

### Overview

#### Microsoft Windows Server 2016

Microsoft Windows Server 2016 is scalable and adaptive operating system designed to support the most demanding workloads, provide enterprise level security for your IT infrastructure, and enable cloud migration at you own pace. By combining new layers of security with advanced features to improve productivity and efficiency, it delivers powerful innovations that enable you to use your applications and infrastructure to transform your business.

Today's most business owners face daily challenges in running their businesses, and one of the more difficult challenges can include managing an IT infrastructure. Windows Server 2016 is designed to help...

##### **Safeguard your business:**

Windows Server 2016 technologies have protections built-in to help safeguard data across devices and apps onsite or in the cloud, help you recover from business disruptions

##### **Improve IT efficiency and productivity:**

To help deliver increased efficiency and maximize your IT investment, Windows Server 2016's technology gives you the business tools of a much larger company, at the right price

##### **Ready for the cloud:**

Whether you are moving to the cloud now or in the future; Get the best of both worlds, Microsoft technologies are designed for hybrid cloud IT environments

Leveraging a 30 year partnership with Microsoft, HPE helps you maximize advanced features and functionality in Windows Server 2016 to achieve greater security control, modernize your infrastructure to help improve efficiency and productivity, and hybridize your datacenter Hewlett Packard Enterprise delivers Microsoft Windows Server 2016 Support for ProLiant Servers, see support details at <http://www.hpe.com/servers/wincert>. In addition, Hewlett Packard Enterprise offers Windows Server OEM licensing for the following editions:

- [Datacenter edition](#) ideal for companies of all sizes that have demanding IT workloads, require advanced storage, virtualization and application deployment
- [Standard edition](#) for businesses that need advanced features, support for distributed office locations, and require a flexible way to virtualize their environment
- [Essentials edition](#) for small companies with basic IT needs purchasing a first server; likely small or no dedicated IT department. Essentials edition will be available from HPE as OEM option on 2017 Q1.

**NOTE:** For more information on Hewlett Packard Enterprise's offering of Microsoft Windows Server 2016 products, go to: <http://www.hpe.com/servers/ws2016>

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#### What's New

- Introducing Windows Server 2016 Standard and Datacenter editions, as well as Windows Server 2016 Client Access Licenses (CALs)
- Windows Server 2016 Essentials edition part numbers will be available from HPE as OEM option on 2017 Q1.

## Additional Features

### Microsoft Hardware Specifications for Standard and Datacenter editions:

Unless otherwise specified, these minimum system requirements apply to both Standard and Datacenter editions.

<b>Processor</b>	<p>Processor performance depends not only on the clock frequency of the processor, but also on the number of processor cores and the size of the processor cache. The following are the processor requirements for this product:</p> <p>Minimum:</p> <ul style="list-style-type: none"><li>• 1.4 GHz 64-bit processor</li><li>• Compatible with x64 instruction set</li><li>• Supports NX and DEP</li><li>• Supports CMPXCHG16b, LAHF/SAHF, and PrefetchW</li><li>• Supports Second Level Address Translation (EPT or NPT)</li></ul> <p><b>Coreinfo</b> is a tool you can use to confirm which of these capabilities your CPU has.</p>
<b>RAM</b>	<p>The following are the estimated RAM requirements for this product:</p> <p>Minimum:</p> <ul style="list-style-type: none"><li>• 512 MB (2 GB for Server with Desktop Experience installation option)</li><li>• ECC (Error Correcting Code) type or similar technology</li></ul>
<b>Storage controller and disk space requirements</b>	<p>Computers that run Windows Server 2016 must include a storage adapter that is compliant with the PCI Express architecture specification. Persistent storage devices on servers classified as hard disk drives must not be PATA. Windows Server 2016 does not allow ATA/PATA/IDE/EIDE for boot, page, or data drives.</p> <p>The following are the estimated minimum disk space requirements for the system partition.</p> <p>Minimum: 32 GB</p>
<b>Network adapter requirements</b>	<p>Minimum:</p> <ul style="list-style-type: none"><li>• An Ethernet adapter capable of at least gigabit throughput</li><li>• Compliant with the PCI Express architecture specification.</li><li>• Supports Pre-boot Execution Environment (PXE).</li></ul> <p>A network adapter that supports network debugging (KDNet) is useful, but not a minimum requirement.</p>
<b>Other requirements</b>	<p>Computers running this release also must have the following:</p> <ul style="list-style-type: none"><li>• DVD drive (if you intend to install the operating system from DVD media)</li></ul> <p>The following items are not strictly required, but are necessary for certain features:</p> <ul style="list-style-type: none"><li>• UEFI 2.3.1c-based system and firmware that supports secure boot</li><li>• Trusted Platform Module</li><li>• Graphics device and monitor capable of Super VGA (1024 x 768) or higher-resolution</li><li>• Keyboard and Microsoft® mouse (or other compatible pointing device)</li><li>• Internet access (fees may apply)</li></ul>

For more detail about Windows Server 2016 System Requirements visit:

<https://technet.microsoft.com/windows-server-docs/get-started/System-Requirements>.

## Additional Features

### Microsoft Windows Server 2016 Standard Edition 16 Core Pre-Installed on Gen9 ProLiant Servers

**NOTE:** Unified Extensible Firmware Interface (UEFI) is an industry standard set of interfaces between the system firmware and the operating system, and between various components of the system firmware. UEFI enables numerous new capabilities, for more information please read the whitepaper [UEFI: successor to legacy BIOS](#).

**NOTE:** Include x64 DVD media and COA. Sold only as a configurable option with a ProLiant server purchase.

**NOTE:** Include downgrade kit to Windows Server 2012 R2 Standard edition, media and product key.

**NOTE:** Standard Edition provides rights for up to two OSEs or Hyper-V containers when all physical cores in the server are licensed. For every two additional VMs, all the cores in the server have to be licensed again.

Additional licenses for Windows Server 2016 Standard are available in packs of two, four, and sixteen cores.

Microsoft Windows Server 2016 Standard Edition Pre-Installed (FIO) UEFI 16 Core

871143-B21

### Microsoft Windows Server 2016 Standard Edition 16 Core OS Not Pre-Installed

**NOTE:** Include x64 DVD media and COA. Sold only as a configurable option with a ProLiant server purchase.

**NOTE:** Include downgrade kit to Windows Server 2012 R2 Standard edition, media and product key.

**NOTE:** Standard Edition provides rights for up to two OSEs or Hyper-V containers when all physical cores in the server are licensed. For every two additional VMs, all the cores in the server have to be licensed again.

Additional licenses for Windows Server 2016 Standard are available in packs of two, four, and sixteen cores.

Microsoft Windows Server 2016 Standard Edition Not Pre-installed (FIO Npi) 16 Core

871147-B21

### Microsoft Windows Server 2016 Standard Edition 16 Core Reseller Option Kit (ROK)

**NOTE:** Available for purchase from your local Hewlett Packard Enterprise Authorized Reseller. Standard Edition includes x64 DVD media and COA. Reseller must affix the COA to the server and may preinstall the OS before delivery of the server.

**NOTE:** Include downgrade kit to Windows Server 2012 R2 Standard edition, media and product key.

**NOTE:** Standard Edition provides rights for up to two OSEs or Hyper-V containers when all physical cores in the server are licensed. For every two additional VMs, all the cores in the server have to be licensed again.

Additional licenses for Windows Server 2016 Standard are available in packs of two, four, and sixteen cores.

Microsoft Windows Server 2016 Standard Edition ROK 16 Core

871148-B21

### Microsoft Windows Server 2016 Standard Edition Additional License

**NOTE:** Standard Additional Licenses include COA, will not include an activation key because will be activated with license key from the base OS license. Additional Licenses do not include media.

**NOTE:** Can be sold with or without a ProLiant Server – After Point of Sale (APOS).

**NOTE:** End Users can reassign Windows Server Standard Additional licenses to another server that has a Windows Server 2016 Standard base license.

Microsoft Windows Server 2016 Standard Edition Additional License 16 Core

871157-DN1

Microsoft Windows Server 2016 Standard Edition Additional License 4 Core

871158-DN1

Microsoft Windows Server 2016 Standard Edition Additional License 2 Core

871159-DN1

### Microsoft Windows Server 2016 Datacenter Edition 16 Core - No Reassignment Rights

## Additional Features

### OS Not Pre-Installed

**NOTE:** Include x64 DVD media and COA. Sold only as a configurable option with a ProLiant server purchase.

**NOTE:** Include downgrade kit to Windows Server 2012 R2 Datacenter edition, media and product key.

**NOTE:** Datacenter edition permits unlimited OSEs and Hyper-V containers on a server when all physical cores in the server are licensed. Additional Licenses for Windows Server 2016 Datacenter are available in packs of two, four, and sixteen cores.

Microsoft Windows Server 2016 Datacenter Edition Not Pre-installed (FIO Npi) 16 Core - No Reassignment Rights

871150-B21

### Microsoft Windows Server 2016 Datacenter Edition 16 Core - No Reassignment Rights

#### Reseller Option Kit (ROK)

**NOTE:** Available for purchase from your local Hewlett Packard Enterprise Authorized reseller. Datacenter Edition includes x64 DVD media and COA. Reseller must affix the COA to the server and may preinstall the OS before delivery of the server to the end-customer.

**NOTE:** Include downgrade kit to Windows Server 2012 R2 Datacenter edition, media and product key.

**NOTE:** Datacenter edition permits unlimited OSEs and Hyper-V containers on a server when all physical cores in the server are licensed. Additional Licenses for Windows Server 2016 Datacenter are available in packs of two, four, and sixteen cores.

Microsoft Windows Server 2016 Datacenter Edition ROK 16 Core - No Reassignment Rights

871153-B21

### Microsoft Windows Server 2016 Datacenter Edition 16 Core - with Reassignment Rights

#### Reseller Option Kit (ROK)

**NOTE:** Available for purchase from your local Hewlett Packard Enterprise Authorized reseller. Datacenter Edition includes x64 DVD media. Reseller may preinstall the OS before delivery of the server to the end-customer.

**NOTE:** Datacenter edition permits unlimited OSEs and Hyper-V containers on a server when all physical cores in the server are licensed. Additional Licenses for Windows Server 2016 Datacenter are available in packs of two, four, and sixteen cores.

**NOTE:** The server OS license can be reassigned to another server for any reason (hardware failure, maintenance, upgrade, etc.). The COA is affixed to a license card which is the end user's proof of license for purposes of exercising the reassignment license rights. The server OS license may be reassigned by an end user to a different physical server no more than once every 90 days. Other rights and limitations are described on the license card.

**IMPORTANT:** Hewlett Packard Enterprise cannot provide downgrade media or keys for Microsoft Windows Server 2016 Datacenter with reassignment rights part numbers per Microsoft policy. Downgrade rights for these part numbers are limited to media and keys the customer already owns.

Microsoft Windows Server 2016 Datacenter Edition with Reassignment Rights ROK 16 Core

871154-B21

### Microsoft Windows Server 2016 Datacenter Edition Additional License

**NOTE:** Datacenter Additional Licenses include COA, will not include an activation key because will be activated with license key from the base OS license. Additional Licenses do not include media. Sold only as a configurable option with a ProLiant server purchase.

Microsoft Windows Server 2016 Datacenter Edition Additional License 16 Core

871166-DN1

## Additional Features

Microsoft Windows Server 2016 Datacenter Edition Additional License 4 Core	871167-DN1
Microsoft Windows Server 2016 Datacenter Edition Additional License 2 Core	871168-DN1

### Microsoft Windows Server 2016 - Remote Desktop Services 5 Device CAL

**NOTE:** Sold from Hewlett Packard Enterprise and authorized resellers with or without a ProLiant Server.

**NOTE:** Use of Remote Desktop Services requires a Windows Server CAL and an RDS CAL for each user or device.

Microsoft Windows Server 2016 Remote Desktop Services 5 Device CAL	871233-DN1
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### Microsoft Windows Server 2016 - Remote Desktop Services 5 User CAL

**NOTE:** Sold from Hewlett Packard Enterprise and authorized resellers with or without a ProLiant Server.

**NOTE:** Use of Remote Desktop Services requires a Windows Server CAL and an RDS CAL for each user or device.

Microsoft Windows Server 2016 Remote Desktop Services 5 User CAL	871232-DN1
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### Microsoft Windows Server 2016 50 User CAL

**NOTE:** Sold from Hewlett Packard Enterprise and authorized resellers with or without a ProLiant server.

Microsoft Windows Server 2016 50 User CAL	871181-B21
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### Microsoft Windows Server 2016 50 Device CAL

**NOTE:** Sold from Hewlett Packard Enterprise and authorized resellers with or without a ProLiant server.

Microsoft Windows Server 2016 50 Device CAL	871182-B21
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### Microsoft Windows Server 2016 10 User CAL

**NOTE:** Sold from Hewlett Packard Enterprise and authorized resellers with or without a ProLiant server.

Microsoft Windows Server 2016 10 User CAL	871179-B21
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### Microsoft Windows Server 2016 10 Device CAL

**NOTE:** Sold from Hewlett Packard Enterprise and authorized resellers with or without a ProLiant server.

Microsoft Windows Server 2016 10 Device CAL	871180-B21
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### Microsoft Windows Server 2016 5 User CAL

**NOTE:** Sold from Hewlett Packard Enterprise and authorized resellers with or without a ProLiant server.

Microsoft Windows Server 2016 5 User CAL	871177-DN1
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### Microsoft Windows Server 2016 5 Device CAL

**NOTE:** Sold from Hewlett Packard Enterprise and authorized resellers with or without a ProLiant server.

Microsoft Windows Server 2016 5 Device CAL	871178-DN1
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### Microsoft Windows Server 2016 1 User CAL

## Additional Features

**NOTE:** Sold from Hewlett Packard Enterprise and authorized resellers with or without a ProLiant server.

Microsoft Windows Server 2016 1 User CAL

871175-DN1

## Microsoft Windows Server 2016 1 Device CAL

**NOTE:** Sold from Hewlett Packard Enterprise and authorized resellers with or without a ProLiant server.

Microsoft Windows Server 2016 1 Device CAL

871176-DN1

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### HPE Integrated Lights Out (iLO)

HPE iLO Essentials is the preferred license for small and medium business that offers full remote server management capabilities for small and medium business via the Integrated Remote Console (IRC), virtual media, and e-mail based alerts. Learn more about HPE iLO Essentials at <http://www.hpe.com/servers/iLO/essentials>.

HPE iLO Advanced licenses offer smart remote functionality without compromise, for all HPE ProLiant servers. The license includes the full integrated remote console, virtual keyboard, video, and mouse (KVM), multi-user collaboration, console record and replay, and GUI-based and scripted virtual media and virtual folders. You can also activate the enhanced security and power management functionality. Learn more about HPE iLO Advanced at <http://www.hpe.com/servers/iLOadvanced>.

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### HPE Insight Control

HPE Insight Control, a product option, delivers essential infrastructure management that can help save time and money by making it easy to deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. HPE Insight Control also supports Location and Power Discovery Services to automate many configuration, asset tracking, and power management tasks to speed implementation and prevent downtime. For more information, see: <http://www.hpe.com/info/insightcontrol>.

HPE Insight Control includes one year of 24x7 HPE Software Technical Support and Update Service ensuring rapid access to Hewlett Packard Enterprise support staff and proactive delivery of software updates. For more information about this service, see: <http://www.hpe.com/services/foundationcare>.

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### Software Technical Support

HPE Foundation Care Services provide reliable and consistent support to keep your business up and running. Within Foundation Care HPE offers several ways for you to obtain support for your Microsoft solution. If your purchase includes the software licenses for Microsoft products, you receive 90 days of telephone support for setting up your Microsoft software. You can also purchase more extensive support to cover your requirements.

HPE Software Technical Support provides remote software support services for Microsoft Windows Server 2016. With HPE Software Technical Support, your IT staff receives fast and reliable access to HPE Global Support Centers. Hewlett Packard Enterprise technical resources work with your IT team to provide advice on software features and use, problem diagnosis and resolution, software defect identification, and access to patches.

This service also provides electronic access to comprehensive support information allowing any member of your IT staff to locate essential product and support information. Software Technical Support for Microsoft Windows Server 2016 is available from Hewlett Packard Enterprise via multiple contact methods including electronic media and telephone. Software Technical Support includes:

- **24x7 access to technical resources** - Connect with HPE Global Solution Center engineers via telephone, electronic communication, or FAX for assistance in resolving software implementation or operations problems. Service is available around the clock every day, including all holidays.
- **Problem analysis and resolution** - HPE Services provides corrective support to resolve

## Additional Features

identifiable and reproducible software product problems, and to help you identify problems that are difficult to reproduce. You can also receive assistance in trouble-shooting problems and setting configuration parameters.

- **Software features and operational support** - Hewlett Packard Enterprise provides information on the latest product features and known problems and solutions, plus operational advice and assistance.
- **Escalation management** - Established escalation procedures enlist specialized expertise from Hewlett Packard Enterprise to Microsoft Windows.
- **Electronic software information** - Access Hewlett Packard Enterprise's electronic support facility including symptom-solution database, product descriptions, specifications, technical literature, and more.

Software technical support does NOT include assistance with:

- Generating or diagnosing user generated programs or source codes
- Installation of non-Hewlett Packard Enterprise products

**NOTE:** For more information, visit: <http://www.hpe.com/services/foundationcare>.

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### Microsoft Software Assurance

Boost productivity across your organization with new software versions, deployment planning services, 24x7 phone and web support, end-user training, unique desktop technologies and more, all in one cost-effective program.

With New Product Versions, every Microsoft product license that is covered by Software Assurance can be upgraded to the most recent version.

For example, if a new version of Microsoft Windows Server is made available during the term of your coverage, your licenses will automatically be upgraded to the new version. Customers that acquire perpetual licenses through Software Assurance can deploy the upgrades after their coverage has expired.

**NOTE:** For more information, please visit: <http://www.microsoft.com/sa>

**NOTE:** You can purchase Software Assurance directly from HPE Software Licensing and Management Solutions (**HPE SLMS**) or your local Hewlett Packard Enterprise authorized reseller. SA is only available for the latest version of Microsoft products.

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### HPE Software Licensing and Management Solutions (SLMS)

HPE SLMS provides prime source licensing fulfillment and software license management solutions for various Microsoft operating systems and applications volume licenses to large multinational enterprise or domestic companies. Hewlett Packard Enterprise provides a global sales channel for all Microsoft program and services and will work with you to select the program that best suits your needs. Hewlett Packard Enterprise offers three comprehensive Microsoft licensing programs: Open, Select and Enterprise License.

**NOTE:** For more information on HPE SLMS, visit:

<http://www8.hp.com/us/en/business-services/slms/strategic-vendors/microsoft.html>

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### Windows Server Catalog Definition

Microsoft's certification program allows HPE ProLiant servers a compatibility certification with Windows Server operating systems. HPE ProLiant Servers listed in the Windows Server Catalog have been rigorously tested and certified with Microsoft Windows Server 2016.

**NOTE:** For information on ProLiant servers certified for Windows server, visit:

<http://www.hpe.com/servers/wincert>.

**NOTE:** For details on Microsoft's server catalog and also a list of HPE ProLiant certified servers, visit: <http://www.windowsservercatalog.com/>.

## Summary of Changes

Date	Version History	Action	Description of Change
28-Nov-2016	Version 1	Added	New QuickSpecs.



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c05324623 - 15750 - North America - V1 - 28-November-2016