Boost your bottom line

with Windows Server 2019 Datacenter

Microsoft

Looking for ways to save money, be more efficient, and boost your bottom line?

Want to implement an upscale, future-looking technology infrastructure at the same time?

Windows Server 2019 Datacenter Edition is the way to get there.

Datacenter edition capitalizes on hyper-converged infrastructure (HCI) and virtualization technology to give you flexible storage, efficient computing options and elevated system security. The result is an affordable, up-scale datacenter positioned to grow.

Purchasing Windows Server 2019 Datacenter edition with a Lenovo server is easy. It has its own part number for quick ordering and is supported by Lenovo to help ensure a great experience.

What's virtualization?

Server virtualization is the partitioning of a physical server into smaller virtual servers, called virtual machines (VMs), to help maximize your server resources.

What's a hyper-converged infrastructure (HCI)?

HCI consolidates software-defined compute, storage, and networking into one cluster to provide high-performance, cost-effective, and easily scalable virtualization.

Flexible, affordable, forward-thinking. Different is the future.

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2 REASONS

Virtualization and hyper-converged infrastructures (HCI) are good for your business

1. Lower costs by improving server use and increasing performance.

Make more efficient use of your Lenovo servers.

2. Improve security and data protection.

Detect, protect and secure your data system and prevent costly incidents.

- Virtualization increases your system's efficiency by consolidating physical servers and running multiple VMs, each with a different workload.

- You can move VMs between physical servers with no downtime or loss of data. Take advantage of hybrid capabilities by easily deploying VMs in the cloud or on-premises.

- 13.7 million IOPS: Take advantage of industry storage record holding technology provided by Windows Server 2019 software defined storage.[1]

- HCI allows you to consolidate with industry-standard hardware allowing you to buy what you need today and seamlessly scale out in the future. You can reduce the amount of costly storage and networking appliances running in your datacenter.

- Windows Server 2019 Datacenter shields virtual machines (VMs), including Linux virtual machines. It also allows unlimited VMs to minimize the impact of malware by isolating different workloads in separate VMs.

- HCI features help keep apps and data secure with network micro-segmentation, and native encryption for data at rest and in transit.

- With failover clustering and live migration, you can take advantage of unlimited VMs to protect workloads by spreading VMs across different servers or moving them to the Azure cloud to minimize the risk of downtime and be better prepared for disaster recovery.

https://blogs.technet.microsoft.com/filecab/2018/10/30/windows-server-2019-and-intel-optane-dc-persistent-memory/

Datacenter vs. Standard Edition:
Feature comparison

Feature Description	Datacenter Edition	Standard Edition
Core Windows Server functionality	●	●
Hybrid integration	●	●
Hyper-converged infrastructure (HCI)	●	●
VMs*/Hyper-V containers	UNLIMITED	2*
Windows Server containers	UNLIMITED	UNLIMITED
Host Guardian Service	●**	●
Storage Replica	●	●
Shielded Virtual Machines	●	
Software defined networking	●	
Software defined storage	●	

*Windows Server Standard Edition license includes permission for two OSEs or VMs.

**Limited to single volume up to 2TB.

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Datacenter Edition - specific features

🗄 STORAGE

Storage Spaces Direct enables building highly available (HA) storage systems with inexpensive local storage. Achieve Industry-leading virtual machine performance with millions of IOPS and consistent sub-millisecond latency.

Want to prove how fast your storage deployment is? Use the performance history feature that gives Storage Spaces Direct administrators easy access to historical compute, memory, network, and storage measurements across host servers, drives, volumes, virtual machines, and more. Performance history is collected automatically and stored on the cluster for up to one year.

🔒 SECURITY

Shielded Virtual Machines are protected against unauthorized access using various technologies such as encryption of virtual disks with support for Linux virtual machines.

⊚ INFRASTRUCTURE

Hyper-converged infrastructure (HCI) is one of the latest trends in the server industry today. HCI gives organizations the flexibility to easily scale their datacenter using software-defined compute, storage, and networking technology from Microsoft. Lenovo makes this even easier with the XClarity management tool that integrates Lenovo hardware specific management features into Windows Admin Center for a single pane of glass management experience.

Software-defined networking (SDN) provides a method to centrally configure and manage physical and virtual network devices. Additionally, Windows Server 2019 now supports IPv6 and dual stack IPv4/IPv6 addressing.

ThinkAgile MX Certified Node

Lenovo offers Microsoft Windows Server Software Defined (WSSD) solutions and has designed the ThinkAgile MX series to deliver a high-performance, high-capacity, low-cost HCI-experience. The result is that you can quickly deploy a robust, high-performance storage solution and rapidly solve your IT challenges.

Windows Server 2019 Datacenter supports unlimited virtual machines, containers and advanced HCI capabilities at no extra cost.

For Datacenter edition parts numbers and more information on Lenovo with Windows Server 2019,

visit www.lenovosalesportal.com.