore remote systems. IPv4 and IPv6 are supported for PowerStore remote systems.	string (ip-address)
management_port <i>optional</i>	Management port is applicable for PowerMax/VMAX remote system port. Was added in version 3.0.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
modify_powerstore_data_network_groups <i>optional</i>	List of data network groups being modified. Was added in version 4.0.0.0.	< powerstore_data_network_group > array
name <i>optional</i>	User-specified name of the remote system. Used only for non-PowerStore type remote systems. This value must contain 128 or fewer printable Unicode characters. Maximal length : 128	string
ppdd_storage_unit_details <i>optional</i>	PowerProtect DD details. Was added in version 3.5.0.0.	ppdd_storage_unit_details_modify
remote_password <i>optional</i>	Password used to access the remote system. Used only for PowerProtect DD and non-PowerStore systems.	string (password)
remote_username <i>optional</i>	Username used to access the remote system. Used only for PowerProtect DD and non-PowerStore systems. For PowerProtect DD remote systems, provide a user with role 'user'.	string
remove_powerstore_data_network_group_ids <i>optional</i>	List of data network groups to be deleted specified as list of group IDs. Was added in version 4.0.0.0.	< string > array
unity_file_details <i>optional</i>	Unity file details. Was added in version 4.0.0.0.	unity_file_details_modify

Name	Description	Schema
vnx_file_password <i>optional</i>	Password used to access the control station. Was added in version 3.0.0.0.	string (password)
vnx_file_username <i>optional</i>	User-specified VNX NAS administrator username. nasadmin account is preferred for file import. Was added in version 3.0.0.0.	string

remote_system_query_available_powerstore_networks

Fetch the details of available storage networks from the local and remote PowerStore clusters. Was added in version 4.0.0.0.

Type : object

remote_system_query_available_powerstore_networks_response

Response to a query for the available storage networks from the local and remote PowerStore clusters. Was added in version 4.0.0.0.

Name	Description	Schema
local_powerstore_networks <i>optional</i>	List of local storage networks that are defined to be used for replication data transfer.	< powerstore_network_info > array
remote_powerstore_networks <i>optional</i>	List of remote storage networks that are defined to be used for replication data transfer.	< powerstore_network_info > array

remote_system_verify

Verify the remote system.

Name	Description	Schema
update_transport <i>optional</i>	Indicates whether we need to update the transport from iSCSI to iBasic/TCP. Was added in version 3.0.0.0. Default : false	boolean

replication_element_pair

Replication session element pair which maps the local storage element to the remote storage element.

Name	Description	Schema
local_storage_element_id <i>required</i>	Unique identifier of a local storage element.	string
remote_storage_element_id <i>required</i>	Unique identifier of a remote storage element.	string
replication_shadow_id <i>optional</i>	Unique identifier of the internal snap used for replicating data.	string
storage_element_type <i>optional</i>	Storage element type.	StorageElementType Enum

replication_group_delete

Parameters of the replication group delete operation. Was added in version 3.0.0.0.

Name	Description	Schema
delete_members <i>optional</i>	Normally, only empty replication groups can be deleted. This option overrides that behavior and deletes member vVols before deleting the replication group. Deletes bound and attached vVols, which is equivalent to virtual_volume delete with force set to true. May not be used together with unassign_members. Default : false	boolean

Name	Description	Schema
delete_session <i>optional</i>	Normally, only replication groups without a session can be deleted. This option overrides that behavior and deletes replication session before deleting the replication group. Note that this option only deletes the session on local appliance. Peer session and replication group won't be affected and may require separate delete operation. Default : false	boolean
unassign_members <i>optional</i>	Normally, only empty replication groups can be deleted. This option overrides that behavior and unassigns replication group from member vVols before deleting the replication group. May not be used together with delete_members. Default : false	boolean

replication_group_instance

Properties of a Replication Group. Was added in version 3.0.0.0. This resource type has queriable associations from storage_container, replication_group, virtual_volume, virtual_machine, policy

Name	Description	Schema
child_replication_groups <i>optional</i>	This is the inverse of the resource type replication_group association.	< replication_group_instance > array
creation_time_stamp <i>optional</i>	Timestamp when given replication group was created.	string (date-time)
creator_type <i>optional</i>		StorageCreatorType Enum
creator_type_localization <i>optional</i>	Localized message string corresponding to creator_type Was added in version 3.0.0.0.	string
description <i>optional</i>	Description of the Replication Group.	string
id <i>optional</i>	Unique identifier of the Replication Group instance.	string

Name	Description	Schema
is_replication_destination <i>optional</i>	Indicates whether replication group is replication destination or not. Default : false	boolean
name <i>optional</i>	Name of the Replication Group. This property supports case-insensitive filtering.	string
parent <i>optional</i>	This is the embeddable reference form of parent_id attribute.	replication_group_instance
parent_id <i>optional</i>	For snapshots, the ID of the parent replication group.	string
policies <i>optional</i>	List of the policies that are associated with this replication_group.	< policy_instance > array
source <i>optional</i>	This is the embeddable reference form of source_id attribute.	replication_group_instance
source_id <i>optional</i>	Id of the replication group from which the content has been sourced.	string
storage_container <i>optional</i>	This is the embeddable reference form of storage_container_id attribute.	storage_container_instance
storage_container_id <i>optional</i>	The storage container where the replication group resides.	string
target_replication_groups <i>optional</i>	This is the inverse of the resource type replication_group association.	< replication_group_instance > array
virtual_machines <i>optional</i>	This is the inverse of the resource type virtual_machine association.	< virtual_machine_instance > array
virtual_volumes <i>optional</i>	This is the inverse of the resource type virtual_volume association.	< virtual_volume_instance > array

replication_group_modify

Parameters for the replication group modify. Was added in version 3.0.0.0.

Name	Description	Schema
description <i>optional</i>	New description for the replication group. The description should not have any unprintable characters. Maximal length : 256	string
name <i>optional</i>	New name for the replication group. The name should not have any unprintable characters. Maximal length : 128	string

replication_rule_clone

Clone a replication rule. Creates an identical copy of the specified replication rule. The newly created replication rule will be a read-write, user-managed replication rule.

Was added in version 3.0.0.0.

Name	Description	Schema
force <i>optional</i>	Normally, this operation is only supported for user-managed replication rules. However, a non user-managed replication rule can be cloned when force is set to true. Default : false	boolean
name <i>required</i>	Name of the newly created replication rule.	string

replication_rule_clone_response

Replication rule clone response Was added in version 3.0.0.0.

Name	Description	Schema
id <i>optional</i>	Unique identifier of the newly created replication rule.	string

replication_rule_create

Create a new replication rule.

Name	Description	Schema
alert_threshold <i>optional</i>	Number of minutes the system will wait before generating a compliance alert when a replication session does not meet the RPO. By default, this will be set to the number of minutes in the configured RPO. Minimum value : 0 Maximum value : 1440	integer (int32)
is_read_only <i>optional</i>	Indicates whether this replication rule can be modified. Was added in version 3.0.0.0. Default : false	boolean
name <i>required</i>	Name of the replication rule. Length : 1 - 128	string
remote_system_id <i>required</i>	Unique identifier of the remote system to which this replication rule will replicate the associated storage resources. name:{name} can be used instead of {id}. For example: 'remote_system_id':'name:remote_system_name'	string
rpo <i>required</i>		RPOEnum

replication_rule_instance

Replication rule instance. Values was added in 3.0.0.0: alert_threshold, is_read_only. This resource type has queriable associations from remote_system, replication_session, policy

Name	Description	Schema
alert_threshold <i>optional</i>	Number of minutes the system will wait before generating a compliance alert when a replication session does not meet the RPO. By default, this will be set to the number of minutes in the configured RPO. Minimum value : 0 Maximum value : 1440	integer (int32)
id <i>optional</i>	Unique identifier of the replication rule. Example : "a9c64b58-59a5-45cd-80ed-92a4545fd080"	string
is_read_only <i>optional</i>	Indicates whether this replication rule can be modified. Was added in version 3.0.0.0. Default : false	boolean

Name	Description	Schema								
is_replica <i>optional</i>	Indicates whether this is a replica of a replication rule on a remote system that is the source of a replication session replicating a storage resource to the local system. Default : false	boolean								
managed_by <i>optional</i>	Was added in version 3.0.0.0.	PolicyManagedByEnum								
managed_by_id <i>optional</i>	Unique identifier of the managing entity based on the value of the managed_by property, as shown below: <table><tr><td>User</td><td>Empty</td></tr><tr><td>Metro</td><td>Unique identifier of the remote system where the policy was assigned.</td></tr><tr><td>Replication</td><td>Unique identifier of the source remote system.</td></tr><tr><td>VMware_vSphere</td><td>Unique identifier of the owning VMware vSphere/vCenter.</td></tr></table> Was added in version 3.0.0.0.	User	Empty	Metro	Unique identifier of the remote system where the policy was assigned.	Replication	Unique identifier of the source remote system.	VMware_vSphere	Unique identifier of the owning VMware vSphere/vCenter.	string
User	Empty									
Metro	Unique identifier of the remote system where the policy was assigned.									
Replication	Unique identifier of the source remote system.									
VMware_vSphere	Unique identifier of the owning VMware vSphere/vCenter.									
managed_by_label <i>optional</i>	Localized message string corresponding to managed_by Was added in version 3.0.0.0.	string								
name <i>optional</i>	Name of the replication rule. This property supports case-insensitive filtering. Example : "Five minute RPO rule"	string								
policies <i>optional</i>	List of the policies that are associated with this replication_rule.	< policy_instance > array								
remote_system <i>optional</i>	This is the embeddable reference form of remote_system_id attribute.	remote_system_instance								

Name	Description	Schema
remote_system_id <i>optional</i>	Unique identifier of the remote system to which this replication rule will replicate the associated storage resources. Example : "bc234409-08b9-4a05-a31b-2b96c72857b8"	string
replication_sessions <i>optional</i>	This is the inverse of the resource type replication_session association.	< replication_session_instance > array
rpo <i>optional</i>		RPOEnum
rpo_l10n <i>optional</i>	Localized message string corresponding to rpo	string

replication_rule_modify

Modify a replication rule.

If the replication rule is associated with a policy that is currently applied to a storage resource, the modified rule is immediately applied to the associated storage resource. However, changing the remote_system_id is not allowed if the replication rule is included in a policy that is currently applied to a storage resource.

To change the remote_system_id in this case, please follow one of the following procedures:

- Unassign the protection policy from the relevant storage resources, modify the replication rule, and then re-assign the protection policy to the relevant storage resources.
- Remove the replication rule from the protection policies that use it, modify the replication rule, and then add it back to the relevant protection policies.

When modifying RPO of a replication rule to Zero, the remote system must also support RPO value of Zero, meaning it has the capability of Synchronous_Block_Replication. Zero RPO is only supported for volumes, write-order-consistent volume groups, and NAS servers. If a replication rule is used by storage resources through one or more protection policies, RPO of a replication rule can only be modified to Zero when the system supports RPO Zero for all current associated storage resources. Modification of the 'rpo' value to or from Zero (sync replication) is not allowed when the rule is in use by a policy assigned to a NAS server. Create a new replication rule and protection policy instead.

Name	Description	Schema
alert_threshold <i>optional</i>	Number of minutes the system will wait before generating a compliance alert when a replication session does not meet the RPO. Minimum value : 0 Maximum value : 1440	integer (int32)
name <i>optional</i>	Name of the replication rule. Length : 1 - 128	string
remote_system_id <i>optional</i>	Unique identifier of the remote system to which this replication rule will replicate the associated storage resources. name:{name} can be used instead of {id}. For example: 'remote_system_id':'name:remote_system_name'	string
rpo <i>optional</i>		RPOEnum

replication_session_demote

Parameters to demote a replication session.

Was added in version 3.0.0.0.

Type : object

replication_session_failover

Parameters to fail over a replication session.

Name	Description	Schema
failover_snapshot_id <i>optional</i>	Optional identifier of a snapshot that the destination resource must be restored to as part of an unplanned failover. If a failover_snapshot_id is not specified, the destination will be restored to the last common base snapshot. This identifier is not supported when a failover test is in progress. Was added in version 2.0.0.0.	string
force <i>optional</i>	Indicates whether an unplanned failover needs to be performed for a session that is already in a failed over state. Default : false	boolean

Name	Description	Schema
is_planned <i>optional</i>	Indicates whether the replication session failover is planned or unplanned. For planned failovers, the value is true. For unplanned failovers, the value is false. Default : true	boolean
reverse <i>optional</i>	Indicates whether the system is auto-protected. Auto-protect is combination of failover and reprotect. This is only allowed when issuing a planned failover. Default : false	boolean
use_test_copy <i>optional</i>	When a failover test is in progress and an unplanned failover needs to be started, this flag must be set to true. Setting this flag to true will keep the destination resources' data as is before starting the unplanned failover. Please stop the failover test first if you do not wish to keep the test data before starting an unplanned failover. Was added in version 2.0.0.0. Default : false	boolean

replication_session_instance

A replication session.

This resource type has queriable associations from remote_system, replication_rule, volume, volume_group

Name	Description	Schema
data_connection_state <i>optional</i>	State of the data connection. Was added in version 3.0.0.0.	DataConnectionStateEnum
data_connection_state_l10n <i>optional</i>	Localized message string corresponding to data_connection_state Was added in version 3.0.0.0.	string
data_transfer_state <i>optional</i>	Was added in version 3.0.0.0.	DataTransferStateEnum
data_transfer_state_l10n <i>optional</i>	Localized message string corresponding to data_transfer_state Was added in version 3.0.0.0.	string

Name	Description	Schema
error_code <i>optional</i>	Error code for the asynchronous copy phase failure. Was added in version 3.0.0.0.	string
estimated_completion_timestamp <i>optional</i>	Estimated completion time of the current replication operation. This is not supported for Nas Server replication sessions.	string (date-time)
failover_test_in_progress <i>optional</i>	Indicates whether a test failover is in progress on the destination system of this replication session. This is not supported for Nas Server replication sessions. Was added in version 2.0.0.0. Default : false	boolean
id <i>optional</i>	Unique identifier of the replication session instance.	string
last_sync_duration <i>optional</i>	Elapsed time of the last synchronization operation in milliseconds. This is not supported for Nas Server replication sessions. For metro type replication sessions, this property is updated only during asynchronous copy phases. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
last_sync_timestamp <i>optional</i>	Time of last successful synchronization. For metro type replication sessions, this property is updated only during asynchronous copy phases. This is not supported for Nas Server replication sessions.	string (date-time)
local_resource_id <i>optional</i>	Unique identifier of the local storage resource for the replication session.	string
local_resource_state <i>optional</i>	Was added in version 3.0.0.0.	ReplicationResourceStateEnum

Name	Description	Schema
local_resource_state_id <i>optional</i>	Localized message string corresponding to local_resource_state. Was added in version 3.0.0.0.	string
migration_session <i>optional</i>	This is the embeddable reference form of migration_session_id attribute.	migration_session_instance
next_sync_timestamp <i>optional</i>	Estimated start time of the next automatic synchronization operation. This is applicable to asynchronous type replication sessions. This is not supported for Nas Server replication sessions. Was added in version 2.0.0.0.	string (date-time)
parent_replication_session_id <i>optional</i>	Parent Replication session identifier. This is only applicable for replication sessions of type file system. Was added in version 3.0.0.0.	string
progress_percentage <i>optional</i>	Progress of the current replication operation. This value is only available from the source system for the replication session, and is not supported for Nas Server replication sessions. Minimum value : 0 Maximum value : 2147483647	integer (int32)
remote_resource_id <i>optional</i>	Unique identifier of the remote storage resource for the replication session.	string
remote_system <i>optional</i>	This is the embeddable reference form of remote_system_id attribute.	remote_system_instance
remote_system_id <i>optional</i>	Unique identifier of the remote system instance.	string
replication_rule <i>optional</i>	This is the embeddable reference form of replication_rule_id attribute.	replication_rule_instance

Name	Description	Schema
replication_rule_id <i>optional</i>	Associated replication rule instance if created by policy engine.	string
resource_type <i>optional</i>	Type of the storage resource.	ReplicatedResourceTypeEnum
resource_type_l10n <i>optional</i>	Localized message string corresponding to resource_type	string
role <i>optional</i>	Role of the replication session.	ReplicationRoleEnum
role_l10n <i>optional</i>	Localized message string corresponding to role	string
state <i>optional</i>	Current state of the replication session.	ReplicationStateEnum
state_l10n <i>optional</i>	Localized message string corresponding to state	string
storage_element_pairs <i>optional</i>	List of storage element pairs for a replication session. For a volume or volume group replication session, the replicating storage elements are of type 'volume'. For a virtual volume replication session, the replicating storage elements are of type 'virtual volume'. For a volume group replication session, there will be as many pairs of storage elements as the number of volumes in the volume group. For volume/virtual volume replication session, there will be only one storage element pair. Filtering on the fields of this embedded resource is not supported.	< replication_element_pair > array
type <i>optional</i>	Was added in version 3.0.0.0.	ReplicationSessionTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type Was added in version 3.0.0.0.	string

Name	Description	Schema
volume_groups <i>optional</i>	List of the volume_groups that are associated with this replication_session.	< volume_group_instance > array
volumes <i>optional</i>	List of the volumes that are associated with this replication_session.	< volume_instance > array
witness_details <i>optional</i>	Witness configuration and state details associated with the replication session. Was added in version 3.6.0.0.	replication_session_witness_details

replication_session_modify

Parameters to modify a replication session.

Was added in version 3.0.0.0.

Name	Description	Schema
role <i>optional</i>	For metro type replication session only. Modify role of a metro non-preferred to preferred. Was added in version 3.0.0.0.	ReplicationRoleEnum

replication_session_promote

Parameters to promote a metro type replication session.

Was added in version 3.0.0.0.

Type : object

replication_session_reprotect

Parameters to reprotect a replication session.

Was added in version 4.0.0.0.

Name	Description	Schema
discard_changes_after_failover <i>optional</i>	When set to true this option indicates that any data changes made after the failover occurred will be discarded and the reprotect operation will restart the replication from the original source replicating in the original direction before the failover. This option is only supported for asynchronous replication of NAS Servers. Was added in version 4.0.0.0. Default : false	boolean

replication_session_stop_failover_test_response

Stop disaster recovery (DR) test response. Was added in version 2.0.0.0.

Name	Description	Schema
snapshot_id <i>optional</i>	Identifier of the optional snapshot instance created at the end of the test.	string

replication_session_witness_details

Witness configuration and state details associated with the replication session.

Was added in version 3.6.0.0. Filtering on the fields of this embedded resource is not supported.

Name	Description	Schema
state <i>optional</i>	Witness engagement state.	ReplicationSessionWitnessStateEnum
state_message <i>optional</i>	Localized message string corresponding to state Was added in version 3.6.0.0.	string
witness_id <i>optional</i>	Unique identifier of a witness service.	string
witness_name <i>optional</i>	User-provided name for the witness service that is reachable at the provided address. Used as a personal reminder.	string
witness_uuid <i>optional</i>	Witness service UUID generated as part of installation. This ID is exposed by the witness service itself.	string

replication_start_failover_test

Parameter(s) to start a disaster recovery (DR) failover simulation test at the destination site of a replication session.

Was added in version 2.0.0.0.

Name	Description	Schema
snapshot_id <i>optional</i>	Optional identifier of a local snapshot instance that will be used to set the data view of the destination resource at the beginning of the test. If a snapshot_id is not specified, the destination resource will reflect the last synchronized state of the source resource.	string

replication_stop_failover_test

Parameter(s) to stop a disaster recovery (DR) failover simulation test in progress at the destination site of a replication session.

Was added in version 2.0.0.0.

Name	Description	Schema
create_end_of_test_snapshot <i>optional</i>	Indicates whether a snapshot of the destination resource should be created at the end of the test. If set to true, the name of the created snapshot will contain a timestamp indicating its time of creation and will be of the format "failover_test_STOPPED_<timestamp>". The snapshot will be set to automatically expire after a system determined interval. Default : false	boolean
force <i>optional</i>	By default a failover test cannot be stopped if the remote system is not reachable. This option allows for stopping the test even if the remote system is down. The intention is to enable disaster recovery to a point in time different than the one under test. Default : false	boolean

role_instance

Name	Description	Schema
description <i>optional</i>	Description of the role.	string

Name	Description	Schema
id <i>optional</i>	Unique identifier of the role.	string
is_built_in <i>optional</i>	Indicates whether the role is built-in.	boolean
name <i>optional</i>	Name of the role.	string

sas_port_instance

Values was added in 3.0.0.0: is_in_use. This resource type has queriable associations from appliance, hardware, sas_port

Name	Description	Schema
appliance <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	appliance_instance
appliance_id <i>optional</i>	Unique identifier of the appliance containing the port.	string
hardware_parent <i>optional</i>	This is the embeddable reference form of hardware_parent_id attribute.	hardware_instance
hardware_parent_id <i>optional</i>	Unique identifier of the parent hardware instance handling the port. Was added in version 2.0.0.0.	string
id <i>optional</i>	Unique identifier of the SAS port.	string
io_module <i>optional</i>	This is the embeddable reference form of io_module_id attribute.	hardware_instance
io_module_id <i>optional</i>	Unique identifier of the hardware instance of type 'IO_Module' handling the port. Was deprecated in version 2.0.0.0.	string

Name	Description	Schema
is_in_use <i>optional</i>	Indicates whether the port is in use. Values are: true Is in use. false Is not in use. Was added in version 3.0.0.0.	boolean
is_link_up <i>optional</i>	Indicates whether the SAS port's link is up. Values are: true Link is up. false Link is down.	boolean
name <i>optional</i>	Name of the SAS port. This property supports case-insensitive filtering.	string
node <i>optional</i>	This is the embeddable reference form of node_id attribute.	hardware_instance
node_id <i>optional</i>	Unique identifier of the hardware instance of type 'Node' containing the port.	string
partner <i>optional</i>	This is the embeddable reference form of partner_id attribute.	sas_port_instance
partner_id <i>optional</i>	Unique identifier of the SAS partner port.	string
port_index <i>optional</i>	Index of the SAS port in IO module. Minimum value : 0 Maximum value : 2147483647	integer (int32)
sfp <i>optional</i>	This is the embeddable reference form of sfp_id attribute.	hardware_instance
sfp_id <i>optional</i>	Unique identifier of the hardware instance of type 'SFP' (Small Form-factor Pluggable) inserted into the port.	string
speed <i>optional</i>		SasPortSpeedEnum

Name	Description	Schema
speed_l10n <i>optional</i>	Localized message string corresponding to speed	string
stale_state <i>optional</i>	Indicator of the stale state of the port. Was added in version 2.0.0.0.	PortStaleStateEnum
stale_state_l10n <i>optional</i>	Localized message string corresponding to stale_state Was added in version 2.0.0.0.	string

sc_profile_rule_instance

Snapshot profile rule.

Name	Description	Schema
date_of_month <i>optional</i>	Dates of the month in which a snapshot will be taken.	< integer > array
day_of_week <i>optional</i>	Days of the week in which a snapshot will be taken.	< DayOfWeekEnum > array
day_of_week_l10n <i>optional</i>	Localized message array corresponding to day_of_week	< string > array
end_time <i>optional</i>	Time when snapshot creation will stop.	string (timestamp)
expiration <i>optional</i>	Length of time to keep snapshots before deleting them, in minutes. Minimum value : 0 Maximum value : 2147483647	integer (int32)
frequency <i>optional</i>	Frequency at which the snapshot will be taken.	ScScheduleTypeEnum
frequency_l10n <i>optional</i>	Localized message string corresponding to frequency	string

Name	Description	Schema
interval <i>optional</i>	Time interval between any two snapshot creations, in minutes. Minimum value : 0 Maximum value : 2147483647	integer (int32)
month_of_year <i>optional</i>	Months of the year in which a snapshot will be taken.	< MonthOfYearEnum > array
month_of_year_l10n <i>optional</i>	Localized message array corresponding to month_of_year	< string > array
name <i>optional</i>	Name of the snapshot profile rule.	string
start_date_time <i>optional</i>	Date and time when the snapshot will be created. This applies to the value Once in the ScScheduleTypeEnum.	string (date-time)
start_time <i>optional</i>	Time when snapshot creation will start.	string (timestamp)
week_of_month <i>optional</i>	Weeks of the month in which a snapshot will be taken.	< WeekOfMonthEnum > array
week_of_month_l10n <i>optional</i>	Localized message array corresponding to week_of_month	< string > array

security_config_generate_temp_credentials_response

Response for generating temporary credentials. Was added in version 4.1.0.0.

Name	Description	Schema
client_id <i>optional</i>	Unique identifier of the client.	string
secret <i>optional</i>	Secret of the client.	string (password)

security_config_instance

System security configuration. Values was added in 2.0.0.0: protocol_mode. Values was added in 3.0.0.0: is_http_redirect_enabled. Values was added in 3.5.0.0: is_stig_enabled, is_fips_enabled. Values was added in 4.2.0.0: sso_preferred_system_addresses.

Name	Description	Schema
cert_user_name_policy <i>optional</i>	Was added in version 4.1.0.0.	CertUserNamePolicy Enum
default_mfa_service <i>optional</i>	Was added in version 3.5.0.0.	mfa_service_ref
id <i>optional</i>	Unique identifier of the security configuration.	string
idle_timeout <i>optional</i>	Idle time (in seconds) after which login sessions will expire and require re-authentication. Minimum value : 0 Maximum value : 2147483647	integer (int32)
is_fips_enabled <i>optional</i>	FIPS 140-2 compliance mode of the cluster. If true, the cluster only uses FIPS-validated encryption schemes. Was added in version 3.5.0.0.	boolean
is_http_redirect_enabled <i>optional</i>	If true, redirecting HTTP requests to HTTPS is enabled. If false, HTTP redirection is disabled and only HTTPS is supported. Was added in version 3.0.0.0. Default : false	boolean
is_stig_enabled <i>optional</i>	If true, Security Technical Implementation Guide (STIG) applicable to the PowerStore product is enabled on the cluster. Was added in version 3.5.0.0.	boolean
protocol_mode <i>optional</i>	Was added in version 2.0.0.0.	SecurityProtocolModeEnum

Name	Description	Schema
protocol_mode_l10n <i>optional</i>	Localized message string corresponding to protocol_mode\nWas added in version 2.0.0.0. Was deprecated in version 3.0.0.0.	string
sso_logout_urls <i>optional</i>	URLs to which the IDP may invoke for SLO. The host name portion of the URLs are constructed based on the sso_preferred_system_addresses Was added in version 4.2.0.0.	< string > array
sso_preferred_system_addresses <i>optional</i>	List of user preferred hostname, ipv4 address, or ipv6 address of the system for use in SSO callbacks. The cluster management IP is the default value. When a system is configured with a hostname and the user wants to access it using both the hostname and cluster IP during SSO, both the hostname and the cluster IP can be added as preferred system addresses. Was added in version 4.2.0.0.	< string > array
sso_redirect_urls <i>optional</i>	URLs to which the IDP may redirect after login. The host name portion of the URLs are constructed based on the sso_preferred_system_addresses Was added in version 4.2.0.0.	< string > array
vasa_retain_certificate <i>optional</i>	If true, VASA server certificate will not be overwritten by the vCenter. Was added in version 3.5.0.0. Default : false	boolean

security_config_modify

Parameters for system security configuration modify. Was added in version 2.0.0.0.

Name	Description	Schema
add_sso_preferred_system_addresses <i>optional</i>	Add user preferred hostname, ipv4 address, or ipv6 address of the system for use in SSO callbacks. Was added in version 4.2.0.0.	< string > array

Name	Description	Schema
cert_user_name_policy <i>optional</i>	Was added in version 4.1.0.0.	CertUserNamePolicy Enum
idle_timeout <i>optional</i>	Idle time (in seconds) after which login sessions will expire and require re-authentication. Default idle session timeout is 3600 seconds in Non-STIG mode and 600 seconds in STIG mode. Idle session timeout is configurable only in STIG mode. Valid values for idle session timeout in STIG mode are: • 300 seconds • 600 seconds • 1200 seconds Was added in version 3.5.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
is_http_redirect_enabled <i>optional</i>	If true, redirecting HTTP requests to HTTPS is enabled. If false, HTTP redirection is disabled and only HTTPS is supported. Was added in version 3.0.0.0.	boolean
is_stig_enabled <i>optional</i>	If true, Security Technical Implementation Guide (STIG) applicable to the PowerStore product is enabled on the cluster. Was added in version 3.5.0.0.	boolean
protocol_mode <i>optional</i>		SecurityProtocolModeEnum
remove_sso_preferred_system_addresses <i>optional</i>	Remove user preferred hostname, ipv4 address, or ipv6 address of the system for use in SSO callbacks. Was added in version 4.2.0.0.	< string > array
vasa_retain_certificate <i>optional</i>	If true, VASA server certificate will not be overwritten by the vCenter. Was added in version 3.5.0.0.	boolean

service_action_execute

Describes a specific service action to execute. Was added in version 4.2.0.0.

Name	Description	Schema
migrate_vms <i>optional</i>	Migrate running virtual machines to the peer node before performing the action (for Unified+ appliances). See service_action list for applicability. Default : false Example : false	boolean
password <i>optional</i>	The service user password, where required. Example : "mypassword"	string (password)
resource_id <i>required</i>	The id of the target appliance for the service action, where necessary. name:{name} can be used instead of {id}. For example: 'resource_id':'name:appliance_name' Example : "CETV3164500003"	string
resource_type <i>required</i>	The id of the action.	ServiceActionResourceTypeEnum

service_action_instance

A subset of service tools that are available through service_actions. Was added in version 4.2.0.0.

Name	Description	Schema
description_l10n <i>optional</i>	A description of the purpose of this service action and the conditions under which it can be executed.	string
id <i>optional</i>		ServiceActionTypeEnum
id_l10n <i>optional</i>	Localized message string corresponding to id Was added in version 4.2.0.0.	string
name_l10n <i>optional</i>	The name of this service action.	string
require_service_password <i>optional</i>	Indicates where or not this service action requires the user to supply the service user credentials to execute.	boolean

Name	Description	Schema
resource_types <i>optional</i>	List of resource types to which this service action can be applied. Was added in version 4.2.0.0.	< ServiceActionResourceTypeEnum > array
resource_types_l10n <i>optional</i>	Localized message array corresponding to resource_types Was added in version 4.2.0.0.	< string > array
service_script <i>optional</i>	Specifies the script to run.	string
short_description_l10n <i>optional</i>	A short description that presents useful information. It is intended to be used as tool tips in the GUI.	string

service_config_instance

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance.	string
id <i>optional</i>	Unique identifier for the service configuration instance.	string
is_ssh_enabled <i>optional</i>	The current ssh service access state. true SSH access is enabled false SSH access is disabled	boolean

service_config_modify

Name	Description	Schema
is_ssh_enabled <i>required</i>	Current SSH service access state. true Enables SSH access false Disables SSH access	boolean

service_user_instance

Name	Description	Schema
id <i>optional</i>	Unique identifier of the service user account.	string
is_built_in <i>optional</i>	Whether the user account is built-in or not.	boolean
is_default_password <i>optional</i>	Whether the user account has the default password or not.	boolean
name <i>optional</i>	Name of the service user account. Always 'service' in this release.	string

service_user_modify

Name	Description	Schema
password <i>required</i>	New password for the service user account. The password value can be 8 to 40 UTF-8 characters long, and include as a minimum one uppercase character, one lowercase character, one numeric character, and one special character from this list [!,@#\$%^*>_~]. Length : 8 - 40	string (password)

smb_server_create

Arguments for the SMB server create operation. ***Note that domain SMB servers must be explicitly joined to the Active Directory using the join action before it can be accessed*** To create a standalone SMB server, set the is_standalone option to true and specify the following mandatory parameters: - netbios_name - workgroup For domain SMB servers, set the is_standalone option to false and specify the following mandatory parameters: - computer_name - domain For both cases, you must also specify a password for the local administrator of the SMB server using the local_admin_password option.

Name	Description	Schema
computer_name <i>optional</i>	DNS name of the associated computer account when the SMB server is joined to an Active Directory domain. This name is limited to 63 bytes and must not contain the following characters - comma (,) - tilde (~) - colon (:) - exclamation point (!) - at sign (@) - number sign (#) - dollar sign (\$) - percent (%) - caret (^) - ampersand (&) - apostrophe (') - period (.) - note that if you enter string with period only the first word will be kept - parentheses (()) - braces ({}) - underscore (_) - white space (blank) as defined by the Microsoft naming convention (see https://support.microsoft.com/en-us/help/909264/) Length : 1 - 63	string
description <i>optional</i>	Description of the SMB server in UTF-8 characters. Length : 0 - 48	string
domain <i>optional</i>	Domain name where SMB server is registered in Active Directory, if applicable. Length : 1 - 255	string
is_standalone <i>required</i>	Indicates whether the SMB server is standalone. Values are: - true - SMB server is standalone. - false - SMB server is joined to the Active Directory.	boolean
local_admin_password <i>required</i>	Regardless of the type of the SMB server, standalone or in the domain, a local administrator user must be created. local_admin_password is the password of this user. <i>Note The maximum length of a password that a human user could actually type to log into Windows is 127 characters (the limitation is in the Windows GUI).</i> Length : 0 - 256	string (password)
nas_server_id <i>required</i>	Unique identifier of the NAS server. name:{name} can be used instead of {id}. For example: 'nas_server_id':'name:nas_server_name'	string

Name	Description	Schema
nethbios_name <i>optional</i>	NetBIOS name is the network name of the standalone SMB server. SMB servers joined to Active Directory also have NetBIOS Name, defaulted to the 15 first characters of the computer_name attribute. Administrators can specify a custom NetBIOS Name for a SMB server using this attribute. NetBIOS name is limited to 15 characters and cannot contain the following characters - - backslash () - slash mark (/) - colon (:) - asterisk (*) - question mark (?) - quotation mark (") - less than sign (<) - greater than sign (>) - vertical bar () as defined by the Microsoft naming convention (see https://support.microsoft.com/en-us/help/909264/) Length : 1 - 15	string
workgroup <i>optional</i>	Applies to standalone SMB servers only. Windows network workgroup for the SMB server. Workgroup names are limited to 15 alphanumeric ASCII characters. Length : 1 - 15	string

smb_server_delete

Arguments for the SMB server delete operation.

Name	Description	Schema
force <i>optional</i>	If false, the delete will fail if the SMB server is still joined, else the SMB server is deleted but AD account is not removed.	boolean

smb_server_instance

This resource type has queriable association from nas_server

Name	Description	Schema
computer_name <i>optional</i>	DNS name of the associated computer account when the SMB server is joined to an Active Directory domain. This name's minimum length is 2 characters, it is limited to 63 bytes and must not contain the following characters - comma (,) - tilde (~) - colon (:) - exclamation point (!) - at sign (@) - number sign (#) - dollar sign (\$) - percent (%) - caret (^) - ampersand (&) - apostrophe (') - period (.) - note that if you enter string with period only the first word will be kept - parentheses (()) - braces ({} - underscore (_) - white space (blank) as defined by the Microsoft naming convention (see https://support.microsoft.com/en-us/help/909264/)	string
description <i>optional</i>	Description of the SMB server.	string
domain <i>optional</i>	Domain name where SMB server is registered in Active Directory, if applicable.	string
id <i>optional</i>	Unique identifier of the SMB server.	string
is_joined <i>optional</i>	Indicates whether the SMB server is joined to the Active Directory. Always false for standalone SMB servers.	boolean
is_standalone <i>optional</i>	Indicates whether the SMB server is standalone. Values are: - true - SMB server is standalone. - false - SMB server is a domain SMB server to be joined to the Active Directory.	boolean
nas_server <i>optional</i>	This is the embeddable reference form of nas_server_id attribute.	nas_server_instance
nas_server_id <i>optional</i>	Unique identifier of the NAS server.	string

Name	Description	Schema
netbios_name <i>optional</i>	NetBIOS name is the network name of the standalone SMB server. SMB server joined to Active Directory also have NetBIOS Name, defaulted to the 15 first characters of the computerName attribute. Administrators can specify a custom NetBIOS Name for a SMB server using this attribute. NetBIOS Name are limited to 15 characters and cannot contain the following characters - - backslash () - slash mark (/) - colon (:) - asterisk (*) - question mark (?) - quotation mark (") - less than sign (<) - greater than sign (>) - vertical bar () as defined by the Microsoft naming convention (see https://support.microsoft.com/en-us/help/909264/)	string
workgroup <i>optional</i>	Applies to stand-alone SMB servers only. Windows network workgroup for the SMB server. Workgroup names are limited to 15 alphanumeric ASCII characters.	string

smb_server_join

Argument to join the SMB server to a Active Directory domain.

Name	Description	Schema
domain_pass word <i>required</i>	Password of the domain-user specified to join the Active Directory domain.	string (password)
domain_user_ name <i>required</i>	Name of a domain-user with sufficient privileges to join the Active Directory domain.	string
organizationa l_unit <i>optional</i>	Organizational unit of the SMB server in Active Directory, if applicable.	string
reuse_comput er_account <i>optional</i>	If set to yes: try to reuse the existing SMB server account in the Active Directory when joining. Default : false	boolean

smb_server_modify

Arguments for the SMB server modify operation.

Name	Description	Schema
computer_name <i>optional</i>	DNS Name of the associated Computer Account when the SMB server is joined to an Active Directory domain. This name is limited to 63 bytes and must not contain the following characters - - comma (,) - tilde (~) - colon (:) - exclamation point (!) - at sign (@) - number sign (#) - dollar sign (\$) - percent (%) - caret (^) - ampersand (&) - apostrophe (') - period (.) - note that if you enter string with period only the first word will be kept - parentheses (()) - braces ({}) - underscore (_) - white space (blank) as defined by the Microsoft naming convention (see https://support.microsoft.com/en-us/help/909264/) Length : 1 - 63	string
description <i>optional</i>	Description of the SMB server in UTF-8 characters. Length : 0 - 48	string
domain <i>optional</i>	Domain name where SMB server is registered in Active Directory, if applicable. Length : 1 - 255	string
is_standalone <i>optional</i>	Indicates whether the SMB server is standalone. Values are: - true - SMB server is standalone. - false - SMB server is joined to the Active Directory.	boolean
local_admin_password <i>optional</i>	Password for the local administrator account of the SMB server. <i>Note The maximum length of a password that a human user could actually type to log into Windows is 127 characters (the limitation is in the Windows GUI).</i> Length : 0 - 256	string (password)
nethbios_name <i>optional</i>	NetBIOS name is the network name of the standalone SMB server. SMB servers joined to Active Directory also have NetBIOS Name, defaulted to the 15 first characters of the computer_name attribute. Administrators can specify a custom NetBIOS Name for an SMB server using this attribute. NetBIOS name is limited to 15 characters and cannot contain the following characters - - backslash (\) - slash mark (/) - colon (:) - asterisk (*) - question mark (?) - quotation mark ("") - less than sign (<) - greater than sign (>) - vertical bar () as defined by the Microsoft naming convention (see https://support.microsoft.com/en-us/help/909264/) Length : 1 - 15	string

Name	Description	Schema
workgroup <i>optional</i>	Applies to standalone SMB servers only. Windows network workgroup for the SMB server. Workgroup names are limited to 15 alphanumeric ASCII characters. Length : 1 - 15	string

smb_server_unjoin

Argument to unjoin the SMB server from an Active Directory domain. domain_user_name and domain_password are mandatory if is_skip_AD_unjoin is false

Name	Description	Schema
domain_password <i>optional</i>	Password of the domain-user specified to unjoin from the Active Directory domain.	string (password)
domain_user_name <i>optional</i>	Name of a domain-user with sufficient privileges to unjoin from the Active Directory domain.	string
is_skip_AD_unjoin <i>optional</i>	If set to yes: Will not remove the account from the Active Directory. This is to be used in case that no DC is available. Default : false	boolean

smb_share_ace

One Access Control Entry (ACE) for an SMB share. An ACE can either allow or deny read, write, or full access to one trustee (a user, group, or SID).

Was added in version 3.5.0.0.

Name	Description	Schema
access_level <i>required</i>		SMBShareAccessLevelEnum
access_type <i>required</i>		SMBShareAccessTypeEnum

Name	Description	Schema
trustee_name <i>required</i>	Trustee name can be User name or Group name or SID or WellKnown Name. Format is "domain\username" or "domain\groupname for domain user/group or netbiosName\groupname or netbiosName\username for local group. Security Identifier (SID) such as S-1-5-21-843271493-548684746-1849754324-32 wellKnown such as Everyone.	string
trustee_type <i>required</i>		SMBShareTrusteeTypeEnum

smb_share_create

Name	Description	Schema
description <i>optional</i>	SMB share description. Length : 0 - 255	string
file_system_id <i>required</i>	Unique identifier of the file system on which the SMB Share will be created. name:{name} can be used instead of {id}. For example: 'file_system_id':'name:file_system_name'	string
is_ABE_enabled <i>optional</i>	Indicates whether Access-based Enumeration (ABE) is enabled. ABE filters the list of available files and folders on a server to include only those to which the requesting user has access. Values are: - true - ABE is enabled. - false - ABE is disabled. Default : false	boolean
is_branch_cache_enabled <i>optional</i>	Indicates whether BranchCace optimization is enabled. BranchCache optimization technology copies content from your main office or hosted cloud content servers and caches the content at branch office locations, allowing client computers at branch offices to access the content locally rather than over the WAN. Values are: - true - BranchCache is enabled. - false - BranchCache is disabled. Default : false	boolean

Name	Description	Schema
is_continuous_availability_enabled <i>optional</i>	Indicates whether continuous availability for Server Message Block (SMB) 3.0 is enabled for the SMB Share. Values are: - true - Continuous availability for SMB 3.0 is enabled for the SMB Share. - false - Continuous availability for SMB 3.0 is disabled for the SMB Share. Default : <i>false</i>	boolean
is_encryption_enabled <i>optional</i>	Indicates whether encryption for Server Message Block (SMB) 3.0 is enabled at the shared folder level. Values are: - true - encryption for SMB 3.0 is enabled. - false - encryption for SMB 3.0 is disabled. Default : <i>false</i>	boolean
name <i>required</i>	SMB share name. Length : <i>1 - 80</i>	string
offline_availability <i>optional</i>		SMBShareOfflineAvailabilityEnum
path <i>required</i>	Local path to the file system or any existing sub-folder of the file system that is shared over the network. This path is relative to the NAS Server and must start with the filesystem's mountpoint path, which is the filesystem name. For example to share the top-level of a filesystem named svr1fs1, which is on the /svr1fs1 mountpoint of the NAS Server, use /svr1fs1 in the path parameter. SMB shares allow you to create multiple network shares for the same local path.	string
umask <i>optional</i>	The default UNIX umask for new files created on the Share. If not specified the umask defaults to 022. Default : <i>"022"</i> Length : <i>3</i>	string

smb_share_get_acl_response

Was added in version 3.5.0.0.

Name	Description	Schema
aces <i>optional</i>	List of ACEs (access control entries) specifying identities and their access rights to the SMB Share.	< smb_share_ace > array

smb_share_instance

This resource type has queriable association from file_system

Name	Description	Schema
description <i>optional</i>	User defined SMB share description. Length : 0 - 255	string
file_system <i>optional</i>	This is the embeddable reference form of file_system_id attribute.	file_system_instance
file_system_id <i>optional</i>	The file system from which the share was created.	string
id <i>optional</i>	Id of the SMB Share.	string
is_ABE_enabled <i>optional</i>	Indicates whether Access-based Enumeration (ABE) is enabled. ABE filters the list of available files and folders on a server to include only those to which the requesting user has access. Values are: - true - ABE is enabled. - false - ABE is disabled.	boolean
is_branch_cache_enabled <i>optional</i>	Indicates whether BranchCache optimization is enabled. BranchCache optimization technology copies content from your main office or hosted cloud content servers and caches the content at branch office locations, allowing client computers at branch offices to access the content locally rather than over the WAN. Values are: - true - BranchCache is enabled. - false - BranchCache is disabled.	boolean
is_continuous_availability_enabled <i>optional</i>	Indicates whether continuous availability for Server Message Block (SMB) 3.0 is enabled for the SMB Share. Values are: - true - Continuous availability for SMB 3.0 is enabled for the SMB Share. - false - Continuous availability for SMB 3.0 is disabled for the SMB Share.	boolean
is_encryption_enabled <i>optional</i>	Indicates whether encryption for Server Message Block (SMB) 3.0 is enabled at the shared folder level. Values are: - true - Encryption for SMB 3.0 is enabled. - false - Encryption for SMB 3.0 is disabled.	boolean
name <i>optional</i>	SMB share name. This property supports case-insensitive filtering.	string

Name	Description	Schema
offline_availability <i>optional</i>		SMBShareOfflineAvailabilityEnum
offline_availability_l10n <i>optional</i>	Localized message string corresponding to offline_availability	string
path <i>optional</i>	Local path to the file system or any existing sub-folder of the file system that is shared over the network. This path is relative to the NAS Server and must start with the filesystem's mountpoint path, which is the filesystem name. For example to share the top-level of a filesystem named svr1fs1, which is on the /svr1fs1 mountpoint of the NAS Server, use /svr1fs1 in the path parameter. SMB shares allow you to create multiple network shares for the same local path.	string
umask <i>optional</i>	The default UNIX umask for new files created on the Share. If not specified the umask defaults to 022. Default : "022" Length : 3	string

smb_share_modify

Name	Description	Schema
description <i>optional</i>	NFS Share description. Length : 0 - 255	string
is_ABE_enabled <i>optional</i>	Indicates whether Access-based Enumeration (ABE) is enabled. ABE filters the list of available files and folders on a server to include only those, that the requesting user has access to. Values are: - true - ABE is enabled. - false - ABE is disabled.	boolean
is_branch_cache_enabled <i>optional</i>	Indicates whether BranchCace optimization is enabled. BranchCache optimization technology copies content from your main office or hosted cloud content servers and caches the content at branch office locations, allowing client computers at branch offices to access the content locally rather than over the WAN. Values are: - true - BranchCache is enabled. - false - BranchCache is disabled.	boolean

Name	Description	Schema
is_continuous_availability_enabled <i>optional</i>	Indicates whether continuous availability for Server Message Block (SMB) 3.0 is enabled for the SMB Share. Values are: - true - Continuous availability for SMB 3.0 is enabled for the SMB Share. - false - Continuous availability for SMB 3.0 is disabled for the SMB Share.	boolean
is_encryption_enabled <i>optional</i>	Indicates whether encryption for Server Message Block (SMB) 3.0 is enabled at the shared folder level. Values are: - true - encryption for SMB 3.0 is enabled. - false - encryption for SMB 3.0 is disabled.	boolean
offline_availability <i>optional</i>		SMBShareOfflineAvailabilityEnum
umask <i>optional</i>	The default UNIX umask for new files created on the Share. Length : 3	string

smb_share_set_acl

Parameters of the smb_share set_acl operation. Was added in version 3.5.0.0.

Name	Description	Schema
aces <i>optional</i>	List of ACEs (access control entries) specifying identities and their access rights to the SMB Share.	< smb_share_ace > array
add_aces <i>optional</i>	List of user defined ACEs to add to the ACE list of the share. May only be specified with remove_aces modify arg, and if both are specified, remove_aces is applied first.	< smb_share_ace > array
remove_aces <i>optional</i>	List of user defined ACEs to remove from the ACE list of the share. May only be specified with append_aces modify arg, and if both are specified, remove_aces is applied first. Was added in version 3.5.0.0.	< smb_share_ace > array

smtp_config_instance

Values was added in 4.2.0.0: is_starttls_enabled, smtp_username.

Name	Description	Schema
address <i>optional</i>	IP address of the SMTP server. Example : "192.168.1.100"	string (ip-address)
id <i>optional</i>	Unique identifier of the SMTP configuration. This value is always '0'.	string
is_starttls_enabled <i>optional</i>	Indicates whether StartTLS is enabled. If startTLS is enabled, username and password become available optional parameters. Was added in version 4.2.0.0. Default : false Example : true	boolean
port <i>optional</i>	Port used for sending SMTP messages. Minimum value : 0 Maximum value : 65535 Example : 25	integer (int32)
smtp_username <i>optional</i>	The username used to authenticate with the SMTP server. Available and optional if startTLS is enabled. Was added in version 4.2.0.0. Length : 6 - 64 Example : "smtpuser@company.com"	string
source_email <i>optional</i>	Source email address used for sending SMTP messages. Example : "admin@mycompany.com"	string

smtp_config_modify

Name	Description	Schema
address <i>optional</i>	IP address of the SMTP server. Example : "192.168.1.100"	string (ip-address)
is_starttls_enabled <i>optional</i>	Indicates whether StartTLS is enabled. If startTLS is enabled, username and password become available optional parameters. Was added in version 4.2.0.0. Example : true	boolean
port <i>optional</i>	Port used for sending SMTP messages. Minimum value : 0 Maximum value : 65535 Example : 25	integer (int32)

Name	Description	Schema
smtp_password <i>optional</i>	The password used to authenticate with the SMTP server. Password is required when username is set. Was added in version 4.2.0.0. Length : 6 - 64 Example : "password"	string (password)
smtp_username <i>optional</i>	The username used to authenticate with the SMTP server. Available and optional if startTLS is enabled. Was added in version 4.2.0.0. Length : 6 - 64 Example : "smtpuser@company.com"	string
source_email <i>optional</i>	Source email address used for sending SMTP messages. Example : "admin@mycompany.com"	string

smtp_config_test

Name	Description	Schema
email_address <i>optional</i>	Destination email address for the test. Example : "admin@mycompany.com"	string

snapshot_rule_clone

Snapshot rule clone request. Was added in version 3.0.0.0.

Name	Description	Schema
force <i>optional</i>	Normally, this operation is only supported for user-managed snapshot rules. However, a non user-managed snapshot rule can be cloned when force is set to true. Default : false	boolean
name <i>required</i>	Name of the newly created snapshot rule.	string

snapshot_rule_clone_response

Snapshot rule clone response Was added in version 3.0.0.0.

Name	Description	Schema
id <i>optional</i>	Unique identifier of the newly created snapshot rule.	string

snapshot_rule_create

Create a new snapshot rule.

Name	Description	Schema
days_of_week <i>optional</i>	Days of the week when the snapshot rule should be applied. Days are determined based on the UTC time zone, unless the time_of_day and timezone properties are set.	< DaysOfWeekEnum > array
desired_retention <i>required</i>	Desired snapshot retention period in hours. The system will retain snapshots for this time period. The maximum retention is 70 years for remote snapshot rules and 1 year for local snapshot rules. Minimum value : 1 Maximum value : 613200	integer (int32)
interval <i>optional</i>		SnapRuleIntervalEnum
is_read_only <i>optional</i>	Indicates whether this snapshot rule can be modified. Was added in version 3.0.0.0. Default : false	boolean
is_secure <i>optional</i>	Secure snapshots are created by the rule if this flag is true. The snapshots cannot be deleted until the expiration time, and the expiration time cannot be reduced. Secure snapshots will only be created for block volumes, volume groups and file systems. Was added in version 3.5.0.0. Default : false	boolean
name <i>required</i>	Name of the snapshot rule. Length : 1 - 128	string
nas_access_type <i>optional</i>	The access type for file snapshots created by this snapshot rule. Was added in version 3.0.0.0.	NASAccessTypeEnum

Name	Description	Schema
remote_system_id <i>optional</i>	Unique identifier for the Data Domain remote system. If present, the associated volume/volume group is backed up to specified data domain remote system, else a local snapshot is taken. name:{name} can be used instead of {id}. For example: 'remote_system_id':'name:remote_system_name' Was added in version 3.5.0.0.	string
time_of_day <i>optional</i>	Time of the day to take a daily snapshot, with format "hh:mm" using a 24 hour clock. Either the interval parameter or the time_of_day parameter will be set, but not both. Example : "13:30"	string
timezone <i>optional</i>	Was added in version 2.0.0.0.	TimeZoneEnum

snapshot_rule_delete

Delete a snapshot rule. Deleting a snapshot rule is not allowed if the snapshot rule is associated with a protection policy that is currently assigned to one or more storage resources.

Name	Description	Schema
delete_snaps <i>optional</i>	Specify whether all snapshots previously created by this snapshot rule should also be deleted when this rule is removed. Default : false	boolean

snapshot_rule_instance

Snapshot rule instance. Values was added in 3.0.0.0: timezone, is_read_only, is_replica. Values was added in 3.5.0.0: remote_system_id. This resource type has queriable associations from remote_system, remote_snapshot_session, policy

Name	Description	Schema
days_of_week <i>optional</i>	Days of the week when the snapshot rule should be applied. Days are determined based on the UTC time zone, unless the time_of_day and timezone properties are set.	< DaysOfWeekEnum > array

Name	Description	Schema
days_of_week_l10n <i>optional</i>	Localized message array corresponding to days_of_week	< string > array
desired_retention <i>optional</i>	Desired snapshot retention period in hours. The system will retain snapshots for this time period. Minimum value : 1 Maximum value : 613200	integer (int32)
id <i>optional</i>	Unique identifier of the snapshot rule. Example : "a9c64b58-59a5-45cd-80ed-92a4545fd080"	string
interval <i>optional</i>		SnapRuleIntervalEnum
interval_l10n <i>optional</i>	Localized message string corresponding to interval	string
is_read_only <i>optional</i>	Indicates whether this snapshot rule can be modified. Was added in version 3.0.0.0. Default : false	boolean
is_replica <i>optional</i>	Indicates whether this is a replica of a snapshot rule on a remote system that is the source of a replication session replicating a storage resource to the local system. Default : false	boolean
is_secure <i>optional</i>	Indicates whether snapshots created by this rule should be secure. Secure snapshots cannot be deleted before the expiration time, and the expiration time cannot be reduced. Secure snapshots will only be created for block volumes, volume groups and file systems. Was added in version 3.5.0.0. Default : false	boolean
managed_by <i>optional</i>	Was added in version 3.0.0.0.	PolicyManagedByEnum

Name	Description	Schema								
managed_by_id <i>optional</i>	Unique identifier of the managing entity based on the value of the managed_by property, as shown below: <table><tr><td>User</td><td>Empty</td></tr><tr><td>Metro</td><td>Unique identifier of the remote system where the policy was assigned.</td></tr><tr><td>Replication</td><td>Unique identifier of the source remote system.</td></tr><tr><td>VMware_vSphere</td><td>Unique identifier of the owning VMware vSphere/vCenter.</td></tr></table> Was added in version 3.0.0.0.	User	Empty	Metro	Unique identifier of the remote system where the policy was assigned.	Replication	Unique identifier of the source remote system.	VMware_vSphere	Unique identifier of the owning VMware vSphere/vCenter.	string
User	Empty									
Metro	Unique identifier of the remote system where the policy was assigned.									
Replication	Unique identifier of the source remote system.									
VMware_vSphere	Unique identifier of the owning VMware vSphere/vCenter.									
managed_by_label <i>optional</i>	Localized message string corresponding to managed_by Was added in version 3.0.0.0.	string								
name <i>optional</i>	Snapshot rule name. This property supports case-insensitive filtering. Example : "Hourly snap rule"	string								
nas_access_type <i>optional</i>	The access type for file snapshots created by this snapshot rule. Was added in version 3.0.0.0.	NASAccessTypeEnum								
nas_access_type_label <i>optional</i>	Localized message string corresponding to nas_access_type Was added in version 3.0.0.0.	string								
policies <i>optional</i>	List of the policies that are associated with this snapshot_rule.	< policy_instance > array								
remote_snapshot_sessions <i>optional</i>	This is the inverse of the resource type remote_snapshot_session association.	< remote_snapshot_session_instance > array								

Name	Description	Schema
remote_system <i>optional</i>	This is the embeddable reference form of remote_system_id attribute.	remote_system_instance
remote_system_id <i>optional</i>	If set, the unique identifier of the Data Domain remote system to which snaps will be transported. Otherwise, snaps will be taken locally. Was added in version 3.5.0.0.	string
time_of_day <i>optional</i>	Time of the day to take a daily snapshot, with format "hh:mm" using a 24 hour clock. Either the interval parameter or the time_of_day parameter will be set, but not both. Example : "810"	string
timezone <i>optional</i>	Was added in version 2.0.0.0.	TimeZoneEnum
timezone_l10n <i>optional</i>	Localized message string corresponding to timezone Was added in version 2.0.0.0.	string

snapshot_rule_modify

Modify a snapshot rule. If the snapshot rule is associated with a policy that is currently applied to a storage resource, the modified rule is immediately applied to the associated storage resource.

Name	Description	Schema
days_of_week <i>optional</i>	Days of the week when the snapshot rule should be applied. Days are determined based on the UTC time zone, unless the time_of_day and timezone properties are set.	< DaysOfWeekEnum > array
desired_retention <i>optional</i>	Desired snapshot retention period in hours. The system will retain snapshots for this time period. The maximum retention is 70 years for remote snapshot rules and 1 year for local snapshot rules. Minimum value : 1 Maximum value : 613200	integer (int32)
interval <i>optional</i>		SnapRuleIntervalEnum

Name	Description	Schema
is_secure <i>optional</i>	Secure snapshots are created by the rule if this flag is true. The snapshots cannot be deleted until the expiration time, and the expiration time cannot be reduced. Secure snapshots will only be created for block volumes, volume groups and file systems. Snapshots already created by this rule will not have their is_secure attribute modified. Was added in version 3.5.0.0.	boolean
name <i>optional</i>	Snapshot rule name. Length : 1 - 128	string
nas_access_type <i>optional</i>	The access type for file snapshots created by this snapshot rule. Was added in version 3.0.0.0.	NASAccessTypeEnum
remote_system_id <i>optional</i>	Unique identifier for the PowerProtect DD remote system. If present, the associated volume/volume group is backed up to specified PowerProtect DD remote system, else a local snapshot is taken. This attribute can be modified only if existing value is non null and the associated policy is not attached to a volume or a volume group. The rule intended to take snapshots locally cannot be converted to take snapshots on a PowerProtect DD remote system and vice versa. name:{name} can be used instead of {id}. For example: 'remote_system_id':'name:remote_system_name' Was added in version 3.5.0.0.	string
time_of_day <i>optional</i>	Time of the day to take a daily snapshot, with format "hh:mm" using a 24 hour clock. Either the interval parameter or the time_of_day parameter will be set, but not both. Example : "13:30"	string
timezone <i>optional</i>	Was added in version 2.0.0.0.	TimeZoneEnum

snmp_server_create

Parameters to create an SNMP server. Was added in version 2.0.0.0.

Name	Description	Schema
alert_severity <i>required</i>		SNMPSeverityEnum
auth_protocol <i>optional</i>		SNMPAuthProtocolEnum
authpass <i>optional</i>	Passphrase, used for both Authentication and Privacy protocols, relevant only for SNMPv3. Length : 8 - 40	string (password)
ip_address <i>required</i>	IPv4 address, IPv6 address, or FQDN of the SNMP server.	string (ip-address)
port <i>required</i>	Port number to use with the address of the SNMP server: 162, [1024-49151] Minimum value : 162 Maximum value : 49151 Example : 162	integer (int32)
privacy_protocol <i>optional</i>		SNMPPrivacyProtocolEnum
trap_community <i>optional</i>	Trap Community string. Usually describes the security level, relevant only for SNMPv2c. Length : 0 - 256	string
user_name <i>optional</i>	User name, relevant only for SNMPv3. Length : 1 - 32	string
version <i>required</i>		SNMPVersionEnum

snmp_server_instance

An SNMP server. Was added in version 2.0.0.0.

Name	Description	Schema
alert_severity <i>optional</i>		SNMPSeverityEnum

Name	Description	Schema
alert_severity_l10n <i>optional</i>	Localized message string corresponding to alert_severity Was added in version 2.0.0.0.	string
auth_protocol <i>optional</i>		SNMPAuthProtocolEnum
auth_protocol_l10n <i>optional</i>	Localized message string corresponding to auth_protocol Was added in version 2.0.0.0.	string
id <i>optional</i>	Unique identifier of the SNMP server.	string
ip_address <i>optional</i>	IPv4 address, IPv6 address, or FQDN of the SNMP server.	string (ip-address)
port <i>optional</i>	Port number to use with the address of the SNMP server. Minimum value : 0 Maximum value : 2147483647 Example : 162	integer (int32)
privacy_protocol <i>optional</i>		SNMPPrivacyProtocolEnum
privacy_protocol_l10n <i>optional</i>	Localized message string corresponding to privacy_protocol Was added in version 2.0.0.0.	string
trap_community <i>optional</i>	Trap Community string. Usually describes the security level.	string
user_name <i>optional</i>	User name, relevant only for SNMPv3.	string
version <i>optional</i>		SNMPVersionEnum
version_l10n <i>optional</i>	Localized message string corresponding to version Was added in version 2.0.0.0.	string

snmp_server_modify

New values of the properties of the SNMP server. Was added in version 2.0.0.0.

Name	Description	Schema
alert_severity <i>optional</i>		SNMPSeverityEnum
auth_protocol <i>optional</i>		SNMPAuthProtocolEnum
authpass <i>optional</i>	Passphrase, used for both Authentication and Privacy protocols, relevant only for SNMPv3. Length : 8 - 40	string (password)
ip_address <i>optional</i>	IPv4 address, IPv6 address, or FQDN of the SNMP server.	string (ip-address)
port <i>optional</i>	Port number to use with the address of the SNMP server: 162, [1024-49151] Minimum value : 162 Maximum value : 49151 Example : 162	integer (int32)
privacy_protocol <i>optional</i>		SNMPPrivacyProtocolEnum
trap_community <i>optional</i>	Trap Community string. Usually describes the security level. Length : 0 - 256 Example : "read only"	string
user_name <i>optional</i>	User name, relevant only for SNMPv3. Length : 1 - 32	string

software_installed_instance

Summary of the software packages that are installed on each appliance, or on the cluster as a whole.

Name	Description	Schema
appliance <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	appliance_instance
build_flavor <i>optional</i>	Was added in version 2.0.0.0.	SoftwareInstalledBuildFlavorEnum
build_flavor_10n <i>optional</i>	Localized message string corresponding to build_flavor Was added in version 2.0.0.0.	string
build_id <i>optional</i>	Unique identifier of this build. Was added in version 2.0.0.0. Example : "1031103"	string
build_type <i>optional</i>	Was added in version 2.0.0.0.	SoftwareInstalledBuildTypeEnum
build_type_110n <i>optional</i>	Localized message string corresponding to build_type Was added in version 2.0.0.0.	string
build_version <i>optional</i>	Build version of the installed software package release. Was added in version 2.0.0.0. Example : "1.1.0.0"	string
id <i>optional</i>	Unique identifier of the installed software instance. Example : "6be18ac7-a898-48af-a174-9daa54b83754"	string
installed_date <i>optional</i>	Date and time when the software was successfully installed and committed on the cluster. If the software package has not been committed, this value is null. Example : "2017-09-01T08:15:30-05:00"	string (date-time)
is_cluster <i>optional</i>	Whether this information represents the common software release version that is supported on all appliances in the cluster. The value is true for the instance representing the cluster. The value is false for appliance software instances. Example : false	boolean
release_timestamp <i>optional</i>	Date and time when this software package was produced. Example : "2017-09-01T08:15:30-05:00"	string (date-time)

Name	Description	Schema
release_version <i>optional</i>	Version of the installed release software package release. Example : "0.5.0.565042"	string

software_package_install

Install the software package.

Type : object

software_package_instance

New releases of software are delivered in packages. Packages contain upgrade content that manage feature addition, modification, and removal. A software package contains the upgrade content (a collection of files and data) and metadata required to upgrade the PowerStore cluster to a new version of software.

Name	Description	Schema
build_flavor <i>optional</i>	Was added in version 2.0.0.0.	SoftwarePackageBuildFlavorEnum
build_flavor_label <i>optional</i>	Localized message string corresponding to build_flavor Was added in version 2.0.0.0.	string
build_id <i>optional</i>	Unique identifier of this build. Was added in version 2.0.0.0. Example : "1031103"	string
build_type <i>optional</i>	Was added in version 2.0.0.0.	SoftwarePackageBuildTypeEnum
build_type_label <i>optional</i>	Localized message string corresponding to build_type Was added in version 2.0.0.0.	string
build_version <i>optional</i>	Build number of the software package. Was added in version 2.0.0.0. Example : "1.1.0.0"	string

Name	Description	Schema
dependent_version <i>optional</i>	Minimum version required for this software_package to be installed. This will be empty if the dependency is already met. Packages with dependencies cannot be downloaded. Was added in version 4.0.0.0. Example : "A.B.C.D"	string
description_110n <i>optional</i>	Summary of the contents in this package.	string
id <i>optional</i>	Unique identifier of the software package. Example : "6be18ac7-a898-48af-a174-9daa54b83754"	string
installed_date <i>optional</i>	Date and time when this software package was successfully installed and committed on the cluster. If the software package has not been committed, this value is null. Example : "2017-09-01T08:15:30-05:00"	string (date-time)
is_autodownloaded <i>optional</i>	Whether a software package was automatically downloaded rather than uploaded by a user. Was added in version 4.0.0.0. Example : true	boolean
is_reboot_required <i>optional</i>	Whether a reboot is required during the upgrade process. Example : true	boolean
is_urgent <i>optional</i>	If true, then installation of this package is urgently recommended. Was added in version 4.0.0.0.	boolean
justification_110n <i>optional</i>	Explanation of why this software release is urgently recommended for this cluster. If is_urgent is false, justification will be empty. Example : "Recommended package"	string
kb_article_link <i>optional</i>	A link to a knowledge base article associated with this software package. Was added in version 4.0.0.0. Example : "http://kb.mycompany.com/kb7843957438"	string (uri)
name <i>optional</i>	Name of the software package. This property supports case-insensitive filtering. Example : "Release version 1.2.3"	string

Name	Description	Schema
release_timestamp <i>optional</i>	Date and time when this software package was produced. Example : "2017-09-01T08:15:30-05:00"	string (date-time)
release_version <i>optional</i>	Version number of the software package. Example : "0.5.0.565042"	string
size <i>optional</i>	New releases of software are delivered in packages. Packages contain upgrade content that manage feature addition, modification, and removal. A software package contains the upgrade content (a collection of files and data) and metadata required to upgrade the PowerStore cluster to a new version of software. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807 Example : 20971	integer (int64)
software_package_state <i>optional</i>		SoftwarePackageStateEnum
software_package_state_l10n <i>optional</i>	Localized message string corresponding to software_package_state	string
software_package_type <i>optional</i>		SoftwarePackageTypeEnum
software_package_type_l10n <i>optional</i>	Localized message string corresponding to software_package_type	string

software_package_puhc

Run the pre-upgrade health check. Was added in version 3.0.0.0.

Type : object

space_metrics_by_appliance

Space metrics for the appliance collected at five minute interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
data_physical_used <i>optional</i>	This metric represents amount of physical space user data occupies after deduplication and compression. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression.	number (float)
efficiency_ratio <i>optional</i>	The overall efficiency is computed as a ratio of the total space provisioned to physical used space. For example, ten 2 GB volumes were provisioned and 1 GB of data is written to each of them. Each of the volumes has one snapshot as well, for another ten 2 GB volumes. All volumes are thinly provisioned with deduplication and compression applied, there is 4 GB of physical space used. Overall efficiency would be (20 * 2 GB) / 4 GB or 10:1. The efficiency_ratio value will be 10 in this example.	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
logical_provisioned <i>optional</i>	Space metrics for the appliance collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
logical_used <i>optional</i>	Space metrics for the appliance collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used_file_system <i>optional</i>	Space metrics for the appliance collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used_volume <i>optional</i>	Space metrics for the appliance collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used_vol <i>optional</i>	Space metrics for the appliance collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
physical_total <i>optional</i>	Total combined space on the physical drives of the appliance available for data. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
physical_used <i>optional</i>	Total physical space consumed in the appliance, accounting for all efficiency mechanisms, as well as all data protection. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
reducible_data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression, based on reducible data only. Was added in version 4.0.0.0.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
response_definition <i>required</i>	Response definition for the entity.	string
shared_logical_used <i>optional</i>	Amount of space the volume family needs to hold the data written by host and shared by snaps and fast-clones in the family. This does not include deduplication or compression. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
shared_logical_used_file_system <i>optional</i>	Space metrics for the appliance collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
shared_logical_used_volume <i>optional</i>	Space metrics for the appliance collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
shared_logical_used_vvol <i>optional</i>	Space metrics for the appliance collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
snapshot_savings <i>optional</i>	Ratio of the amount of space that would have been used by snapshots if space efficiency was not applied to logical space used solely by snapshots. For example, an object is provisioned as 1 GB and it has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be (1 GB + 1 GB) / (0.2 GB + 0.2 GB) or 5:1. The snapshot_savings value will be 5 in this case.	number (float)
system_free_space <i>optional</i>	Space formerly used by the system for internal needs that will be reused for the same purpose as additional storage is provisioned. Was added in version 3.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
thin_savings <i>optional</i>	Ratio of all the vVol provisioned to data they contain. This is the ratio of logical_provisioned to logical_used. For example, a cluster has two 2 GB objects and have written 500 MB bytes of data to them. The thin savings would be $(2 * 2 \text{ GB}) / (2 * 0.5 \text{ GB})$ or 4:1, so the thin_savings value would be 4.0.	number (float)
timestamp <i>optional</i>	End of sample period.	string (date-time)
unreducible_data <i>optional</i>	Space metrics for the appliance collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

space_metrics_by_appliance_rollup

Summary of appliance level space metric data for a specific period of time, beginning with timestamp and including the maximum and final values for that period. Current support is for a time period of one hour and one day.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
last_data_physical_used <i>optional</i>	Last physical used space for data during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_data_reduction <i>optional</i>	Last data reduction space during the period.	number (float)

Name	Description	Schema
last_efficiency_ratio <i>optional</i>	Last efficiency ratio during the period.	number (float)
last_logical_provisioned <i>optional</i>	Last logical total space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used <i>optional</i>	Last logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used_file_system <i>optional</i>	Last logical used space for file systems during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used_volume <i>optional</i>	Last logical used space for block volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used_vvol <i>optional</i>	Summary of appliance level space metric data for a specific period of time, beginning with timestamp and including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_physical_total <i>optional</i>	Last physical total space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_physical_used <i>optional</i>	Last physical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_reducible_data_reduction <i>optional</i>	Last reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)

Name	Description	Schema
last_shared_logical_used <i>optional</i>	Last shared logical used during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_shared_logical_used_file_system <i>optional</i>	Last shared logical used space for file systems during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_shared_logical_used_volume <i>optional</i>	Last shared logical used space for block volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_shared_logical_used_volume <i>optional</i>	Summary of appliance level space metric data for a specific period of time, beginning with timestamp and including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_snapshot_savings <i>optional</i>	Last snapshot savings space during the period.	number (float)
last_system_free_space <i>optional</i>	Last system free space during the period. Was added in version 3.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_thin_savings <i>optional</i>	Last thin savings ratio during the period.	number (float)
last_unreducible_data <i>optional</i>	Summary of appliance level space metric data for a specific period of time, beginning with timestamp and including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
max_data_physical_used <i>optional</i>	Maximum physical used space for data during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_data_reduction <i>optional</i>	Maximum data reduction space during the period.	number (float)
max_efficiency_ratio <i>optional</i>	Maximum efficiency ratio during the period.	number (float)
max_logical_provisioned <i>optional</i>	Maximum logical total space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used <i>optional</i>	Maximum logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used_file_system <i>optional</i>	Maximum logical used space for file systems during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used_volume <i>optional</i>	Maximum logical used space for block volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used_vvol <i>optional</i>	Maximum logical used space for virtual volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_physical_total <i>optional</i>	Maximum physical total space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_physical_used <i>optional</i>	Maximum physical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
max_reducible_data_reduction <i>optional</i>	Maximum reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
max_shared_logical_used <i>optional</i>	Max shared logical used during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_shared_logical_used_file_system <i>optional</i>	Maximum shared logical used space for file volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_shared_logical_used_volume <i>optional</i>	Maximum shared logical used space for block volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_shared_logical_used_virtual <i>optional</i>	Maximum shared logical used space for virtual volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_snapshot_savings <i>optional</i>	Maximum snapshot savings space during the period.	number (float)
max_system_free_space <i>optional</i>	Maximum system free space during the period. Was added in version 3.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_thin_savings <i>optional</i>	Maximum thin savings ratio during the period.	number (float)

Name	Description	Schema
max_unreducible_data <i>optional</i>	Summary of appliance level space metric data for a specific period of time, beginning with timestamp and including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

space_metrics_by_cluster

Space metrics for the cluster collected at five minute interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
cluster_id <i>optional</i>	Identifier of the cluster.	string
data_physical_used <i>optional</i>	This metric represents total amount of physical space user data occupies after deduplication and compression. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression.	number (float)

Name	Description	Schema
efficiency_ratio <i>optional</i>	The overall efficiency is computed as a ratio of the total space provisioned to physical used space. For example, ten 2 GB volumes were provisioned and 1 GB of data is written to each of them. Each of the volumes has one snapshot as well, for another ten 2 GB volumes. All volumes are thinly provisioned with deduplication and compression applied, there is 4 GB of physical space used. Overall efficiency would be (20 * 2 GB) / 4 GB or 10:1. The efficiency_ratio value will be 10 in this example.	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_id <i>optional</i>	Localized message string corresponding to entity	string
logical_provisioned <i>optional</i>	Space metrics for the cluster collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used <i>optional</i>	Space metrics for the cluster collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used_file_system <i>optional</i>	Space metrics for the cluster collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used_volume <i>optional</i>	Space metrics for the cluster collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
logical_used_vol <i>optional</i>	Space metrics for the cluster collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
physical_total <i>optional</i>	The total combined space on the physical drives of the cluster available for data. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
physical_used <i>optional</i>	The total physical space consumed in the cluster, accounting for all efficiency mechanisms, as well as all data protection. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
reducible_data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression, based on reducible data only. Was added in version 4.0.0.0.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
shared_logical_used <i>optional</i>	Cluster shared logical used is sum of appliances' shared logical used in the cluster. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
shared_logical_used_file_system <i>optional</i>	Space metrics for the cluster collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
shared_logical_used_volume <i>optional</i>	Space metrics for the cluster collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
shared_logical_used_vvol <i>optional</i>	Space metrics for the cluster collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
snapshot_savings <i>optional</i>	Ratio of the amount of space that would have been used by snapshots if space efficiency was not applied to logical space used solely by snapshots. For example, an object is provisioned as 1 GB and it has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be (1 GB + 1 GB) / (0.2 GB + 0.2 GB) or 5:1. The snapshot_savings value will be 5 in this case.	number (float)
system_free_space <i>optional</i>	Space formerly used by the system for internal needs that will be reused for the same purpose as additional storage is provisioned. Was added in version 3.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
thin_savings <i>optional</i>	Ratio of all the vVol provisioned to data they contain. This is the ratio of logical_provisioned to logical_used. For example, a cluster has two 2 GB objects and have written 500 MB bytes of data to them. The thin savings would be (2 * 2 GB) / (2 * 0.5 GB) or 4:1, so the thin_savings value would be 4.0.	number (float)
timestamp <i>optional</i>	End of sample period.	string (date-time)
unreducible_data <i>optional</i>	Space metrics for the cluster collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

space_metrics_by_cluster_rollup

Summary of cluster level space metric data for a specific period of time, beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
cluster_id <i>optional</i>	Identifier of the cluster.	string
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
last_data_physical_used <i>optional</i>	Last physical used space for data during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_data_reduction <i>optional</i>	Last data reduction space during the period.	number (float)
last_efficiency_ratio <i>optional</i>	Last efficiency ratio during the period.	number (float)
last_logical_provisioned <i>optional</i>	Last logical total space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used <i>optional</i>	Last logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used_file_system <i>optional</i>	Last logical used space for file systems during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
last_logical_used_volume <i>optional</i>	Last logical used space for block volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used_vvol <i>optional</i>	Last logical used space for virtual volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_physical_total <i>optional</i>	Last physical total space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_physical_used <i>optional</i>	Last physical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_reducible_data_reduction <i>optional</i>	Last reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
last_shared_logical_used <i>optional</i>	Last shared logical used during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_shared_logical_used_file_system <i>optional</i>	Last shared logical used space for file systems during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_shared_logical_used_volume <i>optional</i>	Last shared logical used space for block volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
last_shared_logical_used_vvol <i>optional</i>	Summary of cluster level space metric data for a specific period of time, beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_snapshot_savings <i>optional</i>	Last snapshot savings space during the period.	number (float)
last_system_free_space <i>optional</i>	Last system free space during the period. Was added in version 3.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_thin_savings <i>optional</i>	Last thin savings ratio during the period.	number (float)
last_unreducible_data <i>optional</i>	Summary of cluster level space metric data for a specific period of time, beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_data_physical_used <i>optional</i>	Maximum physical used space for data during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_data_reduction <i>optional</i>	Maximum data reduction space during the period.	number (float)
max_efficiency_ratio <i>optional</i>	Maximum efficiency ratio during the period.	number (float)

Name	Description	Schema
max_logical_provisioned <i>optional</i>	Maximum logical total space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used <i>optional</i>	Maximum logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used_file_system <i>optional</i>	Maximum logical used space for file systems during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used_volume <i>optional</i>	Maximum logical used space for block volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used_vvol <i>optional</i>	Maximum logical used space for virtual volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_physical_total <i>optional</i>	Maximum physical total space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_physical_used <i>optional</i>	Maximum physical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_reducible_data_reduction <i>optional</i>	Max reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
max_shared_logical_used <i>optional</i>	Maximum shared logical used during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_shared_logical_used_file_system <i>optional</i>	Maximum shared logical used space for file systems during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
max_shared_logical_used_volume <i>optional</i>	Maximum shared logical used space for block volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_shared_logical_used_vol <i>optional</i>	Maximum shared logical used space for virtual volumes during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_snapshot_savings <i>optional</i>	Maximum snapshot savings space during the period.	number (float)
max_system_free_space <i>optional</i>	Maximum system free space during the period. Was added in version 3.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_thin_savings <i>optional</i>	Maximum thin savings ratio during the period.	number (float)
max_unreducible_data <i>optional</i>	Summary of cluster level space metric data for a specific period of time, beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

space_metrics_by_file_system

Summary of file system level space metric data for the period beginning with timestamp, including the average and maximum values for that period.

Was added in version 3.5.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance.	string
data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression. Was added in version 4.1.0.0.	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
file_system_id <i>optional</i>	Unique identifier of the file system.	string
logical_provisioned <i>optional</i>	Last logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used <i>optional</i>	Last logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
reducible_data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression, based on reducible data only. A null value indicates insufficient data to calculate the reducible data reduction. Was added in version 4.1.0.0.	number (float)

Name	Description	Schema
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). ' Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
thin_savings <i>optional</i>	Last thin savings ratio during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)
unreducible_data <i>optional</i>	Space metrics for the file system collected at five minute interval. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

space_metrics_by_file_system_rollup

Summary of file system level space metric data for the period beginning with timestamp, including the average and maximum values for that period.

Was added in version 3.5.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier of the appliance.	string
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum

Name	Description	Schema
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
file_system_id <i>optional</i>	Unique identifier of the file system.	string
last_data_reduction <i>optional</i>	Last data reduction ratio during the period. Was added in version 4.1.0.0.	number (float)
last_logical_provisioned <i>optional</i>	Last logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used <i>optional</i>	Last logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_reducible_data_reduction <i>optional</i>	Last reducible data reduction ratio during the period. A null value indicates insufficient data to calculate the reducible data reduction. Was added in version 4.1.0.0.	number (float)
last_thin_savings <i>optional</i>	Last thin savings ratio during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_unreducible_data <i>optional</i>	Summary of file system level space metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_provisioned <i>optional</i>	Last logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used <i>optional</i>	Last logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
max_data_reduction <i>optional</i>	Max data reduction ratio during the period. Was added in version 4.1.0.0.	number (float)
max_logical_provisioned <i>optional</i>	Max logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used <i>optional</i>	Max logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_reducible_data_reduction <i>optional</i>	Max reducible data reduction ratio during the period. A null value indicates insufficient data to calculate the reducible data reduction. Was added in version 4.1.0.0.	number (float)
max_thin_savings <i>optional</i>	Max thin savings ratio during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_unreducible_data <i>optional</i>	Summary of file system level space metric data for the period beginning with timestamp, including the average and maximum values for that period. Was added in version 3.5.0.0. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values.If the value is omitted from the response, it is 1 (no additional repeats). Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
thin_savings <i>optional</i>	Last thin savings ratio during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
timestamp <i>optional</i>	Time at the beginning of sample period.	string (date-time)

space_metrics_by_storage_container

Space metrics of storage container aggregated from all appliances collected at five minute interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression. Was added in version 4.0.0.0.	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
logical_provisioned <i>optional</i>	Space metrics of storage container aggregated from all appliances collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used <i>optional</i>	Space metrics of storage container aggregated from all appliances collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
reducible_data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression, based on reducible data only. Was added in version 4.0.0.0.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
response_definition <i>required</i>	Response definition for the entity.	string
shared_logical_used <i>optional</i>	Space metrics of storage container aggregated from all appliances collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
snap_clone_logical_used <i>optional</i>	Space metrics of storage container aggregated from all appliances collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
snapshot_savings <i>optional</i>	Ratio of the amount of space that would have been used by snapshots if space efficiency was not applied to logical space used solely by snapshots. For example, a volume is provisioned as 1 GB and it has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be (1 GB + 1 GB) / (0.2 GB + 0.2 GB) or 5:1. The snapshot_savings value will be 5 in this case.	number (float)
storage_container_id <i>optional</i>	Internal ID of the storage container.	string
thin_savings <i>optional</i>	Ratio of all the vVol provisioned to data they contain. This is the ratio of logical_provisioned to logical_used. For example, a SC has two 2 GB vVol's and have written 500 MB of data to them. The thin savings would be (2 * 2GB) / (2 * 0.5 GB) or 4:1, so the thin_savings value would be 4.0. Was added in version 3.5.0.0.	number (float)
timestamp <i>optional</i>	End of sample period.	string (date-time)

Name	Description	Schema
unique_physical_used <i>optional</i>	Space metrics of storage container aggregated from all appliances collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
unreducible_data <i>optional</i>	Space metrics of storage container aggregated from all appliances collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

space_metrics_by_storage_container_rollup

Summary of storage container level space metric data for a specific period of time beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
last_data_reduction <i>optional</i>	Last data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
last_logical_provisioned <i>optional</i>	Last logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used <i>optional</i>	Last logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
last_reducible_data_reduction <i>optional</i>	Last reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
last_shared_logical_used <i>optional</i>	Last shared logical used space during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_snap_clone_logical_used <i>optional</i>	Summary of storage container level space metric data for a specific period of time beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_snapshot_savings <i>optional</i>	Last snapshot savings during the period.	number (float)
last_thin_savings <i>optional</i>	Last thin savings ratio during the period. Was added in version 3.5.0.0.	number (float)
last_unique_physical_used <i>optional</i>	Summary of storage container level space metric data for a specific period of time beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_unreducible_data <i>optional</i>	Summary of storage container level space metric data for a specific period of time beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
max_data_reduction <i>optional</i>	Max data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
max_logical_provisioned <i>optional</i>	Maximum logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used <i>optional</i>	Maximum logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_reducible_data_reduction <i>optional</i>	Max reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
max_shared_logical_used <i>optional</i>	Maximum shared logical used space during the period. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_snap_clone_logical_used <i>optional</i>	Summary of storage container level space metric data for a specific period of time beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_snapshot_savings <i>optional</i>	Maximum snapshot savings during the period.	number (float)
max_thin_savings <i>optional</i>	Max thin savings ratio during the period. Was added in version 3.5.0.0.	number (float)

Name	Description	Schema
max_unique_physical_used <i>optional</i>	Summary of storage container level space metric data for a specific period of time beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_unreducible_data <i>optional</i>	Summary of storage container level space metric data for a specific period of time beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
storage_container_id <i>optional</i>	Internal ID of the storage container.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

space_metrics_by_vg

Space metrics for a volume group collected at a five minute interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression. Was added in version 4.0.0.0.	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
logical_provisioned <i>optional</i>	Space metrics for a volume group collected at a five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used <i>optional</i>	Space metrics for a volume group collected at a five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
reducible_data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression, based on reducible data only. Was added in version 4.0.0.0.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
shared_logical_used <i>optional</i>	Space metrics for a volume group collected at a five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
snap_clone_logical_used <i>optional</i>	Space metrics for a volume group collected at a five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
snapshot_savings <i>optional</i>	Ratio of the amount of space that would have been used by snapshots in the volume group if space efficiency was not applied to logical space used solely by snapshots. For example, two volumes are provisioned as 1 GB and each has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be $(1\text{ GB} * 2 + 1\text{ GB} * 2) / (0.2\text{ GB} * 2 + 0.2\text{ GB} * 2)$ or 5:1. The snapshot_savings value will be 5 in this case.	number (float)
thin_savings <i>optional</i>	Ratio of all the volumes provisioned to data being written to them. For example, a volume group has two 2 GB volumes and have written 500 MB of data to them. The thin savings would be $(2 * 2\text{ GB}) / (2 * 0.5\text{ GB})$ or 4:1, so the thin_savings value would be 4.0.	number (float)
timestamp <i>optional</i>	End of sample period.	string (date-time)
unique_physical_used <i>optional</i>	Space metrics for a volume group collected at a five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
unreducible_data <i>optional</i>	Space metrics for a volume group collected at a five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
vg_id <i>optional</i>	Unique identifier representing a volume group.	string

space_metrics_by_vg_rollup

Summary of volume group level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
last_data_reduction <i>optional</i>	Last data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
last_logical_provisioned <i>optional</i>	Last logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used <i>optional</i>	Last logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_reducible_data_reduction <i>optional</i>	Last reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
last_shared_logical_used <i>optional</i>	Summary of volume group level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_snap_clone_logical_used <i>optional</i>	Last snap and clone logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
last_snapshot_savings <i>optional</i>	Last snapshot savings space during the period.	number (float)
last_thin_savings <i>optional</i>	Last thin savings ratio during the period.	number (float)
last_unique_physical_used <i>optional</i>	Summary of volume group level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_unreducible_data <i>optional</i>	Summary of volume group level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_data_reduction <i>optional</i>	Max data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
max_logical_provisioned <i>optional</i>	Max logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used <i>optional</i>	Maximum logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_reducible_data_reduction <i>optional</i>	Max reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)

Name	Description	Schema
max_shared_logical_used <i>optional</i>	Summary of volume group level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_snap_clone_logical_used <i>optional</i>	Max snap and clone logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_snapshot_savings <i>optional</i>	Max snapshot savings space during the period.	number (float)
max_thin_savings <i>optional</i>	Max thin savings ratio during the period.	number (float)
max_unique_physical_used <i>optional</i>	Summary of volume group level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_unreducible_data <i>optional</i>	Summary of volume group level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string

Name	Description	Schema
timestamp <i>optional</i>	End of sample period.	string (date-time)
vg_id <i>optional</i>	Unique identifier representing a specific volume group.	string

space_metrics_by_vm

Space metrics for the VM collected at five minute interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression. Was added in version 4.0.0.0.	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
logical_provisioned <i>optional</i>	Space metrics for the VM collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used <i>optional</i>	Space metrics for the VM collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
reducible_data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression, based on reducible data only. Was added in version 4.0.0.0.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
response_definition <i>required</i>	Response definition for the entity.	string
shared_logical_used <i>optional</i>	Space metrics for the VM collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
snap_clone_logical_used <i>optional</i>	Space metrics for the VM collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
snapshot_savings <i>optional</i>	Ratio of the amount of space that would have been used by snapshots if space efficiency was not applied to logical space used solely by snapshots of vVols used by virtual machine. For example, a vVol is provisioned as 1 GB and it has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be (1 GB + 1 GB) / (0.2 GB + 0.2 GB) or 5:1. The snapshot_savings value will be 5 in this case.	number (float)
thin_savings <i>optional</i>	Ratio of all the vVol provisioned to data they contain. This is the ratio of logical_provisioned to logical_used. For example, a VM has two 2 GB vVol's and have written 500 MB of data to them. The thin savings would be (2 * 2GB) / (2 * 0.5 GB) or 4:1, so the thin_savings value would be 4.0.	number (float)
timestamp <i>optional</i>	End of sample period.	string (date-time)
unique_physical_used <i>optional</i>	Amount of physical space virtual machine used after compression and deduplication. This is the space to be freed up if a virtual machine is removed. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
unreducible_data <i>optional</i>	Space metrics for the VM collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
vm_id <i>optional</i>	Unique identifier representing a specific virtual machine.	string

space_metrics_by_vm_rollup

Summary of VM level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
last_data_reduction <i>optional</i>	Last data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
last_logical_provisioned <i>optional</i>	Last logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used <i>optional</i>	Last logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_reducible_data_reduction <i>optional</i>	Last reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
last_shared_logical_used <i>optional</i>	Summary of VM level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
last_snap_clone_logical_used <i>optional</i>	Last snap and clone logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_snapshot_savings <i>optional</i>	Last snapshot savings space during the period.	number (float)
last_thin_savings <i>optional</i>	Last thin savings ratio during the period.	number (float)
last_unique_physical_used <i>optional</i>	Last unique physical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_unreducible_data <i>optional</i>	Summary of VM level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_data_reduction <i>optional</i>	Max data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
max_logical_provisioned <i>optional</i>	Max logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used <i>optional</i>	Max logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_reducible_data_reduction <i>optional</i>	Max reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)

Name	Description	Schema
max_shared_logical_used <i>optional</i>	Summary of VM level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_snap_clone_logical_used <i>optional</i>	Max snap and clone logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_snapshot_savings <i>optional</i>	Max snapshot savings space during the period.	number (float)
max_thin_savings <i>optional</i>	Max thin savings ratio during the period.	number (float)
max_unique_physical_used <i>optional</i>	Max unique physical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_unreducible_data <i>optional</i>	Summary of VM level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

Name	Description	Schema
vm_id <i>optional</i>	Unique identifier representing a specific virtual machine.	string

space_metrics_by_volume

Space metrics for the volume collected at five minute interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
logical_provisioned <i>optional</i>	Space metrics for the volume collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
logical_used <i>optional</i>	Space metrics for the volume collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string

Name	Description	Schema
thin_savings <i>optional</i>	Ratio of all the volumes provisioned to data being written to them. For example, an appliance has two 2 GB volumes and have written 500 MB of data to them. The thin savings would be (2 GB * 2) / (0.5 GB * 2) or 4:1, so the thin_savings value would be 4.0.	number (float)
timestamp <i>optional</i>	End of sample period.	string (date-time)
volume_id <i>optional</i>	ID of the volume.	string

space_metrics_by_volume_family

Space metrics for the volume family collected at five minute interval.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression. Was added in version 4.0.0.0.	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
family_id <i>optional</i>	ID of the family.	string
logical_provisioned <i>optional</i>	Space metrics for the volume family collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
logical_used <i>optional</i>	Amount of data in bytes host has written to a volume family without any deduplication, compression or sharing. This metric includes primaries, snaps and clones. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
reducible_data_reduction <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression, based on reducible data only. Was added in version 4.0.0.0.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
shared_logical_used <i>optional</i>	Amount of space the volume family needs to hold the data written by host and shared by snaps and fast-clones in the family. This does not include deduplication or compression. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
snap_clone_logical_used <i>optional</i>	Total Amount of data in bytes host has written to all volumes in the volume family without any deduplication, compression or sharing. This metric includes snaps and clones in the volume family. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
snapshot_savings <i>optional</i>	Ratio of the amount of space that would have been used by snapshots if space efficiency was not applied to logical space used solely by snapshots. For example, a volume is provisioned as 1 GB bytes and it has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be (1 GB + 1 GB) / (0.2 GB + 0.2 GB) or 5:1. The snapshot_savings value will be 5 in this case.	number (float)
timestamp <i>optional</i>	End of sample period.	string (date-time)

Name	Description	Schema
unique_physical_used <i>optional</i>	Amount of physical space volume family used after compression and deduplication. This is the space to be freed up if a volume family is removed from the appliance. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
unreducible_data <i>optional</i>	Space metrics for the volume family collected at five minute interval. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

space_metrics_by_volume_family_rollup

Space metrics for the volume family for one hour or one day period beginning with timestamp, including the maximum and final values for that period.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_id <i>optional</i>	Localized message string corresponding to entity	string
family_id <i>optional</i>	ID of the family.	string
last_data_reduction <i>optional</i>	Last data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
last_logical_provisioned <i>optional</i>	Last logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
last_logical_used <i>optional</i>	Last logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_reducible_data_reduction <i>optional</i>	Last reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
last_shared_logical_used <i>optional</i>	Last shared logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_snap_clone_logical_used <i>optional</i>	Last snap and clone logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_snapshot_savings <i>optional</i>	Last snapshot savings space during the period.	number (float)
last_unique_physical_used <i>optional</i>	Last unique physical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_unreducible_data <i>optional</i>	Space metrics for the volume family for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_data_reduction <i>optional</i>	Max data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
max_logical_provisioned <i>optional</i>	Max logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used <i>optional</i>	Max logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
max_reducible_data_reduction <i>optional</i>	Max reducible data reduction ratio during the period. Was added in version 4.0.0.0.	number (float)
max_shared_logical_used <i>optional</i>	Max shared logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_snap_clone_logical_used <i>optional</i>	Max snap and clone logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_snapshot_savings <i>optional</i>	Max snapshot savings space during the period.	number (float)
max_unique_physical_used <i>optional</i>	Max unique physical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_unreducible_data <i>optional</i>	Space metrics for the volume family for one hour or one day period beginning with timestamp, including the maximum and final values for that period. Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

space_metrics_by_volume_rollup

Summary of volume level space metric data for one hour or one day period beginning with

timestamp, including the maximum and final values for that period.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
last_logical_provisioned <i>optional</i>	Last logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_logical_used <i>optional</i>	Last logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
last_thin_savings <i>optional</i>	Last thin savings ratio during the period.	number (float)
max_logical_provisioned <i>optional</i>	Max logical provisioned space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_logical_used <i>optional</i>	Max logical used space during the period. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
max_thin_savings <i>optional</i>	Max thin savings ratio during the period.	number (float)
repeat_count <i>optional</i>	Number of times the metrics are repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)

Name	Description	Schema
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
volume_id <i>optional</i>	ID of the volume.	string

sso_claim_role_mapping_create

Parameters for creating an SSO claim role mapping instance. Resource for configuring SSO user or group entry to role mapping for the system based on the standardized claim(s) from the ID token. When user mapping is preferred, claim_name is User_Name, and value from the User_Name claim needs to be provided as the claim_value parameter. When group mapping is preferred, claim_name can be one of the 3 standardized groups claims and the value from groups claim needs to be provided as claim_value parameter. 3 standardized groups claims are allowed for current release to provide user flexibilities to map different "groups" representations in IDP's token claims to different standardized groups. For instance, user can map the groups claim from IDP to Groups_A and map the roles claim (from Azure app role) to Groups_B.

Was added in version 4.2.0.0.

Name	Description	Schema
claim_name <i>required</i>		StandardizedSSOClaimsEnum
claim_value <i>required</i>	When user mapping is preferred, claim_name is User_Name, and value from the User_Name claim needs to be provided as the claim_value parameter. When group mapping is preferred, claim_name can be one of the 3 standardized groups claims and the value from groups claim needs to be provided as claim_value parameter. 3 standardized groups claims are allowed for current release to provide user flexibilities to map different "groups" representations in IDP's token claims to different standardized groups. For instance, user can map the groups claim from IDP to Groups_A and map the roles claim (from Azure app role) to Groups_B. Length : 1 - 1023	string

Name	Description	Schema
oidc_service_id <i>required</i>	The id of the OIDC service this claim role mapping is configured. Length : 1 - 1023	string
role_id <i>required</i>	Unique identifier of the role assigned to the claim value.	string

sso_claim_role_mapping_instance

An sso_claim_role_mapping resource describes a configured mapping from an external user or group identifier to a system administrative role, using standard system claim_names. The oidc_service configuration specifies how claim names from the IDP are mapped to the standard system claim names.

For a user mapping, the claim_name is User_Name, and expected value from the IDP in the User_Name claim needs to be provided as the claim_value parameter. For a group mapping, the claim name is one of Groups_A, Groups_B, or Groups_C, and against, the expected value from the IDP is provided as the claim_value. Three standardized groups claims are allowed in order to provide the flexibility to map different “groups” representations in IDP’s token claims to up to three standardized system groups. For instance, user can map the groups claim from IDP to Groups_A and map the roles claim (from Azure app role) to Groups_B.

Was added in version 4.2.0.0.

Name	Description	Schema
claim_name <i>optional</i>	Name of the claim from one of the standardized local service provider’s claims (Standardized claim Display_User_Name is for displaying and auditing only. It can’t be used for role mapping).	StandardizedSSOClaimsEnum
claim_value <i>optional</i>	When user mapping is preferred, claim_name is User_Name, and value from the User_Name claim needs to be provided as the claim_value parameter. When group mapping is preferred, claim_name can be one of the 3 standardized groups claims and the value from groups claim needs to be provided as claim_value parameter. 3 standardized groups claims are allowed for current release to provide user flexibilities to map different "groups" representations in IDP’s token claims to different standardized groups. For instance, user can map the groups claim from IDP to Groups_A and map the roles claim (from Azure app role) to Groups_B. Length : 1 - 1023	string

Name	Description	Schema
id <i>optional</i>	Unique identifier of this sso_claim_role_mapping resource.	string
oidc_service_id <i>optional</i>	The id of the OIDC service for which this claim to role mapping is configured. Length : 1 - 1023	string
role_id <i>optional</i>	Unique identifier of the role assigned to the claim value.	string

sso_claim_role_mapping_modify

Properties of an sso_claim_role_mapping modify operation. Was added in version 4.2.0.0.

Name	Description	Schema
role_id <i>optional</i>	Unique identifier of role assigned to the claim value.	string

sso_metadata_instance

Properties of an sso_metadata_cma_view resource. Was added in version 4.2.0.0.

Name	Description	Schema
id <i>optional</i>	Unique identifier of the SSO Metadata instance.	string
sso_logout_path <i>optional</i>	Path portion of the logout callback URL for use by IDP (the URL without the leading 'https://{supported ip or fqdn}').	string
sso_redirect_path <i>optional</i>	Path portion of the redirect callback URL for IDP after login (the URL without the leading 'https://{supported ip or fqdn}').	string
supported_fqdns <i>optional</i>	List of supported fqdns of local system for SSO. If reverse DNS lookup fails, this will be an empty list.	< string (ip-address) > array

Name	Description	Schema
supported_management_addresses <i>optional</i>	List of supported management IP addresses of the local system usable by IDP for SSO callbacks to the system.	< string (ip-address) > array

storage_container_create

Parameters for storage container create.

Name	Description	Schema
datastore_name <i>optional</i>	This will be the VVol datastore name in vCenter when it is mounted. If not specified, the name of a storage container is used. datastore_name cannot contain characters '/', '"', '%', '"', '[', ']'. Was added in version 3.0.0.0.	string
high_water_mark <i>optional</i>	This is the percentage of the quota that can be consumed before an alert is raised. Values between 50-100 (inclusive) are allowed. Was added in version 3.0.0.0. Minimum value : 50 Maximum value : 100	integer (int16)
mount <i>optional</i>	If specified, performs mount a storage container in vCenter operation as part of create operation. Was added in version 3.0.0.0.	boolean
name <i>required</i>	Name for the storage container that is unique across all storage containers in the cluster. The name must be between 1 and 64 UTF-8 characters (inclusive), and not more than 127 bytes. Name cannot contain characters '/', '"', '%', '"', '[', ']'. Length : 1 - 64	string
quota <i>optional</i>	Parameters for storage container create. Unit : bytes Default : 0 Minimum value : 0 Maximum value : 4611686018427388000	integer (int64)

Name	Description	Schema
storage_protocol <i>optional</i>	Was added in version 3.0.0.0.	StorageContainerStorageProtocolEnum
vsphere_host_ids <i>optional</i>	Unique identifiers of the vsphere_host instances used to mount VVol datastore in vCenter. Parameter is required for mounting storage container in Power Store case, if not specified for Power Store X case, Power Store X cluster hosts are used. Was added in version 3.0.0.0.	< string > array

storage_container_delete

Parameters for storage container delete.

Name	Description	Schema
force <i>optional</i>	Normally, deletion of a storage container that still contains virtual volumes will be rejected. This option overrides that error and allows the delete to continue. Use with great caution.	boolean
unmount <i>optional</i>	If specified, performs unmount of a storage container as a part of delete operation. Was added in version 3.0.0.0. Default : false	boolean

storage_container_destination_create

Was added in version 3.0.0.0.

Name	Description	Schema
remote_storage_container_id <i>required</i>	The unique id of the destination storage container on the remote system.	string
remote_system_id <i>required</i>	The unique id of the remote system. name:{name} can be used instead of {id}. For example: 'remote_system_id': 'name:remote_system_name'	string

Name	Description	Schema
storage_container_id <i>required</i>	The unique id of the local storage container. name:{name} can be used instead of {id}. For example: 'storage_container_id':'name:storage_container_name'	string

storage_container_destination_instance

A storage container destination defines replication destination for a local storage container on a remote system. New replication groups will use destination storage containers to create their vVol replicas.

Was added in version 3.0.0.0. This resource type has queriable associations from storage_container, remote_system

Name	Description	Schema
id <i>optional</i>	The unique id of the storage container destination.	string
remote_storage_container_id <i>optional</i>	The unique id of the destination storage container on the remote system.	string
remote_system <i>optional</i>	This is the embeddable reference form of remote_system_id attribute.	remote_system_instance
remote_system_id <i>optional</i>	The unique id of the remote system.	string
storage_container <i>optional</i>	This is the embeddable reference form of storage_container_id attribute.	storage_container_instance
storage_container_id <i>optional</i>	The unique id of the local storage container.	string

storage_container_instance

A storage container is a logical grouping of related storage objects. For example, a storage container maps to a vVol datastore in vSphere where the storage for virtual machines can be provisioned.

This resource type has queriable associations from `virtual_volume`, `replication_group`, `datastore`, `storage_container_destination`

Name	Description	Schema
datastores <i>optional</i>	This is the inverse of the resource type datastore association.	< datastore_instance > array
destinations <i>optional</i>	This is the inverse of the resource type storage_container_destination association.	< storage_container_destination_instance > array
id <i>optional</i>	The unique identifier of the storage container.	string
name <i>optional</i>	Name for the storage container. This should be unique across all storage containers in the cluster. Name can be from 1 to 64 UTF-8 characters, and not more than 127 bytes. Name cannot contain characters '/', ', '%', '"'. This property supports case-insensitive filtering. Length : 1 - 64	string
quota <i>optional</i>	A storage container is a logical grouping of related storage objects. For example, a storage container maps to a vVol datastore in vSphere where the storage for virtual machines can be provisioned. This resource type has queriable associations from virtual_volume, replication_group, datastore, storage_container_destination Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
replication_groups <i>optional</i>	This is the inverse of the resource type replication_group association.	< replication_group_instance > array
storage_protocol <i>optional</i>	Was added in version 3.0.0.0.	StorageContainerStorageProtocolEnum

Name	Description	Schema
storage_protocol_l10n <i>optional</i>	Localized message string corresponding to storage_protocol Was added in version 3.0.0.0.	string
virtual_volumes <i>optional</i>	This is the inverse of the resource type virtual_volume association.	< virtual_volume_instance > array

storage_container_modify

Parameters for storage container modify.

Name	Description	Schema
name <i>optional</i>	New name for the storage container that is unique across all storage containers in the cluster. The name must be between 1 and 64 UTF-8 characters (inclusive), and not more than 127 bytes. Name cannot contain characters '/', '"', '%', '"', '[', ']'. Length : 1 - 64	string
quota <i>optional</i>	Parameters for storage container modify. Unit : bytes Minimum value : 0 Maximum value : 4611686018427388000	integer (int64)
storage_protocol <i>optional</i>	Was added in version 3.0.0.0.	StorageContainerStorageProtocolEnum

storage_container_mount

Properties for mounting storage container.

Name	Description	Schema
datastore_name <i>optional</i>	This will be the VVol datastore name in vCenter when it is mounted. If not specified, the name of a storage container is used. datastore_name cannot contain characters '/', '"', '%', '"', '[', ']'.	string

Name	Description	Schema
vsphere_host_ids <i>optional</i>	Unique identifiers of the vsphere_host instances used to mount VVol datastore in vCenter. Parameter is required for mounting storage container in Power Store case, if not specified for Power Store X case, Power Store X cluster hosts are used. Was added in version 3.0.0.0.	< string > array

supported_idp_metadata_instance

The local system supports only a subset of the configurations that the IDP supports. If the configurations or values used by IDP exceed those supported by the local system, related operations will fail.

Was added in version 4.2.0.0. Filtering on the fields of this embedded resource is not supported.

Name	Description	Schema
supported_code_challenge_methods <i>optional</i>	List of code challenge methods supported by local system for IDP.	< SupportedCodeChallengeMethodsEnum > array
supported_grant_types <i>optional</i>	List of grant types supported by local system for IDP.	< SupportedGrantTypesEnum > array
supported_grant_types_l10n <i>optional</i>	Localized message array corresponding to supported_grant_types Was added in version 4.2.0.0.	< string > array
supported_id_token_signing_alg_values <i>optional</i>	List of id token signing algorithms supported by local system for IDP.	< SupportedIdTokenSigningAlgValuesEnum > array
supported_introspection_endpoint_auth_methods <i>optional</i>	List of the token introspection authentication methods supported by local system for IDP.	< SupportedIntrospectionEndpointAuthMethodsEnum > array

Name	Description	Schema
supported_introspection_endpoint_auth_methods_110n <i>optional</i>	Localized message array corresponding to supported_introspection_endpoint_auth_methods Was added in version 4.2.0.0.	< string > array
supported_revocation_endpoint_auth_methods <i>optional</i>	List of the token revocation authentication methods supported by local system for IDP.	< SupportedRevocationEndpointAuthMethodsEnum > array
supported_revocation_endpoint_auth_methods_110n <i>optional</i>	Localized message array corresponding to supported_revocation_endpoint_auth_methods Was added in version 4.2.0.0.	< string > array
supported_subject_types <i>optional</i>	List of subject types supported by local system for IDP.	< SupportedSubjectTypesEnum > array
supported_subject_types_110n <i>optional</i>	Localized message array corresponding to supported_subject_types Was added in version 4.2.0.0.	< string > array
supported_token_endpoint_auth_methods <i>optional</i>	List of token endpoint authentication methods supported by local system for IDP.	< SupportedTokenEndpointAuthMethodsEnum > array
supported_token_endpoint_auth_methods_110n <i>optional</i>	Localized message array corresponding to supported_token_endpoint_auth_methods Was added in version 4.2.0.0.	< string > array

unity_file_details_create

Unity File details to register with Powerstore as a remote system for File import.

Was added in version 4.0.0.0.

Name	Description	Schema
service_account_password <i>required</i>	Unity service account password used to access the service account for Unity file import.	string (password)
service_account_username <i>required</i>	User-specified Unity service account username. service account is preferred for file import.	string

unity_file_details_instance

Unity file details to register with Powerstore as a remote system for file import.

Was added in version 4.0.0.0. Filtering on the fields of this embedded resource is not supported.

Name	Description	Schema
service_account_username <i>optional</i>	User-specified Unity service account username. service account is preferred for file import.	string

unity_file_details_modify

Unity File details to register with Powerstore as a remote system for File import.

Was added in version 4.0.0.0.

Name	Description	Schema
service_account_password <i>optional</i>	Unity service account password used to access the service account for Unity file import.	string (password)
service_account_username <i>optional</i>	User-specified Unity service account username. service account is preferred for file import.	string

update_initiator_in_host

Parameters for updating initiator in host.

Name	Description	Schema
chap_mutual_password <i>optional</i>	Password for CHAP authentication. This value must be 12 to 64 printable UTF-8 characters. CHAP password is required when the cluster CHAP mode is mutual authentication. Length : 12 - 64	string (password)
chap_mutual_username <i>optional</i>	Username for CHAP authentication. This value must be 1 to 64 printable UTF-8 characters. CHAP username is required when the cluster CHAP mode is mutual authentication. Length : 1 - 64	string
chap_single_password <i>optional</i>	Password for CHAP authentication. This value must be 12 to 64 printable UTF-8 characters. CHAP password is required when the cluster CHAP mode is single authentication. Length : 12 - 64	string (password)
chap_single_username <i>optional</i>	Username for CHAP authentication. This value must be 1 to 64 printable UTF-8 characters. CHAP username is required when the cluster CHAP mode is single authentication. Length : 1 - 64	string
port_name <i>optional</i>	Initiator name	string

valid_upgrade_instance

Additional hardware details that are specific to each hardware component upgrade. Was added in version 3.6.0.0.

Name	Description	Schema
cpu_cores <i>optional</i>	CPU Cores description. Example : "2x10 Core (Silver 4210R) Cascade Lake CPU"	string
dpe <i>optional</i>	DPE description.	string
model_name <i>optional</i>		HardwareModelTypeEnum

Name	Description	Schema
model_name_10n <i>optional</i>	Localized message string corresponding to model_name Was added in version 3.6.0.0.	string
nvramp_drives_required <i>optional</i>	Number of nvram drives required for upgrade. Minimum value : 0 Maximum value : 2147483647 Example : 2	integer (int32)
physical_memory <i>optional</i>	Memory description. Example : "192 GB Memory(12x 16 GB)"	string

validate_create_issue

An issue found during validation accompanied by the suggested resolution. Was added in version 2.0.0.0.

Name	Description	Schema
applianceId <i>optional</i>	The appliance on which the issue was detected. Was added in version 2.0.0.0. Was deprecated in version 3.0.0.0.	string
appliance_id <i>optional</i>	The appliance on which the issue was detected.	string
reason <i>optional</i>		error_message
resolution <i>optional</i>		error_message

vasa_provider_credentials

Storage system credentials for vcenter to use for communicating with the storage system using VASA. A VASA vendor provider is required for PowerStoreX deployments, and optional for PowerStoreT deployments.

Was added in version 2.0.0.0.

Name	Description	Schema
password <i>required</i>	Password of the local user account which will be used by vSphere to register VASA provider. Example : "password"	string (password)
username <i>required</i>	Username of the local user account which will be used by vSphere to register VASA provider. Example : "username"	string

vcenter_create

Name	Description	Schema
address <i>required</i>	IP address of vCenter host, in IPv4, IPv6, or hostname format.	string (ip-address)
is_verify_server_cert <i>optional</i>	Whether the vCenter certificate will be required to pass verification. If false, the vCenter certificate will be used whether or not it can be verified. If true, communication with vCenter will be disabled until the option is set to false or the vCenter presents a verifiable certificate. Was added in version 4.0.0.0. Default : true	boolean
password <i>required</i>	Password to login to vCenter.	string (password)
server_cert_thumbprint <i>optional</i>	An SHA-256 certificate thumbprint used to validate the vCenter SSL certificate when is_verify_server_cert is true. Required when is_verify_server_cert is passed as true. Was added in version 4.0.0.0. Pattern : "[0-9a-fA-F]{64}\$"	string
username <i>required</i>	User name to login to vCenter.	string
vasa_provider_credentials <i>optional</i>	Was added in version 2.0.0.0.	vasa_provider_credentials

vcenter_delete

Was added in version 2.0.0.0.

Name	Description	Schema
delete_vendor_provider <i>optional</i>	When true, remove the VASA vendor provider from the vCenter. This will only happen if the provider is not connected to any other PowerStore systems. Default : false	boolean

vcenter_instance

Properties of a vCenter. This resource type has queriable associations from virtual_machine, datastore, vsphere_host

Name	Description	Schema
address <i>optional</i>	IP address of vCenter host, in IPv4, IPv6, or hostname format.	string (ip-address)
datastores <i>optional</i>	This is the inverse of the resource type datastore association.	< datastore_instance > array
id <i>optional</i>	Unique identifier of the vCenter instance.	string
instance_uuid <i>optional</i>	UUID instance of the vCenter.	string
is_verify_server_cert <i>optional</i>	Indicates whether the connection is secured with the vCenter SSL certificate validation or not. Was added in version 4.0.0.0.	boolean
username <i>optional</i>	User name to login to vCenter.	string
vendor_provider_status <i>optional</i>	General status of the VASA vendor provider in vCenter. A VASA vendor provider is required for PowerStoreX deployments, and optional for PowerStoreT deployments. To register or re-register the VASA vendor provider, pass appropriate storage system credentials using the modify request. Was added in version 2.0.0.0.	VendorProviderStatusEnum

Name	Description	Schema
vendor_provider_status_l10n <i>optional</i>	Localized message string corresponding to vendor_provider_status Was added in version 2.0.0.0.	string
version <i>optional</i>	Version of the vCenter including its build number. Was added in version 3.0.0.0.	string
virtual_machines <i>optional</i>	This is the inverse of the resource type virtual_machine association.	< virtual_machine_instance > array
vsphere_hosts <i>optional</i>	This is the inverse of the resource type vsphere_host association.	< vsphere_host_instance > array

vcenter_modify

Name	Description	Schema
address <i>optional</i>	IP address of vCenter host, in IPv4, IPv6, or hostname format. Must be a new address of the same vCenter.	string (ip-address)
is_verify_server_cert <i>optional</i>	Whether or not the connection will be secured with the vCenter SSL certificate. Was added in version 4.0.0.0.	boolean
password <i>optional</i>	Password to login to vCenter.	string (password)
server_cert_thumbprint <i>optional</i>	An SHA-256 certificate thumbprint used to validate the vCenter SSL certificate when is_verify_server_cert is true. Required when is_verify_server_cert is passed as true. If provided when is_verify_server_cert is already true, it will trigger the system to reload and re-register the vCenter SSL certificate or to reject the modify request if the vCenter SSL certificate doesn't match the provided certificate thumbprint. Was added in version 4.0.0.0. Pattern : "^[0-9a-fA-F]{64}\$"	string

Name	Description	Schema
username <i>optional</i>	User name to login to vCenter. Password needs to be provided to modify the user name.	string
vasa_provider_credentials <i>optional</i>	Was added in version 2.0.0.0.	vasa_provider_credentials

veth_port_instance

Properties of a virtual Ethernet port. Values was added in 2.0.0.0: partner_id. This resource type has queriable associations from veth_port, appliance, node, ip_port

Name	Description	Schema
appliance <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	appliance_instance
appliance_id <i>optional</i>	Unique identifier of the appliance containing the virtual Ethernet port. Example : "A1"	string
current_mtu <i>optional</i>	Properties of a virtual Ethernet port. Values was added in 2.0.0.0: partner_id. This resource type has queriable associations from veth_port, appliance, node, ip_port Unit : bytes Minimum value : 0 Maximum value : 2147483647 Example : 9000	integer (int32)
current_speed <i>optional</i>	Properties of a virtual Ethernet port. Values was added in 2.0.0.0: partner_id. This resource type has queriable associations from veth_port, appliance, node, ip_port Unit : bits/second Minimum value : 0 Maximum value : 9223372036854775807 Example : 1073741824	integer (int64)
id <i>optional</i>	Unique identifier of the virtual Ethernet port instance. Example : "VETH_PORT1"	string
ip_ports <i>optional</i>	This is the inverse of the resource type ip_port association.	< ip_port_instance > array

Name	Description	Schema
is_link_up <i>optional</i>	Indicates whether the virtual Ethernet port's link is up. Values are: true Link is up. false Link is down. Example : true	boolean
mac_address <i>optional</i>	Virtual Ethernet port MAC address. Example : "0e14e671cf15"	string
name <i>optional</i>	Virtual Ethernet port name. This property supports case-insensitive filtering. Example : "BaseEnclosure-NodeA-vFEPort1"	string
node <i>optional</i>	This is the embeddable reference form of node_id attribute.	node_instance
node_id <i>optional</i>	Unique identifier of the node containing the virtual Ethernet port. Example : "N1"	string
partner <i>optional</i>	This is the embeddable reference form of partner_id attribute.	veth_port_instance
partner_id <i>optional</i>	Identifier of the virtual Ethernet port with the same logical location on the other node of the appliance. Partner ports are configured symmetrically for HA and load balancing purposes within the appliance. Was added in version 2.0.0.0. Example : "VETH_PORT2"	string
vswitch_name <i>optional</i>	Name of the virtual switch that holds the virtual Ethernet port. Only applies to PowerStoreX deployments. Example : "DVS-System"	string
vswitch_port_group_name <i>optional</i>	Name of the virtual switch port group to which the virtual Ethernet port is assigned. Only applies to PowerStoreX deployments. Example : "dvportgroup-1234"	string

Name	Description	Schema
vswitch_port_id <i>optional</i>	Unique identifier of the virtual switch port associated with the virtual Ethernet port. Only applies to PowerStoreX deployments. Minimum value : 0 Maximum value : 2147483647 Example : 1	integer (int32)
vswitch_port_name <i>optional</i>	Name of the virtual switch port associated with the virtual Ethernet port. Only applies to PowerStoreX deployments. This property supports case-insensitive filtering. Example : "Network Adapter 1"	string

virtual_machine_instance

Properties of a virtual machine. This resource type has queriable associations from policy, replication_group, virtual_machine, vcenter, virtual_volume, datastore, vsphere_host

Name	Description	Schema
children <i>optional</i>	This is the inverse of the resource type virtual_machine association.	< virtual_machine_instance > array
cpu_count <i>optional</i>	Number of virtual CPUs in the VM. Not applicable to VM snapshots. Minimum value : 0 Maximum value : 2147483647	integer (int32)
datastores <i>optional</i>	List of the datastores that are associated with this virtual_machine.	< datastore_instance > array
description <i>optional</i>	Description of the VM in vCenter.	string
guest_os <i>optional</i>	Guest operating system of the VM. Not applicable to VM snapshots.	string
id <i>optional</i>	Unique identifier of the VM instance. This value is generated by the appliance.	string
instance_uuid <i>optional</i>	UUID instance of the VM in vCenter. This value is stored in the VM and migrates with the VM to other vCenter instances. Not applicable to VM snapshots.	string

Name	Description	Schema
is_consistent <i>optional</i>	Indicates whether the VM snapshot is crash-consistent.	boolean
is_consistent_snaps_supported <i>optional</i>	Indicates whether the VM supports creating crash-consistent snapshots. Not applicable to snapshot VMs.	boolean
memory_mb <i>optional</i>	Memory size of the VM, in megabytes. Not applicable to VM snapshots. Minimum value : 0 Maximum value : 2147483647	integer (int32)
name <i>optional</i>	User-assigned name of the VM in vCenter. This property supports case-insensitive filtering.	string
parent <i>optional</i>	This is the embeddable reference form of parent_id attribute.	virtual_machine_instance
parent_id <i>optional</i>	virtual machine from which the snapshot was created. This value must reflect the actual data structure. This information is exposed to the end-user in the parent_id field in the protection_data string.	string
power_state <i>optional</i>	Was added in version 3.0.0.0.	VirtualMachinePowerStateEnum
power_state_10n <i>optional</i>	Localized message string corresponding to power_state Was added in version 3.0.0.0.	string
protection_data <i>optional</i>		vm_protection_data_instance
protection_policy <i>optional</i>	This is the embeddable reference form of protection_policy_id attribute.	policy_instance
protection_policy_id <i>optional</i>	Unique identifier of the protection policy assigned to the VM. Not applicable to template and snapshot VMs.	string

Name	Description	Schema
replication_group <i>optional</i>	This is the embeddable reference form of replication_group_id attribute.	replication_group_instance
replication_group_id <i>optional</i>	Unique identifier of the replication group that this virtual machine belongs to. Not applicable to template and snapshot VMs. Was added in version 3.0.0.0.	string
status <i>optional</i>		VirtualMachineStatusEnum
status_l10n <i>optional</i>	Localized message string corresponding to status	string
type <i>optional</i>		VirtualMachineTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type	string
vcenter <i>optional</i>	This is the embeddable reference form of vcenter_id attribute.	vcenter_instance
vcenter_id <i>optional</i>	The unique identifier of the vCenter object that hosts the VM. Was added in version 2.0.0.0.	string
vcenter_instance_uuid <i>optional</i>	UUID instance of the vCenter that hosts the VM. Was deprecated in version 2.0.0.0.	string
virtual_volumes <i>optional</i>	List of the virtual_volumes that are associated with this virtual_machine.	< virtual_volume_instance > array
vsphere_host <i>optional</i>	List of the vsphere_host that are associated with this virtual_machine.	< vsphere_host_instance > array

Name	Description	Schema
vsphere_object_id <i>optional</i>	Unique identifier of the VM in vCenter. This value is required for events to merge information about vSphere objects. The value is stored in vCenter and is regenerated on other vCenter instances. Was added in version 3.0.0.0.	string

virtual_machine_modify

Name	Description	Schema
protection_policy_id <i>optional</i>	Can only be used to unassign policies managed by user. Use null values to unassign policy from VM. Policies managed by vSphere can't be unassigned with this method. name:{name} can be used instead of {id}. For example: 'protection_policy_id':'name:policy_name'	string

virtual_machine_snapshot

Name	Description	Schema
description <i>optional</i>	Description of the snapshot. This value must contain 2000 or fewer printable Unicode characters. Maximal length : 2000	string
name <i>optional</i>	Name of the snapshot. This value must contain 80 or fewer printable Unicode characters. Maximal length : 80	string

virtual_machine_snapshot_response

The response to a virtual_machine snapshot request.

Name	Description	Schema
id <i>optional</i>	Unique id of the new snapshot.	string

virtual_volume_delete

Parameters for virtual volume delete.

Name	Description	Schema
force <i>optional</i>	Normally, attempting to delete a bound virtual volume is not permitted. This option overrides that error and allows the delete to continue. Also allows deletion of virtual volume attached to a virtual machine. Normally, a virtual volume attached to a virtual machine cannot be deleted.	boolean

virtual_volume_detach

Parameters for virtual volume detach. Specify either host id or host group id. Was added in version 4.1.0.0.

Name	Description	Schema
host_group_id <i>optional</i>	Unique identifier of the host group to be detached from the virtual volume. name:{name} can be used instead of {id}. For example: 'host_group_id':'name:host_group_name'	string
host_id <i>optional</i>	Unique identifier of the host to be detached from the virtual volume. name:{name} can be used instead of {id}. For example: 'host_id':'name:host_name'	string

virtual_volume_instance

A virtual volume. This resource type has queriable associations from appliance, storage_container, replication_group, migration_session, virtual_volume, policy, host_virtual_volume_mapping, virtual_machine

Name	Description	Schema
appliance <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	appliance_instance
appliance_id <i>optional</i>	The appliance where the virtual volume resides.	string
child_virtual_volumes <i>optional</i>	This is the inverse of the resource type virtual_volume association.	< virtual_volume_instance > array
creation_time_stamp <i>optional</i>	Timestamp of the moment virtual volume was created at.	string (date-time)

Name	Description	Schema
creator_type <i>optional</i>		StorageCreatorType Enum
creator_type_10n <i>optional</i>	Localized message string corresponding to creator_type	string
family_id <i>optional</i>	Family id of the virtual volume. This is the id of the primary object at the root of the family tree. For a primary virtual volume this will be the same as the id of the object. For snap-sets and clone vVols it will be set to the source objects family ID.	string
host_virtual_volume_mappings <i>optional</i>	This is the inverse of the resource type host_virtual_volume_mapping association.	< host_virtual_volume_mapping_instance > array
id <i>optional</i>	The unique identifier of the virtual volume.	string
io_priority <i>optional</i>		IoPriorityEnum
io_priority_110n <i>optional</i>	Localized message string corresponding to io_priority	string
is_readonly <i>optional</i>	Indicates whether the virtual volume is read-only.	boolean
is_replication_destination <i>optional</i>	Indicates whether virtual volume is replication destination or not. Was added in version 3.0.0.0.	boolean
location_history <i>optional</i>	Filtering on the fields of this embedded resource is not supported.	< location_history_instance > array
migration_session <i>optional</i>	This is the embeddable reference form of migration_session_id attribute.	migration_session_instance

Name	Description	Schema
migration_session_id <i>optional</i>	If the virtual volume is part of a migration activity, the session ID for that migration.	string
naa_name <i>optional</i>	The NAA name used by hosts for I/O. This is the VASA equivalent of a LUN's WWN. Was added in version 3.0.0.0.	string
name <i>optional</i>	The name of the virtual volume, based on metadata provided by vSphere. This property supports case-insensitive filtering.	string
nguid <i>optional</i>	NVMe Namespace globally unique identifier. Was added in version 3.0.0.0.	string
nsid <i>optional</i>	NVMe Namespace unique identifier in the NVMe subsystem. Was added in version 3.0.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
parent <i>optional</i>	This is the embeddable reference form of parent_id attribute.	virtual_volume_instance
parent_id <i>optional</i>	For snapshots and clones, the ID of the parent virtual volume. The parent_id is set when an virtual volume is created and will only change if its parent virtual volume is deleted.	string
profile_id <i>optional</i>	The ID of the storage profile governing this virtual volume.	string
protection_policy <i>optional</i>	This is the embeddable reference form of protection_policy_id attribute.	policy_instance
protection_policy_id <i>optional</i>	The unique identifier of the protection policy applied to this virtual volume. Was added in version 3.0.0.0.	string
replication_group <i>optional</i>	This is the embeddable reference form of replication_group_id attribute.	replication_group_instance

Name	Description	Schema
replication_group_id <i>optional</i>	The unique identifier of the replication group object that this virtual volume belongs to. Was added in version 3.0.0.0.	string
size <i>optional</i>	A virtual volume. This resource type has queriable associations from appliance, storage_container, replication_group, migration_session, virtual_volume, policy, host_virtual_volume_mapping, virtual_machine Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
source <i>optional</i>	This is the embeddable reference form of source_id attribute.	virtual_volume_instance
source_id <i>optional</i>	Id of the virtual volume from which the content has been sourced. Data is sourced from another virtual volume when a snapshot or clone is created, or when a refresh or restore occurs. Only applies to snap and clones.	string
source_timestamp <i>optional</i>	The source data time-stamp of the virtual volume.	string (date-time)
storage_container <i>optional</i>	This is the embeddable reference form of storage_container_id attribute.	storage_container_instance
storage_container_id <i>optional</i>	The storage container where the virtual volume resides.	string
target_virtual_volumes <i>optional</i>	This is the inverse of the resource type virtual_volume association.	< virtual_volume_instance > array
type <i>optional</i>		VirtualVolumeTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type	string

Name	Description	Schema
usage_type <i>optional</i>		VirtualVolumeUsageTypeEnum
usage_type_l10n <i>optional</i>	Localized message string corresponding to usage_type	string
virtual_machine_uuid <i>optional</i>	UUID of the virtual machine that owns this virtual volume.	string
virtual_machines <i>optional</i>	List of the virtual_machines that are associated with this virtual_volume.	< virtual_machine_instance > array

vm_protection_data_instance

Protection data associated with the VM snapshot. Filtering on the fields of this embedded resource is not supported.

Name	Description	Schema
created_by_rule_id <i>optional</i>	Unique identifier of the protection rule that created the VM snapshot.	string
created_by_rule_name <i>optional</i>	Name of the rule that created the VM snapshot. This value is not updated if the name of the rule changes after snapshot creation.	string
creator_type <i>optional</i>		StorageCreatorTypeEnum
creator_type_l10n <i>optional</i>	Localized message string corresponding to creator_type	string
expiration_timestamp <i>optional</i>	Date when the VM snapshot can be automatically purged.	string (date-time)
parent_id <i>optional</i>	VM from which the snapshot was created.	string

Name	Description	Schema
source_id <i>optional</i>	For VM snapshots, this value is the same as parent_id.	string
source_timestamp <i>optional</i>	Time when the snapshot was created.	string (date-time)

volume_attach

Parameters for the volume attach operation.

Name	Description	Schema
host_group_id <i>optional</i>	Unique identifier of the host group to be attached to the volume. Only one of host_id or host_group_id can be supplied. name:{name} can be used instead of {id}. For example: 'host_group_id': 'name:host_group_name'	string
host_id <i>optional</i>	Unique identifier of the host to be attached to the volume. Only one of host_id or host_group_id can be supplied. name:{name} can be used instead of {id}. For example: 'host_id': 'name:host_name'	string
logical_unit_number <i>optional</i>	Logical unit number for the host volume access. Minimum value : 0 Maximum value : 16383	integer (int32)

volume_clone

Parameters for the volume clone operation.

Name	Description	Schema
description <i>optional</i>	Description of the clone. This value must contain 128 or fewer printable Unicode characters. Maximal length : 128	string
host_group_id <i>optional</i>	Unique identifier of the host group to be attached to the clone. Only one of host_id or host_group_id can be supplied. name:{name} can be used instead of {id}. For example: 'host_group_id': 'name:host_group_name'	string

Name	Description	Schema
host_id <i>optional</i>	Unique identifier of the host to be attached to the clone. Only one of host_id or host_group_id can be supplied. name:{name} can be used instead of {id}. For example: 'host_id':'name:host_name'	string
logical_unit_number <i>optional</i>	Optional logical unit number when creating a mapped volume. If no host_id or host_group_id is specified, this property is ignored. Minimum value : 0 Maximum value : 16383	integer (int32)
name <i>optional</i>	Name of the clone. This value must contain 128 or fewer printable Unicode characters. Length : 1 - 128	string
performance_policy_id <i>optional</i>	Unique identifier of the performance policy. name:{name} can be used instead of {id}. For example: 'performance_policy_id':'name:policy_name'	string
protection_policy_id <i>optional</i>	Unique identifier of the protection policy. name:{name} can be used instead of {id}. For example: 'protection_policy_id':'name:policy_name'	string
qos_performance_policy_id <i>optional</i>	Unique identifier of the QoS performance policy. name:{name} can be used instead of {id}. For example: 'qos_performance_policy_id':'name:policy_name' Was added in version 4.0.0.0.	string

volume_clone_response

Unique identifier of the new clone volume.

Name	Description	Schema
id <i>optional</i>	Unique identifier of the new clone volume.	string

volume_configure_metro

Configure metro operation arguments. Was added in version 3.0.0.0.

Name	Description	Schema
remote_appliance_id <i>optional</i>	A specific remote system appliance to which the volume will be assigned, if desired. By default, the system will choose an appropriate appliance based on space, load, and connectivity.	string
remote_system_id <i>required</i>	The remote system with which the metro relationship will be established. The remote system must support metro volumes. name:{name} can be used instead of {id}. For example: 'remote_system_id':'name:remote_system_name'	string

volume_configure_metro_response

Response information from a volume metro configuration operation. Was added in version 3.0.0.0.

Name	Description	Schema
metro_replication_session_id <i>optional</i>	Unique metro replication session identifier of the newly configured volume.	string

volume_create

Parameters for the volume create operation.

Name	Description	Schema
app_type <i>optional</i>	Was added in version 2.1.0.0.	AppTypeEnum
app_type_other <i>optional</i>	An optional field used to describe application type usage for a volume. This field can only be set if app_type is set to Relational_Databases_Other, Big_Data_Analytics_Other, Business_Applications_Other, Healthcare_Other, Virtualization_Other or Other. If the app_type attribute is set to anything other than one of these values, the attribute will be cleared. Was added in version 2.1.0.0. Maximal length : 32	string
appliance_id <i>optional</i>	Identifier of the appliance on which the volume is provisioned. name:{name} can be used instead of {id}. For example: 'appliance_id':'name:appliance_name'	string

Name	Description	Schema
description <i>optional</i>	Description of the volume. This value must contain 128 or fewer printable Unicode characters. Maximal length : 128	string
host_group_id <i>optional</i>	Unique identifier of the host group to be attached to the volume. If not specified, an unmapped volume is created. Only one of host_id or host_group_id can be supplied. name:{name} can be used instead of {id}. For example: 'host_group_id':'name:host_group_name'	string
host_id <i>optional</i>	Unique identifier of the host to be attached to the volume. If not specified, an unmapped volume is created. Only one of host_id or host_group_id can be supplied. name:{name} can be used instead of {id}. For example: 'host_id':'name:host_name'	string
logical_unit_number <i>optional</i>	Optional logical unit number when creating a attached volume. If no host_id or host_group_id is specified, this property is ignored. Minimum value : 0 Maximum value : 16383	integer (int32)
min_size <i>optional</i>	Parameters for the volume create operation. Unit : bytes Minimum value : 1048576 Maximum value : 281474976710656	integer (int64)
name <i>required</i>	Unique name for the volume to be created. This value must contain 128 or fewer printable Unicode characters. Maximal length : 128	string
performance_policy_id <i>optional</i>	Unique identifier of the performance policy assigned to the volume. name:{name} can be used instead of {id}. For example: 'performance_policy_id':'name:policy_name'	string
protection_policy_id <i>optional</i>	Unique identifier of the protection policy assigned to the volume. name:{name} can be used instead of {id}. For example: 'protection_policy_id':'name:policy_name'	string

Name	Description	Schema
qos_performance_policy_id <i>optional</i>	Unique identifier of the QoS performance policy assigned to the volume. name:{name} can be used instead of {id}. For example: 'qos_performance_policy_id':'name:policy_name' Was added in version 4.0.0.0.	string
sector_size <i>optional</i>	Optional sector size, in bytes. Only 512-byte and 4096-byte sectors are supported. Minimum value : 512 Maximum value : 4096	integer (int32)
size <i>required</i>	Parameters for the volume create operation. Unit : bytes Minimum value : 1048576 Maximum value : 281474976710656	integer (int64)
volume_group_id <i>optional</i>	Volume group to add the volume to. If not specified, the volume is not added to a volume group. name:{name} can be used instead of {id}. For example: 'volume_group_id':'name:volume_group_name'	string

volume_delete

Delete arguments. Was added in version 3.5.0.0.

Name	Description	Schema
immediate <i>optional</i>	Delete the volume immediately and permanently, instead of moving the volume to the Recycle Bin. This is only valid for a volume and clone. A snapshot is immediately and permanently deleted if individually deleted. Default : true	boolean

volume_detach

Name	Description	Schema
clear_host_agent_data <i>optional</i>	Indicates if any saved host agent metadata should be cleared if this is the final detach of a volume being imported from another storage array, i.e. no other hosts or host groups are attached to the volume. Was added in version 3.0.0.0. Default : false	boolean
host_group_id <i>optional</i>	Unique identifier of the host group to be detached from this volume. Only one of host_id or host_group_id can be supplied. name:{name} can be used instead of {id}. For example: 'host_group_id': 'name:host_group_name'	string
host_id <i>optional</i>	Unique identifier of the host to be detached from this volume. Only one of host_id or host_group_id can be supplied. name:{name} can be used instead of {id}. For example: 'host_id': 'name:host_name'	string

volume_end_metro

End metro configuration operation arguments. Was added in version 3.0.0.0.

Name	Description	Schema
delete_remote_volume <i>optional</i>	Whether or not to delete the remote volume during the removal. Default : false	boolean
force <i>optional</i>	If the force option is specified, any errors returned while attempting to tear down the remote side of the metro session will be ignored and the remote side may be left in an indeterminate state. If any errors occur on the local side the operation can still fail. It is not recommended to use this option unless the remote side is known to be down. Default : false	boolean

volume_group_add_members

Request to add members to a volume group.

Name	Description	Schema
volume_ids <i>required</i>	A list of primary or clone volumes to be added to the volume group. Snapshots cannot be added to a volume group. All the volumes should be on the same appliance as the current members of the volume group. This list cannot be empty.	< string > array

volume_group_clone

Clone volume group request.

Name	Description	Schema
description <i>optional</i>	Description for the clone volume group. If description is not specified, the description for the snapshot set will not be set.	string
is_replication_destination <i>optional</i>	A boolean flag to indicate whether the clone volume group is a destination of a replication session. This parameter defaults to false, if not specified. Was deprecated in version 3.5.0.0. Default : false	boolean
name <i>required</i>	Unique name for the clone volume group. Length : 1 - 128	string
protection_policy_id <i>optional</i>	Unique identifier of the protection policy you want to assign to the clone volume group. name:{name} can be used instead of {id}. For example: 'protection_policy_id':'name:policy_name'	string
qos_performance_policy_id <i>optional</i>	Unique identifier of the QoS performance policy to assign to a volume group. If an empty string or null is specified, the QoS performance policy will be removed from the volume group. name:{name} can be used instead of {id}. For example: 'qos_performance_policy_id':'name:policy_name' Was added in version 4.0.0.0.	string

volume_group_clone_response

Response for volume group clone action

Name	Description	Schema
id <i>optional</i>	Unique identifier of the new instance created.	string

volume_group_configure_metro

Configure metro operation arguments. Was added in version 4.0.0.0.

Name	Description	Schema
remote_appliance_id <i>optional</i>	A specific remote system appliance to which the volume group will be assigned, if desired. By default, the system will choose an appropriate appliance based on space, load, and connectivity.	string
remote_system_id <i>required</i>	The remote system with which the metro relationship will be established. The remote system must support metro volumes. name:{name} can be used instead of {id}. For example: 'remote_system_id':'name:remote_system_name'	string

volume_group_configure_metro_response

Response information from a volume group metro configuration operation. Was added in version 4.0.0.0.

Name	Description	Schema
metro_replication_session_id <i>optional</i>	Unique metro replication session identifier of the newly configured metro volume group.	string

volume_group_create

Create volume group request.

Name	Description	Schema
description <i>optional</i>	Description for the volume group. The description should not be more than 256 characters long and should not have any unprintable characters. If description is not specified, the description for the volume group will not be set. Maximal length : 256	string
is_write_order_consistent <i>optional</i>	A boolean flag to indicate whether snapshot sets of the volume group will be write-order consistent. This parameter defaults to true, if not specified. Default : true	boolean
name <i>required</i>	Unique name for the volume group. The name should contain no special HTTP characters and no unprintable characters. Although the case of the name provided is reserved, uniqueness check is case-insensitive, so the same name in two different cases is not considered unique. Length : 1 - 128	string
protection_policy_id <i>optional</i>	Unique identifier of an optional protection policy to assign to the volume group. name:{name} can be used instead of {id}. For example: 'protection_policy_id':'name:policy_name'	string
qos_performance_policy_id <i>optional</i>	Unique identifier of an optional QoS performance policy to assign to the volume group. name:{name} can be used instead of {id}. For example: 'qos_performance_policy_id':'name:policy_name' Was added in version 4.0.0.0.	string
volume_ids <i>optional</i>	A list of identifiers of existing volumes that should be added to the volume group. All the volumes must be on the same Cyclone appliance and should not be part of another volume group. If a list of volumes is not specified or if the specified list is empty, an empty volume group of type Volume will be created.	< string > array

volume_group_delete

Delete volume group request.

Name	Description	Schema
delete_members <i>optional</i>	By default, the members of a volume group being deleted are only removed. Set this optional parameter to true to override this behavior and also delete the members after they are removed from the volume group. This parameter defaults to false, if not specified. Default : false	boolean
immediate <i>optional</i>	Delete the volume group immediately and permanently, instead of moving the volume group to the Recycle Bin. If the volume group is empty or the delete_members parameter is false, this flag is ignored and the VG will be deleted immediately and permanently; A VG can only be added to the Recycle Bin if it has members and delete_members is true. Was added in version 3.5.0.0. Default : true	boolean

volume_group_end_metro

End metro configuration operation arguments. Was added in version 4.0.0.0.

Name	Description	Schema
delete_remote_volume_group <i>optional</i>	Whether or not to delete the remote volume group during the removal. Default : false	boolean
force <i>optional</i>	If the force option is specified, any errors returned while attempting to tear down the remote side of the metro session will be ignored and the remote side may be left in an indeterminate state. If any errors occur on the local side the operation can still fail. It is not recommended to use this option unless the remote side is known to be down. Default : false	boolean

volume_group_instance

Information about a volume group. This resource type has queriable associations from policy, migration_session, remote_snapshot_session, remote_snapshot, volume, replication_session

Name	Description	Schema
creation_time_stamp <i>optional</i>	The time at which the volume group was created.	string (date-time)
current_remote_snapshot_sessions <i>optional</i>	This is the inverse of the resource type remote_snapshot_session association.	< remote_snapshot_session_instance > array
description <i>optional</i>	Description for the volume group.	string
id <i>optional</i>	Unique identifier of the volume group.	string
is_host_access_available <i>optional</i>	This field is true when the volume group is visible from a host perspective. This will always be true UNLESS a metro session is associated with the volume group and that session has made this instance unavailable. Was added in version 4.0.0.0.	boolean
is_importing <i>optional</i>	Indicates whether the volume group is being imported.	boolean
is_protectable <i>optional</i>	This is a derived field that is set internally. It enables/disables the following functionality: • Whether a protection_policy can be applied to the group. • Whether manual snapshots can be taken. • Whether clones of the group can be created.	boolean

Name	Description	Schema
is_replication_destination <i>optional</i>	Indicates whether this volume group is a replication destination. A replication destination will be created by the system when a replication session is created. When there is an active replication session, all the user operations are restricted including modification, deletion, host operation, snapshot, clone, etc. After the replication session is deleted, the replication destination will remain as it is until the end user changes it to be a non-replication destination. After the change, it becomes a primary volume group. If the end user keeps it as a replication destination, when the replication session is recreated, the replication destination could potentially be reused in the new session to avoid a time-consuming full sync. This property is only valid for primary and clone volume groups. Default : false	boolean
is_write_order_consistent <i>optional</i>	For a primary or a clone volume group, this property determines whether snapshot sets of the group will be write order consistent. For a snapshot set, this property indicates whether the snapshot set is write-order consistent.	boolean
location_history <i>optional</i>	A list of locations. The list of locations includes the move to the current appliance. Filtering on the fields of this embedded resource is not supported.	< location_history_instance > array
metro_replication_session_id <i>optional</i>	Unique identifier of the replication session assigned to the volume group if it has been configured as a metro volume group between two PowerStore clusters. The volume group can only be modified, refreshed, or restored when the metro_replication_session is in the paused state. Was added in version 4.0.0.0.	string
migration_session <i>optional</i>	This is the embeddable reference form of migration_session_id attribute.	migration_session_instance
migration_session_id <i>optional</i>	Unique identifier of the migration session assigned to the volume group when it is part of a migration activity.	string

Name	Description	Schema
name <i>optional</i>	Name of the volume group. This property supports case-insensitive filtering.	string
placement_rule <i>optional</i>		VGPlacementRule
protection_data <i>optional</i>		protection_data_instance
protection_policy <i>optional</i>	This is the embeddable reference form of protection_policy_id attribute.	policy_instance
protection_policy_id <i>optional</i>	Unique identifier of the protection policy assigned to the volume group. This attribute is only applicable to primary and clone volume groups.	string
qos_performance_policy <i>optional</i>	This is the embeddable reference form of qos_performance_policy_id attribute.	policy_instance
qos_performance_policy_id <i>optional</i>	Unique identifier of the optional performance policy assigned to this volume group. Was added in version 4.0.0.0.	string
remote_snapshots <i>optional</i>	This is the inverse of the resource type remote_snapshot_session association.	< remote_snapshot_session_instance > array
remote_snapshots <i>optional</i>	This is the inverse of the resource type remote_snapshot association.	< remote_snapshot_instance > array
replication_sessions <i>optional</i>	List of the replication_sessions that are associated with this volume_group.	< replication_session_instance > array
type <i>optional</i>		VolumeTypeEnum

Name	Description	Schema
type_l10n <i>optional</i>	Localized message string corresponding to type	string
volumes <i>optional</i>	List of the volumes that are associated with this volume_group.	< volume_instance > array

volume_group_modify

Modify volume group request.

Name	Description	Schema
description <i>optional</i>	New description for the volume group. The description should not have any unprintable characters. If an empty string is specified, the description will be cleared. Maximal length : 256	string
expiration_timestamp <i>optional</i>	Time after which the snapshot set can be auto-purged. This parameter is only valid for a snapshot set. Time must be specified in Zulu time zone. Expiration time cannot be prior to current time. Use a maximum timestamp value to set an expiration to never expire. If an empty string or null is specified, expiration_timestamp will be cleared for the snapshot set. Valid format is yyyy-MM-dd'T'HH:mm:ssZ or yyyy-MM-dd'T'HH:mm:ss.SSSZ. Was added in version 2.0.0.0.	string (date-time)

Name	Description	Schema
force <i>optional</i>	Normally a replication destination volume group cannot be modified since it is controlled by replication. However, there can be cases where replication has failed or is no longer active and the replication destination volume group needs to be cleaned up. With the force option, the user will be allowed to remove the protection policy from the replication destination volume group provided that the replication session has never been synchronized. This parameter defaults to false, if not specified. Default : false	boolean
is_replication_destination <i>optional</i>	New value for is_replication_destination property. is_replication_destination property of all the volumes in the volume group will be modified to the specified value. Modification of is_replication will not be transactional in nature. If the command only succeeds in modifying the is_replication_destination property of a subset of volumes, is_replication_destination property for the volume group will be set to true. Modification of this property is idempotent. This parameter is only valid when modifying a primary or a clone volume group, only when the volume group is no longer the destination of a replication session, and may only be set to false.	boolean
is_secure <i>optional</i>	This parameter only applies to snapshots. If true, mark the snapshot as a secure snapshot. An expiration timestamp must also exist or be specified. A secure snapshot can not be unlocked by setting this flag to false. Was added in version 3.5.0.0.	boolean
is_write_order_consistent <i>optional</i>	A boolean flag to indicate whether snapshot sets of the volume group will be write-order consistent. This parameter is only valid when modifying a primary or a clone volume group.	boolean

Name	Description	Schema
name <i>optional</i>	New name for the volume group. The name should contain no special HTTP characters and no unprintable characters. Although the case of the name provided is reserved, uniqueness check is case-insensitive, so the same name in two different cases is not considered unique. Length : 1 - 128	string
protection_policy_id <i>optional</i>	Unique identifier of the protection policy to assign to a primary or clone volume group. If an empty string or null is specified, protection policy will be removed from the volume group. name:{name} can be used instead of {id}. For example: 'protection_policy_id':'name:policy_name'	string
qos_performance_policy_id <i>optional</i>	Unique identifier of the QoS performance policy to assign to a volume group. If an empty string or null is specified, the QoS performance policy will be removed from the volume group. name:{name} can be used instead of {id}. For example: 'qos_performance_policy_id':'name:policy_name' Was added in version 4.0.0.0.	string

volume_group_refresh

Refresh volume group request.

Name	Description	Schema
backup_snapshot_profile <i>optional</i>		volume_group_snapshot
create_backup_snapshot <i>optional</i>	This parameter specifies whether a backup snapshot set of the target volume group needs to be created before refreshing it. This parameter defaults to true, if not specified. Default : true	boolean
from_object_id <i>required</i>	Unique identifier of the volume group to refresh from. This is referred to as the source volume group. name:{name} can be used instead of {id}. For example: 'from_object_id':'name:volume_group_name'	string

volume_group_refresh_response

Volume group refresh response.

Name	Description	Schema
backup_snaps_hot_id <i>optional</i>	Unique identifier of the backup snapshot set. This parameter will not be available if the create_backup_snap flag was set to false.	string

volume_group_remove_members

Request to remove members from a volume group.

Name	Description	Schema
volume_ids <i>required</i>	A list of volumes that need to be removed from the volume group. This list cannot be empty.	< string > array

volume_group_restore

Restore volume group request.

Name	Description	Schema
backup_snap_profile <i>optional</i>		volume_group_snapshot
create_backup_snap <i>optional</i>	This parameter specifies whether a backup snapshot set of the target volume group needs to be created before attempting restore. This parameter defaults to true, if not specified. Default : true	boolean
from_snap_id <i>required</i>	Unique identifier of the snapshot set to restore from. This is referred to as the source volume group. name:{name} can be used instead of {id}. For example: 'from_snap_id':'name:volume_group_name'	string

volume_group_restore_response

Volume group restore response.

Name	Description	Schema
backup_snaps_hot_id <i>optional</i>	Unique identifier of the backup snapshot set. This parameter will not be available if the create_backup_snap was set to false.	string

volume_group_snapshot

Snapshot volume group request.

Name	Description	Schema
description <i>optional</i>	Optional description for the snapshot set. If description is not specified, the description for the snapshot set will not be set.	string
expiration_timestamp <i>optional</i>	Time after which the snapshot set can be auto-purged. Time must be specified in Zulu time zone. Expiration time cannot be prior to current time. Use a maximum timestamp value to set an expiration to never expire. Valid format is yyyy-MM-dd'T'HH:mm:ssZ or yyyy-MM-dd'T'HH:mm:ss.SSSZ. By default, expiration time will not be set. Was added in version 2.0.0.0.	string (date-time)
is_secure <i>optional</i>	Create a secure snapshot. This parameter requires a valid expiration_timestamp to be set in the request. Was added in version 3.5.0.0. Default : false	boolean
name <i>required</i>	Unique name of the snapshot set to be created. Length : 1 - 128	string

volume_group_snapshot_response

Unique identifier of the new snapshot volume.

Name	Schema
id <i>optional</i>	string

volume_instance

Details about a volume, including snapshots and clones of volumes. This resource type has queriable associations from appliance, policy, migration_session, host_volume_mapping, remote_snapshot_session, remote_snapshot, volume_group, datastore, replication_session

Name	Description	Schema
app_type <i>optional</i>	Was added in version 2.1.0.0.	AppTypeEnum
app_type_l10n <i>optional</i>	Localized message string corresponding to app_type Was added in version 2.1.0.0.	string
app_type_other <i>optional</i>	An optional field used to describe application type usage for a volume. This field can only be set if app_type is set to Relational_Databases_Other, Big_Data_Analytics_Other, Business_Applications_Other, Healthcare_Other, Virtualization_Other or Other. If the app_type attribute is set to anything other than one of these values, the attribute will be cleared. Was added in version 2.1.0.0. Maximal length : 32	string
appliance <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	appliance_instance
appliance_id <i>optional</i>	Unique identifier of the appliance on which the volume is provisioned.	string
creation_time_stamp <i>optional</i>	Time when the volume was created.	string (date-time)
current_remote_snapshot_sessions <i>optional</i>	This is the inverse of the resource type remote_snapshot_session association.	< remote_snapshot_session_instance > array

Name	Description	Schema
datastores <i>optional</i>	List of the datastores that are associated with this volume.	< datastore_instance > array
description <i>optional</i>	Description of the volume. This value must contain 128 or fewer printable Unicode characters. Maximal length : 128	string
id <i>optional</i>	Unique identifier of the volume instance.	string
is_host_access_available <i>optional</i>	Indicates whether the volume is available to host. This attribute is only applicable to primary volumes and clones. Was added in version 3.0.0.0.	boolean
is_replication_destination <i>optional</i>	Indicates whether this volume is a replication destination. This field is false on both ends when a volume is a metro volume. A replication destination will be created by the system when a replication session is created. When there is an active replication session, all the user operations are restricted including modification, deletion, host operation, snapshot, clone, etc. After the replication session is deleted, the replication destination volume will remain as it is until the end user changes it to be a non-replication destination. After the change, it becomes a primary volume. If the end user keeps it as a replication destination, when the replication session is recreated, the replication destination volume could potentially be reused in the new session to avoid a time-consuming full sync. This property is only valid for primary and clone volumes. Default : false	boolean
location_history <i>optional</i>	Filtering on the fields of this embedded resource is not supported.	< location_history_instance > array

Name	Description	Schema
logical_used <i>optional</i>	Details about a volume, including snapshots and clones of volumes. This resource type has queriable associations from appliance, policy, migration_session, host_volume_mapping, remote_snapshot_session, remote_snapshot, volume_group, datastore, replication_session Unit : bytes Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
mapped_volumes <i>optional</i>	This is the inverse of the resource type host_volume_mapping association.	< host_volume_mapping_instance > array
metro_replication_session_id <i>optional</i>	Unique identifier of the replication session assigned to the volume if it has been configured as a metro volume between two PowerStore clusters. The volume can only be modified, refreshed, or restored when the metro_replication_session is in the paused state. Was added in version 3.0.0.0.	string
migration_session <i>optional</i>	This is the embeddable reference form of migration_session_id attribute.	migration_session_instance
migration_session_id <i>optional</i>	Unique identifier of the migration session assigned to the volume if it is part of a migration activity.	string
name <i>optional</i>	Name of the volume. This value must contain 128 or fewer printable Unicode characters. This property supports case-insensitive filtering. Maximal length : 128	string
nguid <i>optional</i>	NVMe Namespace globally unique identifier. Used for volumes attached to NVMeoF hosts. Was added in version 2.0.0.0.	string
node_affinity <i>optional</i>	Node affinity. Node which offers optimized IO for volume, values are:	NodeAffinityEnum

Name	Description	Schema
node_affinity_110n <i>optional</i>	Localized message string corresponding to node_affinity	string
nsid <i>optional</i>	NVMe Namespace unique identifier in the NVME subsystem. Used for volumes attached to NVMeoF hosts. Was added in version 2.0.0.0. Minimum value : 0 Maximum value : 2147483647	integer (int32)
performance_policy_id <i>optional</i>	Unique identifier of the performance policy assigned to the volume.	string
protection_data <i>optional</i>		protection_data_instance
protection_policy <i>optional</i>	This is the embeddable reference form of protection_policy_id attribute.	policy_instance
protection_policy_id <i>optional</i>	Unique identifier of the protection policy assigned to the volume. Only applicable to primary and clone volumes.	string
qos_performance_policy <i>optional</i>	This is the embeddable reference form of qos_performance_policy_id attribute.	policy_instance
qos_performance_policy_id <i>optional</i>	Unique identifier of the QoS performance policy assigned to the volume. Was added in version 4.0.0.0.	string
remote_snapshots_sessions <i>optional</i>	This is the inverse of the resource type remote_snapshot_session association.	< remote_snapshot_session_instance > array
remote_snapshots <i>optional</i>	This is the inverse of the resource type remote_snapshot association.	< remote_snapshot_instance > array

Name	Description	Schema
replication_sessions <i>optional</i>	List of the replication_sessions that are associated with this volume.	< replication_session_instance > array
size <i>optional</i>	Details about a volume, including snapshots and clones of volumes. This resource type has queriable associations from appliance, policy, migration_session, host_volume_mapping, remote_snapshot_session, remote_snapshot, volume_group, datastore, replication_session Unit : bytes Minimum value : 1048576 Maximum value : 281474976710656	integer (int64)
state <i>optional</i>		VolumeStateEnum
state_l10n <i>optional</i>	Localized message string corresponding to state	string
type <i>optional</i>		VolumeTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type	string
volume_groups <i>optional</i>	List of the volume_groups that are associated with this volume.	< volume_group_instance > array
wwn <i>optional</i>	World wide name of the volume.	string

volume_modify

Parameters for the volume modify operation.

Name	Description	Schema
app_type <i>optional</i>	Was added in version 2.1.0.0.	AppTypeEnum

Name	Description	Schema
app_type_other <i>optional</i>	An optional field used to describe application type usage for a volume. This field can only be set if app_type is set to Relational_Databases_Other, Big_Data_Analytics_Other, Business_Applications_Other, Healthcare_Other, Virtualization_Other or Other. If the app_type attribute is set to anything other than one of these values, the attribute will be cleared. Was added in version 2.1.0.0. Maximal length : 32	string
description <i>optional</i>	New description of the volume. This value must contain 128 or fewer printable Unicode characters. Maximal length : 128	string
expiration_timestamp <i>optional</i>	New expiration time of the snapshot. Expired snapshots are deleted by the snapshot aging service that runs periodically in the background. If not specified, the snapshot never expires. Use a maximum timestamp value or null to set an expiration to never expire.	string (date-time)
force <i>optional</i>	Normally a replication destination volume cannot be modified since it is controlled by replication. However, there can be cases where replication has failed or is no longer active and the replication destination volume needs to be cleaned up. With the force option, the user will be allowed to remove the protection policy from the replication destination volume provided that the replication session has never been synchronized and the last_sync_timestamp property is empty. This parameter defaults to false, if not specified. Default : false	boolean
is_replication_destination <i>optional</i>	New value for is_replication_destination property. The modification is only supported for primary and clone volume, only when the current value is true and there is no longer a replication session using this volume as a destination, and only to false.	boolean

Name	Description	Schema
is_secure <i>optional</i>	This parameter only applies to block snapshots. If true, mark the snapshot as a secured snapshot. An expiration timestamp must also be set or be specified. A secure snapshot can not be unlocked by setting this flag to false. Was added in version 3.5.0.0.	boolean
name <i>optional</i>	New name of the volume. This value must contain 128 or fewer printable Unicode characters. Length : 1 - 128	string
node_affinity <i>optional</i>	Set which node will optimized for IO.	NodeAffinityEnum
performance_policy_id <i>optional</i>	Unique identifier of the performance policy assigned to the volume. name:{name} can be used instead of {id}. For example: 'performance_policy_id':'name:policy_name'	string
protection_policy_id <i>optional</i>	Unique identifier of the protection policy assigned to the volume. name:{name} can be used instead of {id}. For example: 'protection_policy_id':'name:policy_name'	string
qos_performance_policy_id <i>optional</i>	Unique identifier of the QoS performance policy assigned to the volume. If an empty string or null is specified, the QoS performance policy will be removed from this volume. name:{name} can be used instead of {id}. For example: 'qos_performance_policy_id':'name:policy_name' Was added in version 4.0.0.0.	string
size <i>optional</i>	Parameters for the volume modify operation. Unit : bytes Minimum value : 1048576 Maximum value : 281474976710656	integer (int64)

volume_refresh

Parameters for the volume refresh operation.

Name	Description	Schema
backup_snapshot_profile <i>optional</i>	Profile to be used to create the backup snapshot.	volume_snapshot

Name	Description	Schema
create_backup_snap <i>optional</i>	Indicates whether a backup snapshot of the target volume will be created before it is refreshed from the source volume. Default : true	boolean
from_object_id <i>required</i>	Unique identifier of the source volume that will be used for the refresh operation. name:{name} can be used instead of {id}. For example: 'from_object_id':'name:volume_name'	string

volume_refresh_response

Volume refresh response definition.

Name	Description	Schema
backup_snaps_hot_id <i>optional</i>	Unique identifier of the backup snapshot of the target volume, if one is created prior to the refresh operation.	string

volume_restore

Parameters for the volume restore operation.

Name	Description	Schema
backup_snap_profile <i>optional</i>	Profile to be used to create the backup snapshot.	volume_snapshot
create_backup_snap <i>optional</i>	Indicates whether a backup snapshot of the target volume will be created before it is restored from the snapshot. Default : true	boolean
from_snap_id <i>required</i>	Unique identifier of the source snapshot that will be used for the restore operation. name:{name} can be used instead of {id}. For example: 'from_snap_id':'name:volume_name'	string

volume_restore_response

Volume restore response definition.

Name	Description	Schema
backup_snaps_hot_id <i>optional</i>	Unique identifier of the backup snapshot of the target volume, if one is created prior to the restore operation.	string

volume_snapshot

Parameters for the volume snapshot operation.

Name	Description	Schema
creator_type <i>optional</i>		StorageCreatorType Enum
description <i>optional</i>	Description of the snapshot. This value must contain 128 or fewer printable Unicode characters. Maximal length : 128	string
expiration_timestamp <i>optional</i>	Time at which the snapshot will expire. Expired snapshots are deleted by the snapshot aging service that runs periodically in the background. If not specified, the snapshot never expires. Use a maximum timestamp value to set an expiration to never expire.	string (date-time)
is_secure <i>optional</i>	Create a secure snapshot. This parameter requires a valid expiration_timestamp to be set in the request. Secure snapshots can only be taken on block volumes. Was added in version 3.5.0.0. Default : false	boolean
name <i>optional</i>	Name of the snapshot to be created. This value must contain 128 or fewer printable Unicode characters. The default name of the volume snapshot is the date and time when the snapshot is taken. Length : 1 - 128	string
performance_policy_id <i>optional</i>	Unique identifier of the performance policy assigned to the snapshot. name:{name} can be used instead of {id}. For example: 'performance_policy_id': 'name:policy_name'	string

volume_snapshot_response

Volume snapshot response definition.

Name	Description	Schema
id <i>optional</i>	Unique identifier of the new snapshot.	string

vsphere_appson_metrics_by_appliance

User virtual machines CPU/Memory utilization metrics for appliance. Was added in version 3.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
appliance_id <i>optional</i>	Unique identifier representing a specific appliance.	string
avg_cpu_usage <i>optional</i>	Average CPU usage in MHz.	number (float)
avg_cpu_usage_pct <i>optional</i>	Average CPU usage as % of amount available on ESX hosts of appliance.	number (float)
avg_mem_consumed <i>optional</i>	Average memory consumption in KB.	number (float)
avg_mem_consumed_pct <i>optional</i>	Average memory consumption as % of amount available on ESX hosts of appliance.	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_id <i>optional</i>	Localized message string corresponding to entity	string
repeat_count <i>optional</i>	The number of times the current metric is repeated. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

vsphere_appson_metrics_by_node

User virtual machines CPU/Memory utilization metrics for one node. Was added in version 3.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
avg_cpu_usage <i>optional</i>	Average CPU usage in MHz.	number (float)
avg_cpu_usage_pct <i>optional</i>	Average CPU usage as % of amount available on ESX host.	number (float)
avg_mem_consumed <i>optional</i>	Average memory consumption in KB.	number (float)
avg_mem_consumed_pct <i>optional</i>	Average memory consumption as % of amount available on ESX host.	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
node_id <i>optional</i>	Unique identifier representing a specific node.	string
repeat_count <i>optional</i>	The number of times the current metric is repeated. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)

Name	Description	Schema
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

vsphere_host_instance

Properties of a vsphere_host. Was added in version 3.0.0.0. This resource type has queriable associations from vcenter, vsphere_host_license_assignment, virtual_machine, datastore, host

Name	Description	Schema
build <i>optional</i>	ESXi host build.	string
datastores <i>optional</i>	List of the datastores that are associated with this vsphere_host.	< datastore_instance > array
hosts <i>optional</i>	List of the hosts that are associated with this vsphere_host.	< host_instance > array
id <i>optional</i>	Unique identifier of the vsphere_host instance.	string
license_assignments <i>optional</i>	This is the inverse of the resource type vsphere_host_license_assignment association.	< vsphere_host_license_assignment_instance > array
name <i>optional</i>	User-assigned name of the ESXi host in vCenter. This property supports case-insensitive filtering.	string
vcenter <i>optional</i>	This is the embeddable reference form of vcenter_id attribute.	vcenter_instance
vcenter_id <i>optional</i>	Unique identifier of a vCenter instance.	string
version <i>optional</i>	ESXi host version.	string

Name	Description	Schema
virtual_machines <i>optional</i>	List of the virtual_machines that are associated with this vsphere_host.	< virtual_machine_instance > array
vsphere_object_id <i>optional</i>	Unique identifier of the vsphere_host in vCenter.	string

vsphere_host_license_assignment_instance

Internal ESXi host license assignment information. Was added in version 3.0.0.0. This resource type has queriable association from vsphere_host

Name	Description	Schema
edition_key <i>optional</i>	License type.	string
expiration_date <i>optional</i>	License expiration date.	string (date-time)
id <i>optional</i>	Unique identifier of the vsphere_host_license_assignment instance.	string
license_key <i>optional</i>	Obfuscated key of the license.	string
name <i>optional</i>	License full name. This property supports case-insensitive filtering.	string
vsphere_host <i>optional</i>	This is the embeddable reference form of vsphere_host_id attribute.	vsphere_host_instance
vsphere_host_id <i>optional</i>	Unique identifier of the vsphere_host instance.	string

vsphere_metrics_by_vm

User virtual machine CPU/Memory utilization metrics from vSphere. Was added in version 3.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
avg_cpu_usage <i>optional</i>	Average CPU usage in MHz.	number (float)
avg_mem_consumed <i>optional</i>	Average memory consumption in KB.	number (float)
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
repeat_count <i>optional</i>	The number of times the current metric is repeated. Minimum value : 0 Maximum value : 9223372036854775807	integer (int64)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)
uptime <i>optional</i>	Total time elapsed, in seconds, since last virtual machine start-up.	number (float)
vm_id <i>optional</i>	Unique identifier representing a specific virtual machine.	string

vvol_error_response

Name	Description	Schema
description <i>optional</i>		string
error_code <i>optional</i>	Minimum value : 0 Maximum value : 2147483647	integer (int32)

wear_metrics_by_drive

Wear metrics for the drives collected at twenty second interval. Was added in version 1.0. Was deprecated in version 2.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
drive_id <i>optional</i>	Reference to the associated drive which these metrics were recorded.	string
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
percent_endurance_remaining <i>optional</i>	The percentage of drive wear remaining.	number (float)
repeat_count <i>optional</i>	Number of times the metrics is repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

wear_metrics_by_drive_daily

Wear metrics for the drives collected daily. Was added in version 2.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
drive_id <i>optional</i>	Reference to the associated drive which these metrics were recorded.	string

Name	Description	Schema
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
percent_endurance_remaining <i>optional</i>	The percentage of drive wear remaining.	number (float)
repeat_count <i>optional</i>	Number of times the metrics is repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

wear_metrics_by_drive_daily_instance

Wear metrics for the drives collected daily. Was added in version 2.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
drive_id <i>optional</i>	Reference to the associated drive which these metrics were recorded.	string
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
percent_endurance_remaining <i>optional</i>	The percentage of drive wear remaining.	number (float)

Name	Description	Schema
repeat_count <i>optional</i>	Number of times the metrics is repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

wear_metrics_by_drive_instance

Wear metrics for the drives collected at twenty second interval. Was added in version 1.0. Was deprecated in version 2.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
drive_id <i>optional</i>	Reference to the associated drive which these metrics were recorded.	string
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
percent_endurance_remaining <i>optional</i>	The percentage of drive wear remaining.	number (float)
repeat_count <i>optional</i>	Number of times the metrics is repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string

Name	Description	Schema
timestamp <i>optional</i>	End of sample period.	string (date-time)

wear_metrics_by_drive_rollup

Wear metrics for the drives collected daily. Was added in version 2.0.0.0.

Polymorphism : Inheritance

Discriminator : response_definition

Name	Description	Schema
drive_id <i>optional</i>	Reference to the associated drive which these metrics were recorded.	string
entity <i>required</i>	Localized message string corresponding to entity.	MetricsEntityEnum
entity_l10n <i>optional</i>	Localized message string corresponding to entity	string
percent_endurance_remaining <i>optional</i>	The percentage of drive wear remaining.	number (float)
repeat_count <i>optional</i>	Number of times the metrics is repeated. Minimum value : 0 Maximum value : 2147483647	integer (int32)
response_definition <i>required</i>	Response definition for the entity.	string
timestamp <i>optional</i>	End of sample period.	string (date-time)

witness_connection_instance

Witness connection information for a single node on a single appliance.

Was added in version 3.6.0.0.

Name	Description	Schema
appliance_id <i>optional</i>	The unique identifier for the appliance where the listed node resides. Example : "A1"	string
last_updated_timestamp <i>optional</i>	A timestamp indicating the last time that this node's connection information was updated.	string (date-time)
node_id <i>optional</i>	The unique identifier of the node who's connection is listed. Example : "N1"	string
state <i>optional</i>		WitnessConnectionStateEnum
state_l10n <i>optional</i>	Localized message string corresponding to state Was added in version 3.6.0.0.	string

witness_create

Parameters to create a witness service. Was added in version 3.6.0.0.

Name	Description	Schema
address <i>required</i>	IP address of the witness service. Can be IPv4, IPv6 or FQDN.	string
description <i>optional</i>	Description of the witness service. Maximal length : 256 Pattern : "[@=\\\"\\\\\\{\\}]*\$" `	string
name <i>required</i>	User-provided name for the witness service that is reachable at the provided address. Used as a personal reminder. Length : 1 - 128 Pattern : "[@=\\\"\\\\\\{\\}]+\$" `	string
token <i>required</i>	Initial configuration token, generated on the system where the witness service is deployed.	string

witness_instance

Properties of a witness service. Was added in version 3.6.0.0.

Name	Description	Schema
address <i>optional</i>	IP address of the witness service. Can be IPv4, IPv6 or FQDN.	string
connections <i>optional</i>	Witness connection information for each node on each appliance. Filtering on the fields of this embedded resource is not supported.	< witness_connection_instance > array
description <i>optional</i>	Description of the witness service.	string
id <i>optional</i>	Unique identifier of the witness service. Example : "a9c64b58-59a5-45cd-80ed-92a4545fd080"	string
name <i>optional</i>	User-provided name for the witness service that is reachable at the provided address. Used as a personal reminder. This property supports case-insensitive filtering. Example : "Off-site Witness"	string
state <i>optional</i>	Overall state. Can be either the aggregate of the states listed within 'connections', or 'Deleting'.	WitnessStateEnum
state_l10n <i>optional</i>	Localized message string corresponding to state Was added in version 3.6.0.0.	string
uuid <i>optional</i>	Witness service UUID generated as part of installation. This unique identifier is exposed by the witness service itself.	string

witness_modify

Modify a witness service. Was added in version 3.6.0.0.

Name	Description	Schema
description <i>optional</i>	Description of the witness service. Maximal length : 256 Pattern : "[@=\\\"\\\\\\{\\}*\\\$" `	string
name <i>optional</i>	User-provided name for the witness service that is reachable at the provided address. Used as a personal reminder. Length : 1 - 128 Pattern : "[@=\\\"\\\\\\{\\}]+\\\$" `	string

x509_certificate_create

Parameters for x509 Certificate create operation. Was added in version 2.0.0.0.

Name	Description	Schema
certificate <i>required</i>	Concatenated PEM encoded (including header, footer and line break) X509 certificate string from end-entity certificate to root certificate. End-entity certificate has to be put at the top and the sequence should be maintained as the certificate chain from end-entity certificate to the root certificate.	string
is_current <i>optional</i>	Indicates whether this is the current X509 certificate to be used by the service or this X509 certificate will be used in the future. When is_current is false for a X509 certificate, this X509 certificate will not be picked up by the service. Potential usage of this attribute is to prepare for the certificate roll-over/rotation.	boolean
passphrase <i>optional</i>	Passphrase used to encrypt private key.	string (password)
private_key <i>optional</i>	PEM encoded (including header, footer and line break) private key following encrypted PKCS8.	string

Name	Description	Schema
scope <i>optional</i>	Scope defines a subset of certificates belonging to one Service. Scope has different meanings from different Services and types. For example, in Replication_HTTP, CA type certificates will use scope to indicate the origin of these certificates. Service, type and scope mapping are listed as below. - Certificate with Service Management_HTTP and Type of Server, Scope value can only be 'External'. - Certificate with Service Replication_HTTP and Type of Client, Scope value can be null(unused and optional). - Certificate with Service Replication_HTTP and Type of CA, Scope value has to be the serial number of remote cluster. - Certificate with Service VASA_HTTP and Type of Server, Scope value can be null(unused and optional). - Certificate with Service VASA_HTTP and Type of CA, Scope value can be null(unused and optional). - Certificate with Service Import_HTTP and Type of CA, Scope value has to be the management address of external storage system. - Certificate with Service LDAP_HTTP and Type of CA, Scope value is LDAP Domain Name. - Certificate with Service KMIP_HTTP and Type of Client, Scope value can be null(unused and optional). - Certificate with Service Syslog_HTTP and Type of Client, Scope value can be null(unused and optional) - Certificate with Service SecurID_HTTP and Type of CA, scope has to be the unique ID of the MFA service. - Certificate with Service Witness_HTTP and Type of Client, Scope value can be null(unused and optional). - Certificate with Service Remote_Backup_HTTP and Type of CA, Scope value has to be the management address of Power Protect/Data Domain system. - Certificate with Service CACPIV_HTTP and Type of CA, Scope is unused. - Certificate with Service SMTP_TLS and Type of CA, Scope is unused.	string
service <i>required</i>		X509CertificateServiceEnum
type <i>required</i>		X509CertificateUsageTypeEnum

x509_certificate_csr

x509 certificate model specifically defined for Generating a Certificate Signing Request. Was added in version 2.0.0.0.

Name	Description	Schema
common_name <i>optional</i>	Part of distinguished name. e.g., www.dell.common. Length : 0 - 64	string
country <i>optional</i>	Part of distinguished name. e.g., US. Length : 2	string
dns_name <i>optional</i>	DNS names in the certificate extensions	< string > array
ip_addresses <i>optional</i>	IP addresses in the certificate extensions	< string > array
key_length <i>required</i>	Private key length. It can only be 2048 or 4096. Minimum value : 2048 Maximum value : 4096	integer (int32)
locality <i>optional</i>	Part of distinguished name. e.g., Hopkinton. Length : 0 - 128	string
organization <i>optional</i>	Part of distinguished name. e.g., Dell. Length : 0 - 64	string
organizational_unit <i>optional</i>	Part of distinguished name. e.g., Security Department. Length : 0 - 64	string
scope <i>optional</i>	Scope defines a subset of certificates belonging to one Service. Scope here defines what Certificate Signing Request (CSR) can be generated. The scope for CSR Generation only includes: - Certificate with Service Management_HTTP and Type of Server, Scope value can only be External - Certificate with Service VASA_HTTP and Type of Server, Scope value can be null(unused and optional) - Certificate with Service KMIP_HTTP and Type of Client, Scope value can be null(unused and optional) - Certificate with Service Syslog_HTTP and Type of Client, Scope value can be null(unused and optional) - Certificate with Service SecurID_HTTP and Type of CA, scope has to be the unique ID of the MFA service.	string
service <i>required</i>		X509CertificateServiceEnum

Name	Description	Schema
state <i>optional</i>	Part of distinguished name. e.g., Massachusetts. Length : 0 - 128	string
type <i>required</i>		X509CertificateUsageTypeEnum

x509_certificate_csr_response

CSR response. Was added in version 2.0.0.0.

Name	Description	Schema
certificate_request <i>optional</i>	PEM encoded certificate signing request.	string
id <i>optional</i>	Unique ID of x509_certificate.	string
is_current <i>optional</i>	Indicates whether this is the current X509 certificate to be used by the service or this X509 certificate will be used in the future. When is_current is false for a X509 Certificate, this X509 Certificate will not be picked up by the service. Potential usage of this attribute is to prepare for the certificate roll-over/rotation.	boolean
is_valid <i>optional</i>	Indicate whether this is a valid X509 Certificate. When X509 certificate is expired or X509 Certificate of server type missing either a private key or a valid certificate entry, it will be false.	boolean
members <i>optional</i>	Member certificates included in this x509_certificate. It will be empty in csr creation response.	< member_certificate_instance > array

Name	Description	Schema
scope <i>optional</i>	Scope defines a subset of certificates belonging to one service. Scope here defines what Certificate Signing Request (CSR) can be generated. The scope for CSR Response only includes: - Certificate with Service Management_HTTP and Type of Server, Scope value can only be External - Certificate with Service VASA_HTTP and Type of Server, Scope value can be null(unused and optional) - Certificate with Service KMIP_HTTP and Type of Client, Scope value can be null(unused and optional) - Certificate with Service Syslog_HTTP and Type of Client, Scope value can be null(unused and optional)	string
service <i>optional</i>		X509CertificateServiceEnum
service_l10n <i>optional</i>	Localized message string corresponding to service Was added in version 2.0.0.0.	string
type <i>optional</i>		X509CertificateUsageTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type Was added in version 2.0.0.0.	string

x509_certificate_exchange

x509 certificate exchange operation request body.

Name	Description	Schema
address <i>required</i>	Peer's ip v4 or v6 address or dns name.	string (ip-address)
password <i>required</i>	Password used in basic authentication to remote PowerStore cluster.	string (password)
port <i>required</i>	Peer's port number. Minimum value : 0 Maximum value : 65535	integer (int32)
service <i>required</i>		X509CertificateServiceEnum

Name	Description	Schema
username <i>required</i>	Username used in basic authentication to remote PowerStore cluster.	string

x509_certificate_instance

Properties of x509 certificate.

Name	Description	Schema
id <i>optional</i>	Unique identifier of X509 Certificate instance.	string
is_current <i>optional</i>	Indicates whether this is the current X509 Certificate to be used by the service or this X509 Certificate will be used in the future. When is_current is false for a X509 Certificate, this X509 Certificate will not be picked up by the service. Potential usage of this attribute is to prepare for the certificate roll-over/rotation.	boolean
is_valid <i>optional</i>	Indicates whether this is a valid X509 certificate. When X509 certificate is expired or X509 Certificate of server type missing either a private key or a valid certificate entry, it will be false.	boolean
members <i>optional</i>	Member certificates included in this x509_certificate. Member certificates should be remained in an ordered sequence. Filtering on the fields of this embedded resource is not supported.	< member_certificate_instance > array

Name	Description	Schema
scope <i>optional</i>	Scope defines a subset of certificates belonging to one Service. Scope has different meanings from different Services and types. For example, in Replication_HTTP, CA type certificates will use scope to indicate the origin of these certificates. Service, type and scope mapping are listed as below. - Certificate with Service Management_HTTP and Type of Server, Scope value can be External. - Certificate with Service Replication_HTTP and Type of Client, Scope value can be null(unused and optional). - Certificate with Service Replication_HTTP and Type of CA, Scope value has to be the serial number of remote cluster. - Certificate with Service VASA_HTTP and Type of Server, Scope value can be null(unused and optional). - Certificate with Service VASA_HTTP and Type of CA, Scope value can be null(unused and optional). - Certificate with Service Import_HTTP and Type of CA, Scope value has to be the management address of external storage system. - Certificate with Service LDAP_HTTP and Type of CA, Scope value is LDAP Domain Name. - Certificate with Service KMIP_HTTP and Type of Client, Scope value can be null(unused and optional). - Certificate with Service Syslog_HTTP and Type of Client, Scope value can be null(unused and optional). - Certificate with Service SecurID_HTTP and Type of CA, scope has to be the unique ID of the MFA service. - Certificate with Service Remote_Backup_HTTP and Type of CA, Scope value has to be the management address of Power Protect/Data Domain system. - Certificate with Service CACPIV_HTTP and Type of CA, Scope is unused. - Certificate with Service SMTP_TLS and Type of CA, Scope is unused. Was added in version 3.0.0.0.	string
service <i>optional</i>		X509CertificateServiceEnum
service_l10n <i>optional</i>	Localized message string corresponding to service	string
type <i>optional</i>		X509CertificateUsageTypeEnum
type_l10n <i>optional</i>	Localized message string corresponding to type	string

x509_certificate_modify

x509 Certificate modify model. Was added in version 2.0.0.0.

Name	Description	Schema
certificate <i>optional</i>	Concatenated PEM encoded x509_certificate string from end-entity certificate to root certificate.	string
is_current <i>required</i>	Indicate whether this is the current key set being used or next key set to be used in the future. When importing third party CA signed certificate for securing the management traffic, this value must be true.	boolean

x509_certificate_reset_certificates

x509 certificate reset operation request body. Was added in version 2.0.0.0.

Name	Description	Schema
scope <i>optional</i>	Scope defines a subset of certificates belonging to one Service. Scope has different meanings from different Services and types. For example, in Replication_HTTP, CA type certificates will use scope to indicate the origin of these certificates. Service, type and scope mapping are listed as here – Certificate with Service Management_HTTP and Type of Server, Scope value can be null(unused and optional); Certificate with Service Replication_HTTP and Type of Client, Scope value can be null(unused and optional); Certificate with Service Replication_HTTP and Type of CA, Scope value has to be the serial number of remote cluster; Certificate with Service VASA_HTTP and Type of Server, Scope value can be null(unused and optional); Certificate with Service VASA_HTTP and Type of CA, Scope value can be null(unused and optional); Certificate with Service Import_HTTP and Type of CA, Scope value has to be the management address of external storage system; Certificate with Service LDAP_HTTP and Type of CA, Scope value is LDAP Domain Name; Certificate with Service KMIP_HTTP and Type of Server, Scope value can be null(unused and optional); Certificate with Service SecurID_HTTP and Type of CA, Scope value can be null(unused and optional); Certificate with Service Remote_Backup_HTTP and Type of CA, Scope value has to be the management address of Power Protect/Data Domain system; Was added in version 3.0.0.0.	string

Name	Description	Schema
service <i>required</i>		X509CertificateServiceEnum