

# Cloud-ready when you are

## Bridge on-premises and cloud with Windows Server 2019

While cloud services are essential to digital transformation—enriching customer experiences through the latest artificial intelligence capabilities and scaling apps globally—many organizations also want to drive innovation at the edge, starting in their datacenters. Making this work requires a connected experience across the cloud and edge and a consistent set of experiences for security, containers, and management.

Windows Server 2019 helps you grow your business—and extend operations to the cloud—from a position of strength. It maximizes your existing investments and builds on Windows Server security, app innovation, and Hyper-Converged Infrastructure capabilities to help you bridge your on-premises investments to the cloud.

## Seamless hybrid operations

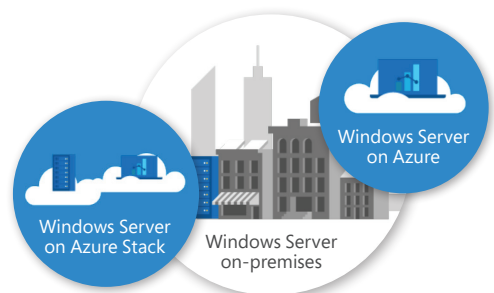
Many existing applications can move fast to cloud. In most cases, however, organizations will need to manage multiple environments. Rather than piece together a custom solution, professionals can turn to Windows Server 2019 and existing skills and knowledge to extend datacenters to the cloud. Plus, they can use the same technologies to manage and secure it all.

### Unique hybrid capabilities

- **Extend datacenter to the cloud.** Only Microsoft offers consistent hybrid services, including a common identity platform with Active Directory, a common data platform built on SQL Server technologies, and hybrid management and security.
- **Add built-in hybrid management capabilities.** Windows Admin Center delivers an elegant, browser-based view of Windows Server workloads running on-premises and in Azure. Easily connect Windows Server deployments to Azure services and use natively integrated services such as Azure Backup and Azure Site Recovery without disrupting applications and infrastructure.

### Windows Server promise:

Supporting you wherever you are



### License innovation

Organizations that need faster access to new features and capabilities typically choose the Semi-Annual Channel as the servicing option versus the more traditional Long-Term Servicing Channel (LTSC).

The Semi-Annual Channel offers a release every six months, with 18 months of support. Each release will build on the prior one and add new capabilities. In contrast, LTSC offers releases every two to three years, and includes five years of mainstream support and five years of extended support. Semi-Annual Channel capabilities are eventually rolled into a future Long-Term Servicing Channel release.

The Semi-Annual Channel works well for customers that are innovating quickly in applications, particularly those built on containers and microservices architectures, plus customers moving to a software-defined hybrid datacenter. If you don't have Software Assurance active for your Windows Server licenses, you can use the Semi-Annual Channel images available in the Azure marketplace or images provided by your cloud service provider.

## Enhanced security

Privacy and compliance concerns are some reasons organizations choose to keep data on-premises. Safeguard intellectual assets with enhanced protections made possible by Microsoft's annual security investment of \$1 billion and broader support for Linux.

- **Manage privileged identities.** Many breaches can be prevented by protecting administrator credentials. Windows Server 2019 ensure that all apps and system components have just enough access privilege.
- **Secure the operating system.** Discover and address security breaches with integrated Windows Defender Advanced Threat Detection. Help prevent host intrusion with Windows Defender Exploit Guard, which locks down devices against attack vectors and blocks behaviors commonly used in malware attacks.
- **Secure fabric virtualization.** Protect VM workloads from unauthorized access, with Shielded Virtual Machines for Windows Server or Linux workloads. Protect network traffic with the flip of a switch with Encrypted Subnets.

## Faster app innovation

Container technologies in Windows Server 2019 help IT pros and developers collaborate as part of a DevOps approach to deliver applications faster. You can also deliver container benefits to existing apps with minimal code changes by moving apps from virtual machines to containers.

- **Modernize apps faster with container support.** Windows Server 2019 delivers a smaller Server Core container image for speedier download and offers enhanced support for compute, storage, and networking of Kubernetes clusters and the Red Hat OpenShift Container Platform.
- **Improve Linux operations.** Building on previous support to run Linux and Windows containers side by side, Windows Server 2019 reduces complexity by enabling developers to use standard tools such as Open SSH, Curl, and Tar.

## Unprecedented hyper-converged scale

Hyper-converged features introduced in Windows Server 2016 helped changed the way IT pros scaled storage and compute, and technology in Windows Server 2019 enhances these capabilities for faster time to value.

- **Microsoft-validated solutions ready to go.** Use turnkey Hyper-Converged Infrastructure solutions from your preferred hardware partner participating in the Windows Server Software Defined (WSSD) program.
- **Get industry leading performance.** Configurations are optimized for each partner's hardware and focus on performance, capacity, or a balanced approach.
- **Simplified management.** Simplify daily management of HCI deployments with Windows Admin Center, an elegant, lightweight browser-based, locally-deployed platform that brings together your resources for visibility and action.



## Bring Windows Server licenses to Azure

Save money when you use Windows Server licenses in Azure. The Azure Hybrid Benefit lets you bring your on-premises Windows Server licenses with Software Assurance to Azure. Rather than paying the full price for a new Windows Server virtual machine, you pay a reduced compute rate.

## Simplify datacenter management today

Optimized for Windows Server 2019, Windows Admin Center helps you manage your Windows Server workloads, running on-premises and in Azure. [Get it now](#) for a glimpse of the future and a clear view of your servers, clusters, Hyper-Converged Infrastructure, WSSD partner solutions, and Windows 10 PCs.

## Take the next steps

Download Windows Server 2019 preview  
<http://aka.ms/WS2019Preview>

Download Windows Admin Center  
<http://aka.ms/WindowsAdminCenter>

Check out the WSSD program  
<http://aka.ms/WSSD>