Microsoft Windows Server 2025

Microsoft Windows Server 2025 1 Device CAL WW LTU (P77111-B21)

What's new

- Digital media delivery: HPE OEM with Windows Server 2025 Licenses are now streamlined and sustainable. Users can download installation media from My HPE Software Center.
- Hotpatch: Security updates with no reboot (available for Azure Arc-enabled servers) and multi-layered security; secured-core server technology: Trusted Platform Module 2.0 and System Guard.
- Active Directory (AD): LDAP support for TLS 1.3 helps remove obsolete cryptographic algorithms; Kerberos support for AES SHA-256/384; new domain controllers increased to 32K pages; added RootDSE mod.
- WAC for hybrid and on-premises server management; containers extension in WAC; decreased size of WS core container base; simplify containerizing .NET, ASP.NET, Web Deploy, and MSI applications.
- Hyper-V: GPU partitioning (GPU-P) allows to share a GPU across multiple VMs; support for live migration and failover clustering; VM scalability: support for 240 TB of RAM; support

Overview

Are security threats, performance issues, and hybrid environments limiting your organization's ability to scale and innovate? Microsoft Windows Server 2025 secures and optimizes your infrastructure, ensuring future-readiness and agility. It builds on proven security and hybrid capabilities, introducing enhanced performance for compute-intensive workloads like ML and AI. Optimized for both cloud and on-premises use, it integrates seamlessly with Microsoft Azure Arc to maximize your hybrid, multicloud, and edge IT environments. Paired with HPE servers, Windows Server 2025 delivers optimized hardware-software integration, enhanced performance, and robust security. With the new digital media delivery, user experience is simplified while promoting sustainability by replacing physical media with digital downloads, reducing waste. This transition gives users faster software access and efficient license management, streamlining operations and supporting eco-friendly practices.

for 2048 LPs.

- Storage migration services: Optimized NVMe; lower CPU utilization; software-defined storage enhancements: Resilient File System (ReFS)-optimized deduplication and compression.

Features

Advanced Security

For hybrid use cases when using Microsoft Windows Server 2025, both on-premises and on Azure: Get crucial updates with less downtime. Hotpatching allows many security updates to be applied without a need to reboot. Add-on service is available for Azure Arc-enabled servers.

Multi-layered security; secured-core server technology: Trusted Platform Module 2.0 and system guard to boot up Windows Server more securely and minimize risk from firmware vulnerabilities.

Windows Defender Credential Guard virtualization-based security (VBS): Windows Defender Exploit Guard offers a set of host intrusion prevention capabilities. Integrated Windows Defender Advanced Threat Protection (ATP) gives access to deep kernel and memory sensors.

VBS enclaves enable isolation of sensitive workloads; VBS key protection to protect cryptographic keys.

AD: LDAP support for TLS 1.3 helps remove obsolete cryptographic algorithms; Kerberos support AES SHA-256/384; new domain controllers increased to 32K pages; added RootDSE mod; Microsoft Windows Server 2025 supports AES-256-GCM and AES-256-CCM cryptographic suites for SMB encryption.

Hybrid Cloud Capabilities

WAC: Hybrid and on-premises server management at no additional cost.

Azure hybrid services tool in WAC and Azure Monitor; seamless management of hybrid server environments, storage migration, system insights (predictive analytics capabilities native to Windows Server), protecting VMs and synchronizing file servers.

For hybrid use cases when using Microsoft Windows Server 2025 both on-premises and on Azure: Azure Monitor can collect data directly from physical or virtual Windows computers into a Log Analytics workspace for detailed analysis and correlation.

High-Performance Infrastructure

Microsoft Windows Server 2025 delivers a modern operating system that enables enhanced VM memory, expanded processor and device support, superior congestion control, and improvements in encryption and networking.

Storage Migration Service provides a graphical tool that inventories data on Windows, Linux®, and NetApp Common Internet File System (CIFS) servers and then transfers the data to newer servers or Azure virtual machines.

The containers extension in WAC enable the containerization of apps as well as troubleshooting for containers running on a host, such as opening a console connection to a container, checking logs, monitoring resource consumption, and more.

Microsoft drastically decreased the size of the Windows Server core container base image by reducing duplicate payloads and removing unused optional components.

Windows Server 2025 introduces native deduplication and compression for ReFS, optimizing storage for active workloads like VMs, file servers, and backups while improving efficiency.

Digital Media Delivery format

This modernized approach not only simplifies the UX but also supports sustainability by helping eliminate physical media, reducing waste, and reducing environmental impact. By transitioning to digital delivery, HPE empowers users with faster access to their SW and efficient licensing management.

Technical specifications	Microsoft Windows Server 2025 1 Device CAL WW LTU
Product Number	P77111-B21
Length of support	Perpetual License

HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

Advisory & Professional services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

Support services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

— **HPE Complete Care Service:** a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.

— **HPE Tech Care Service:** the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

— **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

For additional technical information, available models and options, please reference the QuickSpecs

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Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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