

PRIMERGY/PRIMEQUEST Server Systems for Windows Server 2025 (OEM & ROK)

With the release of Windows Server 2025, proudly presents the new lineup of its best selling PRIMERGY and PRIMEQUEST servers!

Windows Server 2025

Windows Server 2025 is the latest evolution in Microsoft's server operating systems, designed to meet the growing demands of modern enterprises. With enhanced security, superior performance, and innovative features, Windows Server 2025 provides a robust foundation for your IT infrastructure, ensuring efficiency, scalability, and reliability.

This new version introduces advanced threat protection, integrating real-time threat detection and response with built-in AI to safeguard your data and applications from sophisticated cyber-attacks. The Zero Trust Security Model is employed to verify every access attempt, ensuring only authorized users and devices can access your resources. Additionally, Secure Boot and System Guard enhance boot-time and runtime security to protect your server from firmware attacks and unauthorized changes.

Performance and scalability have been significantly improved with support for next-generation processors, allowing unparalleled performance and handling of demanding workloads with ease. Hybrid cloud integration enables seamless integration with Azure for cloud backup, disaster recovery, and burst scalability, providing a flexible hybrid environment. Storage Spaces Direct (S2D) utilizes high-speed storage solutions with built-in resiliency and efficiency, supporting massive data growth.

Simplified management is achieved through the Windows Admin Center, which allows central management of your servers with an intuitive web-based interface, simplifying administrative tasks and reducing operational overhead.

Automated deployment processes streamline installation and configuration, enabling faster and more consistent server deployments. Role-Based Access Control (RBAC) assigns granular permissions to users, ensuring they only have access to the resources they need.

The application platform has also been enhanced, with native support for running and managing Windows and Linux containers, facilitating modern application development and deployment paradigms. Improved virtualization capabilities with Hyper-V provide high availability, disaster recovery, and efficient resource usage. .NET and SQL Server integration has been optimized, offering new features and improvements tailored to these environments.

Windows Server 2025 is ideal for modernizing data center infrastructure with robust performance, security, and management tools to support enterprise applications and services. By choosing this operating system, you ensure that your IT infrastructure is secure, efficient, and prepared for future challenges.

For more information:
<https://www.microsoft.com/en-us/windows-server/blog/2024/05/29/gain-enhanced-security-and-performance-with-windows-server-2025/>

Windows Server 2025

Editions

The following editions of Windows Server 2025 are available: Datacenter, Standard, and Essentials. All editions include English, German, French, Italian, Spanish, Japanese, Simplified Chinese and Korean by default.

Delivery

OEM and ROK Windows Server Base Licenses ship with PRIMERGY server systems. OEM and ROK Windows Server Client Access Licenses, Remote Desktop Services Client Access Licenses, and Windows Server Additional Licenses may be obtained separately after PRIMERGY server systems are purchased.

Warranty

Products include a country-specific warranty.

Support Policy

Please refer to PRIMERGY support policy as well as Microsoft's support lifecycle:

<https://learn.microsoft.com/en-US/lifecycle/policies/fixes>



Product Lineup

The order number will be updated at a later date.

- Windows Server 2025 Datacenter Base License 16core
- Windows Server 2025 Datacenter Base License w/Reassignment 16 core
- Windows Server 2025 Datacenter Additional License, No Media/Key
- Windows Server 2025 Standard Base License 16 core (OEM / ROK)
- Windows Server 2025 Standard Additional License 2 / 4 / 16 core, No Media/Key, POS Only (OEM / ROK)
- Windows Server 2025 Standard Additional License 2 / 4 / 16 core, No Media/Key, APOS (OEM / ROK)
- Windows Server 2025 Essentials (OEM / ROK)
- Windows Server 2025 CAL
 - 100 Device
 - 50 Device
 - 10 Device
 - 5 Device
 - 1 Device
- Windows Server 2025 CAL
 - 100 User
 - 50 User
 - 10 User
 - 5 User
 - 1 User
- Windows Server 2025 RDS CAL
 - 100 Device
 - 50 Device
 - 10 Device
 - 5 Device
 - 1 Device
- Windows Server 2025 RDS CAL
 - 100 User
 - 50 User
 - 10 User
 - 5 User
 - 1 User

Windows Server 2025 – Editions and Features

Windows Server 2025 Editions at a Glance

Windows Server 2025 Datacenter

Windows Server 2025 Datacenter is designed for highly virtualized data centers and cloud environments. It offers the maximum level of security and brings the latest innovations to today's IT infrastructure. Windows Server 2025 Datacenter is the only edition of Windows Server 2025 that is full featured.

The Windows Server 2025 licensing model remains unchanged. For a server to be properly licensed, all physical cores of the server must be licensed. Client Access Licenses (CALs) are required to access servers licensed with Windows Server 2025 Datacenter.

Benefits

- **Azure Arc:** Azure Arc extends the capabilities of the Azure platform, allowing for the creation of applications and services that can operate in diverse environments. These include data centers, the edge, multicloud environments, and provide increased flexibility.
- **SMB NTLM disable option:** Windows Server 2025 supports blocking NTLM authentication for remote outbound connections. Blocking NTLM authentication prevents bad actors from tricking clients into sending NTLM requests to malicious servers, counteracting brute force, cracking, and pass-the-hash attacks. NTLM blocking is also required for switching an organization's authentication protocols to Kerberos, which is more secure than NTLM because it can verify server identities with its ticket system.
- **non-uniform memory access (NUMA) Support:** AD DS now takes advantage of Non-uniform Memory Access (NUMA) capable hardware by utilizing CPUs in all processor groups. Previously, AD would only use CPUs in group 0. Active Directory can expand beyond 64 cores.

Windows Server 2025 Standard

Windows Server 2025 Standard is for physical or minimally virtualized environments. The licensing details for Windows Server 2025 Datacenter also apply to Windows Server 2025 Standard and user or device CALs are required. Windows Server 2025 Standard allows two virtual machine instances.

Benefits

- **Desktop Shell:** Desktop shell experience conforms to the style and appearance of Windows 11.
- **SMB over QUIC:** SMB over QUIC introduces an alternative to the TCP network transport, providing secure, reliable connectivity to edge file servers over untrusted networks like the Internet.

Windows Server 2025 Essentials

Essentials is intended for small and midsize businesses with no more than 25 users or 50 devices. Available for certain server products with 1 CPU and a maximum of 10 cores. Also, no more than 1 virtual instances are allowed.

Benefits

- Unlike Datacenter or Standard, CALs are not required.

Feature Comparisons across WS 2025 Datacenter, WS 2025 Standard, and WS 2022 Datacenter

	<u>Windows Server 2025</u>		<u>Windows Server 2022</u>
	Datacenter	Standard	Datacenter
Secured-Core Server	Yes	Yes	Yes
.NET Framework 3.5	Yes	Yes	Yes
.NET Framework 4.8	Yes	Yes	Yes
System Insights	Yes	Yes	Yes
Windows Server Containers	Yes (Unlimited)	Yes	Yes (Unlimited)
Hyper-V Container	Yes (Unlimited)	Yes*	Yes (Unlimited)
Hyper-V scalability	2048VPs	2048VPs	1024VPs
Linux Container	Yes	Yes	Yes
Windows Defender Exploit Guard	Yes	Yes	Yes
Server Core Features on Demand	Yes	Yes	Yes
Kubernetes Platform Support	Yes	Yes	Yes
Server Management by Windows Admin Center	Yes	Yes	Yes
Storage Migration Service	Yes	Yes	Yes
Active Directory database page size	32K	32K	8K
By default, the Azure Arc setup Feature-on-Demand is installed	Yes	Yes	No
SMB NTLM disable option	Yes	Yes	No
SMB over QUIC	Yes	Yes	No
AD DS uses CPUs from all processor groups and can utilize Non-Uniform Memory Access (NUMA) capable hardware.	Yes	Yes	No
GPU partitioning	Yes	Yes	No
Unify the desktop experience with Windows11	Yes	Yes	No
Web-Lgcy-Mgmt-Console	No	No	Yes
Wordpad	No	No	Yes
SMTP Server	No	No	Yes
Windows PowerShell 2.0 Engine	No	No	Yes

Windows Server 2025 – Editions and Technical Specifications

Technical Specification	WS 2025 Datacenter	WS 2025 Standard	WS2025 Essentials
Licensing Model	TBD	TBD	TBD
Maximum physical CPUs supported by PRIMERGY	4 CPUs	4 CPUs	1CPU
Maximum physical cores supported by PRIMERGY	256 cores	256 cores	10 cores
Maximum physical CPUs / cores supported by PRIMEQUEST	4 CPUs / 240cores	4 CPUs / 240 cores	---
VM-use rights included per product	Unlimited VMs	2VMs*1	1VM*2

Maximum physical RAM supported	TBD	TBD	TBD
Hyper-V role supported	Yes (incl. Shielded VMs)	Yes	Yes
Hyper-V Memory	240TB	240TB	12TB
Maximum number of 64-bits sockets	64	64	1
Active virtual machines supported	1024	1024	1
Maximum nodes per cluster	64	64	Not supported
Maximum number of users / devices	Based on CALs	Based on CALs	25/50
Remote Desktop Services supported	Yes	Yes	Yes
CALs required / included in Base License	Yes/0	Yes/0	No
RDS CALs required for RDS / included in Base License	Yes/0	Yes/0	Yes/0
Admin connections allowed w/o CAL	TBD	TBD	TBD
Can act as Domain Controller (AD)	Yes	Yes	Yes

- 1 Although WS 2025 Standard includes the right to run up to 2 virtual machines, Additional Licenses must be purchased to run more than 2 virtual machines. Furthermore, for every 2 additional virtual machines, Additional Licenses must be obtained in such a way as to fulfill core-based license requirements for the physical server.
- 2 Only Windows Server 2025 Essentials as a guest OS.

Technical Details

Please note that the information provided below is current as **31st Aug 2024**

SOFTWARE	
Server Operating System	Windows Server 2025
Windows Server 2025 Editions	Datacenter, Standard and Essentials
Product Update	Windows Update
HARDWARE	
Minimum Hardware Requirement	Minimum hardware requirements are set by Microsoft. PRIMERGY/PRIMEQUEST server systems, scale-out servers (formerly server blades), and nodes are (or will be) certified— "logo'd," so to speak—by Microsoft and hence meet (or will meet) the minimum hardware requirements.
Server Systems for Windows Server 2025	<p>Release planned for: PRIMERGY TX1320 M6/ TX1330 M6/ RX1330 M6/ TX2550 M7/ RX2530 M7/ RX2540 M7/ RX4770 M7/ CX2560 M7*/ RX1440 M2/ RX2450 M2/ PRIMEQUEST 4400E*</p> <p>Successors to the above servers will also be supported.</p> <p>*: Please obtain and install from other form of selling as the OEM license is not available for this model.</p>
Storage Systems	JX40 S2, JX60 S2
System Requirements for Servers	<p>TPM2.0 is mandatory for Windows Server 2025. Because the Order Number of TPM is different for each Server, check the system configurator files at the following URL (service partners only). https://extranet.ts.fujitsu.com/com/tools/configure/server/Pages/Currentconfigurator.s.aspx</p> <p>◆No TPM for Windows Server Option Even with the TPM2.0 required machine shown above, [No TPM for Windows Server] (PYBNTPM) will enable these customers to decline to include TPM 2.0 if it is not needed when Windows Server 2025 Base Licenses are selected.</p> <p>-Cases where TPM2.0 is not needed</p> <ol style="list-style-type: none">Windows Server 2025 is to be used in the virtualized environment while VMware is to be used as a virtualization platform.Actually downgrade software (ex. Windows Server 2019) is to be installed in the physical environment. though a Windows Server 2025 license is used. <p>-Caveat If installing Windows 2025Server 2.0 in a physical environment, the TPM 2.0 customer should include it, not [No TPM for Windows Server]. By removing TPM 2.0 as needed, customers know:</p> <ol style="list-style-type: none">that they are aware that TPM 2.0 is required with Windows Server 2025 when it is used in the physical environment.that they are aware that TPM2.0-required machines configured without TPM 2.0 though Windows Server 2025 is to be used in the physical environment do not meet the hardware requirements for Windows Server 2025 set by Microsoft.that they are aware that the Secured-core server feature will not function without TPM 2.0, and that they have nonetheless selected to configure Windows Server 2025 without TPM 2.0 on their own volition.

WINDOWS SERVER 2025 INSTALLATION OPTIONS

"Server with Desktop Experience" & "Server Core" Installations

"Server with Desktop Experience" and "Server Core" installation options are available for Windows Server 2025.

FUJITSU SERVERVIEW SUITE

ServerView

We are preparing The Fujitsu ServerView Suite for Windows Server 2025. We will post it as soon as it becomes available.

LANGUAGES

Windows Server 2025 Datacenter, Standard, and Essentials are multilingual and include the following languages by default: English, German, French, Italian, Spanish, Japanese, Simplified Chinese, and Korean.

HYPER-V

Hyper-V

Windows Server 2025 Datacenter, Standard, and Essentials provide Hyper-V. Hyper-V enables you to create and manage virtualized computing environments through Windows Server 2025's built-in virtualization technology. Hyper-V is supported on all PRIMERGY and PRIMEQUEST servers.

Supported Guest Operating Systems (Server & Client)

Operating systems that can be used as guest operating systems (whether server or client) in Windows Server 2025's Hyper-V environment will be announced later. Install Integration Services after you set up the operating system in the virtual machine. Supported guest operating systems and Service Packs can be found at <https://learn.microsoft.com/en-us/windows-server/virtualization/hyper-v/Hyper-V-Technology-Overview>

Guest operating systems must be properly licensed.

Acquired AQ

Secured-Core Server

Secured-Core Server provides Hardware root-of-trust, Firmware protection, and Virtualization-based security (VBS).

- Secured-Core Server comes standard with TPM 2.0, which provides a secure location for data and helps protect BitLocker functionality.

If you use Secured-Core Server, TPM 2.0 is required.

- Protect your firmware with security critical hypervisor from security vulnerabilities reported in the firmware area using Dynamic Root of Trust of Measurement (DRTM) technology processor support and DMA protection.

- Protect against overall vulnerabilities by supporting VBS and HVCI.

Please check the Windows Server Catalog for more information for supported models.

<https://www.windowsservercatalog.com/results.aspx?&bCatID=1333&cpID=22617&avc=132&ava=130&avt=0&avq=140&OR=1&PGS=25>

SDDC Premium AQ

Windows Server 2025 can use Storage Spaces Direct the same way as Windows Server 2022.

Server will get the SDDC Premium AQ recommended by Microsoft.

For PRIMERGY and PRIMEQUEST models with which SDDC Premium AQ can be used, please refer to the following URL.

<https://www.windowsservercatalog.com/results.aspx?&bCatID=1333&cpID=22617&avc=126&ava=130&avt=0&avq=117&OR=1&PGS=25>

Enhanced Power Management

The Enhanced Power Management feature will provide cost-savings associated with reducing power consumption on each server. They will also help with capacity planning by making power consumption and power budget information available to administrators. This helps enable more efficient allocation of power and cooling

	<p>infrastructure in the data center. System Center Operations Manager (SCOM) provides a Management Pack that takes advantage of all of these new features in Windows Server. Any server that qualifies for the Enhanced Power Management qualifier has native support for the features in this Management Pack.</p> <p>For PRIMERGY and PRIMEQUEST models with which Enhanced Power Management can be used, please refer to the following URL. https://www.windowsservercatalog.com/results.aspx?&bCatID=1333&cplID=22617&avc=126&ava=130&avt=0&avq=117&OR=1&PGS=25</p>
Hardware Assurance	<p>Hardware Assurance-certified systems can support all hardware and firm ware technologies required for higher levels of security. Those technologies are:</p> <ul style="list-style-type: none">· Trusted Platform Module version 2.0 or later· UEFI version 2.31c or higher firmware support· SecureBoot· IO Memory Management Unit (IOMMU) <p>For PRIMERGY and PRIMEQUEST models with which Hardware Assurance can be used, please refer to the following URL. https://www.windowsservercatalog.com/results.aspx?&bCatID=1333&cplID=22617&avc=126&ava=130&avt=0&avq=89&OR=1&PGS=25</p>
RESTRICTIONS	
	<p>Please do not use WS2025 until it is supported. Restrictions will be published after supported.</p>
LICENSING	
Right to Use — Base License	<p>Windows Server 2025 products are licensed on the per-core basis.</p> <p>The Windows Server (WS) Base License is permanently assigned to the PRIMERGY server with which you acquired that software. (It is, however, possible to move a Base License from one server to another with the purchase of reassignment licenses.) You may not assign a single WS Base License to multiple servers. WS 2025 Datacenter and Standard require Client Access Licenses (CALs), though they are not included in WS 2025 Base Licenses. CALs are required for every user or every device that accesses servers licensed with Windows Server.</p> <p>Virtual machines (VMs) are not tied to servers permanently. All types of WS licenses support VM portability. VM instances are license agnostic (OEM or VL), and you can dynamically move VM instances to any servers, capable of running VMs, licensed with proper WS editions. You have the right to run as many VM instances on your servers as license terms allow.</p> <p><u>COA label and Product Key cannot be reissued if lost. Must be kept for future reference.</u></p>
Right to Use — Additional License	<p>There are two kinds of OEM Additional Licenses: POS (i.e., Point of Sale) and APOS (i.e., After POS). POS Additional Licenses must be purchased with base licenses and may not be purchased after the initial server sale. APOS Additional Licenses can be purchased after the initial server sale and can be reassigned from the server for which they are purchased to another server if the latter server is properly licensed with a base license.</p>
Right to Use — Client Access License (CAL)	<p>CALs are required to access any WS 2025 Datacenter or Standard instances (physical or virtual). CALs must be purchased separately from base licenses. OEM CALs are not tied to servers. Additional OEM CALs may be purchased after the initial server sale. CALs are channel agnostic; any CALs (OEM or VL) can be used to access any WS</p>

	<p>(OEM or VL) machines.</p> <p>OEM CALs are independent of base licenses and remain valid even after base licenses are retired. CALs are required for every user or every device that directly accesses servers licensed with Windows Server. CALs are not required for anonymous users who access such servers over the internet.</p>
End User License Agreement	<p>Delivered with license products as a printed document. By using the software, you accept its license terms. If you do not accept them, do not use it. Instead, contact Fujitsu to inquire about our return policy and apply for a refund or credit.</p>
Product Activation Notice to End Users — OEM	<p>Certain Microsoft software included on servers may employ copyright protection measures. Unless the software is activated, you have no right to use it after its activation period. This is to prevent its unauthorized use. You may not bypass or circumvent activation. The activation procedure and Microsoft's privacy policy will be displayed when the software is launched for the first time, when it is reinstalled, or when your computer is reconfigured. Product activation may be completed by Internet or telephone (toll charges may apply). You will be re-minded to activate until you do so. PRIMERGY server systems that ship with Windows Server 2025 OEM licenses will have Windows Server 2025 pre-activated.</p>
Product Activation Notice to End Users — ROK	<p>Certain Microsoft software included in servers may employ copyright protection measures. Unless the software is activated, you have no right to use it after its activation period. This is to prevent its unauthorized use. You may not bypass or circumvent activation. The activation procedure and Microsoft's privacy policy will be displayed when the software is launched for the first time, when it is reinstalled, or when your computer is reconfigured. Product activation may be completed by Internet or telephone (toll charges may apply).</p>
Downgrade Rights	<p>Windows Server 2025 Datacenter, Standard, and Essentials licenses include a downgrade or down-edition right, or both. Typically, customers who request a downgrade would already have a server running the (older) version of Windows Server they are seeking to downgrade to; hence, customers who wish to exercise a downgrade right that their Windows Server 2025 license entitles would usually have a server running Windows Server 2022 or an earlier WS version, for example. Those customers may use their existing media and keys to exercise their downgrade right. That customers elect to use a downgrade version does not change the terms and conditions of the license product they purchased. Therefore, customers who purchased a Windows Server 2025 license have to abide by Windows Server 2025 license's terms and conditions even when they exercise their downgrade right. Likewise, virtualization rights stay unaltered when downgrade rights are exercised; if Windows Server 2022 Standard is used via a Windows Server 2025 Standard license's downgrade right, that license still permits two instances of virtual machine, for example. Upon request, Fujitsu provides downgrade media or product key (or both).</p> <ul style="list-style-type: none"> • Windows Server 2025 Datacenter includes downgrade and down-edition rights to Windows Server 2025 Standard and Essentials; Windows Server 2022 Datacenter, Standard, and Essentials; Windows Server 2019 Datacenter, Standard and Essentials. • Windows Server 2025 Standard includes downgrade and down-edition rights to Windows Server 2025 Essentials; Windows Server 2022 Standard and Essentials; Windows Server 2019 Standard and Essentials. • Windows Server 2025 Essentials includes downgrade rights to Windows Server 2022 Essentials and Windows Server 2019 Essentials. <p>One DG/DE kit for down-grade and/or one DG/DE kit for down-edition can be ordered. If you down-grade and down-edition at once (e.g., from WS2025 Dtc to WS2022 Std), it is regarded as down-grade. Therefore, customers can order up to two DG/DE kit but the following combinations cannot be ordered;</p>

	<div>- DG/DE kit from different edition one by one. (e.g., WS2022 Standard DG/DE kit x1 and WS2022 Datacenter DG/DE kit x1 not available for purchase by customers using WS2025 Datacenter)</div> <div>- DG/DE kit from different OS version one by one. (e.g., WS2022 Datacenter DG/DE kit x1 and WS2019 Standard DG/DE kit x1 not available for purchase by customers using WS2025 Datacenter)</div>
Downgrading Windows Server CALs	Downgrading Windows Server 2025 CALs (Client Access Licenses) does not require end users to take special action or obtain separate product keys.

SOFTWARE ASSURANCE	<p>Software Assurance is Microsoft's maintenance program. Its benefits include new version rights, additional use rights, installment payment plans, consulting services, training, and much more. You must sign up for Software Assurance within the 90 days of your software purchase. If you purchase a Software Assurance (SA) policy for your OEM license, use of that software becomes subject to Microsoft Product Use Rights and the terms and conditions of your organization's volume licensing agreement. Your software's OEM terms are reinstated after the expiration of your SA policy.</p> <p>Software Assurance, Microsoft Volume Licenses, and Microsoft Products and Services Agreements must be obtained from authorized Microsoft Licensing Solution Partners (LSPs). Fujitsu is an authorized Microsoft LSP around the world, including the European Union and European Free Trade Association countries. For assistance, please contact PM-Team-LAR@ts.fujitsu.com.</p>
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FUJITSU CUSTOMER SUPPORT	<p>Basic installation support is provided free of charge. Windows Server 2025 initial installation issues that pertain to PRIMERGY server systems' hardware warranty or hardware support services are handled by Fujitsu Maintenance Organizations. Basic installation support covers issues related to the installation of an operating system as a POSE (Physical Operating Software Environment) on PRIMERGY server systems. Support for issues related to VOSE (Virtual Operating System Environment) installation is not free. Customers needing advanced levels of product support are advised to purchase such services as Fujitsu Support Pack Software, Fujitsu Service Contract Software, and Fujitsu Installation Pack. Those services are not included in Windows Server licenses (whether OEM or ROK) and must be purchased separately. For more information about those services, please see http://www.fujitsu.com/fts/products/product-support-services/.</p>
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PRODUCT SUPPORT LIFE CYCLES	<p>Please refer to Microsoft's support lifecycle for Windows Server 2025 as well as PRIMERGY lifecycle policy.</p> <p>Microsoft's Windows Server 2025 support lifecycle begins: on or shortly after GA</p> <p>Microsoft's Mainstream Support ends: about 5 years after GA</p> <p>Microsoft's Extended Support ends: about 5 years after Mainstream Support ends</p> <p>https://learn.microsoft.com/en-US/lifecycle/policies/extended</p>
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Contact

Fujitsu Ltd.

Website: <https://www.fujitsu.com/emeia>

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