

DataON Hybrid Cloud Solutions for Microsoft Azure Stack HCI

Run Virtual Machines On-Premises and Easily Connect to Azure

Solution highlights

- World-class hyper-converged infrastructure stack that includes Hyper-V, Storage Spaces Direct, and Azure-inspired software-defined networking
- Delivered as an Azure service with hybrid built in, with integration with Azure Portal, Azure Arc, and Azure Resource Manager, plus Azure-based monitoring, security, and backup
- New product experience with annual feature updates that are free, one-click, and non-disruptive
- Microsoft-validated solution to get you up and running without lengthy design and build times
- Customized, turnkey solutions, from 4-node solutions for enterprise data centers to 2-node solutions for SMB, ROBO, edge, and IoT environments

Many companies and organizations are turning to hyper-converged infrastructure (HCI) to modernize their data center. HCI brings together highly virtualized compute, storage, and networking on industry-standard x86 servers and components.

Azure Stack HCI is a new server operating system in the Microsoft portfolio that delivers hyper-converged infrastructure with hybrid cloud built in. It delivers innovation that's focused on being the best virtualization host and is the future of Hyper-V virtualization, software-defined storage, and networking. In addition, Microsoft holds the HCI industry performance record, achieving 13.7M IOPS with Azure Stack HCI and Intel® Optane™ DC persistent memory.

Microsoft was named a Visionary in Gartner's Magic Quadrant for Hyperconverged Infrastructure (December 2020). Gartner touted Microsoft's strength as a vendor that "can provide organizations a comprehensive edge, core data center and cloud portfolio, with many common components and familiar management tools."

Microsoft's cloud services are powered by Microsoft Azure, which is used by more than 95 percent of Fortune 500 companies across the globe. Azure has over 30 years of experience serving enterprise customers. Gartner has positioned Microsoft as a Leader in its Magic Quadrant for Cloud Infrastructure as a Server (IaaS) (September 2020).

Modern Subscription for Familiar, Flexible HCI

Azure Stack HCI is a member of the Azure Stack family. It features the same Hyper-V based software-defined compute, storage, and networking as Azure Stack and shares similar testing and validation criteria.

The new Azure Stack HCI OS will feature a new subscription model that's paid through an Azure account, and pricing that scales down for edge. It has the same core OS components, same management track, and the same hardware catalog.

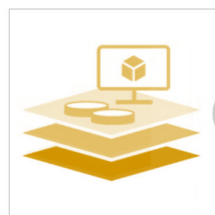
World-class hyper-converged infrastructure stack – Includes Hyper-V for secure, efficient virtualization of Windows and Linux; Storage Spaces Direct for fast enterprise-grade storage; and Azure-inspired software-defined networking.

Delivered as an Azure service with hybrid built in – Always up-to-date subscription for software and support; integrates with Azure Portal, Azure Arc, and Azure Resource Manager (ARM); and natively monitor, secure, and backup to the cloud.

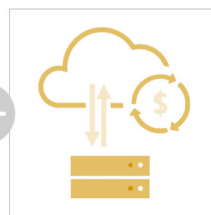
Familiar for Hyper-V and server administrators – Leverage existing virtualization and storage concepts and skills; works with System Center, AD/GPO, and PowerShell; and works with popular third-party backup, security, and monitoring tools.

New product experience – No more multi-year waiting for new features or painful migrations. Annual feature updates are free, one-click, and non-disruptive.

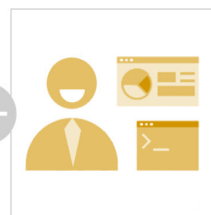
Run key virtual applications and workloads – Highly available and resilient performance for SQL Server databases and virtual desktops with edge-local access.



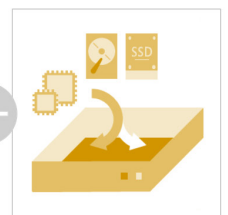
World-class hyper-converged infrastructure stack



Delivered as an Azure service with hybrid built in



Familiar for Hyper-V and server administrators




Flexible hardware choices from your preferred vendor

Solution features


- Powered by 3rd Generation Intel® Xeon® processors that enable greater efficiencies and lower TCO
- Designed with Intel® Optane™ DC SSDs and DC Persistent Memory technologies to achieve unprecedented SSD storage and memory performance
- Validated solution with 25/40/100GbE RDMA SMB3 networking fabric, supporting RoCE and iWarp for high performance and low latency
- Scale your HCI cluster from 2 to 16 nodes and leverage cluster sets for multi-cluster support
- Deploy software-defined converged storage and expand with JBODs to up to 4TB per cluster

4-Node+ solutions for enterprise data centers



HCI-6112	HCI-6208	HCI-6212	HCI-6216	HCI-6224
Size & performance	Performance & expansion	IOPS & capacity	IOPS & performance	IOPS & performance
All-NVMe Flash	All-NVMe Flash	Hybrid	All-NVMe Flash	All-NVMe Flash
1U / 1-Node rack 12x 2.5" NVMe U.2	2U / 1-Node rack 8x 2.5" NVMe U.2	2U / 1-Node rack 2x 2.5"/3.5" NVMe U.2 + 10x 3.5" SAS/SATA	2U / 1-Node rack 16x 2.5" NVMe U.2	2U / 1-Node rack 24x 2.5" NVMe U.2
3rd Generation Intel® Xeon® Scalable processors				
Two to sixteen nodes per cluster, plus, cluster set for multi-cluster support				

Kepler Switchless solutions for SMB, ROBO, edge & IoT



Kepler-47 G2	K2N/K3N-6112	K2N/K3N-6208	K2N/K3N-6212	K2N/K3N-6224
Hybrid or All-Flash	All-NVMe Flash	All-NVMe Flash	Hybrid	All-NVMe Flash
Mini-tower	1U / 1-Node rack 12x 2.5" NVMe U.2	2U / 1-Node rack 8x 2.5" NVMe U.2	2U / 1-Node rack 2x 2.5"/3.5" NVMe U.2 + 10x 3.5" SAS/SATA	2U / 1-Node rack 24x 2.5" NVMe U.2
Intel® Xeon® E-2126G 3.3Hz	3rd Generation Intel® Xeon® Scalable processors			
Two to three nodes per cluster (directly connected)				

Modernize your Data Center with DataON Solutions for Azure Stack HCI

Use DataON solutions for Azure Stack HCI instead of a traditional server infrastructure to run key virtual applications and workloads in a highly available and resilient fashion. Refresh aging virtualization hosts and improve security and scale. Eliminating legacy SAN storage enables you to reduce your footprint and TCO.

DataON offers customized, turnkey solutions, from 4-node solutions for enterprise data centers to 2-node solutions for SMB, ROBO, edge, and IoT environments. Our Kepler 2-node solutions feature switchless back-to-back networking for peak simplicity and affordability from under \$20K per location. DataON solutions are powered by the latest Intel technologies, including 3rd Generation Intel® Xeon® Scalable processors, Intel® Optane™ DC persistent memory, and Intel® Optane™ SSDs.

Simplified Management for Azure Stack HCI with Windows Admin Center and DataON

DataON solutions for Azure Stack HCI include DataON's MUST extension for Microsoft Windows Admin Center. Our third-generation MUST tool provides real-time monitoring with alerts that free system administrator from continually monitoring their data center. It adds to the Windows Admin Center experience, adding historical data reporting, disk mapping, system alerts, and call home support.

Windows Admin Center is a locally deployed, browser-based app that simplifies server management, works with hybrid solutions, and streamlines hyper-converged environments. It comes at no additional cost beyond Windows and is ready to use in production. Windows Admin Center also enables you to take advantage of Azure cloud management and security services, including off site backup, site recovery, and cloud-based monitoring through DataON MUST monitoring agents.

About DataON

DataON is a hybrid cloud computing company focused on delivering Microsoft Azure Stack HCI solutions, on-premises storage systems, intelligent edge appliances, and cloud-based Microsoft Azure Services. Our company is helping enterprises and customers who have made the "Microsoft choice" to modernize their IT with Microsoft applications, virtualization, and data protection through a complete and turnkey experience. With over 650 HCI clusters and 150PB of storage deployed, DataON enterprise-level solutions are designed to provide the highest level of performance, manageability, and security offered. DataON is a Microsoft Gold Partner, Microsoft Cloud Service Provider (CSP), and an Intel Platinum Partner.



www.dataonstorage.com

dataon_sales@dataonstorage.com

1.714.441.8820

Copyright © 2021 DataON. All Rights Reserved. Specifications may change without notice. DataON is not responsible for photographic or typographical errors. DataON, the DataON logo, MUST, and the MUST logo are trademarks of DataON in the United States and certain other countries. Other company, product, or services names may be trademarks or service marks of others.