

# 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, plus Azure-based monitoring, security, and backup
- New product experience with feature updates that are at no cost, one-click, and non-disruptive
- DataON offers customized, turnkey solutions, from Azure Stack HCI integrated systems for enterprise data centers to Azure Stack HCI validated nodes 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 host server operating system in the Microsoft hybrid portfolio that delivers hyper-converged infrastructure with hybrid cloud capabilities 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 (November 2019). 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 fees."

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 Service (IaaS) (July 2019).

## Modern Subscription for Familiar, Flexible HCI

Azure Stack HCI is a member of the Azure Stack family. It has the same core OS components, same management track, and the same hardware catalog. However, the new host operating system will feature a new subscription model that's paid through an Azure account, and pricing that scales down for edge.

**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** – Up-to-date subscription for software and support; integrates with Azure; and natively monitor, secure, and backup to the cloud.

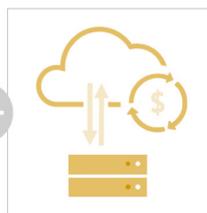
**Familiar for Hyper-V and server administrators** – Leverage existing virtualization and storage concepts and skills; works with System Center, AD/GPO, and PowerShell; and works with popular third-party backup, security, and monitoring tools.

**New product experience** – No more waiting for new features. Updates are at no cost, one-click, and non-disruptive.

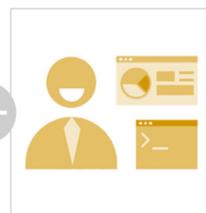
**Run key virtual applications and workloads** – Highly available and resilient performance for SQL Server databases and virtual desktops with edge-local access.



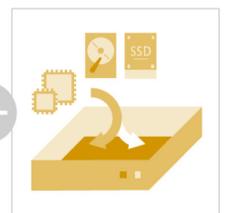
World-class hyper-converged infrastructure stack



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 2nd 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
- 25/50/100GbE RDMA SMB3 networking fabric supports RoCE and iWarp for high performance and low latency
- Scalable from 2 to 16 nodes and leverages cluster sets for multi-cluster support
- Expandable with JBODs, up to 4PB per cluster

## 4-Node+ Azure Stack HCI solutions for enterprise data centers



HCI-108	HCI-212	HCI-216	HCI-668
Slim & high performance	IOPS & capacity	IOPS & performance	Capacity optimized
All-NVMe flash	Hybrid	All-NVMe flash	Hybrid
1U / 1-Node rack 8x 2.5" Bays	2U / 1-Node rack 12x 2.5" Bays	2U / 1-Node rack 16x 2.5" Bays	6U / 1-Node rack External JBOD
2 <sup>nd</sup> Generation Intel® Xeon® Scalable Processors			
Two to sixteen nodes per cluster; plus cluster set for multi-cluster support			

## Kepler 2-Node Azure Stack HCI solutions for SMB, ROBO, edge & IoT



Kepler-47 G2	K2N/K3N-108	K2N/K3N-212	K2N/K3N-224
Hybrid or all-flash	All-NVMe	Hybrid	All-NVMe
Mini-tower	1U / 2-Node rack 8x 2.5" Bays	2U / 1-Node rack 12x 3.5" Bays	2U / 1-Node rack 24x 2.5" Bays
Intel® Xeon® E-2126G 3.3Hz	2 <sup>nd</sup> Generation Intel® Xeon® Scalable Processors		
Two or three nodes per cluster (directly connected)			

## Modernize your Data Center with DataON Solutions for Azure Stack HCI

DataON is one of the first Microsoft partners to offer fully integrated solutions for the new Azure Stack HCI. Integrated solutions provide a complete and turnkey experience that DataON is renowned for. These multi-node solutions consist of premium-level Windows Server-certified hardware components and pre-installation of Azure Stack HCI. They are jointly supported by DataON and Microsoft for over five years, with ongoing testing and validation. Integrated solutions from DataON are orderable through both DataON and Microsoft.

DataON offers customized, turnkey solutions, from Azure Stack HCI integrated systems for enterprise data centers to Azure Stack HCI validated nodes for SMB, ROBO, edge, and IoT environments. Our Kepler 2- and 3-node switchless solutions feature back-to-back networking for peak simplicity and affordability.

DataON solutions for Azure Stack HCI are also verified Intel® Select Solutions for Azure Stack HCI, featuring 2nd Generation Intel® Xeon® Scalable processors, Intel® Optane™ DC SSDs, and Intel® Optane™ DC Persistent Memory. DataON offers all four validated configuration solutions: data center base, data center plus, edge base, and edge plus.

## 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.

## 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.



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