

Dell Hybrid Client

Version 1.x Administrator's Guide



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.

Chapter 1: Introduction.....	6
Supported platforms.....	6
Supported management software.....	6
Salient features of Dell Hybrid Client.....	7
What's new in Dell Hybrid Client 1.1 release?.....	7
Other documents you may need.....	7
Chapter 2: Dell Hybrid Client installation.....	9
Chapter 3: Registering Dell Hybrid Client to Wyse Management Suite.....	10
Register Dell Hybrid Client manually.....	10
Registering Dell Hybrid Client by using DHCP option tags.....	11
Registering Dell Hybrid Client by using DNS SRV record.....	12
Enrollment Validation.....	12
Validate the enrollment of a device.....	13
Chapter 4: Managing user accounts.....	14
Joining Active Directory.....	14
Configure the guest user account settings.....	15
Show user list on the Dell Hybrid Client login screen.....	15
Chapter 5: Getting started with Dell Hybrid Client.....	16
Logging in to your Dell Hybrid Client.....	16
Log in as a guest user.....	16
Log in as a domain user.....	17
Configure the date and time.....	18
Desktop overview.....	18
Using the top bar.....	19
Using the taskbar.....	19
Applications overview screen.....	19
Shut down or restart.....	20
Lock your desktop.....	21
Managing the Dell Hybrid Client policy settings.....	22
Viewing system information.....	23
Reset the Dell Hybrid Client to factory default settings.....	24
Enable or disable access to desktop shortcuts.....	25
Configuring the printer settings.....	25
Configure the LPD printer settings.....	25
Configure the SMB printer settings.....	26
Configure the URI printer settings.....	26
Configure the custom connection settings.....	27
Configure the browser shortcut settings.....	28
Multilanguage support.....	28
Download and install language add-ons on Dell Hybrid Client.....	29

Configure the language settings using Wyse Management Suite.....	29
Chapter 6: Configuring the local settings.....	31
Configure the network settings locally.....	31
Configuring the display settings locally.....	33
Configure the peripheral settings locally.....	34
Configure the display personalization settings locally.....	37
Configure the region and language settings locally.....	38
Configure the power settings locally.....	40
Change the password.....	41
Configure the Dell Client Agent (DCA) settings manually.....	42
Chapter 7: Configuring the VDI environment.....	44
Single Sign-On (SSO) to VDI applications.....	44
Zoom application plugins for VDI.....	44
Configuring Citrix.....	45
Configure the Citrix broker connection	46
Configure the global Citrix settings.....	47
Connect to a Citrix session.....	48
Configuring VMware.....	48
Configure the VMware Broker connection.....	49
Configure the global VMware settings.....	50
Connect to a VMware session.....	51
Configuring RDP.....	51
Configure the RDP broker connection	52
Connect to an RDP session.....	52
Connect to an RDP session using TS Gateway with WebSocket.....	53
Logging in to a VDI session with a smart card.....	54
Install a certificate.....	54
File Type Association.....	55
Configure the File Type Association for Citrix.....	55
Configure the File Type Association for VMware.....	56
Configure the File Type Association for RDP.....	57
Chapter 8: Configuring the Cloud environment.....	59
Single Sign-On (SSO) to cloud applications.....	59
Connect to Azure.....	59
Connect to G Suite.....	61
Create shortcuts for cloud files.....	63
Chapter 9: File Affiliation.....	64
Configure the Cloud Mode.....	64
Configure the Cloud + Local Mode.....	65
Configure the VDI Mode.....	66
Configure the VDI + Local Mode.....	67
Configure the Cloud + VDI + Local Mode.....	68
Chapter 10: User applications.....	70
Browse the Internet.....	70

Enable or disable multicontainers for Firefox.....	70
Enable or disable site isolation for Chrome.....	71
Enable or disable plugins for Chrome.....	71
Allow or block access to websites.....	71
Using Dell File Explorer.....	72
Create a file.....	74
Add a folder.....	75
Save cloud files for offline use.....	76
Configure a network drive.....	76
Access local applications.....	77
Configure the application security.....	77
Using the Zoom application.....	77
Installing third-party applications.....	78
Install a Dell-signed application.....	78
Install a custom-signed application.....	79
Install an unsigned application.....	79
Chapter 11: Security configurations.....	81
Deployment models.....	81
Authentication.....	81
Login security settings.....	81
Authentication types and setup.....	83
User and credential management.....	84
Authentication to external systems.....	84
Authorization.....	84
Network security.....	85
Data security.....	85
Manage USB devices.....	85
Cryptography.....	86
Auditing and logging.....	86
Code or product integrity.....	86
Reporting security vulnerabilities.....	86
Chapter 12: Dell Hybrid Client recovery imaging.....	87
Chapter 13: Dell Hybrid Client troubleshooting.....	88
Using log files for troubleshooting.....	88
Enable dev mode in Dell Hybrid Client.....	88
Request log files using Wyse Management Suite.....	88
Extract log files using Device Settings.....	89
Extract VDI log files.....	89
Device is unable to register to Wyse Management Suite.....	89
Enrollment validation is pending.....	90
Chapter 14: Frequently Asked Questions (FAQs).....	91

Introduction

Dell Hybrid Client is a desktop solution by Dell that follows the Software-as-a-Service (SaaS) model of software delivery. It provides a hybrid operating environment that enables end-users to access virtual, cloud, or local applications and resources seamlessly. It encompasses the cloud and storage aggregation for maintaining security and simplicity.

You must use a management software to configure, operate, and update devices powered by Dell Hybrid Client, thereby eliminating the need for IT support to visit the physical devices. You can manage the devices by using Wyse Management Suite Pro. Wyse Management Suite offers process automation and helps lower costs for large deployments of devices powered by Dell Hybrid Client. Using secure HTTPS-based communication and Active Directory authentication for role-based administration, Wyse Management Suite keeps your devices up to date. The Wyse Management Suite mobile application enables administrators to view critical alerts, notifications on the dashboard, and send real-time commands.

This guide is intended for administrators and users who use Wyse Management Suite to manage devices powered by Dell Hybrid Client. This guide contains information and detailed system configurations to help you design and manage a Dell Hybrid Client environment using Wyse Management Suite. The target audience for this guide is Enterprise customers with administrator privileges. You must have knowledge about cloud infrastructure, network technologies, and user authentication technologies.

Supported platforms

Table 1. Supported platforms and configurations

Platform	Configuration		
	Processor	Memory	Storage
Wyse 5070	Intel Celeron Dual Core	8 GB and higher capacity RAM	32 GB or higher capacity SSD/eMMC
	Intel Pentium Quad Core		
Wyse 5070 Extended	Intel Pentium Quad Core		128 GB and higher capacity SSD/HDD
OptiPlex 7070 Ultra	8th Generation Intel Core i3/i5/i7		

Table 2. Supported platforms and configurations for conversion

Platform	Configuration		
	Processor	Memory	Storage
Wyse 5070	Intel Celeron Dual Core	4 GB and higher capacity RAM	16 GB or higher capacity SSD/eMMC
	Intel Pentium Quad Core		
Wyse 5070 Extended	Intel Pentium Quad Core		
OptiPlex 7070 Ultra	8th Generation Intel Core i3/i5/i7	8 GB and higher capacity RAM	128 GB and higher capacity SSD/HDD

 **NOTE:** Dell Technologies recommends that you use devices with 8 GB and higher capacity RAM for better performance.

Supported management software

Table 3. Supported management software

Dell Hybrid Client version	Supported management software
1.0	Wyse Management Suite Pro Edition 3.0 and later

Table 3. Supported management software (continued)

Dell Hybrid Client version	Supported management software
1.1	Wyse Management Suite Pro Edition 3.1 and later

Salient features of Dell Hybrid Client

The following are the salient features of the Dell Hybrid Client:

- **File Explorer**—Dell Hybrid Client provides a secure way to access files on local or cloud drives. The application associated to open the files can be a local, VDI or a cloud application.
- **User security**—Dell Hybrid Client provides a high level of user security in which the data of a particular user is locked and cannot be viewed by other users. A user's access to Dell Hybrid Client is controlled with specific permissions and data profiles that are managed using Wyse Management Suite.
- **Secure browsing**—Dell Hybrid Client provides a secure endpoint for your browser-based work environment.
- **Active Directory authentication**—Dell Hybrid Client supports user authentication with Active Directory—local AD and On-Prem User Sync with Azure AD.
- **Single Sign-On (SSO) to applications**—Dell Hybrid Client extends Single Sign-On (SSO) to cloud applications and web applications along with VDI applications. You get access to most applications by logging in once.
- **File Affiliation**—Dell Hybrid Client delivers a distinct setting called File Affiliation, in which you can restrict the user's ability to access applications depending on the mode which is active. In the Cloud mode, the client shows applications that are supported by Cloud services. In the Local mode, the client shows the local applications that are installed on Dell Hybrid Client. In the VDI mode, the client shows the VDI published applications and desktops. In the Offline mode, the system shows the tools and applications that operate on the cached files. On the same device different modes can be configured for different users using user policy groups.

What's new in Dell Hybrid Client 1.1 release?

- Ability to convert Wyse 5070 devices running Windows 10 IoT Enterprise, ThinLinux 2.x, or ThinOS 8.6 (Maintenance Release 8 and later) to Dell Hybrid Client. For more information about the conversion process, see the *Dell Hybrid Client Conversion Guide* at www.dell.com/support.
- Ability to convert OptiPlex 7070 devices running Windows 10 and Ubuntu 18.04 to Dell Hybrid Client. For more information about the conversion process, see the *Dell Hybrid Client Conversion Guide* at www.dell.com/support.
- Ability to remotely connect to Dell Hybrid Client using the SSH protocol. See, [Configure the SSH settings](#).
- Ability to remotely connect to Dell Hybrid Client using VNC. See, [Configure the VNC settings](#).
- Ability to enable or disable the access to desktop shortcuts. See, [Enable or disable access to desktop shortcuts](#).
- Supports custom connections for browser shortcuts and local applications on Dell Hybrid Client. See, [Configure the custom connection settings](#) and [Configure the browser shortcut settings](#).
- Supports the autologin feature for a guest user. See, [Configure the guest user account settings](#).
- Supports installation of unsigned and custom-signed third-party applications in addition to Dell-signed applications. See, [Installing third-party applications](#).
- Supports localized User Interface for Dell Hybrid Client. See, [Multilanguage support](#).

NOTE: Configuration User Interface must be updated to v1.0.112 for on-premises Wyse Management Suite v3.1 to support Dell Hybrid Client 1.1 features. You can download the Configuration User Interface package from the Wyse Management Suite drivers page at www.dell.com/support. For public cloud tenants or customers, the Configuration User Interface package is upgraded by Dell Technologies. For more information about how to upload and apply the Configuration User Interface package, see the *Dell Wyse Management Suite v3.1 Administrator's Guide* at www.dell.com/support.

Other documents you may need

In addition to this guide, you can access the following guides available at www.dell.com/support/manuals.

- The *Dell Hybrid Client v1.x Release Notes* provides information about new features and known issues in each Dell Hybrid Client release.
- The *Dell Hybrid Client v1.x Conversion Guide* provides information about how to convert your devices running ThinOS, ThinLinux, Windows, or Ubuntu to Dell Hybrid Client.

- The *Dell Wyse Management Suite 3.x Administrator's Guide* provides information about configuration, and maintenance of the devices powered by Dell Hybrid Client by using the Wyse Management Suite console.

Dell Hybrid Client installation

Dell Hybrid Client is supported on the Wyse 5070 device and the OptiPlex 7070 Ultra device.

- **Dell Hybrid Client on Wyse 5070**—The Dell Hybrid Client software is preloaded and installed on the device.
- **Dell Hybrid Client on OptiPlex 7070 Ultra**—The Dell Hybrid Client software is preloaded with Dell Client Agent-Enabler (DCAE) installed.

DCA-Enabler is a client agent for managing Dell Hybrid Client on OptiPlex 7070 Ultra devices. DCA-Enabler allows you to do the following actions that are managed by Wyse Management Suite:

- Registration
- Real-Time Commands (RTC)
- Unregistration from server
- Standard Application Policy
- Only certificate policy

You must do the following to install Dell Hybrid Client on the OptiPlex 7070 Ultra device:

1. Register the device to Wyse Management Suite using one of the following methods:
 - Register automatically by configuring the appropriate option tags on the DHCP server. See, [Registering Dell Hybrid Client by using DHCP option tags](#).
 - Register automatically by configuring the appropriate DNS SRV records on the DNS server. See, [Registering Dell Hybrid Client by using DNS SRV record](#).
 - Register using manual discovery method (reg.json). See the *Register Dell Hybrid Client by using manual discovery method* section in *Dell Wyse Management Suite v3.0 Administrator's Guide* at www.dell.com/support.
2. Reimage your OptiPlex 7070 Ultra device using the **Reimage** option on Wyse Management Suite. For more information about how to reimage the device, see [Dell Hybrid Client recovery imaging](#).

NOTE: As an administrator, you must change the **GRUB** password and **Bremen** password using Wyse Management Suite when you start Dell Hybrid Client for the first time. For more information about how to change GRUB password and Bremen password, see [Enable GRUB menu password protection](#) and [Configure the Bremen password](#).

Registering Dell Hybrid Client to Wyse Management Suite


Register Dell Hybrid Client manually

Prerequisites

Before registering the device, ensure that your device has network connectivity to contact the Wyse Management Suite server.

NOTE: You can register or unregister the device only from the guest user account.

Steps

1. Log in to Dell Hybrid Client as a guest user. By default, the username is **guest**.
2. On the top bar, click .

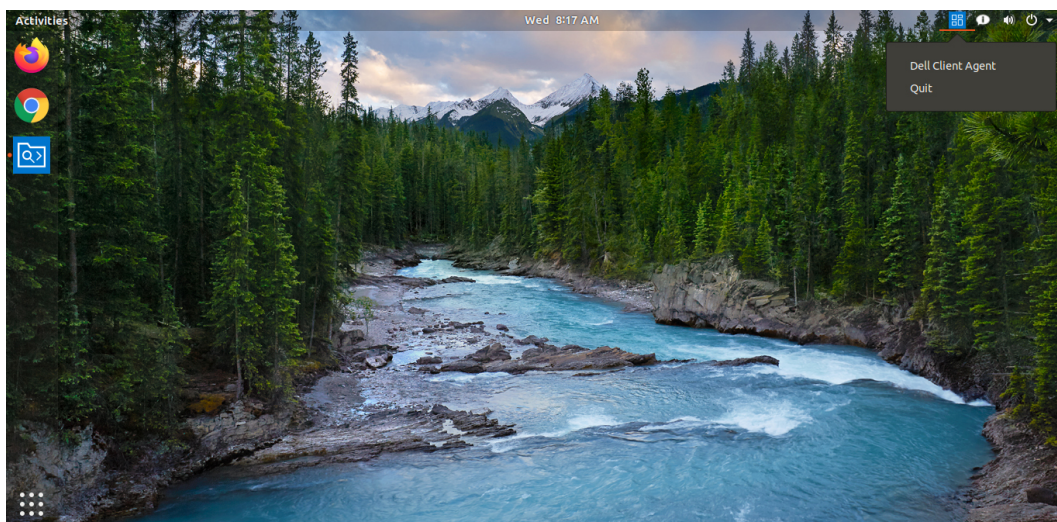


Figure 1. Dell Client Agent icon

3. Click **Dell Client Agent**.
The **Dell Client Agent** window is displayed.
4. Click **Registration**.
The default status is displayed as **Discovery In Progress**.
5. To register manually, click the **Cancel** button.
6. In the **WMS Server** field, enter the URL of the Wyse Management Suite server.
7. In the **Group Token** field, enter your group registration key. The group token is a unique key for registering your devices to groups directly.
NOTE: If the tenant and group fields are empty, the device is registered to the unmanaged group. However, the group token is mandatory for registering the device to a public cloud.
8. Click the **ON/OFF** button to enable or disable the **Validate Server Certificate CA** option. Enable this option to perform the server certificate validation for all device-to-server communication.
The CA Validation option is enabled automatically and cannot be disabled if a public cloud URL is entered.

- Click **Register** to register your device on the Wyse Management Suite server.

When your device is successfully registered, the status is displayed as **Registered** with the green color tick next to the **Registration Status** label. The caption of the **Register** button changes to **Unregister**.

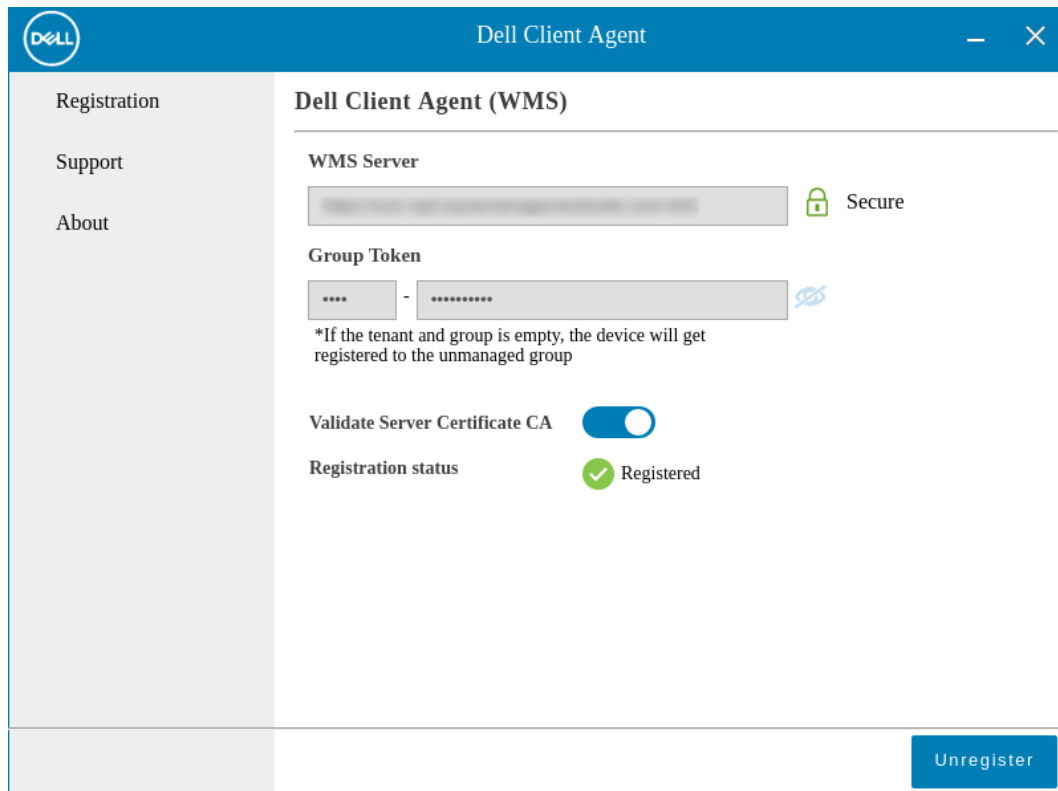


Figure 2. Dell Client Agent

Registering Dell Hybrid Client by using DHCP option tags

Table 4. Register Dell Hybrid Client by using DHCP option tags

Option Tag	Description
Name —WMS Data Type —String Code —165 Description —WMS Server URL	This tag specifies the Wyse Management Suite server URL. For example, <code>https://wms.dell.com:443</code> or <code>https://www.wysemanagementsuite.com</code> .
Name —CA Validation Data Type —String Code —167 Description —Certificate Authority Validation	You can enable or disable CA validation option if you are registering your devices with Wyse Management Suite on private cloud. Enter True , if you have imported the SSL certificates from a well-known authority for https communication between the client and Wyse Management Suite server. Enter False , if you have not imported the SSL certificates from a well-known authority for https communication between the client and Wyse Management Suite server. NOTE: If the value is not configured, True is considered as the default value.


Table 4. Register Dell Hybrid Client by using DHCP option tags (continued)

Option Tag	Description
Name —GroupToken Data Type —String Code —199 Description —Group Token	<p>This tag is required to register your device with Wyse Management Suite on a public cloud or on-premises.</p> <p>If the tag is not available, devices are automatically registered to the unmanaged group during on-premises installation.</p>

Registering Dell Hybrid Client by using DNS SRV record

DNS-based device registration is supported on Dell Hybrid Clients. You can register devices with the Wyse Management Suite server if DNS SRV record fields are set with valid values.


Table 5. Configuring device by using DNS SRV record

URL/Tag	Description
Record Name —_WMS_MGMT Record FQDN — _WMS_MGMT._tcp.<Domainname> Record Type — SRV	<p>This record specifies the Wyse Management Suite server URL. While configuring the SRV record, add the port number 443 in port number field, and provide the Wyse Management Suite URL in the Host field.</p> <p>For example, <code>https://wms.dell.com:443</code>, where <code>wms.dell.com</code> is the fully qualified domain name of the server where Wyse Management Suite is installed and 443 is the port number.</p>
Record Name —_WMS_GROUPTOKEN Record FQDN — _WMS_GROUPTOKEN.<Domain> Record Type — TEXT	<p>This tag is required to register your device with Wyse Management Suite on public cloud.</p> <p>If the tag is not available, devices are automatically registered to the unmanaged group during on-premises installation.</p>
Record Name —_WMS_CAVALIDATION Record FQDN — _WMS_CAVALIDATION.<Domain> Record Type —TEXT	<p>You can enable or disable the CA validation option if you are registering your devices with Wyse Management Suite on private cloud.</p> <p>Enter True, if you have imported the SSL certificates from a well-known authority for https communication between the client and Wyse Management Suite server.</p> <p>Enter False, if you have not imported the SSL certificates from a well-known authority for https communication between the client and Wyse Management Suite server.</p> <p> NOTE: If the value is not configured, True is considered as the default value.</p>

Enrollment Validation

In Wyse Management Suite, the **Enrollment Validation** option is introduced where the tenant must manually approve before the device is registered to a group.

When the **Enrollment Validation** option is enabled, the auto-discovered devices are in **Pending Validation** state in the **Devices** page. The tenant can select a single device or multiple devices in the **Devices** page by selecting the **Enrollment Validation Pending** filter from the **Status** drop-down list and validate the enrollment. You can also click the **Enrollment Pending** link on the **Dashboard** page. The devices are moved to the intended group after they are validated.

 **NOTE:** The **Enrollment Validation** option is disabled for existing tenants in the public cloud or when you upgrade on-premise tenants.


The validation status of the devices is also displayed in the **Devices** section on the **Dashboard** page.

For more information about validating enrollment, see [Validate the enrollment of a device](#).

Validate the enrollment of a device

You can enable **Enrollment Validation** to allow administrators to control the manual and auto registration process of devices powered by Dell Hybrid Client to a group. You can filter the devices in **Pending Validation** state by clicking the **Pending** count in the **Dashboard** page or by selecting the **Enrollment Validation Pending** in the **Status** drop-down list on the **Devices** page.

Prerequisites

- You must enable the **Enrollment Validation** option when you install Wyse Management Suite—OOBE screen or in the **Portal Administration** page—**Setup** option.
 **NOTE:** The Enrollment Validation option is enabled by default when installing Wyse Management Suite for the first time or when using a Wyse Management Suite Cloud.
- The device must be in Enrollment Pending state.

Steps

1. Select the check box of the device that you want to validate.
2. Click the **Validate Enrollment** option.
An **Alert** window is displayed.
3. Click **Send Command**.
The device moves to the wanted group, and the device is registered.

Managing user accounts

Dell Hybrid Client offers two types of user accounts, **Active Directory (AD) user** and **Guest user**.

- **AD user**—Enables users to connect to the work domain using their Active Directory credentials. For information about joining AD and authentication, see [Joining Active Directory](#).
- **Guest user**—Enables users to access Dell Hybrid Client when they do not have an AD account. By default, the guest account is enabled. If you want to disable or set a password for the guest account, you must use Wyse Management Suite. For more information about how to configure a guest account, see [Configure a guest user account properties](#).

By default, the user list of last logged-in users is not displayed on the login screen. For information about how to view the user list on the login screen, see [Show user list on the Dell Hybrid Client login screen](#).

Joining Active Directory


Dell Hybrid Client supports user authentication with Active Directory, both local AD and On-prem User Sync with Azure AD. Active Directory allows an administrator to enable or disable the user authentication to specific domains. Dell Hybrid Client supports login with Active Directory user. Guest user login is supported with Wyse Management Suite policy configuration at group level. However, the local user login is not supported.

Prerequisites

- Ensure that the DNS server is configured correctly.
- Ensure that the date and time of your Dell Hybrid Client are synchronized with the date and time of the domain server. For more information about how to configure date and time using Wyse Management Suite, see, [Configure the date and time](#).
- Ensure that the Dell Hybrid Client is registered to Wyse Management Suite.


Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.

 **NOTE:** The Domain join SignOn option is available on the default device policy group.

3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **SignOn**, and click **Domain join**.
6. Click the **Join Domain** toggle key to enable domain joining.
7. In the **Username** field, enter the name of the user who has the relevant permission to join a device to Active Directory.
8. In the **Password** field, enter the password of the user.
9. In the **Domain** field, enter the complete domain name. For example, test.local, test.com, and child.test.com.
10. In the **Organizational Unit** field, enter the name of your enterprise organizational unit.
For multiple Organizational Units (OUs), you must mention the sublevels that are separated by a forward slash (/). For example, if the full distinguished name is OU=test,OU=blrtest,OU=blr,DC=blrbrmcloud,DC=com, the OU name must be specified as /blr/blrtest/test.
11. In the **Workgroup** field, enter the name of the workgroup specific to your organization.
12. Click **Save and Publish**.

If the user has logged in to the device, the **Restart Now** option is displayed. If the device is not in the logged-in state (locked state or the login screen), the device restarts automatically.

 **NOTE:** Domain unjoin is not supported on devices that are upgraded from Dell Hybrid Client v1.0.1288 to v1.1.1618. Workaround is to reimage the device from Wyse Management Suite.

Next steps

Log in to the Dell Hybrid Client as a domain user. See, [Log in as a domain user](#).

Configure the guest user account settings

The Guest account is a low-privilege account that is available for users who do not have an AD account, but need access to Dell Hybrid Client. You can enable or disable the guest user account using Wyse Management Suite. If you have logged in as a guest user, local configurations are not preserved across logins. For example, when a guest user configures a wallpaper setting locally, the setting is restored to the default wallpaper when the user logs out and logs back in. However, when the same wallpaper is configured from Wyse Management Suite (Device User Policies), the setting changes are applied to the subsequent guest user logins. You can configure a password for the guest user from Wyse Management Suite.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Privacy & Security**, and click **Guest User Account Properties**.
6. Click the **Guest user account** toggle key to enable or disable the guest user account. By default, the guest user account is enabled.
7. Click the **Password prompt guest account** toggle key to ON state to enable the password prompt for the guest account.
8. In the **Set password for Guest user** field, enter the password for the guest user account.
9. Click the **Auto SignOn** toggle key to ON state to enable the guest user to automatically log in to Dell Hybrid Client.
10. Click the **Remove Device Lock and Password prompt on wakeup** toggle key to ON state to enable the option. After the device or display resumes from sleep mode, the lock screen is no longer displayed and the device does not prompt for a password.
11. Click **Save and Publish**.
After receiving the configuration, the client displays a log-off notification. Close the notification and log off manually to apply the configuration.

Next steps

Log in to Dell Hybrid Client as a guest user. See, [Log in as a guest user](#).

Show user list on the Dell Hybrid Client login screen

You can allow Dell Hybrid Client to display the account name of the previously logged-in users on the login screen. By default, the user list is not displayed on the login screen. This option is applicable only to a device policy group.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **SignOn**, and click **Previously Logged-in User List**.
6. Click the **Previously Logged-in User List** toggle key to enable the option.
7. Click **Save & Publish**.
8. Turn on the device.
Dell Hybrid Client displays the previously logged-in user list on the login screen.

Getting started with Dell Hybrid Client

Logging in to your Dell Hybrid Client

It is recommended that you connect the device using a wired network connection.

Log in as a guest user

As a **guest user**, you can log in to the guest account. By default, the guest user account is enabled on your Dell Hybrid Client. If you have logged in as a guest user, local configurations are not preserved across logins. For example, when a guest user configures a wallpaper setting locally, the setting is restored to the default wallpaper when the user logs out and logs back in. However, when the same wallpaper is configured from Wyse Management Suite (Device User Policies), the setting changes are applied to the subsequent guest user logins.

Prerequisites

Ensure that the guest account is not disabled by the Wyse Management Suite administrator. For more information about configuring the guest account properties, see [Configure a guest user account properties](#).

Steps

1. Start the device powered by Dell Hybrid Client.
2. On the login screen, enter the username as **guest**.

NOTE: If the auto sign-on option is enabled, the guest user can automatically log in to Dell Hybrid Client without entering the username.

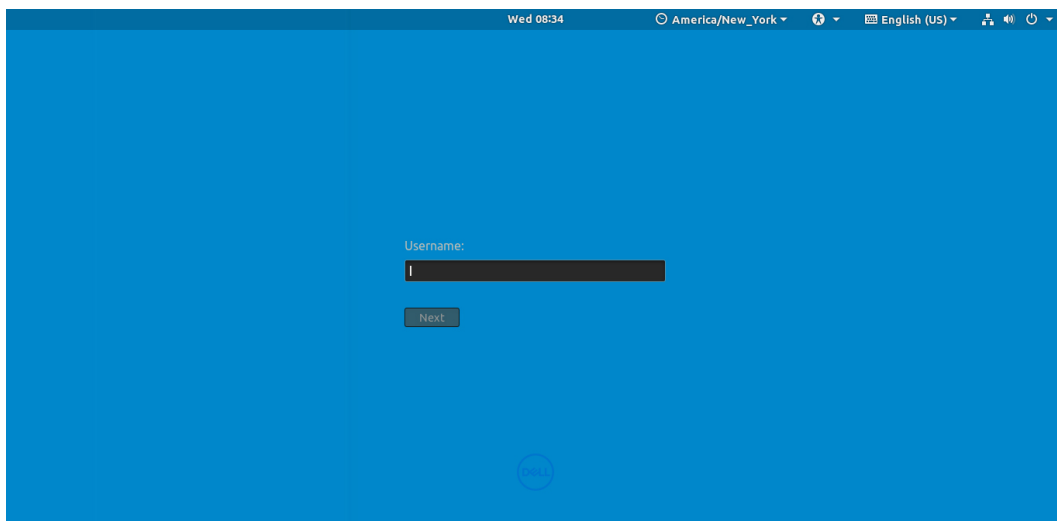


Figure 3. Username

3. Press **Enter**.
Dell Hybrid Client boots to the desktop screen.
- NOTE:** If the previously logged-in user list option is enabled on Wyse Management Suite, Dell Hybrid Client shows user accounts on the login screen. See, [Show user list on the Dell Hybrid Client login screen](#).

Log in as a domain user

As a **domain user**, you can securely connect to the work domain using the Active Directory credentials.

Prerequisites

Ensure that the **Domain Join** option is configured on Wyse Management Suite. For information about joining AD and authentication, see [Joining Active Directory](#).

Steps

1. Start the device powered by Dell Hybrid Client.
2. On the login screen, enter the domain credentials. For example, `domain\username` or `username@domain.com`.

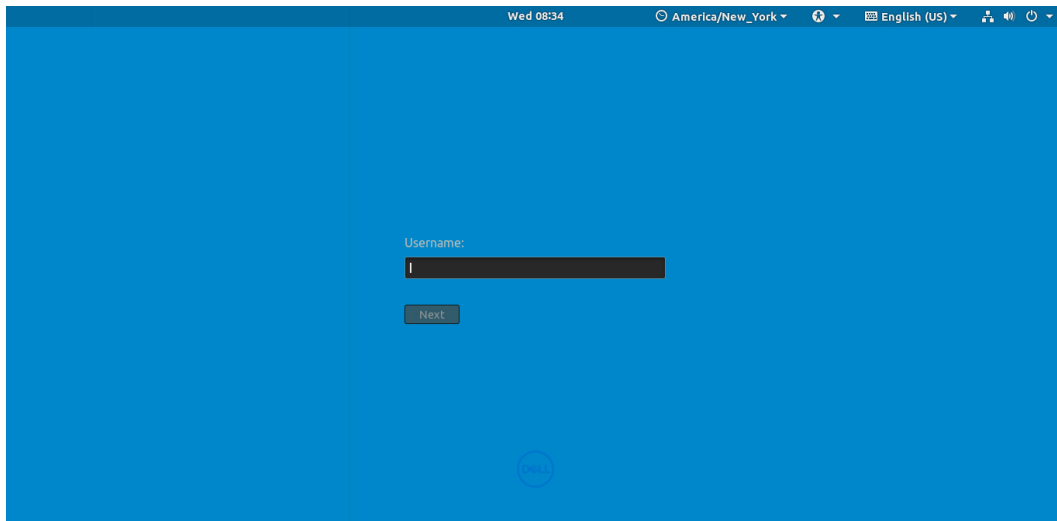


Figure 4. Domain username

3. Click **Next**.
4. Enter the domain password.

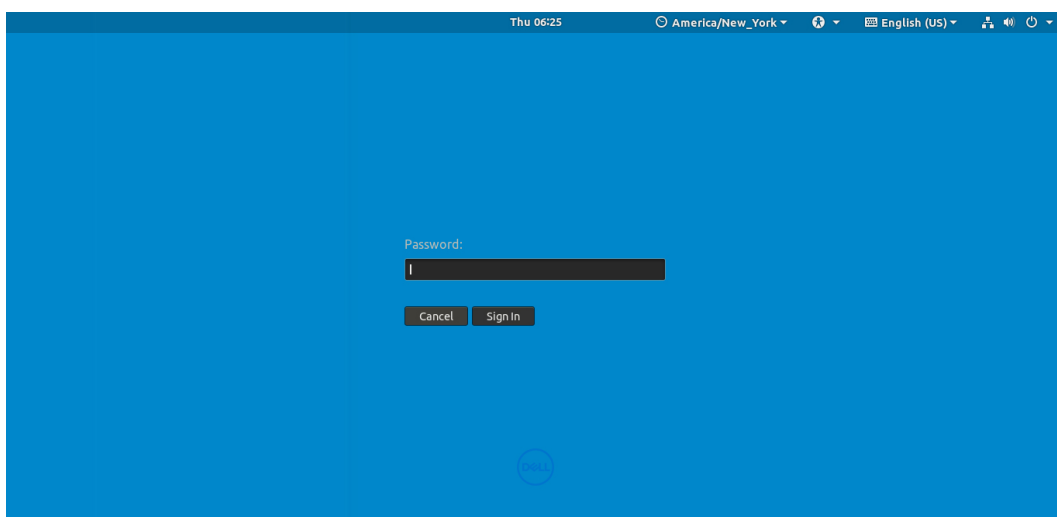



Figure 5. Domain password

5. Click **Sign In**.
Dell Hybrid Client boots to the desktop screen.
- NOTE:** If the previously logged-in user list option is enabled on Wyse Management Suite, Dell Hybrid Client shows user accounts on the login screen. See, [Show user list on the Dell Hybrid Client login screen](#).

Configure the date and time

Use Wyse Management Suite to configure the date and time settings for the Dell Hybrid Client.


Steps

1. Log in to Wyse Management Suite.
 2. Go to the **Groups & Configs** page, and select your preferred group.
 3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
 4. Click the **Advanced** tab.
 5. Expand **Region Settings**, and do the following:
 - a. Click **Region** to configure the region settings such as Time zone and Time Format.
 - From the **Time Zone** drop-down list, select the time zone name.
 - From the **Time Format** drop-down list, select the time format—12 Hours or 24 Hours.
 - b. Click **Time Server** and specify the FQDN or IP address of the time server. Maximum allowed length is 127 characters.
-  **NOTE:** You can configure multiple time servers. Each value must be separated by a semicolon.
6. Click **Save and Publish**.

Desktop overview

Dell Hybrid Client boots to the desktop after a successful login. This is the default screen that is displayed after you log in to the device—without autostart of any connections or applications. The desktop screen uses the GNOME user interface that is present in Ubuntu 18.04, but is customized to create a Dell Hybrid Client environment. The Dell Hybrid Client desktop has a Dell default background with a horizontal top bar and a vertical task bar.

The Dell Hybrid Client desktop consists of the following screen elements:

- **Show Applications** ()—Displays the applications menu that provides access to all the Dell Hybrid Client configurations.
- **Top bar**—Displays time and provides access to **Activities** overview, Clock and calendar, System Information, Dell Client Agent (DCA), System menu, and the Notification icon.
- **Taskbar**—Displays all your favorite applications.

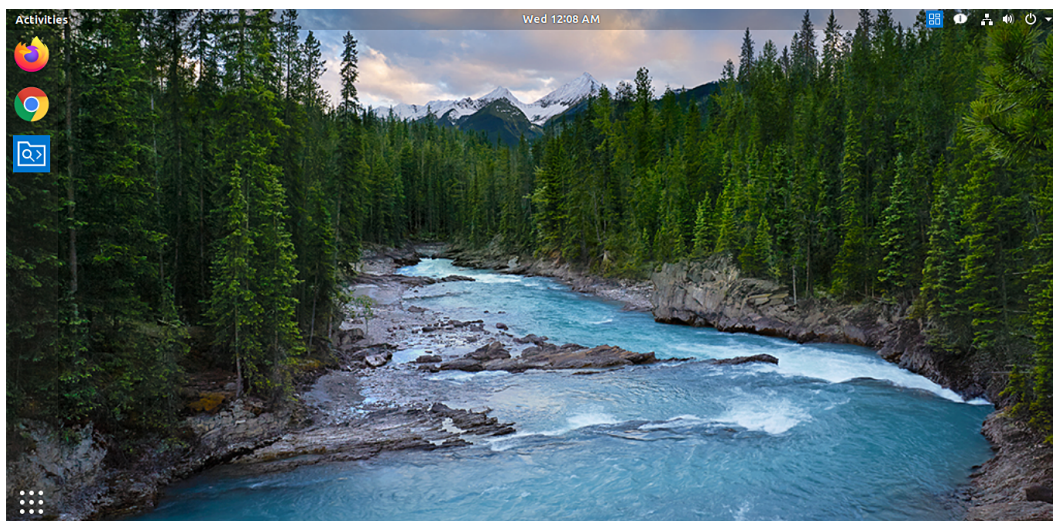


Figure 6. Desktop overview

Using the top bar

Use the top bar to access Activities overview, Clock and calendar, System Information, Dell Client Agent, System menu, and Notification icon.

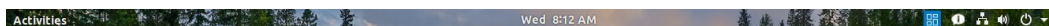


Figure 7. Top bar

Table 6. Top bar elements

Element	Description
Activities	Displays all the running windows and GUI applications. When you enter the overview, all the running windows are displayed as live thumbnails on the current workspace. You can use a workspace to group similar type of windows. For more information about workspace, see the <i>Ubuntu documentation</i> at help.ubuntu.com/ .
Clock and calendar	Displays the current date and calendar.
Dell Client Agent	Displays the Dell icon that allows you to access the Dell Client Agent (DCA) settings window.
System Information	Displays the System Information window.
System menu	Displays the following system settings: <ul style="list-style-type: none">• Volume icon—Enables you to increase or decrease the speaker volume.• Wired Connection—Enables you to turn on or turn off the wired connection.• WiFi connection—Enables you to turn on or turn off a wireless connection. You can select a wireless network in the Wi-Fi Networks window.• Bluetooth icon—Enables you to turn on or turn off Bluetooth.• Log out user—Enables you to log off from the current user.• Power button—Enables you to shut down or restart your system.• Lock screen—Enables you to lock your desktop screen.
Notification icon	Displays a notification icon in the notification area. It shows notifications that are related to system connections.

Using the taskbar


Dell Hybrid Client consists of a vertical taskbar on the left of the desktop screen. It displays all applications that are added to favorites. Any GUI application that is active is automatically pinned to the taskbar.

By default, the following application icons are added to the taskbar:

- Google Chrome
- Mozilla Firefox
- File Explorer

You can click any of the application icons to start it. You can also add your frequently used or favorite applications to the taskbar.

Applications overview screen

Use the applications overview screen on Dell Hybrid Client to access all the local configurations, Broker agent connections, web browsers and so on. To access the applications overview screen, click the **Show Applications** button () at the lower-left corner of the desktop screen.

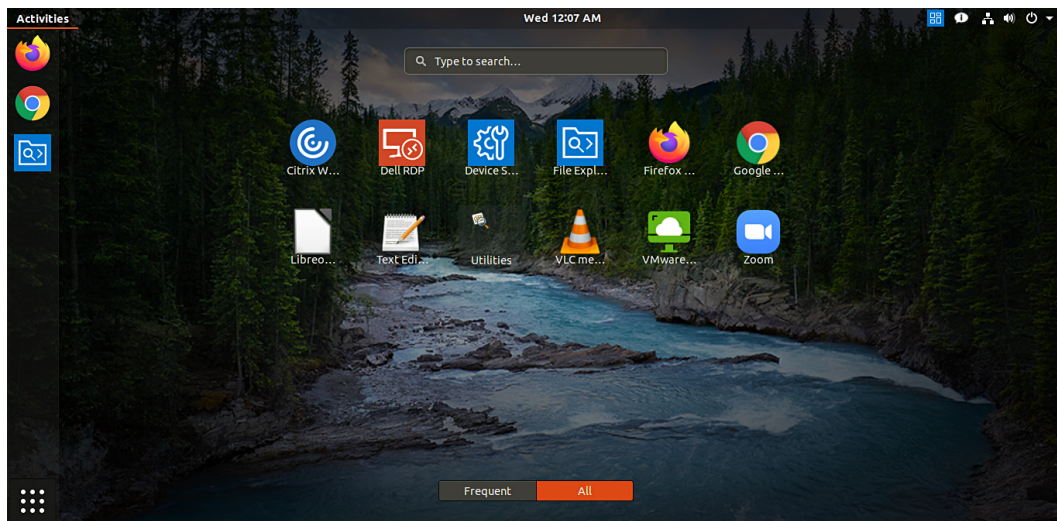


Figure 8. Applications Overview screen

The application overview screen consists of the following screen elements:

- **Search box**—Enables you to search for applications by typing the application name in the **Search** text box.
- **Firefox browser**—Enables you to browse the web using the Mozilla Firefox web browser.
- **Chrome browser**—Enables you to browse the web using the Google Chrome web browser.
- **File Explorer**—Enables you to manage all the local, cloud, and external files and folders.
- **Device Settings**—Enables you to configure the local configurations, such as, **Network, Monitor, Peripherals, Display Personalization, Region and Language, Power, Password, and Dell Client Agent**. The **Device Settings** icon is displayed on the Application overview screen upon system startup in both user and guest mode.
- **VLC Media Player**—Enables you to play multimedia files.
- **Libre Office Suite**—Enables you to create and edit text documents, spreadsheets, presentation, drawings, and so on.
- **Text Editor**—Enables you to edit your text.
- **Image Viewer**—Enables you to open an image file.
- **Zoom client**—Enables you to join a Zoom meeting. Zoom client is not available as a default application on Wyse 5070 devices with 16 GB storage capacity.
- **Connection and application shortcuts**—Enables you to quickly access all the available VDI connections, published applications, and cloud applications. Citrix and VMware clients are not available as a default application on Wyse 5070 devices with 16 GB storage capacity.

Shut down or restart

The **Power Off** option enables you to shut down the device powered by Dell Hybrid Client. The **Restart** option enables you to perform a full restart of the device powered by Dell Hybrid Client.

Steps

1. On the top bar, click the **System menu** icon.
2. Click the **Power** button, and do any of the following:

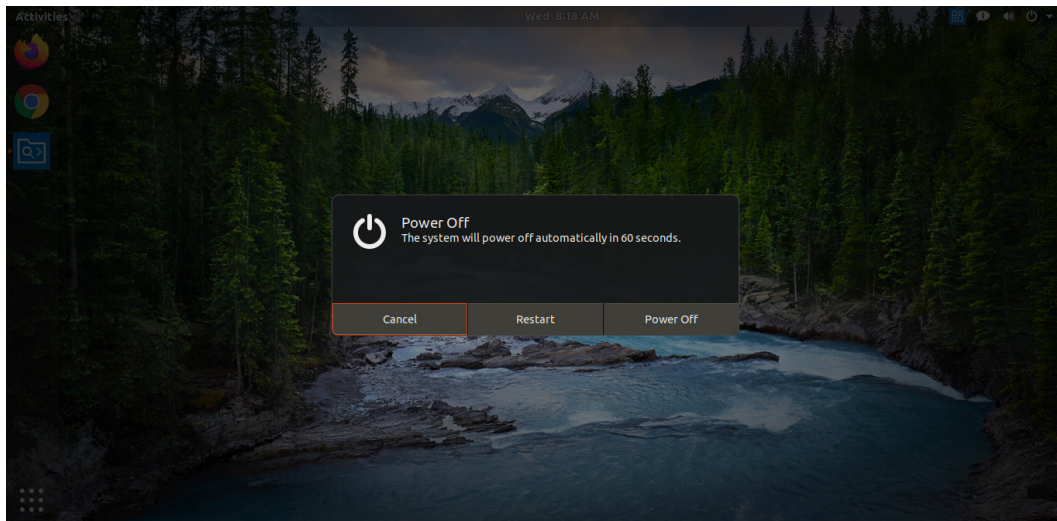


Figure 9. Power Off

- **Power Off**—Click the **Power Off** option to immediately shut down the device.

NOTE: The device automatically restarts after 60 s.

- **Restart**—Click the **Restart** option to restart the device.
- **Cancel**—Click the **Cancel** option to cancel system shutdown or restart.

NOTE: You can access the Logout and Cancel window by pressing the Ctrl+Alt+Delete key combination.

Lock your desktop

The lock screen functionality enables you to secure your device powered by Dell Hybrid Client when you leave your desk. The lock screen displays the date, time, and volume control.

Steps

1. On the top bar, click the **System menu** icon.
2. Click the **Lock** button to lock your screen.

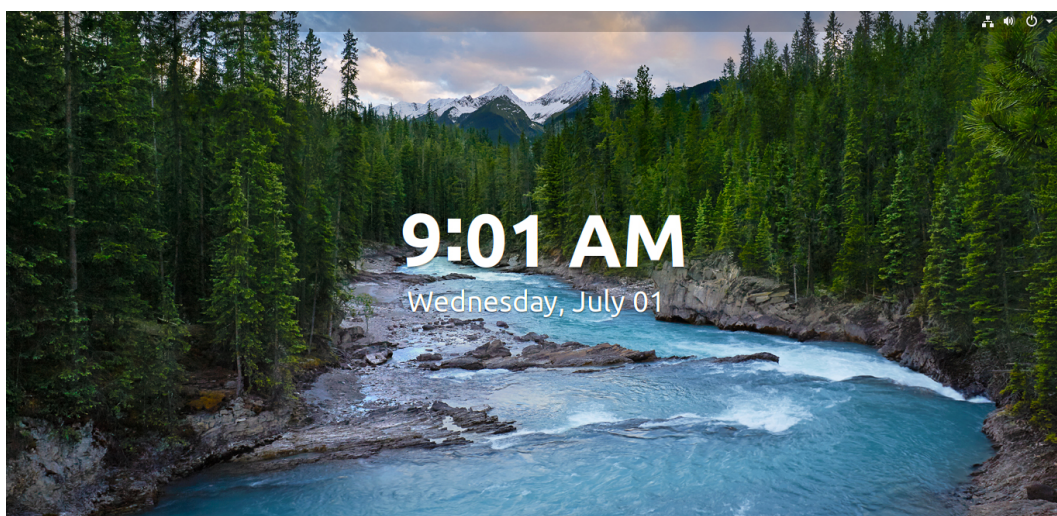



Figure 10. Lock screen

 **NOTE:** You can press the Super + L key combination on your keyboard to lock the desktop.

Next steps

To unlock your screen, click the **Unlock** button from the **System menu**. You can also press the Esc + Enter key combination on your keyboard to unlock your screen.

Managing the Dell Hybrid Client policy settings

You can configure and manage your devices powered by Dell Hybrid Client using the **Hybrid Client** policy settings on Wyse Management Suite. To configure the Dell Hybrid Client settings, do the following:

1. Go to the **Groups & Configs** page, and select a group.
2. From the **Edit Policies** drop-down menu, click **Hybrid Client**.

The **Configuration Control | Hybrid Client** window is displayed.

3. Click the **Standard** tab or the **Advanced** tab.

The **Standard** tab lists all the common settings. The **Advanced** tab lists all the advanced settings.

4. Select the options that you want to configure.
5. In the respective fields, click the option that you want to configure.
6. Configure the options as required.
7. Click **Save & Publish**.

 **NOTE:** After you click **Save & Publish**, the configured settings are also displayed in the **Standard** tab.

The following table lists the feature set that you can configure in the **Configuration Control | Hybrid Client** window:

Table 7. Dell Hybrid Client v1.1 policy settings

Feature	Sub feature—User policy group	Sub feature—Device policy group
Peripheral Management	Display settings	Display settings
	Printers	Printers
	Audio	Audio
	Mouse	Mouse
	Keyboard	Keyboard
Network Configuration	Wireless	Wireless
		Proxy
		Bluetooth
Browser settings	Google Chrome settings	Browser shortcuts
	Firefox settings	
	Browser shortcuts	
	Default Browser	
Custom Connections	Custom Connections	Custom Connections
Region & Language settings	Region	Region
	Language	Language
		Time Server
Personalization	Desktop	Desktop
		Device info

Table 7. Dell Hybrid Client v1.1 policy settings (continued)

Feature	Sub feature—User policy group	Sub feature—Device policy group
SignOn	Not applicable	Domain join
		Previously Logged-in User List
Privacy & Security	Not applicable	Certificate
		Guest user account properties
		USB Lockdown
		GRUB password
		Bremen password
		VNC Server
		SSH Server
Power Settings	Power saving	Power saving
	Suspend and Power button	Suspend and Power button
Citrix Workspace	Citrix Broker Session	Citrix Broker Session
	Citrix Global Settings	Citrix Global Settings
	Citrix File Type Association	Citrix File Type Association
VMware ViewClient	VMware ViewClient Broker Session	VMware ViewClient Broker Session
	VMware Global Settings	VMware Global Settings
	VMware File Type Association	VMware File Type Association
RDP	RDP Broker Session	RDP Broker Session
	RDP File Type Association	RDP File Type Association
File Affiliation	File Affiliation	File Affiliation
WMS settings	Not applicable	WMS client settings
		Deployment Settings
Application Security	VLC Media Player	VLC Media Player
	Image Viewer	Image Viewer
	Libre Office	Libre Office
	Application Access Control	Application Access Control
		Application Deployment
Network Drives	Network Drives list	Network Drives list
BIOS	Not applicable	Select your platform: <ul style="list-style-type: none"> • DHC 5070 • DHC 7070

Viewing system information

Use the **System Information** window to view the Identity, Network, Packages, and Copyright information. You can use the **System Information** window to view all the system logs.

To view your system information, click the **System Information** icon on the top bar.

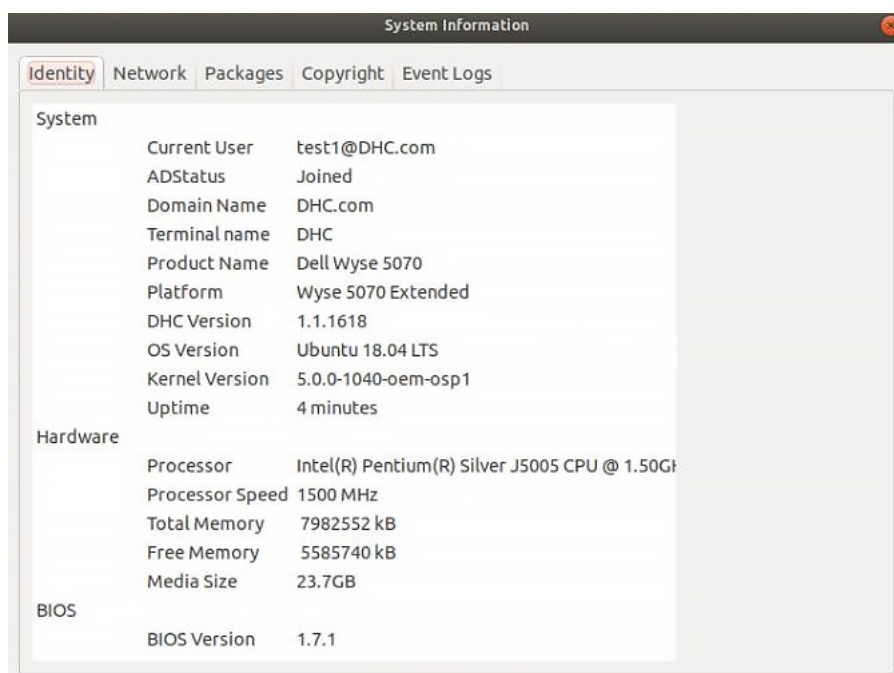


Figure 11. System Information

The **System Information** window displays the following information:

- **Identity tab**—Displays information such as system details, hardware details, BIOS version, and custom information.
 - **System**—Displays information about the current user, terminal name, product name, platform, build, operating system version, Kernel version, and Uptime.
 - **Hardware**—Displays information about the processor type, processor speed, total memory, free memory, and media size.
 - **BIOS**—Displays information about the BIOS version.
 - **Custom Info**—Displays information about the location, contact, and custom.
- **Network tab**—Displays information that is related to Ethernet and WiFi connections.
 - **Interface information**—Displays information about the MAC address, network speed, and Maximum Transmission Unit (MTU).
 - **IP information**—Displays information about the IP address, IPv6 address, subnet mask, gateway, domain, primary DNS, secondary DNS, DHCP server, lease, and elapsed.
- **Packages tab**—Displays all add-ons that are installed on your device. The add-ons are listed with the attributes, such as package name, version, size, and status. The **Original** value in the **Status** column specifies the integrated add-ons in the Dell Hybrid Client. By default, only Dell packages are displayed. To view all packages, click the **Show All Packages** button.
- **Copyright tab**—Displays the software copyright and patent notices.
- **Event Logs**—Displays major events.

Reset the Dell Hybrid Client to factory default settings

You can send a command from Wyse Management Suite to reset your Dell Hybrid Client to factory default settings. All the Dell Hybrid Client policies that are pushed from Wyse Management Suite are reset to default values when you perform a factory reset.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Devices** page.
3. Apply the filters to find the preferred device.
4. Select the check box of the device.

5. From the **More Actions** drop-down menu, click **Factory Reset**.
An **Alert** window is displayed.
6. Enter the reason for the client reset.
7. Click **Send Command**.

Enable or disable access to desktop shortcuts

Dell Hybrid Client enables you to restrict access to application shortcuts that added to the Dell Hybrid Client desktop and favorites. You can use Wyse Management Suite to configure the access control settings.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Application Security**, and click **Application Access Control**.
6. Enable or disable access to one or more applications from the following categories:
 - **Web browsers**—Google Chrome and Firefox.
 - **Dell Hybrid Client applications**—Dell File Explorer and Device Settings.
 - **VDI applications**—Citrix, VMware, and RDP.
 - **Productivity applications**—Text Editor, VLC Media Player, Image Viewer, and Libre Office.

When you disable access to an application, you cannot access the application from desktop and favorites.

7. Click **Save and Publish**.

Configuring the printer settings

Dell Hybrid Client supports network printing using the Line Printer Daemon (LPD) and Server Message Block (SMB) network protocols. You can also use the Uniform Resource Identifier (URI) of the printer for network printing.

Use Wyse Management Suite to configure the following printer settings:

- [Configure the LPD printer settings](#)
- [Configure the SMB printer settings](#)
- [Configure the URI printer settings](#)

Dell Hybrid Client also supports USB printing. When a USB printer is connected to the device, it is automatically detected, and you can print from the local system or VDI.

You can also use the printer setup on the local device to configure your printers. For more information, see [Configure the peripheral settings locally](#).

Configure the LPD printer settings

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Peripheral Management**, and click **Printers**.
6. In the **Printer Connection** section, click **Add Row**.
7. From the **Printer Type** drop-down list, select **LPD**.
8. Enter the name of the printer in the **Name** field.

9. Enter the hostname in the **Host** field. For LPD printer, you can enter the IP address of the printer.
10. Enter the name of the queue associated with the printer in the **Queue** field. An LPD host maintains a named queue for each supported printer.
11. Enter the installed driver name in the **Model** field.
12. Click the **Enable** toggle key to enable the device to access the printer.
13. Click the **Default** toggle key to set the printer as the default printer.
14. Enter the description for your printer in the **Description** field.
15. Enter the network path where the printer is located in the **Location** field.
16. Click **Save & Publish**.
17. Log in to Dell Hybrid Client.
The configured printer is listed.

Configure the SMB printer settings

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Peripheral Management**, and click **Printers**.
6. In the **Printer Connection** section, click **Add Row**.
7. From the **Printer Type** drop-down list, select **SMB**.
8. Enter the name of the printer in the **Name** field.
9. Enter the hostname in the **Host** field. For SMB printer, you can enter the UNC path of the printer server or the IP address followed by the printer share name.
10. Enter the name of the domain user in the **Domain User Name** field.
For example, Workgroup (Domain)\Username.
11. Enter the domain password in the **Password** field.
12. Enter the domain address in the **Domain** field.
13. Enter the installed driver name in the **Model** field.
14. Click the **Enable** toggle key to enable the device to access the printer.
15. Click the **Default** toggle key to set the printer as the default printer.
16. Enter the description for your printer in the **Description** field.
17. Enter the network path where the printer is located in the **Location** field.
18. Click **Save & Publish**.
19. Log in to Dell Hybrid Client.
The configured printer is listed.

Configure the URI printer settings

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Peripheral Management**, and click **Printers**.
6. In the **Printer Connection** section, click **Add Row**.
7. From the **Printer Type** drop-down list, select **URI**.
8. Enter the name of the printer in the **Name** field.

9. Enter the Uniform Resource Identifier (URI) in the **URI** field.
For example, `lpd://uncpath` or `ipaddress/QueueName`.
10. Enter the installed driver name in the **Model** field.
11. Click the **Enable** toggle key to enable the device to access the printer.
12. Click the **Default** toggle key to set the printer as the default printer.
13. Enter the description for your printer in the **Description** field.
14. Enter the network path where the printer is located in the **Location** field.
15. Click **Save & Publish**.
16. Log in to Dell Hybrid Client.
The configured printer is listed.

Configure the custom connection settings


Dell Hybrid Client enables you to create and manage custom connections. You can use Wyse Management Suite to configure the custom connection settings.

Prerequisites

As an administrator, you must install the optional custom connection add-on to create custom connections. To install the custom connection add-on on Dell Hybrid Client, do the following:

1. Go to www.dell.com/support.
2. In the **Enter a Service Tag, Serial Number, Service Request, Model, or Keyword** field, type the model number of your device or type Dell Hybrid Client.
3. Click the product from search results to open the product support page.
4. On the product support page, click **Drivers & downloads**.
5. Select the operating system as **Ubuntu 18.04 LTS**.
6. From the list, locate the custom connection add-on entry and click the download icon.
7. After the add-on is downloaded successfully, use the standard application policy on Wyse Management Suite to deploy the add-on to Dell Hybrid Client. For more information about how to deploy a Standard App Policy, see the *Dell Wyse Management Suite Administrator's Guide* at www.dell.com/support.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Custom Connections**, and click **Custom Connections**.
6. Click **Add Row** and configure the following settings for a single custom connection:
 - a. Enter the connection name to be displayed on Dell Hybrid Client.
 - b. In the Command field, enter the validated shell commands or scripts. The shell commands or scripts run when you click the connection icon on the Dell Hybrid Client desktop.
 **NOTE:** Do not use unknown commands or applications with unknown options for better security.
 - c. Click the **Auto Launch Connection after Logon** toggle key to enable or disable the option. If enabled, the connection is automatically connected after you log in to your Dell Hybrid Client.
 - d. Click the **Auto Reconnect** toggle key to enable or disable the option. If enabled, the connection is automatically reconnected after you disconnect from the session. You must also specify the time duration in seconds to delay the reconnection attempt after a disconnection occurs.
 - e. Browse and upload an icon for the custom connection. You can also choose to use the default icon as the connection icon.
7. To create multiple custom connections, repeat step 6.
8. Click **Save and Publish**.


Next steps

Log in to Dell Hybrid Client and click the custom connection icon on the desktop to launch the session.

Configure the browser shortcut settings

Dell Hybrid Client enables you to create website shortcuts to open your preferred website in a specific web browser. You can use Wyse Management Suite to configure the browser shortcut settings.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
 **NOTE:** The browser shortcuts option is applicable only for user policy groups.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Browser Settings**, and click **Browser Shortcuts**.
6. Click **Add Row** and configure the following settings for a single browser shortcut:
 - a. In the **Shortcut Name** field, enter the name for the website shortcut.
 - b. In the **URL** field, enter a secure URL of the website that you want to access.
 - c. From the **Browser** drop-down list, select a browser on which you want the shortcut to be displayed.
 - d. From the **Window Size** drop-down list, select the window size of the browser shortcut.
 - e. Click the **Auto Launch Shortcut on Logon** toggle key to enable or disable the option. If enabled, the website URL that you specify is automatically launched after you log in to Dell Hybrid Client.
 - f. Click the **Auto Reconnect** toggle key to enable or disable the option. If enabled, the connection automatically reconnects after you close the session.
 - g. Enter the time duration in seconds to delay the reconnection attempt after a disconnection occurs.
7. Browse and upload an icon for the browser shortcut. You can also use the default icon as the browser shortcut icon.
8. To create multiple browser shortcuts, repeat step 6.
9. Click **Save and Publish**.

Multilanguage support

Dell Hybrid Client supports localized user interface to view system menus and local applications such as Device Settings and Dell File Explorer in your preferred language. In the Dell Hybrid Client 1.1 release, the following eight languages are supported:

- French—France
- German
- Italian
- Spanish—Latin America
- Korean
- Chinese Simplified
- Chinese Traditional

Dell Hybrid Client supports the following six locales for Spanish—Latin America:

- Spanish—Argentina
- Spanish—Chile
- Spanish—Colombia
- Spanish—Mexico
- Spanish—Peru
- Spanish—United States

To set your preferred language on Dell Hybrid Client, do the following:

1. Download and install the language add-on using Wyse Management Suite. See, [Download and install language add-ons on Dell Hybrid Client](#).

2. Configure the language settings using Wyse Management Suite. See, [Configure the language settings using Wyse Management Suite](#).

NOTE: When you set a language, only the system local language is changed. Keyboard input language must be selected separately.

Download and install language add-ons on Dell Hybrid Client

Steps

1. Go to www.dell.com/support.
2. In the **Enter a Service Tag, Serial Number, Service Request, Model, or Keyword** field, type the model number of your device or type Dell Hybrid Client.
3. Click the product from search results to open the product support page.
4. On the product support page, click **Drivers & downloads**.
5. Select the operating system as **Ubuntu 18.04 LTS**.
6. From the list, locate the language pack add-on entry and click the download icon.

The following are the language packages that are available for Dell Hybrid Client:

- **Individual Language add-on package**—Localization add-on for Dell Hybrid Client that is available as an individual package file for each supported language.
- **Full Language add-on package**—Localization add-on for Dell Hybrid Client that consists of all the supported language packs in a single package file.

Table 8. Language add-ons

Individual Language add-on	Full Language add-on
Add-on is applicable for all devices that are powered by Dell Hybrid Client.	Add-on is applicable for Dell Hybrid Client-based devices with 32 GB and higher storage capacity.
Deploying the add-on installs only the specific language pack on Dell Hybrid Client.	Deploying the add-on installs all the supported language packs on Dell Hybrid Client.
For a device with 16 GB storage capacity, deploying the add-on uninstalls other languages except English.	Multiple language packs can be installed using Wyse Management Suite.

7. After the add-on is downloaded successfully, use the standard application policy on Wyse Management Suite to deploy the add-on to Dell Hybrid Client. Ensure that you upload the downloaded add-on to the local repository on Wyse Management Suite. For more information about how to deploy a Standard App Policy, see the *Dell Wyse Management Suite Administrator's Guide* at www.dell.com/support.

Next steps

Configure the language settings using Wyse Management Suite. See, [Configure the language settings using Wyse Management Suite](#).

Configure the language settings using Wyse Management Suite


Prerequisites

Ensure that you have installed the required language add-ons on Dell Hybrid Client.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Region & Language Settings**, and click **Language**.

6. From the **Language** drop-down list, select the system language that you want to use for Dell Hybrid Client.
7. If you select the language as **Spanish**, select the locale.
8. If you want to install multiple language packs, select one or more language check boxes from the **Additional language packs** drop-down list.

 **NOTE:** Language add-ons are not uninstalled when you clear the check box selection.

9. Click **Save and Publish**.

Configuring the local settings

You can configure the local settings on the device using the **Device Settings** window. Depending on user—normal user or guest user—some dialog boxes and options are available for use.

NOTE: Any settings that are configured locally on Dell Hybrid Client take precedence over the settings that were configured using Wyse Management Suite.

To access the **Device Settings** window, click the **Show Applications** icon on the desktop screen, and then click **Device Settings**.

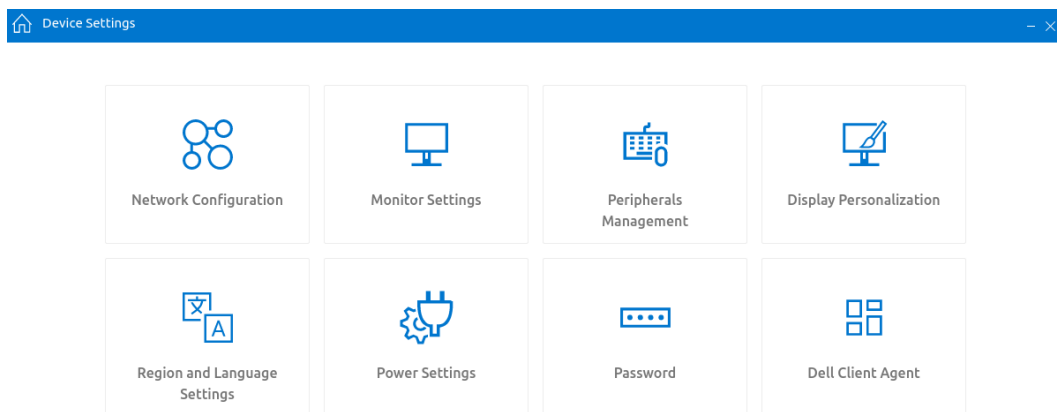


Figure 12. Device Settings

Configure the network settings locally

Use the **Device Settings** window on Dell Hybrid Client to configure the network settings. You can also configure the network settings using Wyse Management Suite.

Steps

1. Log in to the device powered by Dell Hybrid Client.
2. Click the **Show Application** icon on the desktop screen.
The **Applications Overview** screen is displayed.
3. Click the **Device Settings** icon.
The **Device Settings** window is displayed.
4. Click **Network Configuration**.
5. Configure the following network settings based on your requirement:
 - **Ethernet**—Use this option to configure a wired connection.
 - **Auto**—If you configure the Ethernet settings through the DHCP options, the **Auto** toggle key is turned on.

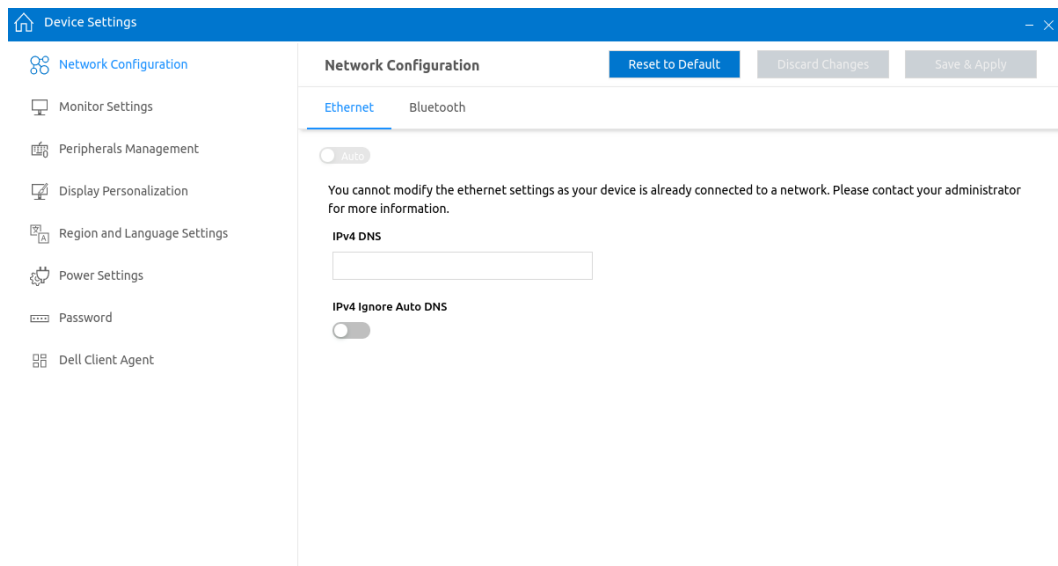


Figure 13. Ethernet settings—Auto

- o **Manual**—If your device is not connected to any network, you can manually create an Ethernet connection. To create an Ethernet connection manually, configure the following options:

- Click the **Manual** toggle key to enable the manual method.
- From the **IPv4 Method** drop-down list, select the type of IPv4 configuration.
- Enter the IP address of the DNS server in the **IPv4 DNS** field.
- Enter the domain for DNS lookups in the **IPv4 DNS** search field.
- Click the **IPv4 Ignore Auto DNS** toggle key to ignore the automatically configured DNS.
- Enter the IP route in the **IPv4 Routes** field.
- Click the **IPv4 Ignore Auto Routes** toggle key to ignore the automatically configured routes.
- Enter the IP address of the connection in the **IPv4 ip4** field.
- Enter the default Gateway in the **IPv4 gw4** field.
- Enter the network mask in the **IPv4 Netmask** field.
- Enter the size of the Maximum Transmission Unit in the **MTU** field.

- **Bluetooth**—Use this option to configure Bluetooth.

Click the **Bluetooth** tab, and do the following:

- a. Click the **Advanced** settings.
- b. Click the **ON/OFF** button to enable or disable Bluetooth.

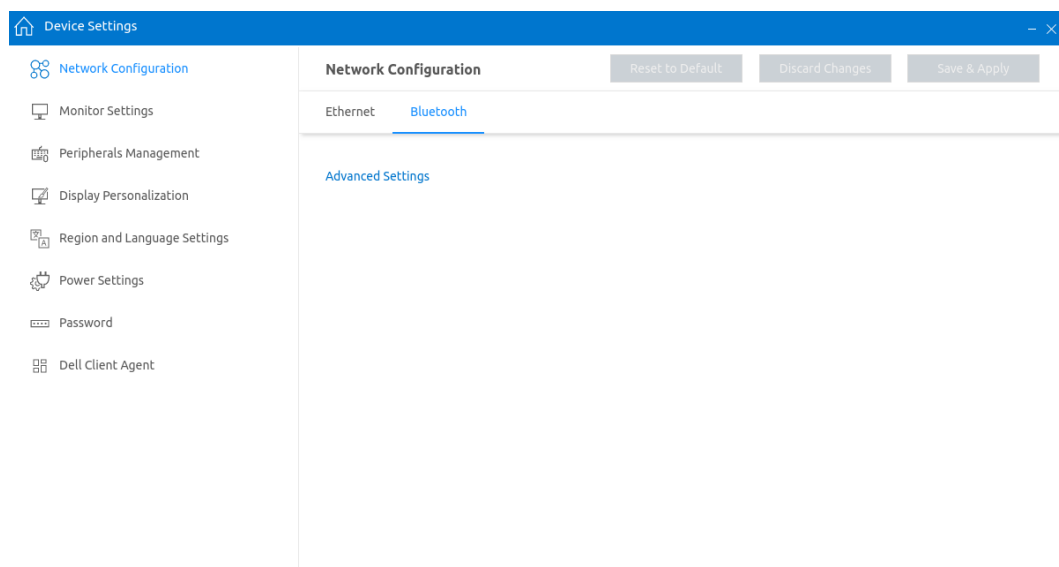


Figure 14. Bluetooth settings

NOTE: Use the **Reset to Default** button to reset your settings to default values. To discard your changes, click the Discard Changes button.

6. Close the application.

Configuring the display settings locally

Use the **Device Settings** window on the Dell Hybrid Client to configure your display settings. You can also configure the display settings using Wyse Management Suite.

Steps

1. Log in to the device powered by Dell Hybrid Client.
2. Click the **Show Application** icon on the desktop screen.
The **Applications Overview** screen is displayed.
3. Click the **Device Settings** icon.
The **Device Settings** window is displayed.
4. Click **Monitor Settings**.
5. Configure the following display settings based on your requirement:
 - a. From the **Primary Monitor Resolution** drop-down list, select a screen resolution for the primary display.
 - b. Click the **Rotation** option, either **Landscape** or **Portrait**.

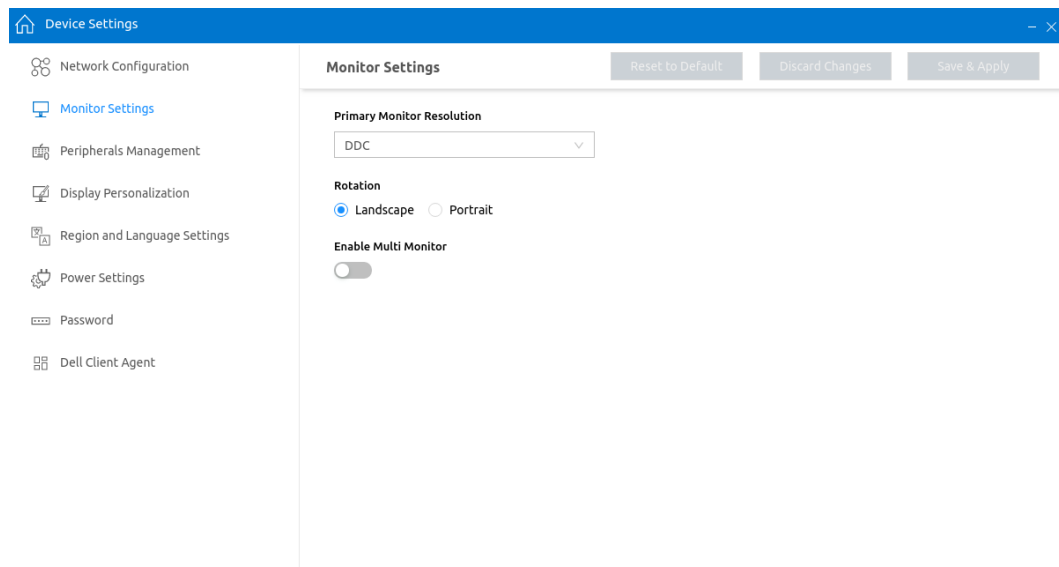


Figure 15. Monitor settings

- c. Click the **Enable Multi Monitor** toggle key to configure the multi-display settings.

If enabled, configure the following options:

- Select one of the following **Display Mode** options:
 - **Span Mode**—Enables you to see all the displays that are spanning as one giant display.
 - **Mirror Mode**—Enables you to see the same screen on multiple displays.
- From the **Monitor Count** drop-down list, select the number of displays that you have connected to the device.
- From the **Secondary Monitor Resolution** drop-down list, select a screen resolution for the second display.
- Select the position of the spanned second display from the following **Span Position** options:
 - **Left**
 - **Right**
 - **Bottom**
 - **Top**
- From the **Multi Monitor Common Resolution** drop-down list, select a common screen resolution for multiple displays. This option is displayed when you select the monitor count as more than 3.

- From the **Multi Monitor Common Rotation** drop-down list, select a common rotation option for multiple displays. This option is displayed when you select the monitor count as more than 3.

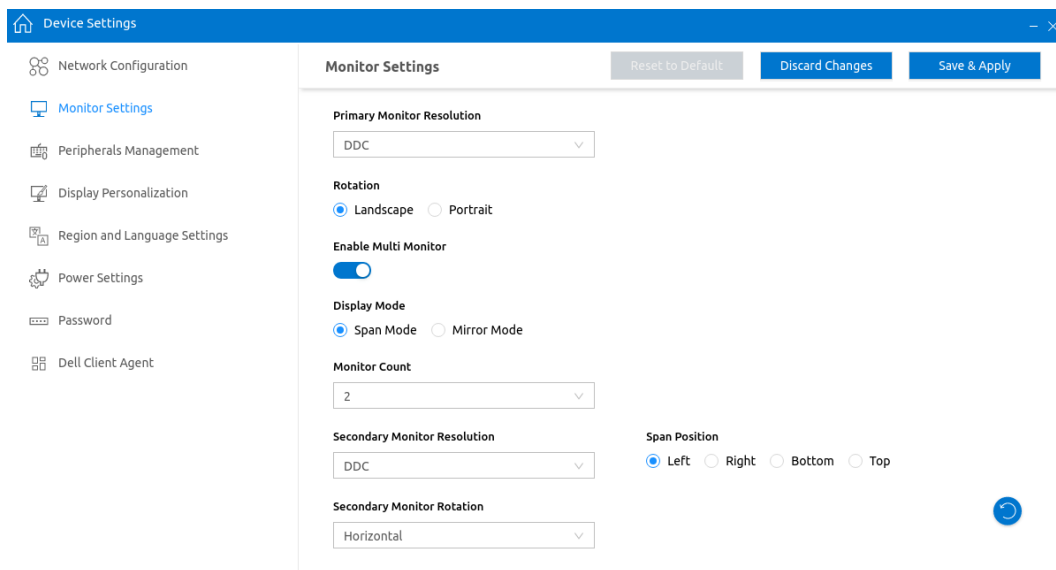


Figure 16. Multi-monitor settings

- Click **Save & Apply**.

NOTE: Use the **Reset to Default** button to reset your settings to default values. To discard your changes, click the **Discard Changes** button.

Configure the peripheral settings locally

Use the **Device Settings** window on the Dell Hybrid Client to configure your peripheral settings. You can also configure the peripherals settings using Wyse Management Suite.

Steps

- Log in to the device powered by Dell Hybrid Client.
- Click the **Show Application** icon on the desktop screen. The **Applications Overview** screen is displayed.
- Click the **Device Settings** icon. The **Device Settings** window is displayed.
- Click **Peripherals Management**.
- Configure the following peripherals settings based on your requirement:

- Keyboard**—Use this option to configure the keyboard settings.

Click the **Keyboard** tab, and configure the following options:

- Move the **Keyboard Repeat Rate** slider to set the keyboard repeat rate. The keyboard repeat rate specifies the speed at which the key repeats itself after you press and hold down a key on the keyboard.
- Move the **Keyboard Repeat Delay** slider to set the time for Repeat Delay. The keyboard repeat delay specifies the pause between pressing a key on the keyboard and when the key starts repeating itself.
- From the **Keyboard Layout** drop-down list, select a keyboard layout. The default value is English (United States).
- Click the **Turn Off Num Lock** toggle key to enable the **Num lock** key on your keyboard. Enabling the Num Lock allows you to use the keypad numeric pad.
- Click the **PrintScreen** toggle key to enable the **Print Screen** key on your keyboard. Enabling the Print Screen allows you to take a screenshot of the whole screen.
- Click **Save & Apply**.

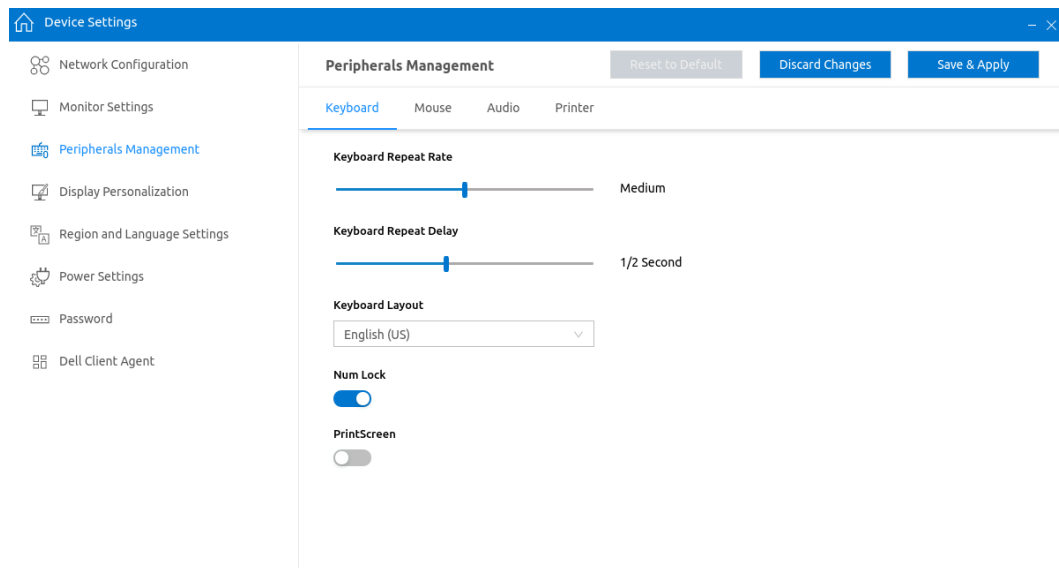


Figure 17. Keyboard settings

NOTE: You can use the **Reset to Default** button to reset your settings to default values. To discard your changes, click the Discard Changes button.

- **Mouse**—Use this option to configure the mouse settings.

Click the **Mouse** tab, and configure the following options:

- Move the **Speed** slider to set the mouse speed. This option enables you to increase or decrease the speed of the mouse cursor movement.
- Click the **Swap** toggle key to swap the left and right mouse buttons for left-handed operations.
- Click the **Reverse Scroll Wheel** toggle key to invert the direction of the mouse scroll wheel.
- Select the size of the local mouse pointer from the following **Pointer Size** options:
 - **Small**
 - **Medium**
 - **Big**
- Click **Save & Apply**.

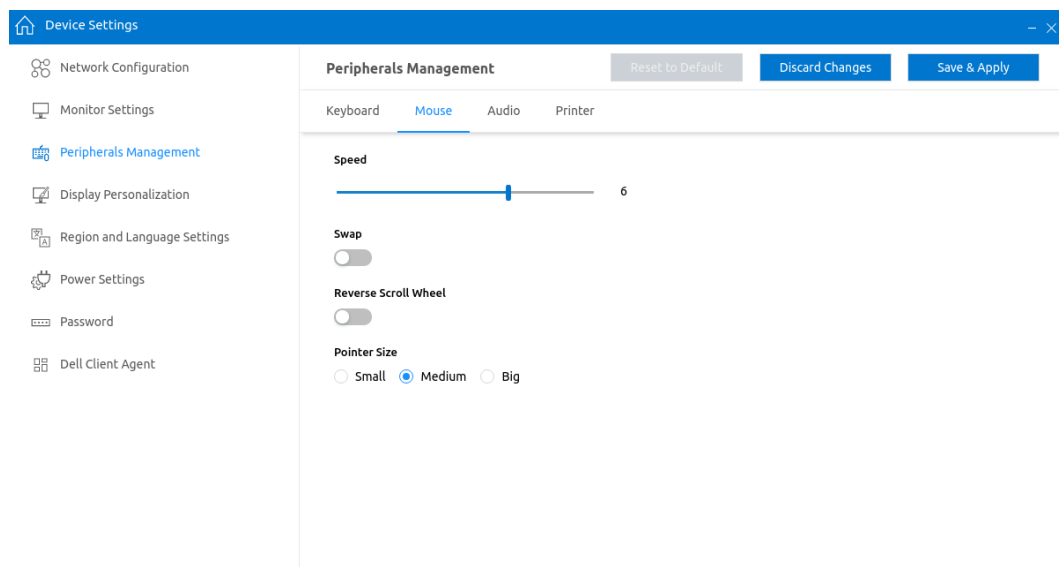


Figure 18. Mouse settings

NOTE: You can use the **Reset to Default** button to reset your settings to default values. To discard your changes, click the Discard Changes button.

- **Audio**—Use this option to configure the audio settings.

Click the **Audio** tab, and then click **Advanced Settings**. You can use the **Sound** settings window of the Ubuntu interface to configure the output, input, sound effects, and applications tab. For more information about how to configure the sound settings, see the *Ubuntu documentation* at help.ubuntu.com.

NOTE: You can use the **Reset to Default** button to reset your settings to default values. To discard your changes, click the Discard Changes button.

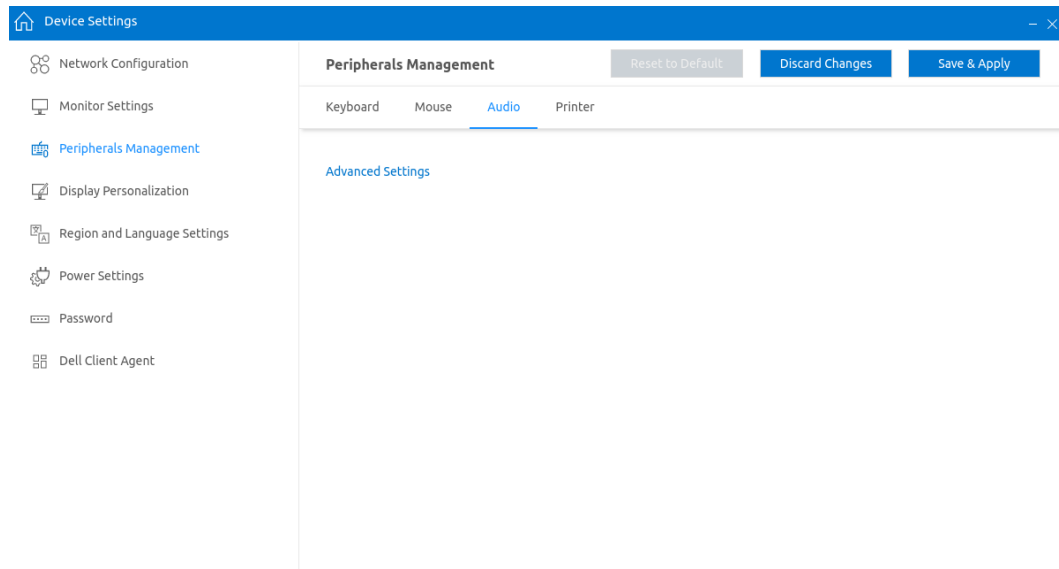


Figure 19. Audio settings

- **Printer**—Use this option to configure the printer settings. Click the **Printer** option, and configure the following options:
 - **Advanced Settings**—Use this option to add a local or network printer.
 - **Additional Printer Settings**—Use this option to configure the printer settings.

You can use the **Printer** settings window of the Ubuntu interface to configure the printer options. For more information about how to configure the printer settings, see the *Ubuntu documentation* at help.ubuntu.com.

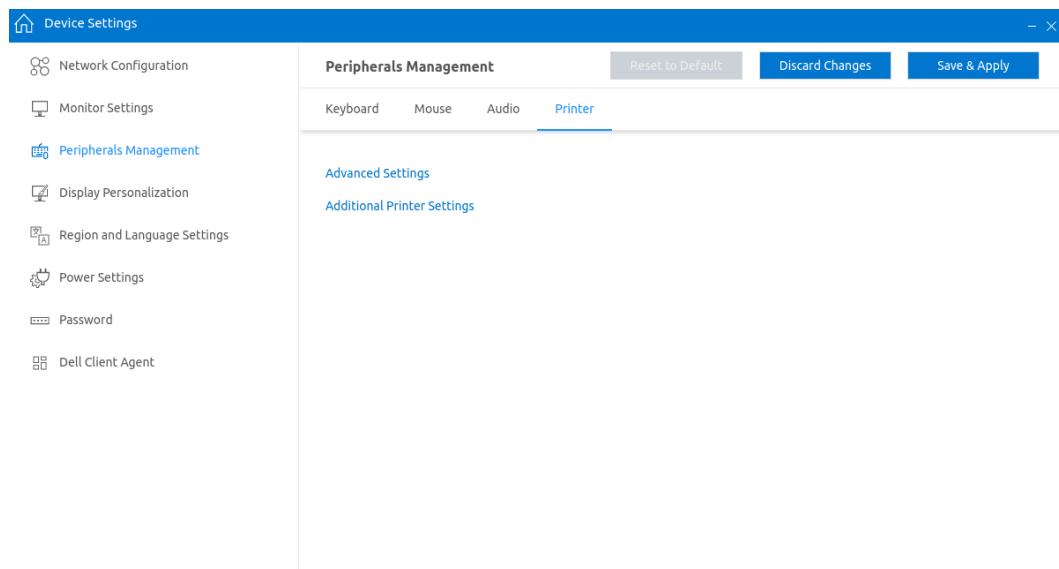


Figure 20. Printer settings

6. Close the application.

Configure the display personalization settings locally

Use the **Device Settings** window on the Dell Hybrid Client to configure your display personalization settings. Display personalization settings enable you to manage the look and feel of your desktop. You can also configure the display personalization using Wyse Management Suite.

Steps

1. Log in to the device powered by Dell Hybrid Client.
2. Click the **Show Application** icon on the desktop screen.
The **Applications Overview** screen is displayed.
3. Click the **Device Settings** icon.
The **Device Settings** window is displayed.
4. Click **Display Personalization**, and configure the following settings:
 - a. From the **Desktop Color** picker, select your desktop color.
 - b. Browse and select a wallpaper to change your desktop background. You must place the image files in the **Downloads** or **Pictures** folder.
 - c. From the **Wallpaper Mode** drop-down list, select a fit option for your wallpaper.
 - d. Use the **Scale** slider to adjust the wallpaper size.
 - e. Use the **Brightness** slider to adjust the desktop brightness.
 - f. Use the **Dock Icon Size** slider to adjust the size of the dock icon
 - g. From the **Dock Position** drop-down list, select the position for the dock icon.
 - h. Click the **Auto Hide Dock** slide switch to automatically hide the dock.
 - i. Click **Save & Apply**.

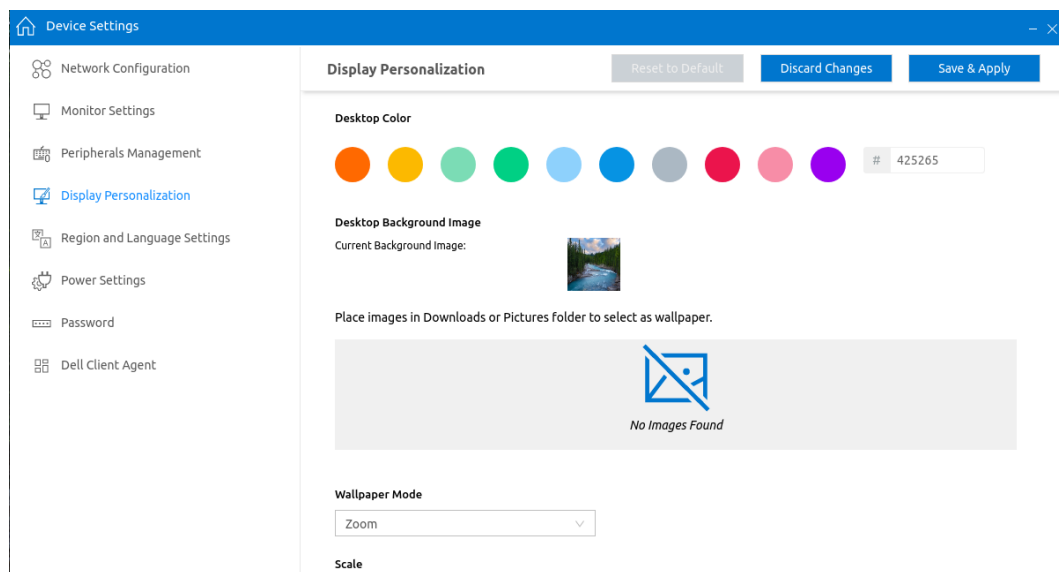


Figure 21. Display Personalization

NOTE: Use the **Reset to Default** button to reset your settings to default values. To discard your changes, click the **Discard Changes** button.

5. Close the application.

Configure the region and language settings locally

Use the **Device Settings** window on Dell Hybrid Client to configure your region and language settings. You can also configure the region and language settings using Wyse Management Suite.

Steps

1. Log in to the device powered by Dell Hybrid Client.
2. Click the **Show Application** icon on the desktop screen.
The **Applications Overview** screen is displayed.
3. Click the **Device Settings** icon.
The **Device Settings** window is displayed.
4. Click **Region and Language Settings**, and configure the following settings:
 - **Region Settings**—Use this option to configure time zone and time format.

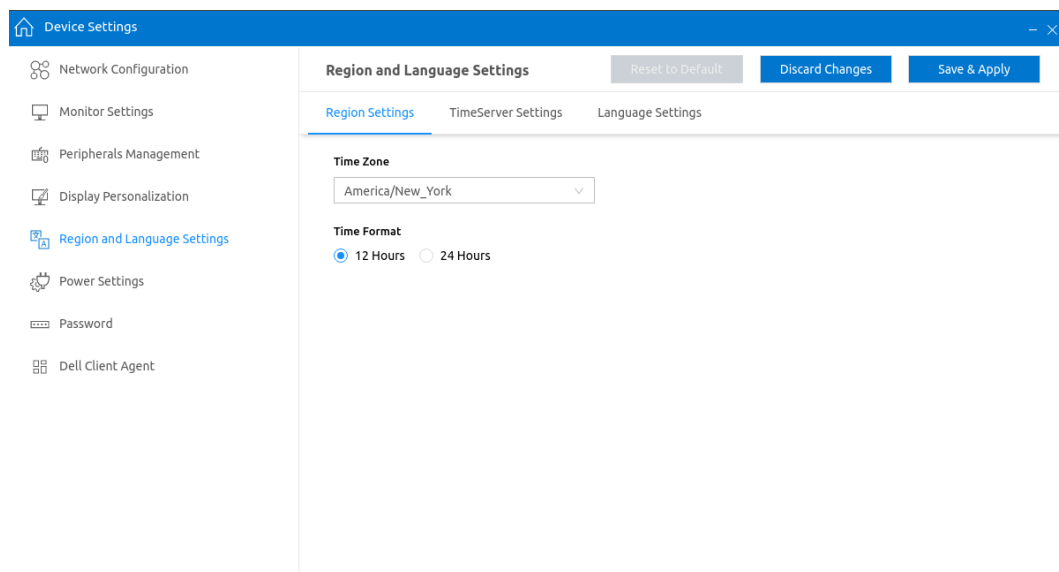


Figure 22. Region settings

Click the **Region Settings** tab, and do the following:

- a. From the **Time Zone** drop-down list, select a time zone to set the time zone for your Dell Hybrid Client.
- b. Select a **Time Format** from the following options:
 - **12 Hours**
 - **24 Hours**
- c. Click **Save & Apply**.

NOTE: Use the **Reset to Default** button to reset your settings to default values. To discard your changes, click the **Discard Changes** button.

- **Time Server Settings**—Use this option to configure the **Time Server Settings** settings.

Click the **Time Server Settings** tab, and do the following:

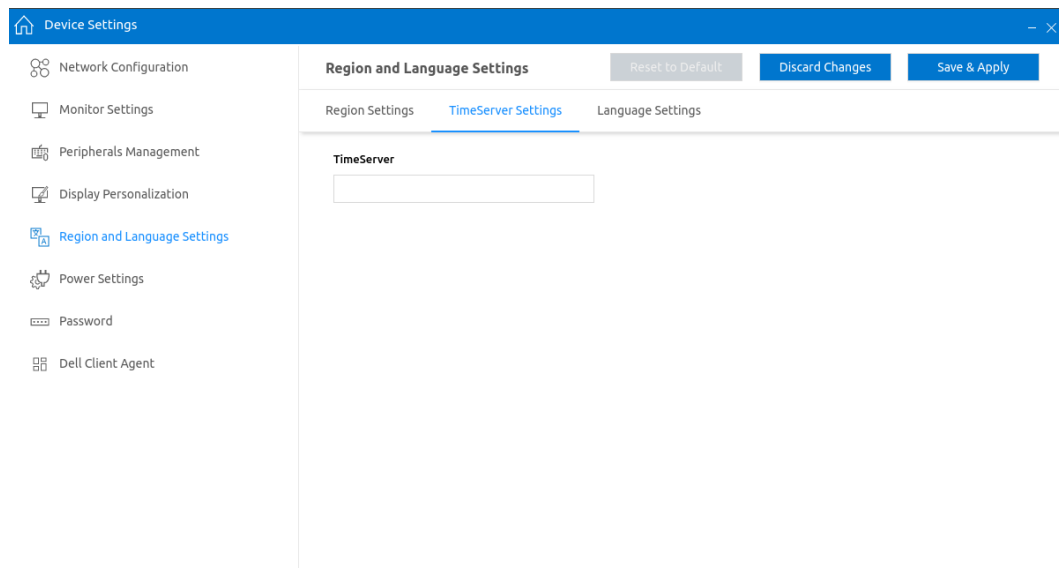


Figure 23. Time server settings

- a. In the **Time Server** field, enter the IP addresses or host names of the time server.
- b. Click **Save & Apply**.

NOTE: Use the **Reset to Default** button to reset your settings to default values. To discard your changes, click the **Discard Changes** button.

- **Language Settings**—Use this option to configure the **Language** settings.

Click the **Language Settings** tab, and do the following:

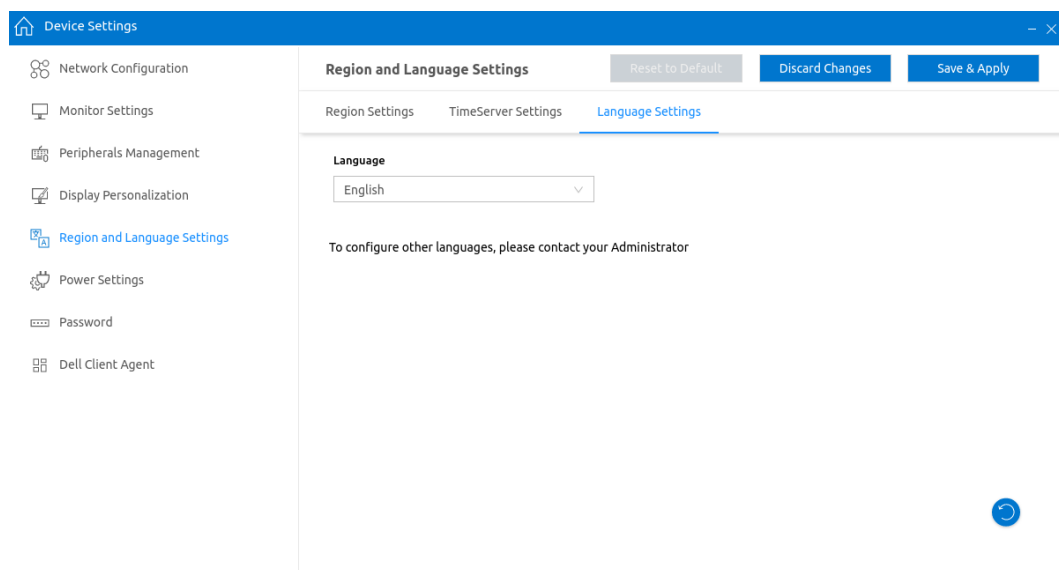


Figure 24. Language settings

- From the **Language** drop-down list, select your preferred language. All language packages that are installed using Wyse Management Suite are listed.
- Click **Save & Apply**.

5. Close the application.

Configure the power settings locally

Use the **Device Settings** window on Dell Hybrid Client to configure the power settings. You can also configure the power settings using Wyse Management Suite.

Steps

1. Log in to the device powered by Dell Hybrid Client.
2. Click the **Show Application** icon on the desktop screen.
The **Applications Overview** screen is displayed.
3. Click the **Device Settings** icon.
The **Device Settings** window is displayed.
4. Click **Power Settings**, and configure the following settings:
 - **Power Saving**—Use this option to configure the **Power Saving** settings.

Click the **Power Saving** tab, and do the following:

- a. Click the **WiFi** toggle key to disable WiFi to save power.
- b. Click **Save & Apply**.

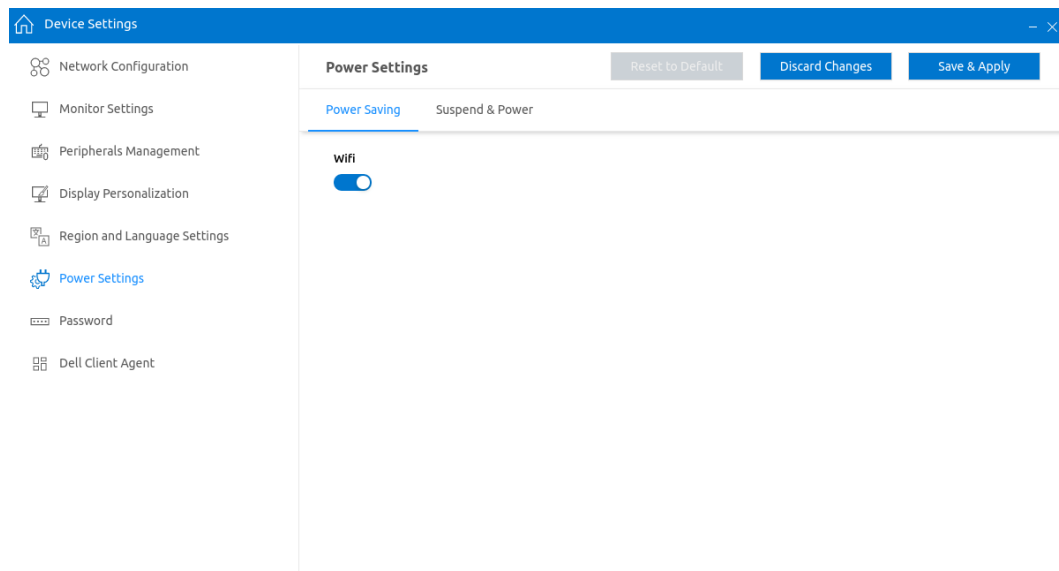


Figure 25. Power Saving

NOTE: Use the **Reset to Default** button to reset your settings to default values. To discard your changes, click the Discard Changes button.

- **Suspend & Power**—Use this option to configure the **Suspend & Power** settings.
Click the **Suspend & Power** tab, and do the following:
 - a. From the **Blank Screen** drop-down list, select the idle time after which the blank screen is to be displayed.
 - b. Click the **Auto Suspend** toggle key to enable the device to enter the power state automatically after the specified idle time.
 - c. From the **Delay** drop-down list, select the time to wait after a period of inactivity.
 - d. From the **Power Button Action**, select the action of the Dell Hybrid Client to be performed after the idle time has elapsed.
 - e. Click **Save & Apply**.

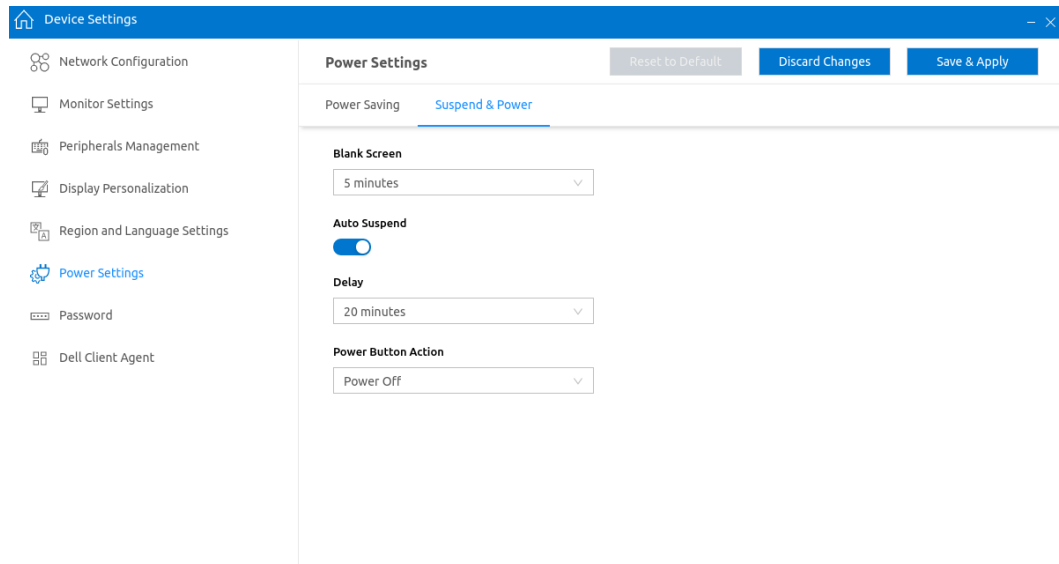


Figure 26. Suspend & Power

NOTE: Use the **Reset to Default** button to reset your settings to default values. To discard your changes, click the **Discard Changes** button.

5. Close the application.

Change the password

Use the **Device Settings** window on the Dell Hybrid Client to change your AD account password.

Steps

1. Log in to the device powered by Dell Hybrid Client.
2. Click the **Show Application** icon on the desktop screen.
The **Applications Overview** screen is displayed.
3. Click the **Device Settings** icon.
The **Device Settings** window is displayed.
4. Click **Password**.
The **Password** window is displayed.

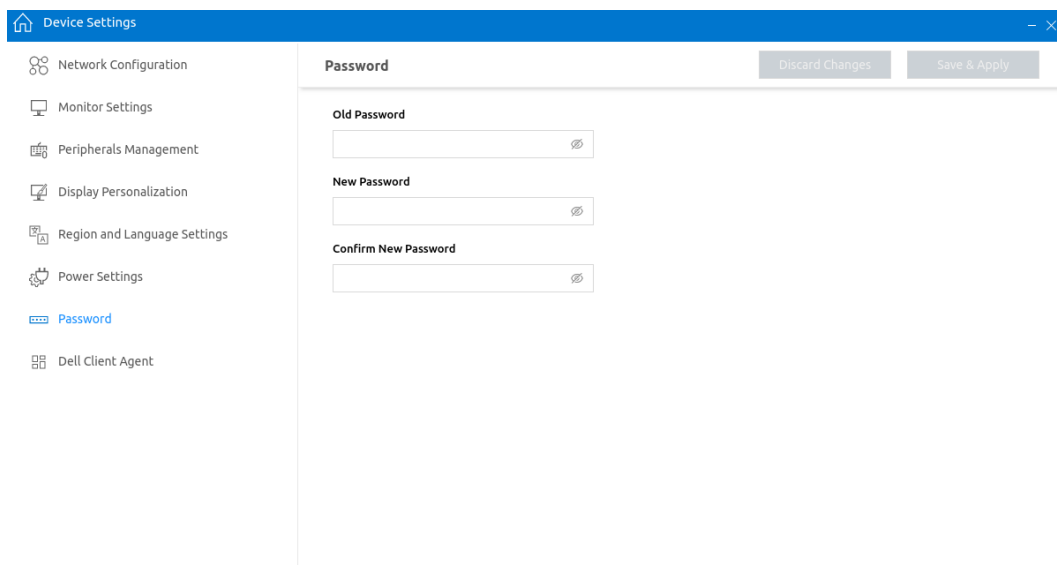


Figure 27. Password

5. Enter the old password.
6. Enter the new password.
7. Confirm the new password.
8. Click **Save & Apply**.

NOTE: To discard your changes, click the Discard Changes button.

Configure the Dell Client Agent (DCA) settings manually

Use the **Device Settings** window to configure Dell Client Agent (DCA) setting that enables you to manually register your Dell Hybrid Client to Wyse Management Suite.

Steps

1. Log in to the device powered by Dell Hybrid Client.
2. Click the **Show Application** icon on the desktop screen.
The **Applications Overview** screen is displayed.
3. Click the **Device Settings** icon.
The **Device Settings** window is displayed.
4. Click **Dell Client Agent**.
The **Dell Client Agent** window is displayed.

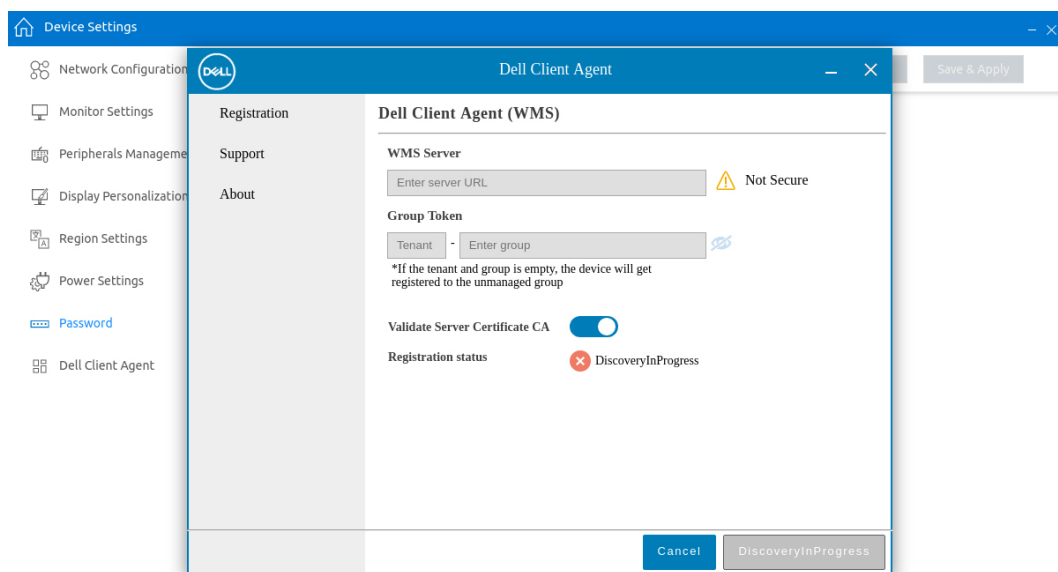




Figure 28. Dell Client Agent

5. Click **Registration**, and do the following:
 - a. To register manually, click the **Cancel** button. The default status is displayed as **Discovery In Progress**.
 - b. In the **WMS Server** field, enter the URL of Wyse Management Suite server.
 - c. In the **Group Token** field, enter your group registration key. The Group Token is a unique key for registering your devices to Groups directly.

NOTE: If the tenant and group are empty, the device is registered to the unmanaged group. However, the group token is mandatory for registering the device to a public cloud.
 - d. Click the **ON/OFF** button to enable or disable the **Validate Server Certificate CA** option. Enable this option to perform server certificate validation for all device-to-server communication.
If a public cloud URL is entered, the CA Validation option is enabled automatically and cannot be disabled.
 - e. Click **Register** to register your device powered by Dell Hybrid Client on the Wyse Management Suite server.

When your device is successfully registered, the status is displayed as **Registered** with the green color tick next to the **Registration Status** label. The caption of the **Register** button changes to **Unregister**.

 **NOTE:** If you want to remove your device from Wyse Management Suite, Click **Unregister**. If **Unregister** fails, the **Force Unregister** confirmation dialog box is displayed. Click **Yes** to forcefully unregister your device from Wyse Management Suite.

 **NOTE:** When you perform **Register**, **Unregister**, or **Force Unregister** from the Agent screen, the applet should not be closed until the **Registration Status** is displayed.

6. Click **Support**, and enable the **Support Mode** option for troubleshooting purpose.
7. Click **About** to view the version of the Dell Client Agent.
8. Close the application.

Configuring the VDI environment

In a Virtual Desktop Infrastructure (VDI) environment, a Broker agent is a software entity that enables you to connect a published desktop. The Broker agent facilitates the VDI environment to securely and efficiently manage the centrally hosted desktop environments.

Dell Hybrid Client supports the following VDI connections, both on-premises and on the cloud:

- Citrix ICA
- VMware Blast, PCoIP, and RDP
- Dell RDP

NOTE: Citrix Workspace App and VMware Horizon Client are released as optional add-ons for Wyse 5070 devices with 16 GB storage capacity. By default, these add-ons are not installed on these devices. Citrix RealTime Media Engine (RTME) is not part of Dell Hybrid Client v1.1 build. You can download the Citrix RTME package from the Citrix website and install the component.

Single Sign-On (SSO) to VDI applications

Dell Hybrid Client supports Single Sign-On (SSO) to VDI applications. It enables you to log in only one time with one set of credentials to get access to all your applications.

- **Citrix SSO**—SSO is supported only when using a Citrix StoreFront connection. SSO is not supported on Citrix PNAgent connections. SSO feature is enabled when you log in to a remote session from the local device. However, SSO is not supported for applications inside the session.

To use the SSO feature, you must enable the following options:

- **Domain Pass-Through**—This option must be enabled in **Store Service > Manager Authentication Methods** on Citrix Studio. For information about the steps to configure Citrix feature for Pass-Through Authentication feature, see *How to Manually Install and Configure Citrix Receiver for Pass-Through Authentication* article (CTX133982) at support.citrix.com.
- **HTTP Basic**—This option must be enabled in **Store Service > Manager Authentication Methods** on Citrix Studio.
- **RDP SSO**—RDP supports SSO. You must create the RDP connection with FQDN, and the device time must be synchronized with the domain time of the RDP server. SSO is supported from Windows 10 1607 and Windows 2016 onwards. However, SSO is not supported for applications inside the session.

To use the SSO feature, you must enable the following options:

- **Windows Defender Remote Credential Guard**—This option must be enabled on the server side. For information about the steps to enable Windows Defender Remote Credential Guard, see the *Enable Windows Defender Remote Credential Guard* article at docs.microsoft.com.
- **Allow log on through Remote Desktop Services**—This option must be enabled in the local security policy. You can access the **Local Security Policy** window using `secpol.msc`.
- **VMware SSO**—Single Sign-On (SSO) is not supported on VMware connections and File Type Association (FTA).

Zoom application plugins for VDI

The Zoom application for VDI is a Unified Communications solution that is offered by Zoom for virtual deployments. It supports enterprise video conferencing and screen sharing on virtual desktops. Zoom offloads media processing from the virtual desktop server to the thin client. All audio and video signals are routed directly between the endpoints. You can use the Zoom application to make and receive calls in the VDI session.

Zoom plugins for VDI are preinstalled on devices with 32 GB or higher storage capacity. **Zoom plugin for VMware** and **Zoom plugin for Citrix** are delivered as optional add-ons for Wyse 5070 devices with 16 GB storage capacity. To download and install the Zoom plugins for VDI, do the following:

1. Go to www.dell.com/support.

2. In the **Enter a Service Tag, Serial Number, Service Request, Model, or Keyword** field, type the model number of your device or type Dell Hybrid Client.
3. Click the product from search results to open the product support page.
4. On the product support page, click **Drivers & downloads**.
5. Select the operating system as **Ubuntu 18.04 LTS**.
6. From the list, locate the Zoom add-on entry and click the download icon.
7. After the add-on is downloaded successfully, use the application policy on Wyse Management Suite to deploy the add-on to Dell Hybrid Client. For more information about how to deploy an application policy, see the *Dell Wyse Management Suite Administrator's Guide* at www.dell.com/support.

For more information about using the Zoom application in VDI, see the *Quick Start Guides* at support.zoom.us.

Configuring Citrix

Citrix offers a complete virtualization solution, where all applications and resources are deployed on a centralized server, and published to remote devices. The Citrix Workspace app client installed on Dell Hybrid Client allows you to interact with the application GUI, while all the application processes are performed on the server.

This section provides information about how to configure a Citrix connection and other Citrix features using Wyse Management Suite.


Dell Hybrid Client supports the following Citrix features that you can configure using Wyse Management Suite:

Table 9. Supported Citrix features

Feature	Description
File Type Association	Establishes the relationship between a file type and a supporting application on the server or the local machine.
Single Sign-On	Enables you to log in to the Citrix store without asking for username, password, and domain locally. The username, password, and domain are deployed from Wyse Management Suite and Citrix uses these credentials to log in to the store or published application.
Smart card Login	Enables you to use a smart card to authenticate the user, and launch the Citrix session.
USB Redirection	Enables the connected USB devices to be redirected from the client device to a Citrix virtual desktop. You can use a wide variety of USB devices in your Citrix session as though the USB devices were physically connected into the session. You can specify the list of USB devices to be allowed based on the Vendor ID, Product ID, Device Class, and Subclass ID.
Client Drive Mapping	Enables you to associate a local drive with a remote session.
COM Port Mapping	Enables you to map the serial device on the server to the serial device on the local device.
Transparent Key Passthrough	Determines how the mapping of certain Windows key combinations is used when connecting to Citrix sessions. When Local is set, the key combinations are applied to the local desktop. When Remote is set, the key combinations are applied to seamless and non-seamless ICA sessions provided windows have the keyboard focus. When Full Screen Only is set, the key combinations are applied to the non-seamless ICA session in full screen mode.
HotKey mapping	Enables you to create key combinations for shortcuts.
UDP audio support	Use User Datagram Protocol (UDP) to support audio in a Citrix session.
Multi-Monitor Support	Use multiple displays in a Citrix session.
H264 Support	Use H.264 video codec to compress graphics during video playback in Citrix session.
Multimedia Redirection	Enables the audio and video to be rendered on the endpoint device instead of running on the server side.
WebPage Redirection or Browser Content Redirection	Enables the web browser content, including HTML5 videos, to be redirected to the client and not redirected on the VDA side. It prevents the rendering of included webpages on the VDA side.
Multistream and HTML5 redirection	Enables you to use the multimedia redirection features of HDX MediaStream to include HTML5 audio and video.

Table 9. Supported Citrix features (continued)


Feature	Description
Middle Button Paste	Enables you to use the mouse's middle button for paste functionality.
Application Name	Specifies the published application or desktop name. The application or desktop name is case-sensitive.
Allow access to microphone and webcam	Enables you to access microphone and webcam inside a Citrix session.
Store Name	Specifies the name of the store through which the connection for the StoreFront server is established.
Compression	Enables you to compress data for better server performance.
Low Bandwidth	Enables optimization for low-speed connections, such as reducing audio quality or decreasing protocol-specific cache size.
Resolution	Specifies the connection display resolution. Seamless option is applicable only for Published Application and Storefront connections.
Encryption	Specifies the connection security level. The highest level is 128-bit security and the lowest level is Basic.
Save MultiMonitor Preference	Enables you to save the position of a desktop session and relaunch it in the same position when using multiple displays.
H.264	Enables H.264 encoding for media packets which are received from the server. This results in better performance for multimedia redirection and webcam redirection.

 **NOTE:** HDX adaptive transport must be disabled in the Citrix server configuration for Multiport to work.

Configure the Citrix broker connection

About this task

This section describes the procedure to configure the connection settings for a Citrix session using Wyse Management Suite.

 **NOTE:** You can also use the default VDI native client on Dell Hybrid Client to configure the VDI session.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Citrix Workspace**, and click **Citrix Broker Session**.
6. In the **Citrix Connection** section, click **Add Row**.

Configuration Control | Hybrid Client

Standard Advanced ⓘ

- Peripheral Management
- Network Configuration
- Browser Settings
- Region Settings
- Personalization
- SignOn
- Privacy & Security
- Power Settings
- Citrix Workspace
 - Citrix Broker Session *
 - Citrix Global Settings
 - Citrix File Type Association *
- VMware viewclient
- RDP
- File Affiliation
- WMS Settings

Citrix Broker Session

Citrix Connection Add Row

▼ Citrix Connection 1 ⓘ

Citrix Connection

Connection Name *

Connection Type StoreFront ⓘ

Browsing Protocol SSL/TLS + HTTPS ⓘ

Host *

Store Name ⓘ

Application Name ⓘ

Resolution Full Screen ⓘ

Encryption Basic ⓘ

Compression ⓘ

Low Bandwidth ⓘ

Figure 29. Citrix broker session

- Configure the Citrix session options as per your requirement.
- Click **Save & Publish**.

Configure the global Citrix settings

About this task

This section describes the procedure to configure the global connection settings for Citrix using Wyse Management Suite.

Steps

- Log in to Wyse Management Suite.
- Go to the **Groups & Configs** page, and select your preferred group.
- Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
- Click the **Advanced** tab.
- Expand **Citrix Workspace**, and click **Citrix Global Settings**.

Configuration Control | Hybrid Client

Standard Advanced ⓘ

- Peripheral Management
- Network Configuration
- Browser Settings
- Region Settings
- Personalization
- SignOn
- Privacy & Security
- Power Settings
- Citrix Workspace
 - Citrix Broker Session
 - Citrix Global Settings *
 - Citrix File Type Association *

Smartcard Settings

Smartcard Login ⓘ

Local Resources And USB Redirection

Allow access to microphone and webcam ⓘ

HDX WebCam Device ⓘ

Enable USB Redirection For All Devices ⓘ

COMPort Mapping Add Row

Client Drive Mapping

Dynamic Drive Mapping ⓘ

Dynamic Folder Mapping ⓘ

Local File Access ⓘ

Figure 30. Citrix Global Settings

- Configure the following Citrix global settings as per your requirement:

- **Smartcard Settings**
- **Local resources and USB redirection**
- **Client Drive Mapping**
- **Hotkey Settings**
- **Hotkey Mapping**
- **Advanced Session Settings** such as **Save MultiMonitor Preference**, **H.264**, **Multimedia Redirection**, **WebPage Redirection**, **MultiStream**, and **Middle Button Paste**.

7. Click **Save & Publish**.

Connect to a Citrix session

Citrix offers a complete virtualization solution, where all applications and resources are deployed on a centralized server, and published to remote devices. Dell Hybrid Client integrates the Citrix Workspace app. Citrix Workspace app enables you to access all your virtual apps, desktops, and other Citrix products from a single workspace UI.

Prerequisites

- Ensure that you have configured the Citrix Broker agent settings using Wyse Management Suite. For more information about Dell Hybrid Client policy settings, see [Managing the Dell Hybrid Client policy settings](#).
- Ensure that you have installed valid certificates that are required to connect to Citrix Virtual Desktops and Apps. For more information about installing certificates, see [Install a certificate](#).

Steps

1. Log in to Dell Hybrid Client.
2. Click the **Show Applications** icon on the desktop screen.
All the Citrix-published desktops and applications are displayed.
3. Click a desktop icon to launch the published desktop, or click an application icon to launch an application.

NOTE: You can launch a Citrix session from the Firefox browser. The desktop or the application file is downloaded and is launched from the browser. You cannot launch the Citrix session from the Chrome browser.

Configuring VMware

VMware virtualization enables you to run multiple virtual machines on a single physical machine. VMware Horizon Client is a locally installed software application that communicates between View Connection Server and Dell Hybrid Client. It provides access to centrally hosted virtual desktops from your Dell Hybrid Client.

This section provides information about how to configure a VMware connection and other VMware features using Wyse Management Suite.

Dell Hybrid Client supports the following VMware features that you can configure using Wyse Management Suite:

Table 10. Supported VMware features

Feature	Description
PCoIP, RDP, and Blast protocol support	Specifies the communication protocol that is used to display the VMware desktop.
Non-Interactive Mode	Specifies the mode of connection launch. The noninteractive mode is disabled, it displays all the published application and desktop icons after a successful connection to the server. You can start the applications or desktop sessions based on your choice.
Published Application	Enables you to open a published application from the VMware cloud or server. If disabled, the device connects to a remote desktop session.
Reconnect Application Mode	Enables you to reconnect the last opened application if the VMware session gets disconnected abruptly. The Reconnect Application Mode option is applicable only for PCoIP and BLAST.
Window Resolution	Enables you to set a window resolution for the VMware desktop session.


Table 10. Supported VMware features (continued)

Feature	Description
Auto-Connect USB on Insert	Enables you to automatically connect your USB drive to the device after you plug-in the USB drive.
Automatically Connect USB at Startup	Enables you to automatically connect your USB drive to the device when you start the system.
Client Driver Mapping	Enables you to associate a local drive with the remote session.
Access Removable Storage	Enables you to permit access to use removable storage devices.
USB Redirection	USB Redirection allows the connected USB devices to be redirected from client machines to VMware virtual desktops. You can use a wide variety of USB devices in your VMware session as though the USB devices were physically connected into the session. You can specify the list of USB devices to be allowed based on the Vendor ID, Product ID, Device Class, and Subclass ID.
File Type Association	Establishes the relationship between a file type and a supporting application on the server or the local machine.
Lock Server URL/Host Field	Enables you to lock or unlock the server URL or host field.
Unauthenticated Access	Specifies whether the Horizon client should attempt to log in anonymously to the server.
Desktop Name	Specifies the VMware published desktop name.
Minimized Mode	Enables you to launch a desktop or an application in minimized mode.
Security Mode	Enables you to define the security mode
UDP	Enables the User Datagram Protocol (UDP) communications protocol for VMware.
Auto Hide Toolbar	Enables you to automatically hide the toolbar in the VMware session window.
Full screen Mode for VMware Connection Window	Enables you to launch the VMware connection window in the full screen mode.
Full screen Drop-down Menu Bar	Specifies whether the drop-down menu bar should be enabled in the full screen mode.
Exit On Disconnect	Specifies whether the Horizon server should not retry connecting if there is a connection error.

Configure the VMware Broker connection

About this task

This section describes the procedure to configure the connection settings for a VMware session using Wyse Management Suite.

 **NOTE:** You can also use the default VDI native client on Dell Hybrid Client to configure the VDI session.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **VMware viewclient**, and click **VMware ViewClient Broker Session**.
6. In the **VMware Connection** section, click **Add Row**.

Configuration Control | Hybrid Client

Standard
Advanced ⓘ

Peripheral Management
Network Configuration
Browser Settings
Region Settings
Personalization
SignOn
Privacy & Security
Power Settings
Citrix Workspace
VMware viewclient
VMware ViewClient Broker Session *

VMware ViewClient Broker Session
Add Row

VMware Connection 1 ⓘ

VMware Connection

Connection Name

*

ⓘ

Host

*

ⓘ

Lock Server URL/Host Field

☒ ⓘ

Username

ⓘ

Password

🔑 ⓘ

Domain

ⓘ

Figure 31. VMware View Client Broker Session

- Configure the VMware session options as per your requirement.
- Click **Save & Publish**.

Configure the global VMware settings

About this task

This section describes the procedure to configure the global connection settings for VMware using Wyse Management Suite.

Steps

- Log in to Wyse Management Suite.
- Go to the **Groups & Configs** page, and select your preferred group.
- Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
- Click the **Advanced** tab.
- Expand **VMware viewclient**, and click **VMware Global Settings**.

Configuration Control | Hybrid Client

Standard
Advanced ⓘ

Peripheral Management
Network Configuration
Browser Settings
Region Settings
Personalization
SignOn
Privacy & Security
Power Settings
Citrix Workspace
VMware viewclient
VMware ViewClient Broker Session *
VMware Global Settings

VMware Global Settings

Enable USB Redirection

For All Devices ⓘ

Figure 32. VMware Global Settings

- Configure the **USB Redirection** settings.

By default, the USB redirection is enabled for all devices. You can specify the list of USB devices to be allowed based on the Vendor ID, Product ID, Device Class, and Subclass ID.

7. Click **Save & Publish**.

Connect to a VMware session

VMware virtualization provides hosted desktops and applications through a single platform to end users. VMware Horizon Client is a locally installed software application that communicates between View Connection Server and Dell Hybrid Client. It provides access to centrally hosted virtual desktops from your Dell Hybrid Client.

Prerequisites

Ensure that you have configured the VMware View Client Broker agent settings using Wyse Management Suite. For more information about Dell Hybrid Client policy settings, see [Configure the VMware Broker connection](#).

Steps

1. Log in to Dell Hybrid Client.
2. Click the **Show Applications** icon on the desktop screen.
All the VMware desktops and applications are displayed.
3. Click a desktop icon to launch the published desktop, or click an application icon to launch an application.

Configuring RDP

Dell RDP allows you to access and manage the data and resources of a remote device using an Internet connection.

This section provides information about how to configure an RDP connection and other Dell RDP features using Wyse Management Suite.

Dell Hybrid Client supports the following Dell RDP features that you can configure using Wyse Management Suite:

Table 11. Supported Dell RDP features

Feature	Description
Single Sign-On support	Enables you to log in to a remote desktop session without asking for username, password, and domain locally.
RD Gateway support	Enables you to access remote applications from a web browser when connected to an internal network.
Remote Application	Enables you to access remote applications in an RDP session.
Wallpaper	Enables you to change the wallpaper in an RDP session.
Font Smoothing	Enables font smoothing for remote connections. When you enable this option, fonts appear clear and smooth on the remote desktop.
Menu And Animation	Enables animation for menus and windows on the remote desktop.
Grab Keyboard Events	Enables all keyboard events within the connection window to be sent to the connection applications.
Low Bandwidth	Enables you to handle the network performance based on the network bandwidth.
Window Resolution	Enables you to set a window resolution for the desktop session.
Sound redirection	Enables you to redirect the sound to a local or a remote session.
Color Depth	Enables you to specify the session color mode.
Drive Mapping	Enables you to associate a local drive with the remote session.
Default RDP icon	Enables you to connect to a remote desktop or to use a published application from the desktop that is not configured from Wyse Management Suite.


Table 11. Supported Dell RDP features (continued)

Feature	Description
Server Authentication Level	Server authentication verifies that you are connecting to the intended remote system. The strength of verification required to connect is determined by the option selected— Connect and Don't warn me , Warn me , and Do not connect .
File Type Association	Establishes the relationship between a file type and a supporting application on the server or the local machine.

Configure the RDP broker connection

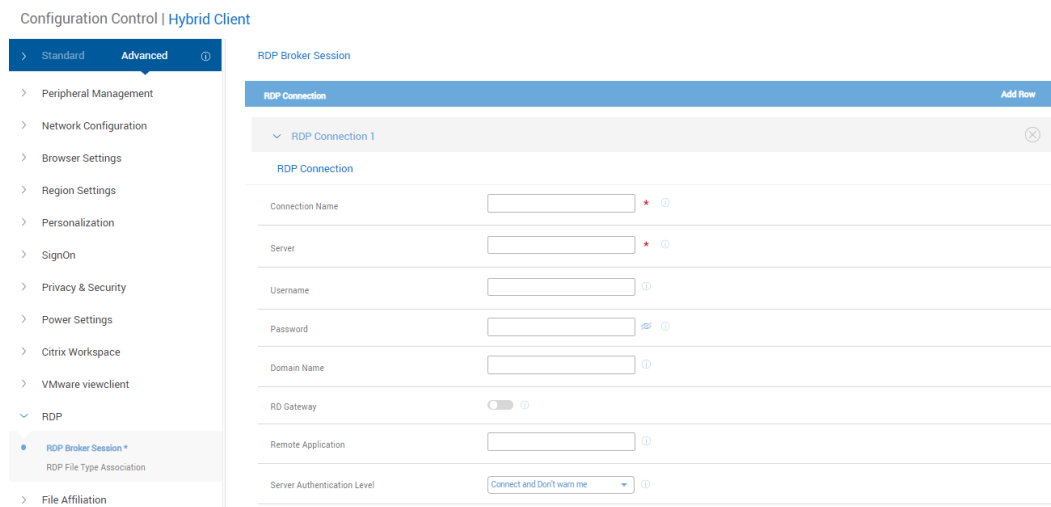
About this task

This section describes the procedure to configure the connection settings for a RDP session using Wyse Management Suite.

 **NOTE:** You can also use the default VDI native client on Dell Hybrid Client to configure the VDI session.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **RDP**, and click **RDP Broker Session**.
6. In the **RDP Connection** section, click **Add Row**.



The screenshot shows the 'Configuration Control | Hybrid Client' interface. On the left, a sidebar lists various configuration categories: Standard, Advanced (selected), Peripheral Management, Network Configuration, Browser Settings, Region Settings, Personalization, SignOn, Privacy & Security, Power Settings, Citrix Workspace, VMware viewclient, RDP (expanded), RDP Broker Session* (selected), RDP File Type Association, and File Affiliation. The main panel is titled 'RDP Broker Session' and contains a table with one row, 'RDP Connection 1'. Below the table, the configuration fields for 'RDP Connection' are displayed: Connection Name, Server, Username, Password, Domain Name, RD Gateway (toggle), Remote Application, and Server Authentication Level (dropdown menu set to 'Connect and Don't warn me').

Figure 33. RDP broker session

7. Configure the RDP session options as per your requirement.
8. Click **Save & Publish**.

Connect to an RDP session

Using Remote Desktop application, you can access and manage the data and resources of a remote device using an Internet connection. Dell Hybrid Client supports Single-Sign On (SSO) to RD web.

Prerequisites

Ensure that you have configured the RDP Broker agent settings using Wyse Management Suite. For more information about Dell Hybrid Client policy settings, see [Managing the Dell Hybrid Client policy settings](#).

Steps

1. Log in to Dell Hybrid Client.
2. Click the **Show Applications** icon on the desktop screen.
All RDP desktops are displayed.
3. Click a desktop icon to launch the RDP desktop.

Connect to an RDP session using TS Gateway with WebSocket

WebSocket provides a mechanism for fast, secure two-way communication between a client and a server over the web using HTTP(S). The WebSocket protocol enables two-way communication between the browser-based applications and the servers that do not rely on the multiple HTTP connections. The protocol consists of a handshake followed by basic message framing, layered over Transmission Control Protocol (TCP). The data is transferred immediately over a full-duplex single socket connection, allowing messages to be sent and received from both endpoints in real time.

Prerequisites

Enable Terminal Services Gateway (TSGW) and WebSocket protocol for the applications and desktops from the RDS server.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **RDP**, and click **RDP Broker Session**.
6. Click **Add Row**.

Configuration Control | Hybrid Client

Standard Advanced ⓘ

Peripheral Management

Network Configuration

Browser Settings

Region Settings

Personalization

SignOn

Privacy & Security

Power Settings

Citrix Workspace

VMware viewclient

VMware View/Client Broker Session *

VMware Global Settings

VMware File Type Association *

RDP

RDP Broker Session *

RDP File Type Association *

RDP Broker Session

RDP Connection Add Row

▼ RDP Connection 1 ⓘ

RDP Connection

Connection Name ⓘ *

Server ⓘ *

Username ⓘ

Password ⓘ

Domain Name ⓘ

RD Gateway ⓘ ☒

RD Gateway Server ⓘ *

RD Username ⓘ

RD Password ⓘ

RD Domain ⓘ

Figure 34. RD Gateway settings

7. In the **RDP Connection** section, do the following:
 - a. Click the **RD Gateway** toggle key to enable RD Gateway.
 - b. In the **RDP Gateway Server** field, enter the RD Gateway host address.
 - c. Specify the RDP username, password, and domain.
8. Click **Save & Publish**.
9. Log in to Dell Hybrid Client.
10. Connect to an RDP desktop.
In the TSG server, there is only one entry from the client with TCP port to send and receive information.

Logging in to a VDI session with a smart card

Dell Hybrid Client supports the smart card authentication to log in to the Citrix or VMware session. It enables you to use a smart card to authenticate the user, and launch the respective VDI sessions. Smart card authentication is supported on Citrix and VMware sessions.

Prerequisites

- Ensure that you have enabled the smart card login option and defined the smart card type on Wyse Management Suite, for connecting to a Citrix session. Also, ensure that you configured the smart card authentication option on the StoreFront server. The smart card authentication is not applicable for PNAgent connections.
- Ensure that you have configured the Smart Card Authentication on Horizon Connection Server, for connection to a Horizon session.

Steps

1. Turn on the device powered by Dell Hybrid Client.
2. Log in as AD user.
3. Connect a supported smart card reader to the device.
4. Tap your card on the smart card reader.
5. Enter the smart card PIN to authenticate the user.
Dell Hybrid Client authenticates the user and starts the VDI connection.

Install a certificate

Use Wyse Management Suite to install server and client certificates that are required in your work environment. When you import a certificate, it is also imported into the Firefox and Chrome keystores. However, Chrome requires the certificate to have a SAN value for the import to succeed.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Privacy & Security**, and click **Certificate**.

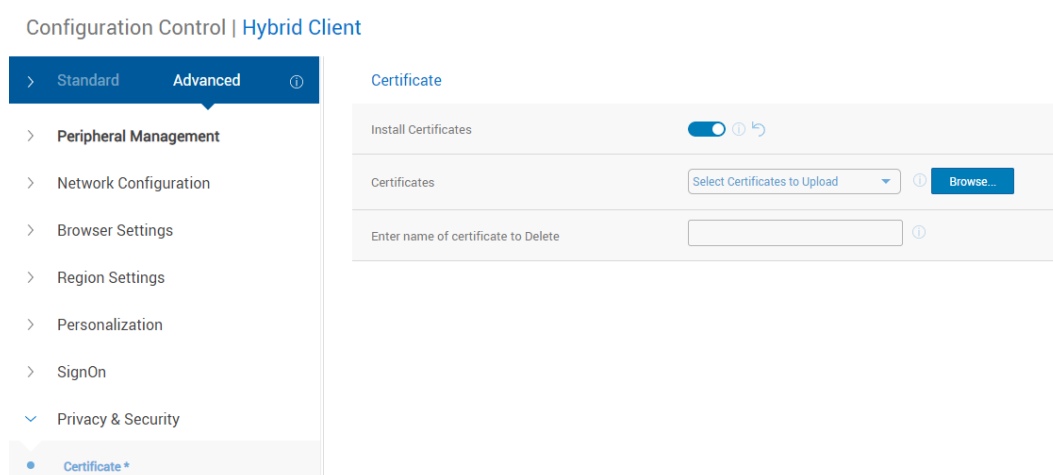


Figure 35. Certificate settings

6. Click the **Install Certificates** toggle key to enable the automatic installation of certificates.
7. Browse and select the certificates that you want to upload.

All the uploaded certificates are listed in the **Select Certificates to Upload** drop-down list.

8. From the **Select Certificates to Upload** drop-down list, select one or more certificates to install based on your requirement.
9. Click **Save & Publish**.
Certificates are automatically installed on the client.

File Type Association

A File Type Association (FTA) is a correlation between a file type and an application. File types are determined by a file name extension. For example, .docx, .pptx, .txt, .png, .xlsx, and so on. Dell Hybrid Client supports the file type association for Citrix, VMware, and RDP VDI applications. To open local files or network shared files using VDI applications, you must configure the FTA settings and set the File Affiliation for VDI mode using Wyse Management Suite.

Configure the File Type Association for Citrix

Dell Hybrid Client supports the file type association for Citrix VDI applications. Extensions and application names that are configured from the Citrix server are fetched automatically during login. You must configure the File Affiliation settings for VDI mode. When you launch a file from File Explorer, the VDI application that supports the file type opens the file automatically.

Prerequisites

Ensure that the Citrix server has published applications for which you can set file type association.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Citrix Workspace > Citrix File Type Association**.
6. In the **Citrix File Type Association Configuration** section, click **Add row**.

NOTE: File Type Association settings are independent of the Citrix Broker settings. Both the FTA and broker settings must be configured separately based on your requirement. If FTA is configured, you can access files from Dell File Explorer.

The screenshot shows the 'Configuration Control | Hybrid Client' interface. On the left is a navigation menu with tabs for 'Standard' and 'Advanced'. Under 'Advanced', several categories are listed: Peripheral Management, Network Configuration, Browser Settings, Region Settings, Personalization, SignOn, Privacy & Security, Power Settings, and Citrix Workspace. The 'Citrix Workspace' category is expanded, showing 'Citrix Broker Session *', 'Citrix Global Settings', and 'Citrix File Type Association *'. The 'Citrix File Type Association' section is selected, displaying the 'Citrix File Type Association Configuration' table. The table has a header row with 'Citrix File Type Association Configuration' and an 'Add Row' button. Below the header, there is a row for 'Citrix File Type Association Configuration 1'. The configuration details for this row are shown in a form with two fields: 'Host' and 'Store Name'. The 'Host' field has a red asterisk and an information icon, indicating it is a required field. The 'Store Name' field has an information icon.

Figure 36. Citrix File Type Association

7. In the **Host** field, enter the StoreFront URL.

Examples—<https://citrix.customer.local>, <https://citrix.customer.local/citrix/store>, or <https://citrix.customer.local/citrix/store/discovery>.

- In the **Store Name** field, specify the name of the store through which the StoreFront server connection is established.
- Click **Save and Publish**.

Next steps

Configure the File Affiliation for VDI mode. For more information, see [File Affiliation](#).

Configure the File Type Association for VMware

Dell Hybrid Client supports the file type association for VMware VDI applications. As an administrator, you must provide file extensions and respective application names for VMware FTA settings using Wyse Management Suite. You must also configure the File Affiliation settings for VDI mode. When you launch a file from Dell File Explorer, the VDI application that supports the file type opens the file automatically.

Prerequisites

Ensure that the Citrix server has published applications for which you can set file type association.

Steps

- Log in to Wyse Management Suite.
- Go to the **Groups & Configs** page, and select your preferred group.
- Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
- Click the **Advanced** tab.
- Expand **VMware viewclient > VMware File Type Association**.
- In the **VMware File Type Association Configuration** section, click **Add row**.

NOTE: File Type Association settings are independent of the VMware Broker settings. Both the FTA and broker settings must be configured separately based on your requirement. If FTA is configured, you can access files from Dell File Explorer.

The screenshot shows the 'Configuration Control | Hybrid Client' interface. On the left is a navigation pane with tabs for 'Standard' and 'Advanced'. Under 'Advanced', several categories are listed, including 'VMware viewclient', which is expanded to show 'VMware ViewClient Broker Session *', 'VMware Global Settings', and 'VMware File Type Association *'. The main area is titled 'VMware File Type Association' and contains a table for 'VMware File Type Association Configuration'. The table has one row, 'VMware File Type Association Configuration 1', which is expanded to show a form. The form fields are: 'Host' (text input), 'Username' (text input), 'Password' (password input with an eye icon), 'Domain' (text input), 'Protocol' (dropdown menu with 'PCoIP' selected), and 'File Type Association configuration' (text input with a placeholder 'extension1.app name, extension2.app na'). Each field has a red asterisk and an information icon.

Figure 37. VMware File Type Association

- In the **Host** field, enter the server name or the IP address.
- In the **Username** field, enter the name of the user to connect to the application server.
- In the **Password** field, enter the password that is required to log in to the application server.
- In the **Domain** field, enter the domain name in a Windows network where the VMware server is located.
- From the **Protocol** drop-down list, select the preferred connection protocol—**PCoIP** or **Blast**.

12. In the **File Type Association configuration** field, enter the application name with extension.

You can add single or multiple entries. Use the format `extension1: application name, extension2: application name` to specify your application names. For example, `.docx:microsoft word 2010, .pptx:microsoft powerpoint 2010`.

13. Click **Save and Publish**.

Next steps

Configure the File Affiliation for VDI mode. For more information, see [File Affiliation](#).

Configure the File Type Association for RDP

Dell Hybrid Client supports the file type association for RDP applications. Extensions and application names that are configured from the RDP Broker agent server are fetched automatically during login. You must configure the File Affiliation settings for VDI mode. When you launch a file from File Explorer, the VDI application that supports the file type opens the file automatically.

Prerequisites

Ensure that the VDI Broker agent server has published applications for which you can set file type association.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **RDP > RDP File Type Association**.
6. In the **RDP File Type Association Configuration** section, click **Add row**.

NOTE: File Type Association settings are independent of the RDP Broker settings. Both the FTA and broker settings must be configured separately based on your requirement. If FTA is configured, you can access files from Dell File Explorer.

The screenshot shows the 'Configuration Control | Hybrid Client' interface. On the left is a navigation menu with tabs for 'Standard' and 'Advanced'. Under 'Advanced', there are several expandable sections: 'Peripheral Management', 'Network Configuration', 'Browser Settings', 'Region Settings', 'Personalization', 'SignOn', 'Privacy & Security', 'Power Settings', 'Citrix Workspace', 'VMware viewclient', and 'RDP'. The 'RDP' section is expanded, showing 'RDP Broker Session *' and 'RDP File Type Association *'. The 'RDP File Type Association *' section is selected, displaying the 'RDP File Type Association Configuration' page. This page has a title bar with 'RDP File Type Association Configuration' and an 'Add Row' button. Below the title bar is a section titled 'RDP File Type Association Configuration 1' with a close button. Under this section is the 'RDP File Type Association' configuration area, which includes fields for 'Server', 'Username', 'Password', and 'Domain Name', each with a help icon. There is also a 'RD Gateway' toggle switch.

Figure 38. RDP File Type Association

7. In the **Server** field, enter the server name or the IP address.
8. In the **Username** field, enter the name of the user to connect to the application server.

NOTE: Single Sign-On works by default. Username, password, and domain must be entered only when you are accessing RDP from Internet where SSO is not supported.

9. In the **Password** field, enter the password that is required to log in to the application server.
10. In the **Domain** field, enter the domain name.
11. To enable RD Gateway, click the **RD Gateway** toggle key. This option enables authorized user to connect to resources in internal network.
 - a. In the **RD Username** field, enter the name of the RD user to connect to the RD Gateway server.
 - b. In the **RD Password** field, enter the password that is required to log in to the RD Gateway server.
 - c. In the **RD Domain** field, enter the RD domain name.
12. Click **Save and Publish**.

Next steps

Configure the File Affiliation for VDI mode. For more information, see [File Affiliation](#).

Configuring the Cloud environment


In cloud-based computing, you can access web applications and services that run on remote servers using the Internet. Dell Hybrid Client enables you to access cloud applications and cloud drives seamlessly.

Dell Hybrid Client supports the following cloud applications:

- **Azure Office 365**
- **G Suite**

Dell Hybrid Client supports the following cloud storage:

- **OneDrive**

 **NOTE:** Access to OneDrive is supported when setting up the Office 365 configuration. If Office 365 is not configured, you cannot access OneDrive from File Explorer. However, you can access OneDrive directly from the web browser.

- **Google Drive**

Cloud files can be made available in offline mode using File Explorer, where user can use the file when network is not available. For more information, see [Using Dell File Explorer](#) and [Save cloud files for offline use](#).

Single Sign-On (SSO) to cloud applications

Dell Hybrid Client supports Single Sign-On (SSO) to cloud applications and web applications. It enables you to log in only one time with one set of credentials to get access to all your applications.

- **Azure SSO**—Dell Hybrid Client supports SSO for Azure.
- **GCP SSO**—Dell Hybrid Client does not support SSO for GCP (GSuite), and you must enter the credentials when you log in for the first time. The subsequent login works with SAML-based SSO authentication until you delete the browser cache.

Connect to Azure

Dell Hybrid Client supports only on-prem user sync with Azure AD. Azure Active Directory (Azure AD) is a cloud-based identity and access management service by Microsoft. It enables you to sign in and access both external and internal resources. You can access external resources, such as Microsoft Office 365, the Azure portal, and other SaaS applications. You can access internal resources, such as applications on your corporate network and intranet, along with any cloud applications developed by your organization.

Prerequisites

Ensure that you have an active Azure account. For more information about the Azure Active Directory On-Prem users sync, see the *Azure documentation* at docs.microsoft.com.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **File Affiliation**, and click **File Affiliation**.

Configuration Control | Hybrid Client

> Standard **Advanced** ⓘ

- > Peripheral Management
- > Network Configuration
- > Browser Settings
- > Region Settings
- > Personalization
- > SignOn
- > Privacy & Security
- > Power Settings
- > Citrix Workspace
- > VMware viewclient
- > RDP
- File Affiliation
- File Affiliation *

File Affiliation

File Affiliation	Cloud	ⓘ ↺
Cloud Provider	Azure	ⓘ ↺
Azure Client ID		* ⓘ
Azure Tenant Name		* ⓘ
Azure Client Secret		* ⓘ
Icon for Cloud Home	Use default icon	ⓘ Browse...
Create shortcut for Documents	ⓘ	
Create shortcut for Worksheets	ⓘ	
Create shortcut for Presentations	ⓘ	
Create shortcut for Email	ⓘ	
Create shortcut for Collaboration	ⓘ	

Figure 39. File Affiliation - Azure

6. From the **File Affiliation** drop-down list, select one of the following options:

- **Cloud**
- **Cloud+Local**
- **Cloud+VDI+Local**

7. From the **Cloud Provider** drop-down list, select **Azure**.

NOTE: You can procure the Azure Client ID, Tenant name, and Client Secret from portal.azure.com. For more information, see the *Azure documentation* at docs.microsoft.com.

8. In the **Azure Client ID** field, enter the ID of the Azure Client.

9. In the **Azure Tenant Name** field, enter the name of the Azure AD tenant.

10. In the **Azure Client Secret** field, enter the secret key of the Azure Client.

11. To set the icon for Cloud Home, do the following:

- Click **Browse** to upload the shortcut icon.
- From the **Icon for Cloud Home** drop-down list, select the shortcut icon.

NOTE: If the **Icon for Cloud Home** option is not configured, the default icon is used.

You can also create shortcuts for cloud files. For more information, see [Create shortcuts for cloud files](#).

12. Click **Save and Publish**.

13. Log in to Dell Hybrid Client, open **File Explorer**, and click **Azure**.

14. Enter the Azure login credentials.

15. Click either a local file or a cloud file that you want to open.

The file opens from cloud. If there is no network (offline), you cannot open the file and an error message is displayed.

NOTE: You can manually upload cloud files of any size. However, the automatic synchronization of VDI files that you edited offline is limited to 4 MB for Azure.

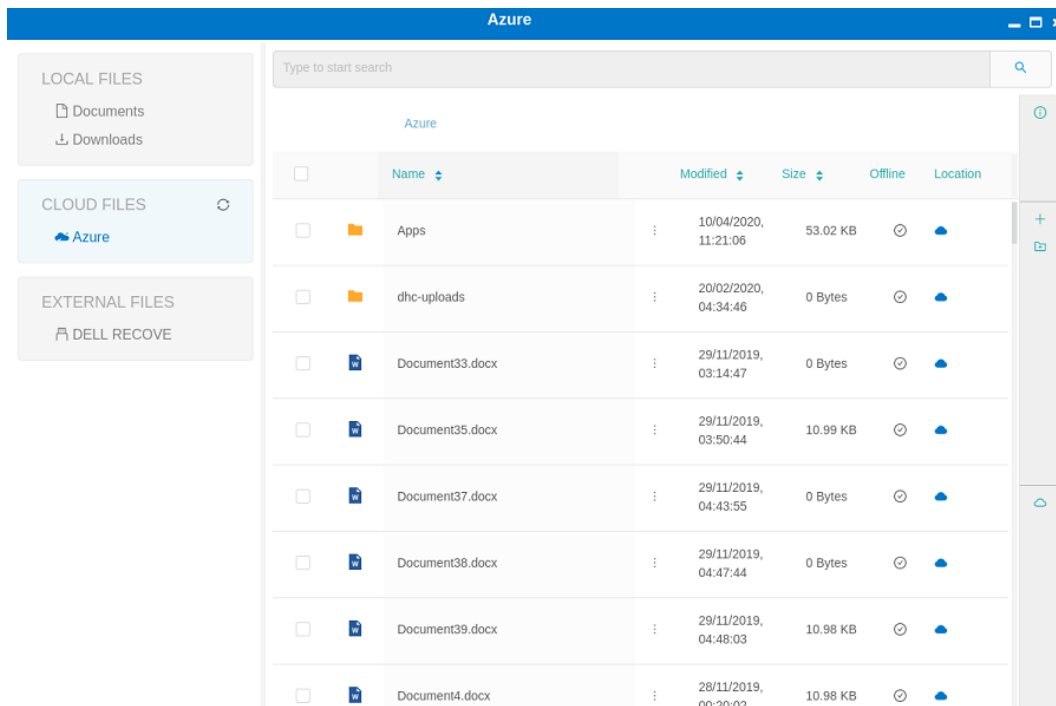


Figure 40. Azure - File Explorer

Connect to G Suite

G Suite (formerly Google Apps for Work) is a collection of web applications that are created by Google for your business needs. The G Suite account enables you to access several Google applications such as Calendar, Docs, Sheets, Slides, Forms, and more.

Prerequisites

Ensure that you have an active G Suite account. For more information about the G Suite features, see the *GSuite documentation* at gsuite.google.com/features/.

For information about the Cloud Identity help and G Suite Admin Help, go to support.google.com.

For information about how to set up Google Cloud for enterprise customers, see the Enterprise onboarding checklist at cloud.google.com/docs.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **File Affiliation**, and click **File Affiliation**.

Configuration Control | Hybrid Client

> Standard **Advanced** ⓘ

- > Peripheral Management
- > Network Configuration
- > Browser Settings
- > Region Settings
- > Personalization
- > SignOn
- > Privacy & Security
- > Power Settings
- > Citrix Workspace
- > VMware viewclient
- > RDP
- File Affiliation
- File Affiliation *

File Affiliation

File Affiliation	Cloud ⓘ ↺
Cloud Provider	GCP ⓘ ↺
GCP Client ID	<input type="text"/> * ⓘ
GCP Client Secret	<input type="text"/> * ⓘ
Icon for Cloud Home	Use default icon ⓘ Browse...
Create shortcut for Documents	<input type="checkbox"/> ⓘ
Create shortcut for Worksheets	<input type="checkbox"/> ⓘ
Create shortcut for Presentations	<input type="checkbox"/> ⓘ
Create shortcut for Calendar	<input type="checkbox"/> ⓘ
Create shortcut for Email	<input type="checkbox"/> ⓘ

Figure 41. File Affiliation - GCP

6. From the **File Affiliation** drop-down list, select one of the following options:

- **Cloud**
- **Cloud+Local**
- **Cloud+VDI+Local**

7. From the **Cloud Provider** drop-down list, select **GCP**.

NOTE: You can procure the Google Client ID and the Client Secret from cloud.google.com. For more information, see the *Google Cloud documentation* at cloud.google.com/iam/docs.

8. In the **GCP Client ID** field, enter the ID of the Google Client ID.

9. In the **GCP Client Secret** field, enter the secret key of the Google Client.

10. Click **Save and Publish**.

11. Log in to Dell Hybrid Client, open **File Explorer**, and click **GCP**.

12. Enter the login credentials.

13. Click either a local file or a cloud file that you want to open.

The file opens with cloud. If there is no network (offline), you cannot open the file and an error message is displayed.

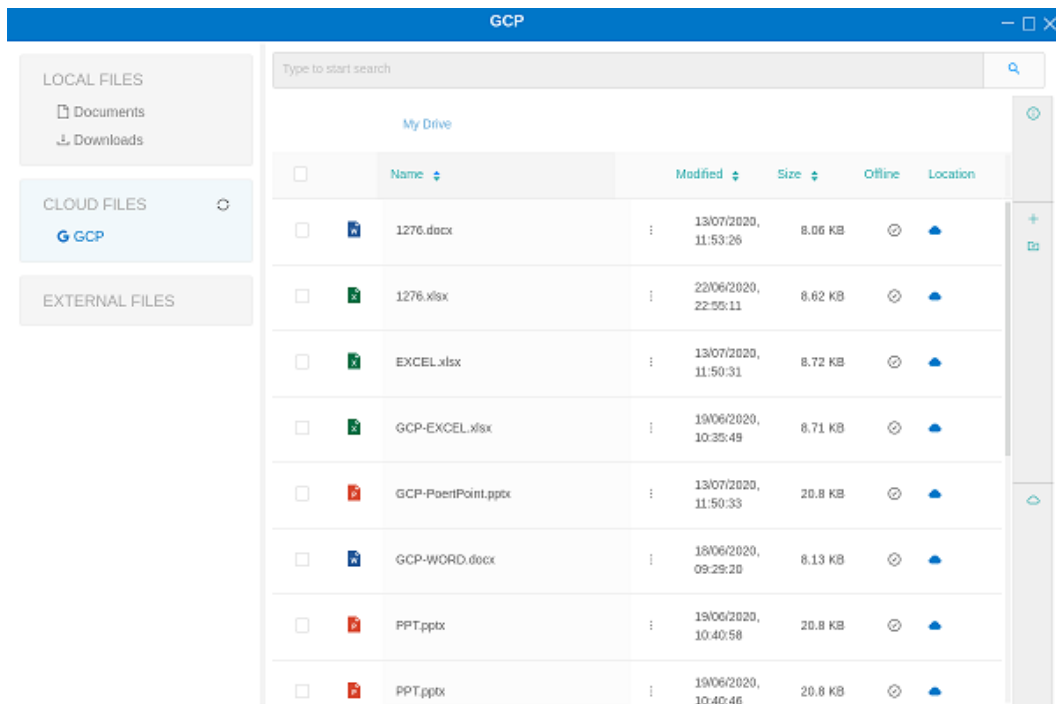


Figure 42. GCP

Create shortcuts for cloud files

A desktop shortcut enables you to quickly access your cloud files or applications. Use Wyse Management Suite to create shortcuts for cloud documents, worksheets, presentations, email, and collaboration apps. You can also customize the shortcut icons as per your requirement.

Steps


1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **File Affiliation**, and click **File Affiliation**.
6. From the **File Affiliation** drop-down list, select the cloud option using one of the following modes:
 - **Cloud**
 - **Cloud + Local**
 - **Cloud + VDI + Local**
7. Configure the cloud service provider—**Azure** or **GCP**.
8. Click the **Create shortcut** toggle key for the file or application you want to create a shortcut. The available options are:
 - **Create shortcut for Documents**
 - **Create shortcut for Worksheets**
 - **Create shortcut for Presentations**
 - **Create shortcut for Email**
 - **Create shortcut for Collaboration**. For example, Microsoft Teams.
9. To customize the shortcut icons, do the following:
 - a. Click **Browse** to upload the shortcut icon.
 - b. From the **Icon for** drop-down list, select the shortcut icon.
10. Click **Save and Publish**.

File Affiliation

File Affiliation is a distinct setting within the Dell Hybrid Client, in which you can restrict the user's ability to access files depending on the mode that is active. Use Wyse Management Suite to configure the File Affiliation settings. This feature is applicable to both device policy groups and user policy groups. In the **Cloud** mode, the client shows applications that are supported by Cloud services. In the **Local** mode, the client shows the local applications that are installed and configured using Wyse Management Suite. In the **VDI** mode, the client shows VDI-published applications. In the offline mode, the system shows the tools and applications that operate on the cached files. On the same device, you can configure different modes for different users using User Policy Groups.

You can enable one of the following modes using Wyse Management Suite:

- **Cloud**
- **Cloud + Local**
- **VDI**
- **VDI + Local**
- **Cloud + VDI + Local**

 **NOTE:** If File Affiliation is undefined, the file opens locally provided the local mapping is valid. If the local mapping is not available, you cannot open the application and an error message is displayed.

Configure the Cloud Mode

Use the Cloud Mode to enable all your files to open only on the cloud.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **File Affiliation**, and click **File Affiliation**.
6. From the **File Affiliation** drop-down list, select **Cloud**.
7. Select the cloud service provider from the following options:

- **Azure**—Select **Azure** and do the following:

- a. Enter the Azure Client ID.
- b. Enter the Azure Tenant Name.
- c. Enter the Azure Client Secret.
- d. Browse and select the icon for Cloud Home. If you do not configure this option, the default icon is used.

For more information about connecting to the Azure Active Directory, see [Connect to Azure Active Directory](#).

For more information about creating browser shortcuts for files, see [Create shortcuts for cloud files](#).

- **GCP**—Select **Azure** and do the following:

- a. Enter the GCP Client ID.
- b. Enter the GCP Client Secret.
- c. Browse and select the icon for Cloud Home. If you do not configure this option, the default icon is used.

For more information about connecting to the G Suite, see [Connect to G Suite](#).

For more information about creating browser shortcuts for files, see [Create shortcuts for cloud files](#).

8. Click **Save and Publish**.

9. Log in to Dell Hybrid Client.

10. Double-click a file.

The file opens on the cloud only. If there is no network (offline), you cannot open the file and an error message is displayed.

For more information about how to configure the cloud environment, see [Configuring the cloud environment](#).

Example

- **Open a Microsoft PowerPoint file using Azure cloud**

1. Configure the **Cloud** mode for File Affiliation using Wyse Management Suite.
2. Log in to the device as an Active Directory (AD) user.

You are automatically logged in to Azure with SSO authentication.

3. Go to the File Explorer.
4. Open the Microsoft PowerPoint file.

The file is launched from the cloud application. If there is no network, you cannot open the file.

- **Open a Microsoft PowerPoint file using Google cloud**

1. Configure the **Cloud** mode for File Affiliation using Wyse Management Suite.
2. Log in to the device as an Active Directory (AD) user.
3. Go to the File Explorer.
4. Open the Microsoft PowerPoint file.

The GCP authentication screen is displayed.

5. Enter the login credentials.

After the successful authentication, the file is launched from the GCP webapp. If there is no network, you cannot open the file.

Configure the Cloud + Local Mode

Use the Cloud + Local Mode to open all your files either on the cloud or the local system.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **File Affiliation**, and click **File Affiliation**.
6. From the **File Affiliation** drop-down list, select **Cloud + Local**.
7. Select a priority, either **Cloud** or **Local**.

If the priority is set to **Cloud**, files open on the cloud. If cloud is not configured, files open on the local system.

If the priority is set to **Local**, files check the local mapping first. Local mapping enables you to access the local drive. If the local mapping is valid, files open on the local system.

8. For the cloud environment, select the cloud service provider from the following options:

- **Azure**—Select **Azure** and do the following:

- a. Enter the Azure Client ID.
- b. Enter the Azure Tenant Name.
- c. Enter the Azure Client Secret.
- d. Browse and select the icon for Cloud Home. If you do not configure this option, the default icon is used.

For more information about connecting to the Azure Active Directory, see [Connect to Azure Active Directory](#).

For more information about creating browser shortcuts for files, see [Create shortcuts for cloud files](#).

- **GCP**—Select **Azure** and do the following:

- a. Enter the GCP Client ID.
- b. Enter the GCP Client Secret.
- c. Browse and select the icon for Cloud Home. If you do not configure this option, the default icon is used.

For more information about connecting to the G Suite, see [Connect to G Suite](#).

For more information about creating browser shortcuts for files, see [Create shortcuts for cloud files](#).

9. Log in to Dell Hybrid Client.

10. Double-click a file.

The file opens on the cloud or the local system based on the priority defined. If there is no network (offline), the file opens on the local system provided the local mapping is valid. If local mapping is not available, you cannot open the file and an error message is displayed.

Example

• Open a Microsoft PowerPoint using Azure cloud

1. Configure the **Cloud + Local** mode for File Affiliation using Wyse Management Suite. The priority is set to Azure Cloud.
2. Log in to the client.

You are automatically logged in to Azure with SSO authentication.

3. Go to the File Explorer.
4. Open the Microsoft PowerPoint file.

The file is launched from the cloud application. If there is no network, the file opens on the local system.

• Open a Microsoft PowerPoint using Google cloud

1. Configure the **Cloud + Local** mode for File Affiliation using Wyse Management Suite. The priority is set to GCP Cloud.
2. Log in to the client.
3. Go to the File Explorer.
4. Open the Microsoft PowerPoint file.

The GCP authentication screen is displayed.

5. Enter the login credentials.

After the successful authentication, the file is launched from the GCP webapp. If there is no network, the file opens on the local system.

Configure the VDI Mode

Use the VDI Mode to enable all your files to open only in the VDI environment.

Prerequisites

Ensure that you have configured the File Type Association settings for the respective VDI connections using Wyse Management Suite. For more information about how to configure the File Type Association settings, see [File Type Association](#).

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **File Affiliation**, and click **File Affiliation**.
6. From the **File Affiliation** drop-down list, select **VDI**.
For more information about configuring the VDI environment, see [Configuring the VDI environment](#).
7. Log in to Dell Hybrid Client.
8. Double-click a file.

The file opens within the VDI environment. If there is no network (offline) or mapping is not available in the network database, you cannot open the file and an error message is displayed.

Example

Open a Microsoft Excel file using VDI application

1. Configure the File Type Association `.xls` for the VDI connection using Wyse Management Suite.
2. Configure the **VDI** mode for File Affiliation using Wyse Management Suite.
3. Log in to the client.
4. Go to the File Explorer.
5. Open the Excel file.

The file is launched from the VDI published application. If there is no network, you cannot open the file.

Configure the VDI + Local Mode

Use the VDI + Local Mode to enable all your files to open either in VDI or on the local system.

Prerequisites

Ensure that you have configured the File Type Association settings for the respective VDI connections using Wyse Management Suite. For more information about how to configure the File Type Association settings, see [File Type Association](#).

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **File Affiliation**, and click **File Affiliation**.
6. From the **File Affiliation** drop-down list, select **VDI + Local**.
7. Select a priority, either **VDI** or **Local**.

If the priority is set to **VDI**, files open within the VDI environment. If VDI is not configured, files open on the local system.

If the priority is set to **Local**, files check the local mapping first. If the local mapping is valid, files open on the local system.

For more information about configuring the VDI environment, see [Configuring the VDI environment](#).

8. Log in to Dell Hybrid Client.
9. Double-click a file.
The file opens on the cloud or the local system based on the priority defined. If there is no network (offline) or mapping is not available in the network database, the file opens on the local system. This is applicable only if the local mapping is valid. If local mapping is not available, you cannot open the file and an error message is displayed.

Example

Open a Microsoft Excel file using VDI application

1. Configure the File Type Association `.xls` for the VDI connection using Wyse Management Suite.
2. Configure the **VDI + Local** mode for File Affiliation using Wyse Management Suite. The priority is set to VDI.
3. Log in to the client.
4. Go to the File Explorer.
5. Open the Excel file.

The file is launched from the VDI published application. If there is no network, the file opens on the local system.

Configure the Cloud + VDI + Local Mode

Use the Cloud + VDI + Local Mode to enable all your files to open on the cloud, VDI, or the local system.

Prerequisites

Ensure that you have configured the File Type Association settings for the respective VDI connections using Wyse Management Suite. For more information about how to configure the File Type Association settings, see [File Type Association](#).

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **File Affiliation**, and click **File Affiliation**.
6. From the **File Affiliation** drop-down list, select **Cloud + VDI + Local**.
7. Specify the first priority and the second priority from the respective drop-down lists. By default, first priority is set to **None selected**.

If **Cloud** is set as the first priority, files open on the cloud. If second priority is defined, files open either in VDI or on the local system based on your selection.

If **VDI** is set as the first priority, files open within the VDI environment. If second priority is defined, files open either on the cloud or the local system based on your selection.

If the priority is set to **local**, files check the local mapping first. If the local mapping is valid, files open on the local system. If second priority is defined, files open either on cloud or in VDI based on your selection.
8. For the cloud environment, select the cloud service provider from the following options:
 - **Azure**—Select **Azure** and do the following:
 - a. Enter the Azure Client ID.
 - b. Enter the Azure Tenant Name.
 - c. Enter the Azure Client Secret.
 - d. Browse and select the icon for Cloud Home. If you do not configure this option, the default icon is used.For more information about connecting to the Azure Active Directory, see [Connect to Azure Active Directory](#).
For more information about creating browser shortcuts for files, see [Create shortcuts for cloud files](#).
 - **GCP**—Select **Azure** and do the following:
 - a. Enter the GCP Client ID.
 - b. Enter the GCP Client Secret.
 - c. Browse and select the icon for Cloud Home. If you do not configure this option, the default icon is used.For more information about connecting to the G Suite, see [Connect to G Suite](#).
For more information about creating browser shortcuts for files, see [Create shortcuts for cloud files](#).
9. Log in to Dell Hybrid Client.
10. Click a file.
The file opens on the cloud, VDI, or the local system based on the priority defined. If there is no network (offline) or network mapping is not available in the network database, the file opens on the local system. This is applicable only if the local mapping is valid. If the local mapping is not available, you cannot open the file and an error message is displayed.

Example

Open a Microsoft Excel file using VDI and other file extensions from cloud or local application:

1. Configure the File Type Association .xls for the VDI connection using Wyse Management Suite.
2. Configure the **Cloud + VDI + Local** mode for File Affiliation using Wyse Management Suite. The first priority is set to VDI, and second priority is set to Cloud.
3. Log in to the client.

4. Go to the File Explorer.
5. Open the Excel file.

The file is launched from the VDI published application. Other file extensions open with cloud application. If the client is unable to connect to VDI, excel file opens in a cloud application. If there is no network, the file is opened on the local system.

User applications

When you log in to Dell Hybrid Client, certain default applications are displayed on the **Applications overview** screen.

Browse the Internet

Dell Hybrid Client enables you to browse the web securely. On Dell Hybrid Client, website tracking is disabled to ensure that the enterprise data or browser history is untracked. Use either Google Chrome or Mozilla Firefox to browse the web.

Steps


1. Log in to Dell Hybrid Client.
2. Click the **Show Applications** icon on the desktop screen.
The **Application Overview** screen is displayed.
3. Click any of the following browser icons to launch the corresponding web browser.
 - **Mozilla Firefox**
 - **Google Chrome**
4. Enter the URL of the web page in the address bar, and start browsing the web.

Enable or disable multicontainers for Firefox

Dell Hybrid Client supports the multicontainer feature that provides privacy for the Mozilla Firefox browser. It ensures that the cookies downloaded by one container are not available to other containers. All your logged in sessions, site preferences, and other browser data are not carried over to the new container. By default, the multicontainer feature is enabled on Dell Hybrid Client.

Steps


1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred user group.

 **NOTE:** The Multicontainer option is applicable only for User Policy Groups.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Browser Settings**, and click **Firefox settings**.
6. Click the **Enable MultiContainers** toggle key to enable or disable the multicontainer feature.
7. Click **Save and Publish**.
8. Log in to Dell Hybrid Client and open the Mozilla Firefox web browser.
9. If the multicontainer feature is enabled, click the **Containers** icon and select the container that you want to open.
For more information about multicontainers, see the *Mozilla Firefox documentation* at support.mozilla.org.

Enable or disable site isolation for Chrome

Dell Hybrid Client supports the site isolation feature that provides security for your Google Chrome browser. It ensures that pages from different websites use different processes, wherein each process runs in a sandbox that limits what the process is allowed to do. By default, the site isolation feature is enabled on Dell Hybrid Client.

Steps


1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred user group.
 **NOTE:** The site isolation option is applicable only for User Policy Groups.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Browser Settings**, and click **Google Chrome settings**.
6. Click the **Enable site isolation** toggle key to enable or disable the site isolation feature.
7. Click **Save and Publish**.
8. Log in to Dell Hybrid Client and open the Google Chrome web browser.
9. Go to your preferred website.
If the site isolation feature is enabled, all websites that you browse run in a dedicated rendering process, which is isolated from each other.

For more information about site isolation, see the *Google Chrome documentation* at support.google.com.

Enable or disable plugins for Chrome

Dell Hybrid Client supports plugins that can be used to enhance your browsing experience.


Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred user group.
 **NOTE:** The plugins for Chrome option is applicable only for User Policy Groups.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Browser Settings**, and click **Google Chrome settings**.
6. Click the **Plugins** toggle key to enable or disable plugins for Google Chrome.
7. Click **Save and Publish**.
8. Log in to the device and access the Google Chrome web browser.


Allow or block access to websites

Dell Hybrid Client enables you to allow or block access to websites. You can block certain websites, making them inaccessible from the browser. You can exclude certain websites from blocking, making them accessible from the browser.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred user group.
 **NOTE:** The allow or block access to website option is applicable only for User Policy Groups.
3. Click **Edit Policies > Hybrid Client**.

The **Configuration Control | Hybrid Client** page is displayed.

4. Click the **Advanced** tab.
5. Expand **Browser Settings**, and click either **Firefox settings** or **Google Chrome settings** based on your preference.
 **NOTE:** Ensure that the **Reset website access control settings** option is disabled to access the Blacklist and Whitelist options.
6. From the **URL Settings** drop-down menu, select **Website Access Control**.
7. To configure the **URL Blacklist** settings, click **Add Row**, and enter the URL of the website that you want to block.
8. To configure the **URL Whitelist** settings, click **Add Row**, and enter the URL of the website that you want users to access.
9. Click **Save & Publish**.

Example

- Allow only specific websites:
 - Block "*" "
 - Allow selected sites—"mail.example.com", "wikipedia.org", "google.com".
- Block all access to a domain, except to the mail server using HTTPS and to the main page:
 - Block "example.com"
 - Allow "https://mail.example.com".
 - Allow ".example.com", and may be ".www.example.com".
- Block all access to YouTube, except for selected videos:
 - Block "youtube.com"
 - Allow "youtube.com/watch?v=V1".
 - Allow "youtube.com/watch?v=V2".

NOTE:

Mozilla Firefox supports only HTTP and HTTPS. When you are adding the URL that you want to block, you must specify the URL without HTTP, or HTTPS. By default, the HTTP, or HTTPS prefix is added to the website URL. For example, instead of `https://www.youtube.com`, you must specify only `youtube.com` or `www.youtube.com`. The same guideline is applicable when configuring URLs that you want to access.

Using Dell File Explorer

Dell File Explorer is a file browser that provides a simple way to manage your local, cloud, network, and external files on your client. Files are launched using local, VDI, or cloud applications based on the priority set in the File Affiliation settings. For more information about how to configure the File Affiliation settings, see [File Affiliation](#).

You can use the file explorer to do the following:

- View your files, folders, and drives.
- View file attributes such as **Name**, **Size**, **Modified**, **Location**, and **Offline**.
- Search and sort your files.
- Access local files and folders.
- Access cloud files.
- Access external files that are stored on a USB drive or downloaded from web.
- Access network shares.

File explorer supports the following file operations:

- Create a file
- Open a file
- Delete a file
- Copy a file
- Move a file
- Rename a file

To access the File Explorer, click the **Show Applications** icon on the desktop screen, and then click the **File Explorer** icon.

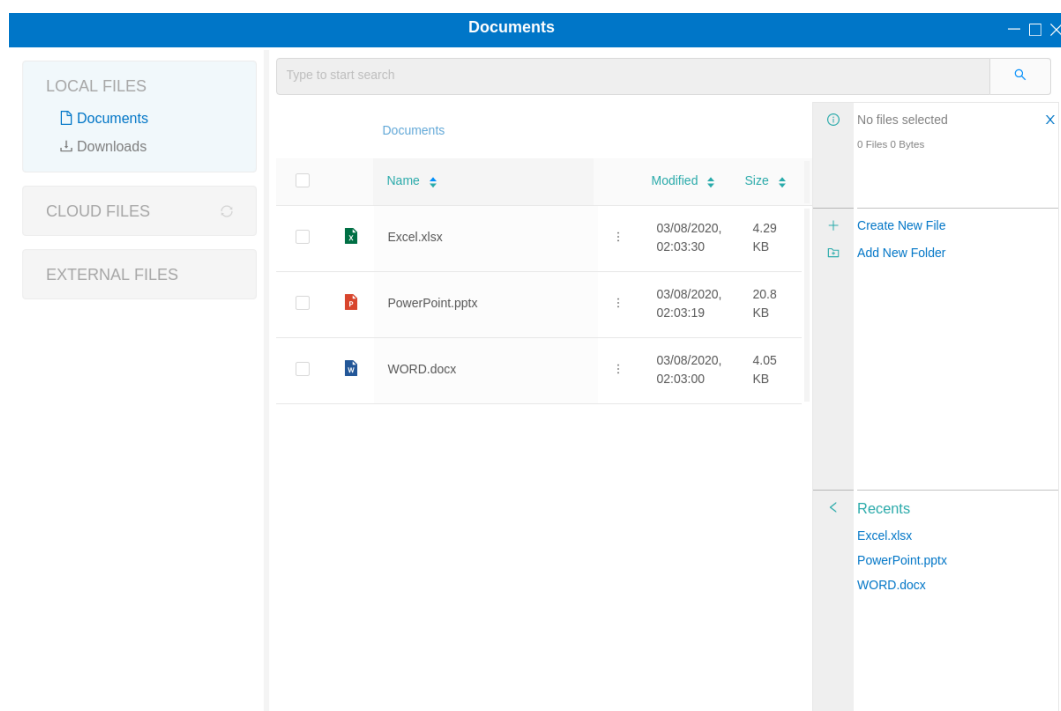


Figure 43. Dell File Explorer

Table 12. File Explorer Components

Component	Description
Left pane	<p>The left pane displays the navigation pane that contains the file and folder structure of Dell Hybrid Client. You can view the following categories:</p> <ul style="list-style-type: none"> • LOCAL FILES—Displays the files and folders on your local client. By default, Documents and Downloads folders are displayed. Users can access only their respective local documents and downloads folders from the current drive in File Explorer for security reasons. The Pictures folder is available if the Print Screen option is enabled. • CLOUD FILES—Displays the files and folder on your Azure cloud or Google cloud. Use the Sync button to synchronize cloud files to the client, so files can be accessed from File Explorer. • EXTERNAL FILES—Displays the files and folder on your connected USB drive and network shares. <p>NOTE: Any local file uploaded to cloud is available in the cloud root for GCP and in the Uploads folder for Azure.</p>
Right pane	<p>The right pane displays the additional options available in the File Explorer.</p> <ul style="list-style-type: none"> • Files and Bytes—Displays the total number of selected files and the total size of all the files combined. • Create New File—Enables you to create a file in the current folder. Click the Create New File icon to create a file. • Add New Folder—Enables you to create a folder in the current folder. Click the Add New Folder icon to add a folder. • Recents—Displays all the recently viewed files and documents.
Search box	Global file search provides the ability to search for documents across any folder.
Select multiple files	The select check box enables you to select one or more files in the current folder.
Sorting lists	<p>This option enables you to sort the file list by one of the following field columns:</p> <ul style="list-style-type: none"> • Name—Click the column header to sort the list by file name. Files are sorted alphabetically. • Modified—Click the column header to sort the list by date modified. Files are sorted either in ascending order or descending order.

Table 12. File Explorer Components (continued)

Component	Description
	<ul style="list-style-type: none"> • Size—Click the column header to sort the list by file size. Files are sorted either in ascending order or descending order.

Table 13. File Explorer—additional features

Feature	Summary
File Sync	<p>File Synchronization happens only when the user logs in the next time on the same device, provided the local file or local drive file is opened in a cloud application.</p> <p>For example, opening the cloud drive files in VDI or local applications and any modifications are only synchronized during next user login.</p>
Copy and Paste	<p>Copy and Paste function is supported between local to local drivers and external drives. If you modify while the file is opened in cloud, you must log out and log in before copying the file. The progress bar is not supported for the copy function. You must click the sync button to view the copied file.</p>
Move one or more files	<p>Move function is supported between local to local drivers and external drives. If you modify while the file is opened in cloud, you must log out and log in before moving the file. The progress bar is not supported for the move function.</p>
Offline mode	<p>Cloud files can be made available in offline mode, where user can use the file when network is not available. Cloud files are saved offline automatically when there is no network connection. Offline files are automatically synchronized during subsequent cloud logins based on the file modification time. However, the file is automatically deleted after seven days from the time file was marked as offline and not synchronized to cloud. To avoid auto deletion of the file, you should synchronize the file before seven days.</p> <p>You can also save cloud files manually for offline use. For more information about saving cloud files for offline use, see Save cloud files for offline use.</p> <p>NOTE: You can manually upload cloud files of any size. However, the automatic synchronization of VDI files that you edited offline is limited to 4 MB for Azure.</p>

For more information about the feature limitations, see the *Dell Hybrid Client v1.0 Release Notes* at www.dell.com/support.

Create a file

Steps

1. On the desktop screen, click the **Show Applications** icon.
The **Applications Overview** screen is displayed.
2. Click the **File Explorer** icon.
3. Go to the location where you want to create a file.
4. In the right pane, click the **Create New File** icon.
The **Create New File** dialog box is displayed.

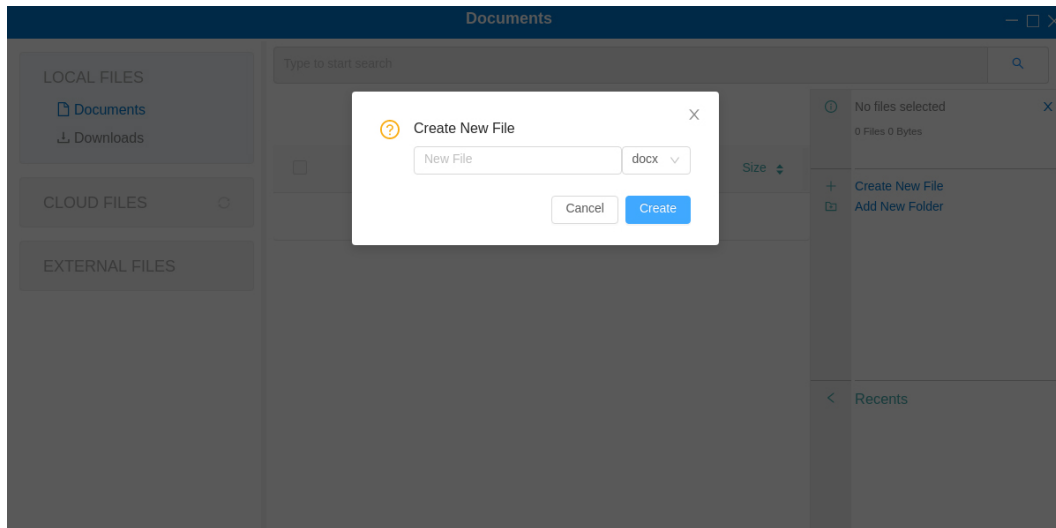


Figure 44. Create new file

5. Enter the name of the file.
6. From the drop-down list, select the file type. For example, docx, ppt.
7. Click **Create**.

Add a folder

Steps

1. On the desktop screen, click the **Show Applications** icon.
The **Applications Overview** screen is displayed.
2. Click the **File Explorer** icon.
3. Go to the location where you want to add a folder.
4. In the right pane, click the **Add New Folder** icon.
The **Add New Folder** dialog box is displayed.

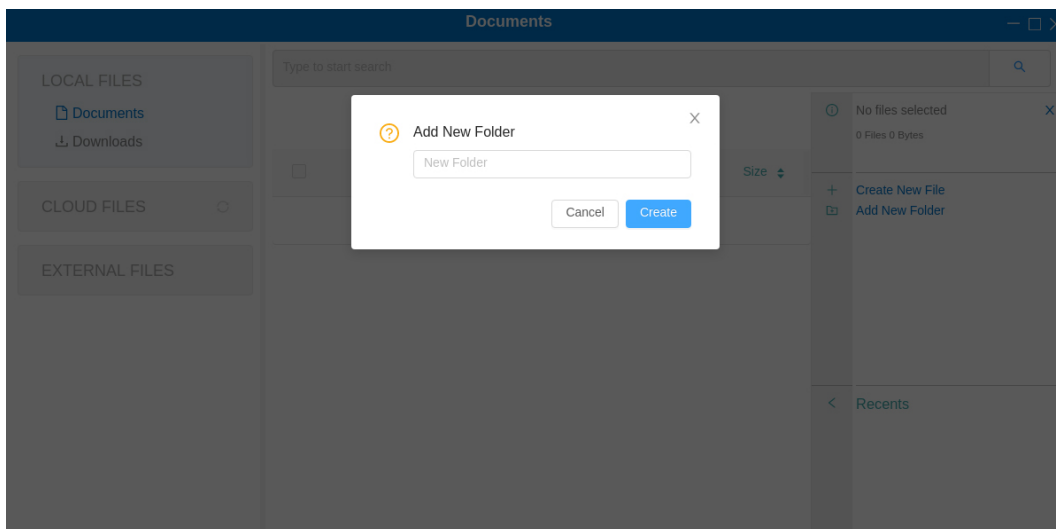


Figure 45. Add new folder

5. Enter the name of the folder.
6. Click **Create**.

Save cloud files for offline use

Cloud files can be manually saved for offline use, where a user can use the file when network is not available. If you manually set the file to offline mode, you must log off and log in again and then discard the offline file to synchronize the file to cloud.

Prerequisites

Ensure that you have configured the cloud provider—Azure or Google Cloud.

About this task

This procedure describes the steps to manually save a cloud file offline on Dell Hybrid Client.

Steps

1. Log in to the Dell Hybrid Client.
2. Go to **File Explorer > CLOUD FILES**.
All the available cloud files or documents are listed.
3. Locate a file and click the three vertical dots that is located in the same row.
4. Click **Save Offline**.
The file is saved offline, and a green tick is displayed for the **Offline** status.

Next steps

To change offline files to online manually, do the following:

1. Locate the offline file.
2. Click the three vertical dots that is located in the same row.
3. Click **Discard Offline File**.

Configure a network drive

A network drive is a drive or share that you can access over a network. Dell Hybrid Client enables you to mount or map a network shared drives using network file sharing protocols. The supported protocols are Server Message Block (SMB), Common Internet File System (CIFS), FTPS, and Samba Share.

Steps


1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Network Drives**, and click **Network Drivers List**.
6. Click **Add Row**.
7. In the **Network drives settings** section, do the following:
 - a. In the **Name** field, enter a name for your network drive or share.
 - b. From the **Type** drop-down list, select the type of the network share—**Smb/Samba**, **CIFS**, or **FTPS**.
8. In the **Share URL** field, enter the address of the server in the form of URL.
 - If you are using the network share type as **SMB/Samba** or **CIFS**, enter the share URL in the format `//serverIP/path`. For example, `//105.105.55.122/test`.
 - If you are using the network share type as **FTPS**, enter the share URL in the format `serverIP`. For example, `105.105.55.122`.
9. If you want anonymous users to access the network share, click the **Anonymous mode** toggle key.
10. If you want specific users to access the network share, disable the **Anonymous mode**, and do the following:
 - a. Enter the username.
 - b. Enter the password.

- c. Enter the domain name.
11. Click **Save & Publish**.
12. Log in to Dell Hybrid Client, open **File Explorer**, and access the network shared drive that you have mapped.

Access local applications

By default, the following applications are installed on your Dell Hybrid Client:

- **VLC Media Player**—Enables you to play most of the multimedia files.
- **Image Viewer**—Enables you to open most of the image files.
- **Libre Office**—Enables you to view, create, or edit text documents, spreadsheets, and presentations.

 **NOTE:** If the **Mount** option is disabled on Wyse Management Suite for any of the local applications, you cannot open the file from an external USB drive.

To access a local application, do the following:

1. Log in to Dell Hybrid Client.
2. Click the **Show Applications** icon on the desktop screen.
The **Application Overview** screen is displayed.
3. Click the application icon to launch the corresponding application.

Configure the application security

The **Application Security** feature restricts your local applications on Dell Hybrid Client using opening files from external USB drives.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Application Security**, and select an application.
6. Click the **Mount** toggle key to enable the option. Enabling the **Mount** option allows the application to access the external USB drive. You can play any multimedia files or open any files from the external USB drive. By default, the **Mount** option is disabled.
7. Click the **Network** toggle key to enable the **Network** option. Enabling the **Network** option allows the VLC media player to access the Internet. You can play any multimedia files from the web.
8. Click **Save & Publish**.
9. Log in to Dell Hybrid Client and launch the application.

Using the Zoom application

Zoom application is a Unified Communications solution that is offered by Zoom. It supports enterprise video conferencing and screen sharing. You can use the Zoom application to make and receive calls. Zoom application is preinstalled on devices with 32 GB or higher storage capacity. If you are using Wyse 5070 Thin Client with 16 GB storage capacity, you must download and install the optional Zoom Client package.

Prerequisites

As an administrator, you must install the optional Zoom Client add-on on Wyse 5070 Thin Clients with 16 GB storage capacity. To install the Zoom Client add-on, do the following:


1. Go to www.dell.com/support.

2. In the **Enter a Service Tag, Serial Number, Service Request, Model, or Keyword** field, type the model number of your device or type Dell Hybrid Client.
3. Click the product from search results to open the product support page.
4. On the product support page, click **Drivers & downloads**.
5. Select the operating system as **Ubuntu 18.04 LTS**.
6. From the list, locate the Zoom Client add-on entry and click the download icon.
7. After the add-on is downloaded successfully, use the application policy on Wyse Management Suite to deploy the add-on to Dell Hybrid Client. For more information about how to deploy an application policy, see the *Dell Wyse Management Suite Administrator's Guide* at www.dell.com/support.

Steps


1. Log in to Dell Hybrid Client.
2. Click the **Show Applications** icon on the desktop screen.
The **Applications Overview** screen is displayed.
3. Click the Zoom application icon.
The Zoom login window is displayed.
4. Join the meeting using one of the following methods:
 - If you want to join without signing in, click **Join a Meeting** and enter the meeting ID number and name.
 - If you want to sign in to your Zoom account, click **Sign in** and enter your login credentials.

For more information about using the Zoom application, see the *Quick Start Guides* at <https://support.zoom.us>.


 **NOTE:** Performance issues are observed when you use the Zoom application on Dell Hybrid Client-powered Wyse 5070 devices with 16 GB storage capacity.

Installing third-party applications

Dell Hybrid Client enables you to install Dell-signed, unsigned, and custom signed third-party applications.

 **NOTE:** Dell is not responsible for any security vulnerabilities, licenses, or other functionality-related issues that may occur due to the deployment of third-party applications. Ensure that you are aware of the functionality and impact of deploying third-party applications on Dell Hybrid Client.

Use Wyse Management Suite to deploy application packages to devices powered by Dell Hybrid Client. From the Dell Hybrid Client 1.1 release onwards, you can upload script files, binary files, or any other file extensions such as `.tar`, `.py`, `.sh`, and `.deb`. This option is applicable only when the **Secure Deployment Mode** is disabled. By default, all applications delivered by Dell are signed packages.

 **NOTE:** Some third-party applications may require dependency packages to work. Installation of such applications may fail if its dependencies are not installed. Ensure that all dependencies of a given application are provided along with the main application package.

You can configure the following type of policies on the **Apps and Data** page:

- Standard application policy—This policy enables you to install a single application package.
- Advanced application policy—This policy enables you to install multiple application packages.

Deployment of application policies to the device can be scheduled immediately or later, based on your time zone.

For more information on how to deploy an application package using Wyse Management Suite, see the *Dell Wyse Management Suite Administrator's Guide* at www.dell.com/support.

Install a Dell-signed application

Prerequisites

Ensure that you get your application signed by Dell by contacting your **Dell Sales Representative** and submitting the application file that needs to be signed. Once the signing process is complete, the Dell Sales Representative will deliver the signed application.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Application Security**, and click **Application Deployment**.
6. Click the **Secure Deployment Mode** toggle key to ON state to allow only Dell-signed applications to be installed on Dell Hybrid Client. By default, the option is enabled.
7. Click **Save and Publish**.
8. Use the standard application policy or the advanced application policy to deploy the Dell-signed application to Dell Hybrid Client.
For information about how to use the standard application policy or the advanced application policy, see the *Dell Wyse Management Suite Administrator's Guide* at www.dell.com/support.

Install a custom-signed application

Prerequisites

Ensure that you get your application signed and have procured the signed certificate from the concerned authority. For detailed steps on how to use the Reporter OpenSSL utility to create custom-signed certificates, see the *How to create a self-signed SSL Certificate using OpenSSL for Reporter 9.x* article at knowledge.broadcom.com.


Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Application Security**, and click **Application Deployment**.
6. Click the **Secure Deployment Mode** toggle key to ON state. By default, the option is enabled.
7. Click the **Allow custom signed application** toggle key to ON state to allow custom-signed applications to be installed on Dell Hybrid Client. By default, the option is disabled.
8. Browse and upload one or more signed certificates. Supported file types are **.crt** and **.cer**.
9. Click **Save and Publish**.
10. Use the standard application policy or the advanced application policy to deploy the custom-signed application to Dell Hybrid Client.
For information about how to use the standard application policy or the advanced application policy, see the *Dell Wyse Management Suite Administrator's Guide* at www.dell.com/support.

Install an unsigned application

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Application Security**, and click **Application Deployment**.
6. Click the **Secure Deployment Mode** toggle key to OFF state to allow unsigned applications to be installed on Dell Hybrid Client. By default, the option is disabled.

 **NOTE:** Use the option with caution as installing unsigned third-party applications may be insecure and can make the device vulnerable to security threats.

7. Click **Save and Publish**.

8. Use the standard application policy or the advanced application policy to deploy the unsigned application to Dell Hybrid Client.

When using the advanced application policy, you can place any file in the client drive by selecting the file and using the **Pre install** option. In the script file, mention the source as `/etc/WMSApps`. The destination path is a user-specific directory.

For example, you can copy an MP4 file to the Dell Hybrid Client-powered device using the advanced application policy on Wyse Management Suite. You must use the `.sh` file as a prescript file—`cp /etc/WMSApps/taskbar.mp4 /home/test1@DHC.COM/Documents`.

- a. Copy the MP4 file and the prescript file to `C:\WMS\LocalRepo\repository\hybridClientApps` path.
- b. On Wyse Management Suite, go to **Apps & Data**, and click **Hybrid Client** in the **App Policies** section.
- c. Click **Advanced Policy**.
- d. Enter the policy name.
- e. From the **Group** drop-down list, select your preferred group.
- f. From the **Task** drop-down list, select **Install Application**.
- g. From the **OS Type** drop-down list, select **Hybrid Client**.
- h. Click **Add app** and do the following:
 - i. From the **Apps** drop-down list, select the MP4 file.
 - ii. From the **Pre-Install** drop-down list, select the `.sh` file.
 - iii. Specify the install timeout period.
- i. Save and deploy the policy to the device.
- j. After successful deployment, open File Explorer on Dell Hybrid Client and verify if the MP4 file is available in the Documents folder.

For information about how to use the standard application policy or the advanced application policy, see the *Dell Wyse Management Suite Administrator's Guide* at www.dell.com/support.

Security configurations

Security configurations help you to maximize the security posture in your environment. This section describes the mechanisms and methods available to secure the deployment of the Dell Hybrid Client software.

Deployment models

Dell Hybrid Client can be installed on the Wyse 5070 device and the OptiPlex 7070 Ultra device. For information about how to install Dell Hybrid Client on your device, see [Dell Hybrid Client installation](#).

From Dell Hybrid Client v1.1 release onwards, the following conversions are supported:

- Convert Wyse 5070 devices running Windows 10 IoT Enterprise, ThinLinux 2.x, or ThinOS 8.6 (Maintenance Release 8 and later) to Dell Hybrid Client.
- Convert OptiPlex 7070 devices running Windows 10 and Ubuntu 18.04 to Dell Hybrid Client.

For more information about the conversion process, see the *Dell Hybrid Client Conversion Guide* at www.dell.com/support.

Authentication

Login security settings

- During login authentication failures, a message **Please try again** is displayed on the login screen.
- You can remotely connect to Dell Hybrid Client using the SSH protocol. See, [Configure the SSH settings](#).
- You can remotely connect to Dell Hybrid Client using VNC. See, [Configure the VNC settings](#).
- You can set a password for the GRUB boot menu to restrict access to specific operations such as enabling dev mode to access the terminal. See, [Enable GRUB menu password protection](#).

Configure the SSH settings

Using the SSH protocol, you can connect securely to Dell Hybrid Client from a remote device. You can use Wyse Management Suite to configure the SSH settings.


Prerequisites

As an administrator, you must install the optional SSH add-on to enable the SSH access. To install the SSH add-on on Dell Hybrid Client, do the following:

1. Go to www.dell.com/support.
2. In the **Enter a Service Tag, Serial Number, Service Request, Model, or Keyword** field, type the model number of your device or type Dell Hybrid Client.
3. Click the product from search results to open the product support page.
4. On the product support page, click **Drivers & downloads**.
5. Select the operating system as **Ubuntu 18.04 LTS**.
6. From the list, locate the SSH add-on entry and click the download icon.
7. After the add-on is downloaded successfully, use the standard application policy on Wyse Management Suite to deploy the add-on to Dell Hybrid Client. For more information about how to deploy a Standard App Policy, see the *Dell Wyse Management Suite Administrator's Guide* at www.dell.com/support.

Steps

1. Log in to Wyse Management Suite.

2. Go to the **Groups & Configs** page, and select your preferred group.
 3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
 4. Click the **Advanced** tab.
 5. Expand **Privacy & Security**, and click **SSH Server**.
 6. Click the **SSH Server** toggle key to enable an SSH connection from a remote device. Use **sshuser** as username to establish an SSH connection.
 7. Enter a password for the SSH-enabled user.
 8. Optionally, you can grant elevated privileges to an SSH-enabled user on the device powered by Dell Hybrid Client. To enable the option, click the **Allow elevated privileges to sshuser** toggle key. If the option is not in use or not required, Dell Technologies recommends keeping the option disabled.
-  **NOTE:** Use the option with caution as granting elevated privileges to an SSH-enabled user may lead to inappropriate use of access on the device.
9. Click **Save and Publish**.

Next steps

1. On a remote device, open the SSH client terminal application.
2. Connect to your Dell Hybrid Client using the username **sshuser**. When prompted, enter the password for **sshuser**.

Configure the VNC settings

Dell Hybrid Client can be accessed remotely using VNC. Use Wyse Management Suite to configure the VNC server preferences.


Prerequisites

As an administrator, you must install the VNC optional add-on to enable the VNC access. To install the VNC add-on on Dell Hybrid Client, do the following:

1. Go to www.dell.com/support.
2. In the **Enter a Service Tag, Serial Number, Service Request, Model, or Keyword** field, type the model number of your device or type Dell Hybrid Client.
3. Click the product from search results to open the product support page.
4. On the product support page, click **Drivers & downloads**.
5. Select the operating system as **Ubuntu 18.04 LTS**.
6. From the list, locate the VNC add-on entry and click the download icon.
7. After the add-on is downloaded successfully, use the standard application policy on Wyse Management Suite to deploy the add-on to Dell Hybrid Client. For more information about how to deploy a Standard App Policy, see the *Dell Wyse Management Suite Administrator's Guide* at www.dell.com/support.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Privacy & Security**, and click **VNC Server**.
6. Click the **VNC Server** toggle key to enable a VNC connection from a remote device.
7. Click the **Warning on VNC access** toggle key if you want to show the VNC access warning at the start of the connection.
8. Click the **Remote access confirmation prompt on session start** toggle key if you want to show the VNC shadowing accept or decline prompt message. If enabled, the confirmation prompt is displayed at the start of the VNC session.
9. Click the **Password to establish VNC connection** toggle key to show a password prompt when connecting to a remote machine. Dell Technologies recommends that you enable this option to keep your VNC connection secured.
10. Enter a password for the VNC connection.
11. Click **Save and Publish**.

 **NOTE:** VNC connection works only when the user has logged in to Dell Hybrid Client.

Next steps


1. Start the system on which you want to access VNC.
2. Open the VNC viewer application.
3. Connect to Dell Hybrid Client remotely.

Enable GRUB Menu Password Protection

GRUB is the default boot loader. Dell Hybrid Client enables you to set a password for the GRUB boot menu to restrict access to specific operations such as enabling dev mode to access the terminal and user access to the GRUB boot menu.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Privacy & Security**, and click **GRUB Password**.
6. In the **GRUB Password** field, enter the password.

 **NOTE:** As an administrator, you must change the GRUB Menu password during the initial setup for improved security.

7. Click **Save & Publish**.
8. Power on the device powered by Dell Hybrid Client.
9. During boot, keep tapping the Esc key to enter the GRUB menu. When prompted, enter the password that you have specified in Wyse Management Suite.

Configure the Bremen password

Bremen account is activated only when dev mode is enabled on Dell Hybrid Client. As an administrator, you can use Bremen account to manage sudo or elevated privileges.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Privacy & Security**, and click **Bremen Password**.
6. In the **Bremen Password** field, enter the password.
7. Click **Save & Publish**.

Authentication types and setup

Table 14. Authentication types and setup

Component	Summary
Configuring local authentication sources	Not applicable.
Configuring Active Directory	Active directory domain join is supported. You must configure the settings from Wyse Management Suite. See, Joining Active Directory .

Table 14. Authentication types and setup (continued)

Component	Summary
Certificate/Key-based Authentication	Certificate-based authentication used for logging into VDI session is supported. Dell Hybrid Client does not support any other certificate-based authentication.
Multi-factor Authentication	Not supported.
Other Authentication Sources	Single Sign-On (SSO) is supported only for VDI sessions (Citrix and RDP only). Dell Hybrid Client does not support SSO for logging into the system.
Unauthenticated Interfaces	None.
Selecting Authentication Sources	Not applicable.

User and credential management

Table 15. User and credential management

Component	Summary
Preloaded accounts	The Guest account is a low-privilege account that is available for users who do not have an Active Directory account but need access to Dell Hybrid Client. For more information about configuring the guest user account setting using Wyse Management Suite, see Configure the guest user account settings .
Default credentials	Guest user is the default user without a password.
Disable local accounts	Guest user account can be disabled using Wyse Management Suite. For more information about how to enable or disable the guest user account using Wyse Management Suite, see Configure the guest user account settings .
Managing credentials	Account credentials can be managed from Wyse Management Suite through configuration push.
Securing credentials	Dell Hybrid Client transmits and receives encrypted data from various servers including the AD server, RDP server, Cloud server, and Wyse Management Suite server for information related to user authentication and user data. Libraries that are used are linked dynamically.
Password complexity	Password complexity can be set from Wyse Management Suite based on the need of your organization.

Authentication to external systems

- Supports Kerberos-based authentication for Dell RDP and Active Directory.
- Supports Azure and Google Cloud (GCP) with and without Single Sign-On (SSO).
- Supports Citrix with and without SSO.
- Supports VMware without SSO.
- Supports Wyse Management Suite authentication based on UID.

Authorization

- Using the SSH protocol, you can connect securely to Dell Hybrid Client from a remote device. See, [Configure the SSH settings](#).
- Using dev mode, you can access the terminal application and export system log files. See, [Enable dev mode in Dell Hybrid Client](#).

Network security

Table 16. Network security

Component	Summary
Network exposure	Following ports are used for HTTP and HTTPS communications between different services: <ul style="list-style-type: none">• 8000• 8010• 8008• 8001
Communication security settings	Device login is allowed only when a valid certificate is received from Wyse Management Suite. For devices that do not have valid certificates, only guest user login is allowed.

Data security

- User data is encrypted using the approved encryption method and stored in a database. The device-specific configurations are stored in the device-specific database and user level configurations are stored in the user database.
- Dell Hybrid Client does not log any sensitive data in the log file.
- All inputs are validated before passing them as parameters to respective scripts.
- Sensitive data is encrypted before storing and are decrypted when it is used by respective applications.
- User-specific data is deleted when you log off from the account.
- Dell Hybrid Client enables you to allow or block certain USB ports.

Manage USB devices

Dell Hybrid Client enables you to configure and manage the USB devices that are connected to your device using Wyse Management Suite. You can block access to USB devices, making them inaccessible from the client. This setting cannot be configured from user policy groups.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Groups & Configs** page, and select your preferred group.
3. Click **Edit Policies > Hybrid Client**.
The **Configuration Control | Hybrid Client** page is displayed.
4. Click the **Advanced** tab.
5. Expand **Privacy & Security**, and click **USB Lockdown**.
6. In the **USB Lockdown**, configure one of the following options:
 - **Enable all USB devices**—Click the **Enable all** toggle key to enable or disable the option. If this option is enabled, the operating system detects all USB devices that are connected to the device. If this option is disabled, you must enable one of the following options:
 - **Disable all excluding HID**
 - **Disable USB devices using Vendor ID/Product ID**
 - **Disable by USB class**
 - **Disable all excluding HID**—Click the **Disable all excluding HID** toggle key to enable or disable the option. If this option is enabled, the operating system detects only Human Interface Devices (HID) such as keyboard and mouse. If this option is disabled, you must enable one of the following options:
 - **Enable all USB devices**
 - **Disable USB devices using Vendor ID/Product ID**
 - **Disable by USB class**
 - **Disable USB devices using Vendor ID/Product ID**—If the **Enable all** and **Disable all excluding HID** options are disabled, use the **Disable USB devices using Vendor ID/Product ID** feature to block certain USB devices, making

them inaccessible from the client. You must specify the Vendor ID (VID) and the Product ID (PID) of the USB devices that you want to disable. To disable a USB device, do the following:

- a. Click **Add Row**.
- b. In the **Vendor ID** field, enter the vendor ID of the USB device.
- c. In the **Product ID** field, enter the product ID of the USB device. This is an optional field.

For example, `vvvv:pppp`, where `vvvv` is the device vendor ID and `pppp` is the device product ID.

- **Disable by USB class**—If the **Enable all** and **Disable all excluding HID** options are disabled, you can disable the USB devices by USB class. From the **USB classes to be disabled** drop-down list, select one or more USB classes.

7. Click **Save & Publish**.

8. Log in to the Dell Hybrid Client and connect a USB drive.

If you have enabled the USB drive, the operating system detects the USB drive that is connected to the client. If you have disabled the USB drive, the operating system cannot detect the USB drive that is connected to the client.

Cryptography

- AES 256 algorithm is used for encryption.
- TLS 1.2 is used for RDP connections.

Auditing and logging

Table 17. Auditing and logging

Component	Summary
Log protection	To comply with the security standards, Dell Hybrid client system does not log any sensitive data in the log file.
Logging format	Log format includes <time stamp> <Type> <Service> <log message>. Type specifies whether the log is an INFO, ERROR, or a DEBUG log.
Alerting	Alert logs are displayed on the system as notifications.

For more information about how to extract log files, see [Using log files for troubleshooting](#).

Code or product integrity

By default, Dell Hybrid Client enables you to install any Dell-signed third-party applications. All files that are distributed by Dell are signed applications. However, you can install any unsigned or custom-signed applications on Dell Hybrid Client. For more information about installing third-party applications, see [Installing third-party applications](#).

Reporting security vulnerabilities

Dell takes reports of potential security vulnerabilities in our products very seriously. If you discover a security vulnerability, you are encouraged to report it to Dell immediately.

For information on how to report a security issue to Dell, see the Dell EMC Vulnerability Response Policy on the [Dell.com](#) site.

Dell Hybrid Client recovery imaging

Use Wyse Management Suite to reinstall the Dell Hybrid Client software. During the process, the device uses the hard drive partition for recovery imaging.

Steps

1. Log in to Wyse Management Suite.
2. Go to the **Devices** page.
3. Apply the filters to find your preferred device.
4. Select the check box of the device. You can select one or more devices.
5. From the **More Actions** drop-down list, click **Reimage**.
6. Click **Send Command**.
The recovery imaging process takes approximately 10 minutes to complete.

Dell Hybrid Client troubleshooting

This section provides information about how to identify and resolve issues you may observe when using Dell Hybrid Client.

Using log files for troubleshooting

You can use log files to identify issues and troubleshoot your devices powered by Dell Hybrid Client.

Enable dev mode in Dell Hybrid Client

Dev Mode enables you to access the terminal application and export system logs.

Steps

1. Turn on the device powered by Dell Hybrid Client.
2. When the Dell logo appears, press the Esc key.
The Grub Boot menu is displayed.
3. Press the E key to edit the grub option.
4. Enter the grub credentials.
The default username is **admin**, and the default password is **zbfUMZpE6F0C**.
5. Edit the kernel parameter entry as follows:

- a. Add the string **dhc-dev-mode** to the kernel parameter.
For example,

```
BOOT_IMAGE=/boot/vmlinuz-5.0.0-1040-oem-osp1
root=UUID=98682104-07b9-4d5e-845a-2d9324c36f60 ro mem_sleep_default =deep quiet
splash dhc-dev-mode vt.handoff=1
```

- b. Press the Ctrl + X key combination to save your changes.
The device automatically reboots.
6. Log in to Dell Hybrid Client.
A terminal application is available in the desktop applications menu, and the export system logs option is available in Device Settings. Use the Bremen account to manage sudo or elevated privileges. Username is **bremen** and password is specified by the administrator during the initial setup.

 **NOTE:** The Dev Mode setting is disabled every time when you restart the device.

Next steps

Use the Export System Logs option to extract the Dell Hybrid Client system log files. For more information about how to export system logs, see [Extract log files using Device Settings](#).


Request log files using Wyse Management Suite

Prerequisites

The device must be enabled to pull the log file using Wyse Management Suite.

Steps

1. Go to the **Devices** page, and click a particular device.
The device details are displayed.

2. Click the **Device Log** tab.
 3. Click **Request Log File**.
 4. After the log files are uploaded to the Wyse Management Suite server, click the **Click here** link, and download the logs.
-  **NOTE:** When this method is used, all the files stored in `/var/log/dhc` are pulled to the Wyse Management Suite server.

Extract log files using Device Settings

Prerequisites

Ensure that you have enabled the dev mode in Dell Hybrid Client. For more information about how to enable dev mode, see [Enable dev mode in Dell Hybrid Client](#).

Steps

1. Log in to Dell Hybrid Client.
2. Connect a USB drive to the device.
3. On Dell Hybrid Client, go to **Device Settings**, and click **Export System Logs**.
The **Export System Logs** window is displayed.
4. Select the USB device from the list, and click **Export**.
All the system log files are exported to the USB drive.

Extract VDI log files

- Citrix and VMware logs are available in the Device Log files that are extracted using Wyse Management Suite. For more information about how to extract device logs using Wyse Management Suite, see [Request a log file using Wyse Management Suite](#).
- Dell RDP logs are available in Dell Hybrid Client. To view logs, do the following:
 1. Open the text editor.
 2. Add the following lines in a text file:

```
LogLevel=0xFFFFFFFFFFFFFFFFF
logLocation=/tmp/rdpLog.txt
failurelogfilelocation=/tmp/rdpFailLog.xml
```

3. Save the file as `debugLogConfig.ini` in the `/tmp` location on your device.
4. Launch the RDP icon.
Logs are generated in the `rdpLog.txt` file that is located in the `/tmp` folder.
5. Open the text editor again.
6. Open `rdpLog.txt` file from the `/tmp` folder to view the VDI logs.

Device is unable to register to Wyse Management Suite

Problem—Device is unable to register to the Wyse Management Suite server. Dell Client Agent (DCA) UI on the device displays an invalid error code from the Wyse Management Suite server.

Solution—Verify if the device status is displayed as **Not Registered** on the **Device** page in Wyse Management Suite. If the device status is displayed as Not Registered, you can delete the device from **More Actions**. Once the device is removed from the Not Registered status, the device will register successfully.

Enrollment validation is pending

Problem—Device does not appear on the Wyse Management Suite page even though the Dell Client Agent (DCA) UI on the device displays the status as **Registered**.

Solution—Verify if the Enrollment Validation is pending, and validate the enrollment using the **Validate Enrollment** option.

Frequently Asked Questions (FAQs)

- **Is Dell Hybrid Client an application based on Ubuntu operating system?**

Yes, Dell Hybrid Client is an application stack based on the Ubuntu 18.04 operating system. It is a desktop solution by Dell that follows the Software-as-a-Service (SaaS) model of software delivery.

- **Which edition of Wyse Management Suite does Dell Hybrid Client v1.1 support?**

Dell Hybrid Client v1.1 is supported on Wyse Management Suite Pro version 3.1 and later.

- **Which versions of Citrix and VMware clients does Dell Hybrid Client v1.1 support?**

Dell Hybrid Client v1.1 supports Citrix Workspace app version 2010 and VMware Horizon Client version 2006.

- **Can I add a user group based on OUs in Active Directory?**

Dell Hybrid Client supports OU User Group on Wyse Management Suite.

- **What takes precedence between Wyse Management Suite and Dell Hybrid Client local UI when conflicting settings are enforced?**

Configurations that are editable from the Device Settings UI take higher priority than those set from the Wyse Management Suite server. Settings that are supported as part of the user profile are preserved across devices. These settings are applicable only for the logged-in AD user. Few configurations such as Wallpaper cannot be configured using Wyse Management Suite and must be configured locally. Such settings are applied to a specific user profile on that particular device.

- **Will the changes made to the local device by one user have any effect on the user profile of a second user who logs in to the same device?**

The user-specific settings are not applied to another user profile. When a user configures the Device Settings using either Wyse Management Suite or the local UI, the user-specific configurations are preserved. Configurations that are not supported in user personalization (profile roaming) are saved locally in the device and are applied to that user profile during the next login.

- **Does Dell Hybrid Client support two-factor authentication such as Azure multifactor authentication?**

Dell Hybrid Client does not support two-factor authentication.

- **Does Dell Hybrid Client support the Relative Mouse Button feature in VMware Blast or PCoIP?**

There is no specific setting in Wyse Management Suite to enable or disable the Relative Mouse Button feature. If VMware supports this feature in Linux clients, it will work in Dell Hybrid Client.

- **Who are the major cloud providers supported by Dell Hybrid Client?**

Dell Hybrid Client supports Microsoft Azure and Google Cloud.

- **Can you recover Dell Hybrid Client by recovering the partition on the Wyse 5070 device?**

Dell Hybrid Client can be recovered from the recovering partition on the Wyse 5070 device.

- **How to recover the Dell Hybrid Client if the device does not boot?**

You must reimage the device from the recovery partition.

- **Can troubleshooting logs for Dell Hybrid Client be extracted?**

You can use Wyse Management Suite to extract the log files, or enable dev mode on Dell Hybrid Client to extract logs to a USB drive using the local device settings.

- **Is Dell Hybrid Client preinstalled on OptiPlex 7070 Ultra?**

Dell Hybrid Client is not preinstalled on OptiPlex 7070 Ultra. It is preloaded into the recovery partition but is not installed in the main operating system partition. You must manually install Dell Hybrid Client from recovery partition to the main operating system partition using Wyse Management Suite.

- **Are the Dell Hybrid Client logs for network trace, USB, and troubleshooting available in Wyse Management Suite?**

You can only extract system logs, and Dell Hybrid Client specific modules logs using Wyse Management Suite. Network trace logs are not supported.

- **Is there any noticeable delay in searching for the file from VDI to Cloud when priority is set using File Affiliation?**

Dell Hybrid Client will first try to open the file using VDI and if there is any failure, it immediately opens the file from the cloud application.

- **When you recover Dell Hybrid Client, will it also recover the third-party applications?**

Third-party applications are not recovered when you recover Dell Hybrid Client.

- **How long does the recovery process take on the Wyse 5070 device powered by Dell Hybrid Client?**

The image recovery process takes approximately 35 minutes on the Wyse 5070 device.

- **Does Dell Hybrid Client support Microsoft Office locally?**

Dell Hybrid Client does not support the local Microsoft Office. You can use the cloud office to open your files.

- **What is FTA?**

FTA stands for File Type Association. It is a correlation between a file type and an application. Dell Hybrid Client supports the file type association for Citrix, VMware, and RDP.

- **If you use an Ubuntu recovery image, how do you reload Dell Hybrid Client?**

If Dell Hybrid Client is loaded into the recovery partition of the Ubuntu recovery image, you can install Dell Hybrid Client from the recovery partition to the main operating system partition using Wyse Management Suite.

- **What is the size of the whole Dell Hybrid Client image?**

For information about the image size, refer the latest *Dell Hybrid Client 1.x Release Notes* at www.dell.com/support.