

Azure Stack HCI - the good, the bad and the fantastic

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and Azure MVP
www.hyper-v-server.de
 @hypervserver

The GOOD

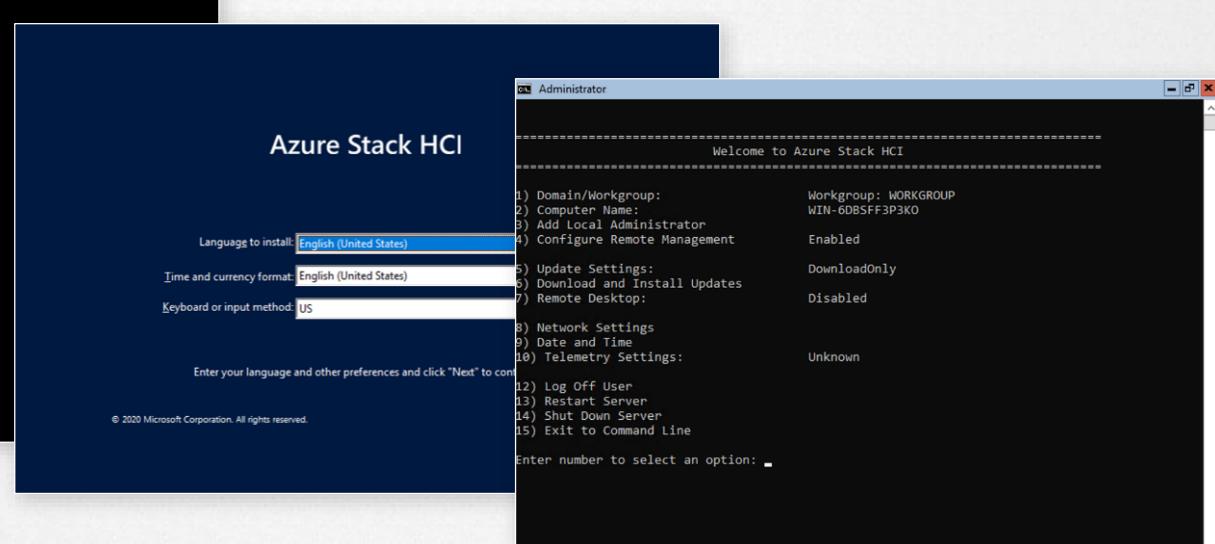
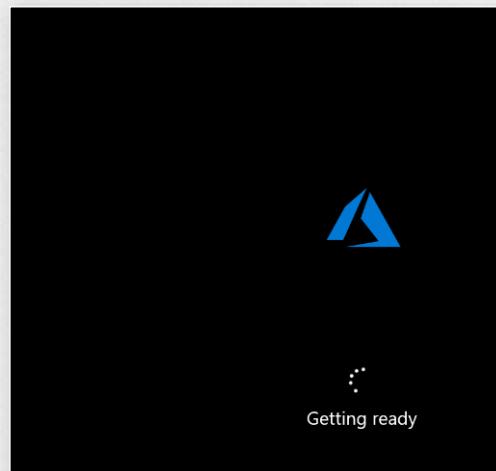


Specialized host operating system

Latest Azure hypervisor with built-in software-defined storage and networking

Optimized for virtualization with reduced composition

Minimal local user interface, designed for remote management



Windows Admin Center

Windows Admin Center | Cluster Manager lenovocluster.powerkurs.local

Dashboard

This cluster has an available extension: Lenovo XClarity Integrator. [Update now](#)

Alerts (Total 4)

SERVER LENOVOH01 21 days ago Available memory is below your configured threshold of 0.100000. [View all](#)

Azure connection PREVIEW

Status Not registered Recommended [Register this cluster](#)

Servers (Total 4) Critical 4 Drives (Total 56) All drives healthy Virtual machines (Total 0) Running 0 Volumes (Total 6) All volumes healthy

CPU usage Total 2.3% of 100% Memory usage Total 90.5% of 1 TB Storage usage Used 1.7 TB Available 32.3 TB Total size 34 TB

Cluster performance

IOPS Total 281 Latency Average 477 µs

Hour Day Week Month Year

1 hour ago Now 1 hour ago Now Activate Windows

Search Tools

Dashboard Computer

Virtual machines Servers Storage

Volumes Drives

Storage Replica Networking

Virtual switches Tools

Azure Monitor

Updates Diagnostics

Performance Monitor

Settings



Add or create resources

Choose the type of resource that you want to add or create.



Servers

Connect to servers running Windows Server or Azure Stack HCI.

[Add](#)

Windows PCs

Connect to Windows 10 PCs.

[Add](#)

Server clusters

Add or create clusters running Windows Server or Azure Stack HCI.

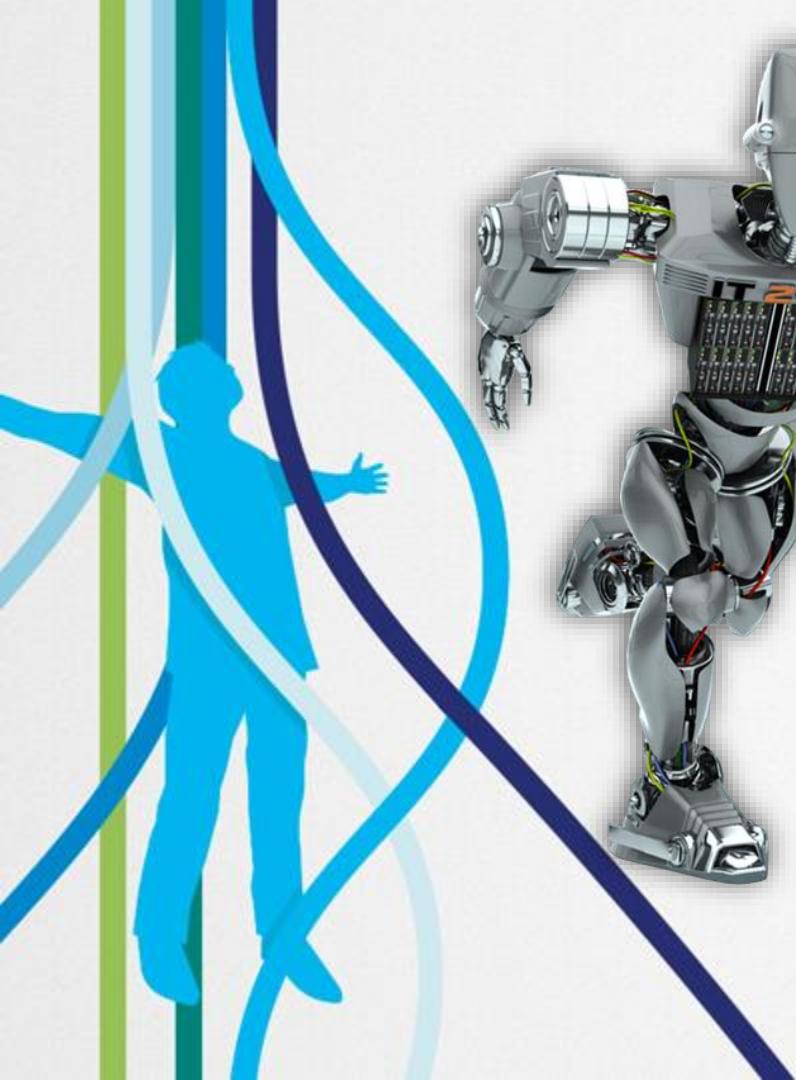
[Add](#)[Create new](#)

Azure VMs

Add or create Azure virtual machines that run Windows Server.

[Add](#)[Create new](#)

Demo: Cluster Creation



Windows Admin Center x + 192.168.209.103 - x https://wac3 Microsoft

Windows Admin Center | All connections Microsoft

Windows Admin Center Update available ↗

All connections

Modernize your virtualization hosts with an Azure Stack HCI hybrid solution, for industry-leading price-performance. Learn more ↗

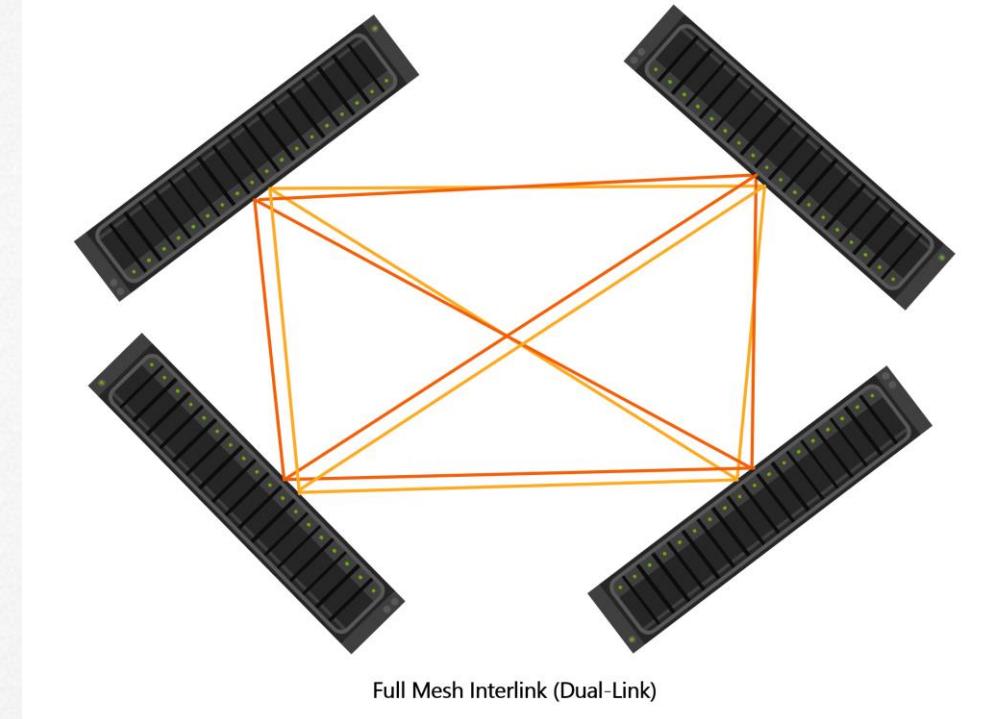
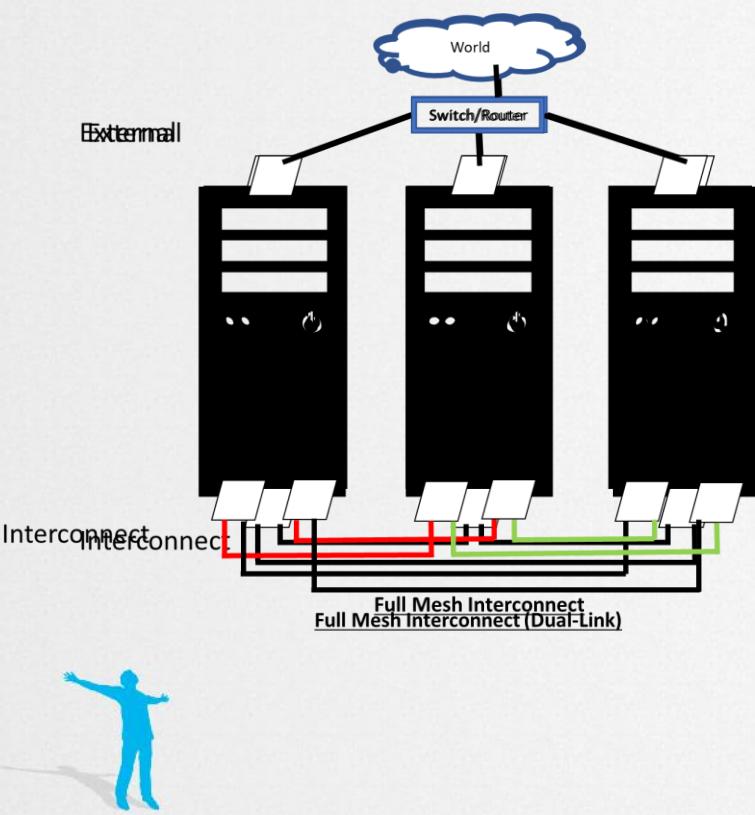
+ Add Connect Manage as Remove Edit Tags

Name Type Last connected Managing as Tags

Name	Type	Last connected	Managing as	Tags
wac3.hybrid.gbb [Gateway]	Servers	Never	HYBRID\admin10	

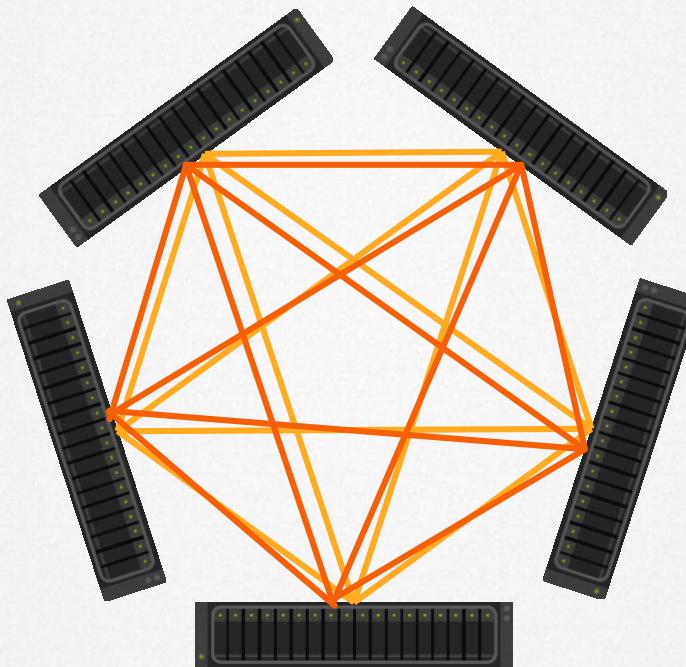


Switchless Design





Switchless Design



Full Mesh Interlink (Dual-Link)





Azure Stack HCI - subscription billing for Azure Stack HCI



Predictable monthly fee covers cloud and on-premises together

Charged to your Azure subscription, like every other Azure service you use

Simple cost structure depends only on physical processor cores

Always up-to-date: new features through frictionless monthly updates

Guest operating systems and apps sold separately

Learn more at Azure.com/Pricing



Note: Azure Stack HCI is billed at \$0 (no charge) during Preview – real pricing will begin at general availability.



Azure Stack HCI - Costs scale predictably from edge to datacenter



FUJITSU

PRIMERGY TX1330 M4

4 cores

Cost per server

\$40 /month



Lenovo

ThinkSystem SE350

8 cores

Cost per server

\$80 /month



DELL EMC

PowerEdge R640

16 cores

Cost per server

\$160 /month



Hewlett Packard
Enterprise

ProLiant DL 380 Gen 10

24 cores

Cost per server

\$240 /month



No minimum or maximum

Starts from 1 core for 1 day



The BAD





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Licencing cost if you have Windows Server VMs

Storage Spaces Direct Pricing

Pay once upfront (approximate Datacenter OEM € 4.500,- for 16 cores)

Windows Server VMs are included

New versions are not included (additional \$3.100,- for 2 years Software Assurance)

Azure Stack HCI Pricing

Pay every month per Core (for 16 cores 16x 10\$ = \$160/month = \$1.920/year)

Windows Server VMs are not included

New Versions are included (21H2, 22H2, ..)

Spalte1	Storage Spaces Direct 2019	Storage Spaces Direct 2019 with SA	Azure Stack HCI	Azure Stack HCI with DC	Azure Stack HCI with DC and SA
1 Month	4.500,00 €	7.600,00 €	130,08 €	4.630,08 €	7.730,08 €
12 Month	- €	- €	1.560,98 €	1.560,98 €	1.560,98 €
24 Month	- €	3.100,00 €	1.560,98 €	1.560,98 €	4.660,98 €
36 Month	- €	- €	1.560,98 €	1.560,98 €	1.560,98 €
48 Month	- €	3.100,00 €	1.560,98 €	1.560,98 €	4.660,98 €
60 Month	- €	- €	1.560,98 €	1.560,98 €	1.560,98 €
Total after 60 Month	4.500,00 €	13.800,00 €	7.934,96 €	12.434,96 €	21.734,96 €



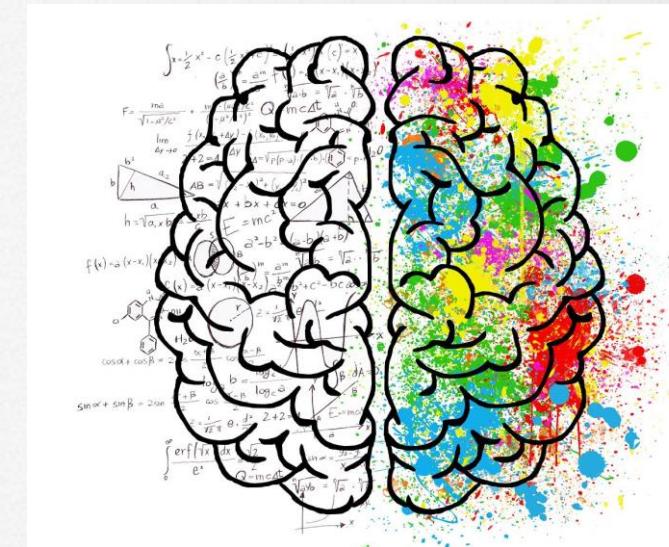
You need Knowledge

Setup seems easy but it is not

- Networking (RDMA)
- Network integration in core infrastructure

Handling

- Patching
- Extending
- Failure
- ...





Training



**Microsoft offers only a
PFE lead Training**

**You have to depend on
external Training**

**I heard there is a 3 hour
online training available**

Tooling

Hyper-V Manager

File Action View Help

Virtual Machines

Name	State	CPU Usage	Assigned Memory	Uptime	Status
Benchmark1	Running	0 %	34 %	696 MB	2 GB
S2D1Node1	Running	0 %	3 %	737 MB	24 GB
S2D1Node2	Running	0 %	4 %	983 MB	24 GB
S2D1Node3	Running	0 %	3 %	737 MB	24 GB
S2D1Node4	Running	0 %	3 %	737 MB	24 GB
VMFleetTemplate					
W19DCTemplate					

Checkpoints

Benchmark1

Create Config General Notes:

Summary Memory Network

Tools

- Search Tools
- Dashboard
- Compute
 - Virtual machines
 - Servers
 - Volumes
 - Drives
 - Virtual switches
- Storage
- Networking
- Tools
 - Azure Monitor
 - Updates
 - Diagnostics
 - Performance Monitor
- Settings

Hyper-V Manager interface showing a list of virtual machines and checkpoints.



Failover Cluster Manager

File Action View Help

Roles (4)

Name	Status	Type	Owner Node	Priority	Information
Benchmark1	Running	Virtual Machine	TAROX2D1	Medium	
S2D1Node1	Running	Virtual Machine	TAROX2D1	Medium	
S2D1Node3	Running	Virtual Machine	TAROX2D1	Medium	
S2D1Node4	Running	Virtual Machine	TAROX2D1	Medium	

Actions

- Roles
 - Configure Role...
 - Virtual Machines...
 - Create Empty Role
 - View
 - Refresh
 - Help
- Benchmark1
 - Connect...
 - Start
 - Save
 - Shut Down
 - Turn Off
 - Settings...
 - Manage...
 - Replication
 - Move
 - Cancel Live Migration
 - Change Startup Priority

Preferred Owners: Any node

Windows Admin Center

Virtual machines

Summary Inventory

+ New X Connect Settings Start Shut down More 4 items Search

Name	State	Host server	CPU usage	Memory pressure	Memory demand	Assigned memory	Uptime	Heartbeat	Disaster Recovery status	Tags
Benchmark1	Running	TAROX2D1	0 %	34 %	696 MB	2 GB	0:00:02...	OK	Not signed in	
S2D1Node1	Running	TAROX2D1	0 %	3 %	737 MB	24 GB	0:08:23...	OK	Not signed in	
S2D1Node3	Running	TAROX2D1	0 %	4 %	983 MB	24 GB	0:08:20...	OK	Not signed in	
S2D1Node4	Running	TAROX2D1	0 %	3 %	737 MB	24 GB	0:08:19...	OK	Not signed in	

Status Version

Operating normally 9.0
Operating normally 9.0

Failover Cluster Manager interface showing roles and actions, and Windows Admin Center interface showing virtual machine details.





RDMA

RoCE is complex

- PFC and ETS configuration in the Switch

iWarp

- choose (only Mellanox)
- high performance iWarp => PFC

Finding errors is a nightmare

- not much test tooling
- barely counter in perfmon



More than 70% of the problems are in Network

the FANTASTIC



Stretched Cluster

true “Stretched Azure Stack HCI” with Storage Replica

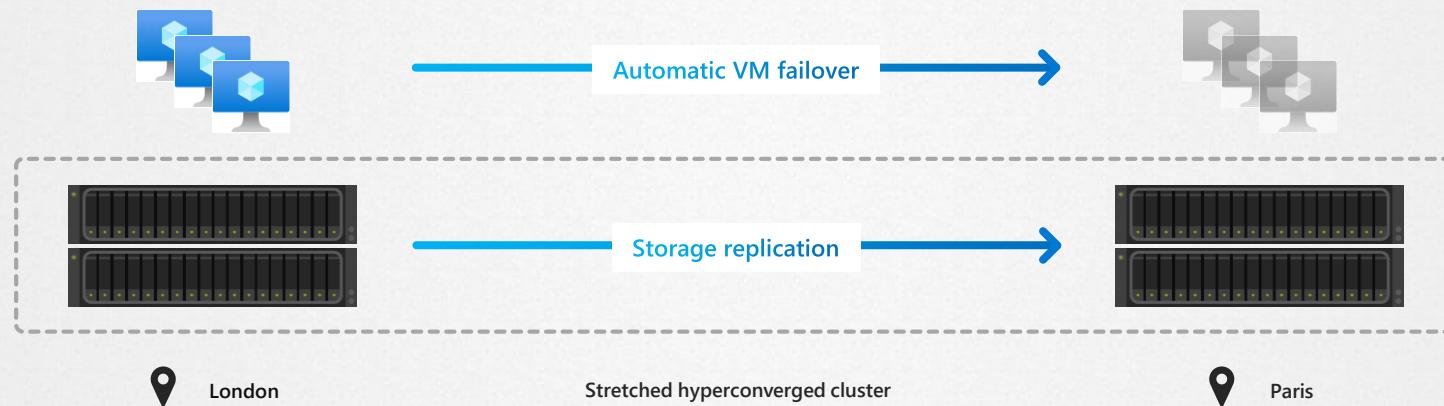




Native disaster recovery with stretch clustering

Span an Azure Stack HCI cluster across two rooms, two buildings, or two cities

Sync or async storage replication, optional encryption, site-local resiliency



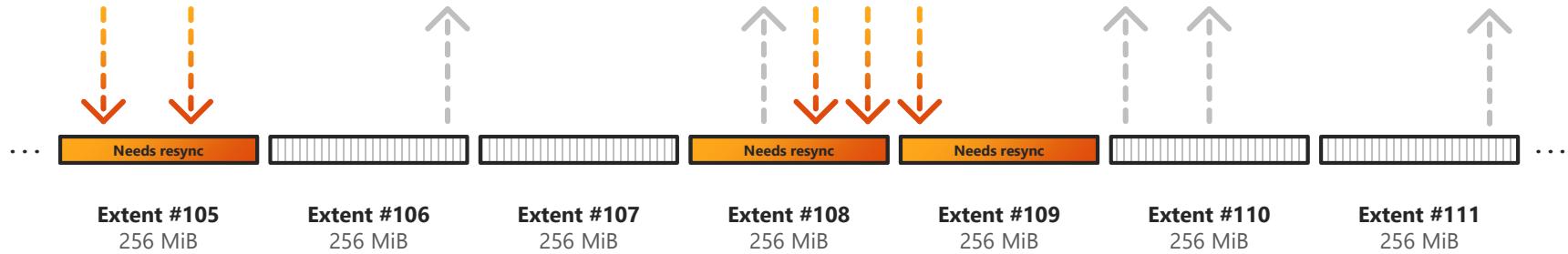


faster Repairs



**Reengineered
Storage Spaces
Direct resync
engine in Azure
Stack HCI**

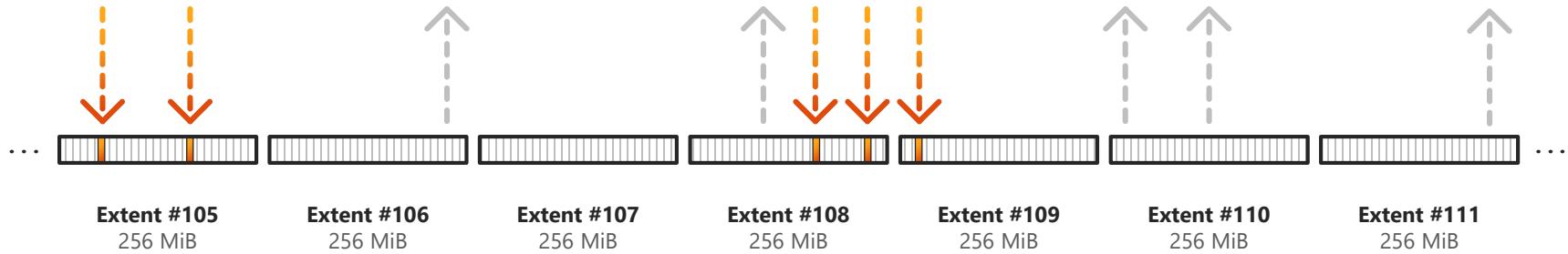
Extent-granular dirty region tracking



Windows Server 2019



NEW Sub-extent dirty region tracking



Azure Stack HCI 20H2





Demo Fast Repair

Administrator: Windows PowerShell

```
S2DNode2          OK   Healthy  100 GB  223.75 GB  44,69 %
COLLECT
S2DNode4          OK   Healthy  100 GB  223.75 GB  44,69 %
```

FriendlyName	ResiliencySettingName	FaultDomainRedundancy	OperationalStatus	HealthStatus	Size	FootprintOnPool	StorageEfficiency
S2DNode3			OK	Healthy	100 GB	223.75 GB	44,69 %
S2DNode1			OK	Healthy	100 GB	223.75 GB	44,69 %
ClusterPerformanceHistory	Mirror	2	OK	Healthy	16 GB	51 GB	31,37 %
S2DNode2			OK	Healthy	100 GB	223.75 GB	44,69 %
COLLECT			OK	Healthy	70 GB	157.75 GB	44,37 %
S2DNode4			OK	Healthy	100 GB	223.75 GB	44,69 %

FriendlyName	ResiliencySettingName	FaultDomainRedundancy	OperationalStatus	HealthStatus	Size	FootprintOnPool	StorageEfficiency
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S2DNode2			OK	Healthy	100 GB	223.75 GB	44,69 %
COLLECT			OK	Healthy	70 GB	157.75 GB	44,37 %
S2DNode4			OK	Healthy	100 GB	223.75 GB	44,69 %

CSV	FS	IOPS	Reads	Writes	BW (MB/s)	Read	Write	Read Lat (ms)	Write Lat
Total		8.154	8.132	21	58	58			
S2DNode1		1.929	1.927	2	15	15		1.385	3.219
S2DNode2		1.763	1.751	12	14	14		1.491	3.149
S2DNode3		1.765	1.761	5	14	14		0.941	5.238
S2DNode4		2.696	2.694	2	15	15		0.839	4.224

Hyper-V	Logical	Total%	Guest%	Hypervisor%	Root	Total%	Guest%	Hypervisor%	Remote%
Total	42,24	31,10	11,14	33,39	25,83	7,56	0,00		
S2DNode1	38,47	26,00	12,47	30,81	21,84	8,97	0,00		
S2DNode2	44,27	31,39	12,88	34,36	29,56	8,79	0,00		
S2DNode3	31,32	21,67	9,65	21,82	15,85	5,97	0,00		
S2DNode4	54,91	45,35	9,56	46,57	40,06	6,51	0,00		

Administrator: Windows PowerShell

File Action View Help

Failover Cluster Manager

Roles (24)

Search

Queries

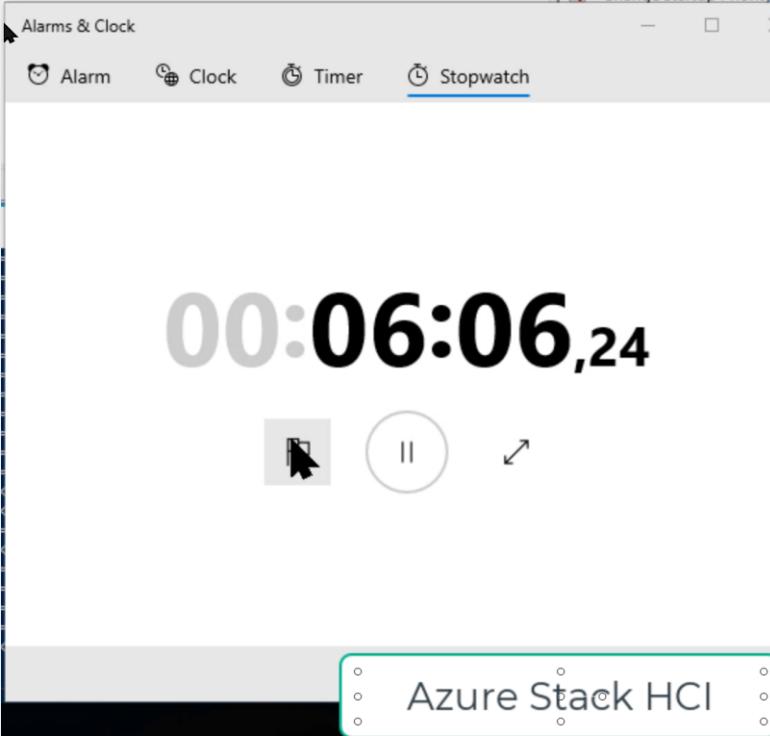
Actions

- Configure...
- Virtual M...
- Create E...
- View
- Refresh
- Help
- Connect...
- Start
- Save
- Shut Down
- Turn Off
- Settings...
- Manage...
- Replication

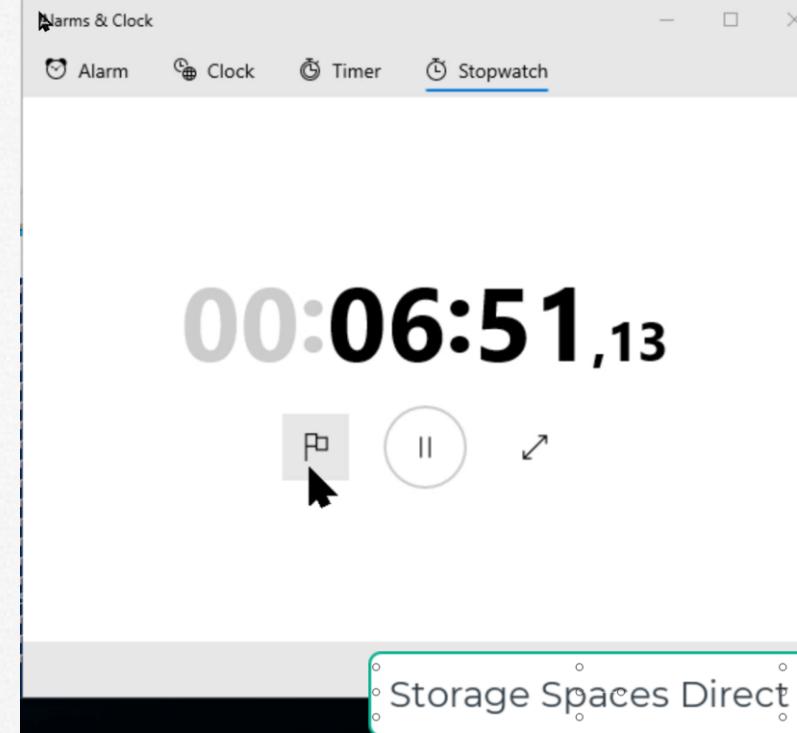
00:00:00,00

Storage Spaces Direct

Fast Repair results



5:21 – 6:06 = 45sec



5:24 – 6:51 = 87sec



Azure Stack HCI is covered by Azure Support



New, dedicated team of experts to support the new Azure Stack HCI

Access Azure Stack HCI self-help resources

Request technical support through the Azure Portal

Choose a plan that fits your needs, starting from \$29/month - \$100/month

Learn more at Azure.com/Support



Note: Microsoft technical support is not offered during Preview and will begin at general availability.

Performance

Azure Stack HCI is
*"the fastest mid-market 4-node
HCI cluster we've seen"*

- StorageReview.com

storagereview.com/microsoft_azur_stack_hci_review_dataon_hci224_with_intel_optane_nvme



Microsoft Azure Stack HCI Review

In the foreground, we have a row of four DataOn HCI224 nodes, each featuring a front panel with drive bays labeled 0 through 11. The drives are color-coded: orange for NVMe SSDs and grey for P4510 2TB SSDs. The DataOn logo is visible on the front panel of the first node.

In the back, two Mellanox Connect-X 5 dual-port 100G NICs are connected to two SN2100 switches via Port 9. These switches are connected to a S2D-5108i Domain Controller / Cluster Witness and two vSAN hosts (vMB1 and vMB2). The network connections are labeled with port numbers and bandwidth details: 17G 16x42.1, 17G 16x42.2, 17G 16x42.3, 17G 16x42.4, 17G 16x42.5, 17G 16x42.6, 17G 16x42.7, 17G 16x42.8, 17G 16x42.9, 17G 16x42.10, and 17G 16x42.11.

Inter-Node Link (IPL) connections are also shown between the two switches.

Windows Performance Monitor

Processor Information

	Total
% Processor Time	77,078

RDMA Activity

	Cisco FastLinQ QL45412H 40GbE Adapter (NDIS)	Cisco FastLinQ QL45412H 40GbE Adapter (NDIS) #2
RDMA Accepted Connections	20,000	20,000
RDMA Active Connections	26,000	26,000
RDMA Completion Queue Errors	0,000	0,000
RDMA Connection Errors	0,000	0,000
RDMA Failed Connection Attempts	0,000	0,000
RDMA Inbound Bytes/sec	1,623,461,753	1,594,728,587
RDMA Inbound Frames/sec	2,088,932,731	2,013,711,651
RDMA Initiated Connections	58,000	58,000
RDMA Outbound Bytes/sec	1,325,697,687	1,247,928,179
RDMA Outbound Frames/sec	2,022,779,136	1,935,108,192

Storage Spaces Tier

	TSDP0221 (TSDP0221_Capacity) - Disk 10	TSDP0221 (TSDP0221_Performance) - Disk 10
Avg. Tier Bytes/Read	8,155,272	8,176,172
Avg. Tier Bytes/Transfer	8,152,516	8,140,102
Avg. Tier Bytes/Write	7,839,773	8,121,260
Avg. Tier Queue Length	155,678	212,786
Avg. Tier Read Queue Length	152,621	18,501
Avg. Tier sec/Read	0,001	0,001
Avg. Tier sec/Transfer	0,007	0,002
Avg. Tier sec/Write	0,003	0,003
Avg. Tier Write Queue Length	3,004	194,283
Current Tier Queue Length	107,000	105,000
Tier Read Bytes/sec	987,378,641,494	284,488,904,535
Tier Reads/sec	121,070,441	34,794,879
Tier Transfer Bytes/sec	996,463,846,777	822,441,674,882
Tier Transfers/sec	122,224,793	101,010,225
Tier Write Bytes/sec	8,807,794,435	537,671,178,921
Tier Writes/sec	1,123,476	66,193,435

CSV FS IOPS Reads Writes BW (MB/s) Read Write Read Lat (ms)

Total	978.260	678.902	299.357	7.997	5.545	2.453	
TSDP0221	244.109	165.099	79.010	1.994	1.347	0.647	1,065
TSDP0222	299.021	209.212	89.809	2.448	1.712	0.736	1,724
TSDP0223	214.105	149.786	64.319	1.754	1.227	0.527	0,992
TSDP0224	221.025	154.806	66.219	1.801	1.258	0.542	0,738

Hyper-V LCPU Logical Total% Guest% Hypervisor% Root Total% Guest% Hypervisor% Remote%

Total	93.04	88.15	4.89	73.13	69.80	3.33	0.00
TSDP0221	94.97	90.01	4.96	69.14	65.82	3.32	0.00
TSDP0222	96.05	91.40	4.65	74.21	71.03	3.18	0.00
TSDP0223	92.22	86.39	5.83	73.21	69.33	3.87	0.00
TSDP0224	88.93	84.80	4.13	75.96	73.02	2.93	0.00

TSDP0221 - Virtual Machine Connection

TSDP0224 - Virtual Machine Connection

View Help

16:26 21.06.2018

29182.48

All Managers - Total I/Os per Second

Task Manager

File Options View

Processes Performance Users Details Services

CPU

100% 3.27 GHz

Memory 90/383 GB (23%)

Ethernet S: 8.0 Kbps R: 8.0 Kbps

Ethernet S: 8.0 Kbps R: 8.0 Kbps

Intel(R) Xeon(R) Gold 6132 CPU @ 2.10 GHz



Azure Extended Support in Azure Stack HCI

[Blog / Announcements](#)

Announcing new options for SQL Server 2008 and Windows Server 2008 End of Support

Posted on July 12, 2018

[Takehi Numoto](#), Commercial Chief Marketing Officer, Microsoft

It's incredible how much and how rapidly technology evolves. Microsoft's server technology is no exception. We entered the 2008 release cycle with a shift from 32-bit to 64-bit computing, the early days of server virtualization and advanced analytics. Fast forward a decade, and we find ourselves in a full-blown era of hybrid cloud computing with exciting innovation in data, artificial intelligence, and more.

I want to thank our customers for choosing SQL Server and Windows Server to run their business and trusting Microsoft to be their technology partner. I would also like to make sure we support our customers in getting ready for the future and taking maximum advantage of today's technologies. End of support is quickly approaching for these popular 2008 releases:

- Extended Support for SQL Server 2008 and 2008 R2 will end on July 9, 2019.
- Extended Support for Windows Server 2008 and 2008 R2 will end on January 14, 2020.

End of support means the end of regular security updates. With cyberattacks becoming more sophisticated and frequent, running apps and data on unsupported versions can create significant security and compliance risks. The 2008 family of products was great for its time, but we highly recommend upgrading to the most current versions for better performance, efficiency, and regular security updates.

The upcoming end of support milestone is a great opportunity to transform your applications and infrastructure to take advantage of cloud computing and the latest versions of SQL Server and Windows Server. Customers like [Allscripts](#) rehosted dozens of applications running on thousands of virtual machines to Azure, where they can transform and develop new applications using more advanced Azure services.

We are pleased to share new options and tools to help you manage this transition to carry your organization through the next decade.

Migrate to Azure, get free Extended Security Updates

End of support is an ideal time to transform your IT estate with the cloud. But we know that it can be hard to upgrade everything before the end of support timeline. To address this need, we are pleased to announce that Extended Security Updates will be available for free in Azure for 2008 and 2008 R2 versions of SQL Server and Windows Server to help secure your workloads for three more years after the end of support deadline. You can rehost these workloads to Azure with no application code change. This gives you more time to plan your future path, including upgrading to newer versions such as SQL Server 2017 or Windows Server 2016 and utilizing the rich set of platform and data services available in Azure.

You can also move your SQL Server 2008 and 2008 R2 deployments with no application code change and near zero downtime to Azure SQL Database Managed Instance. It is a fully-managed database-as-a-service solution with industry leading SLAs and does not require future upgrades. Azure SQL Database Managed Instance will be generally available in early Q4 of this calendar year.

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Azure updates
Let us know what you think of Azure and what you would like to see in the future

[Provide feedback](#)

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- [Azure Maps \(26\)](#)
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- [Azure Stream Analytics \(31\)](#)
- [Big Data \(64\)](#)
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Free 3 years of Security fixes for

- Microsoft Windows Server 2008
- Windows Server 2008 R2
- SQL Server 2008
- SQL Server 2008 R2

Learn more at [Windows Server 2008 and 2008 R2 extended security updates | Microsoft Docs](#)





Integrated full-stack updates with one click

Firmware and driver updates seamlessly embedded in Azure Stack HCI update workflow

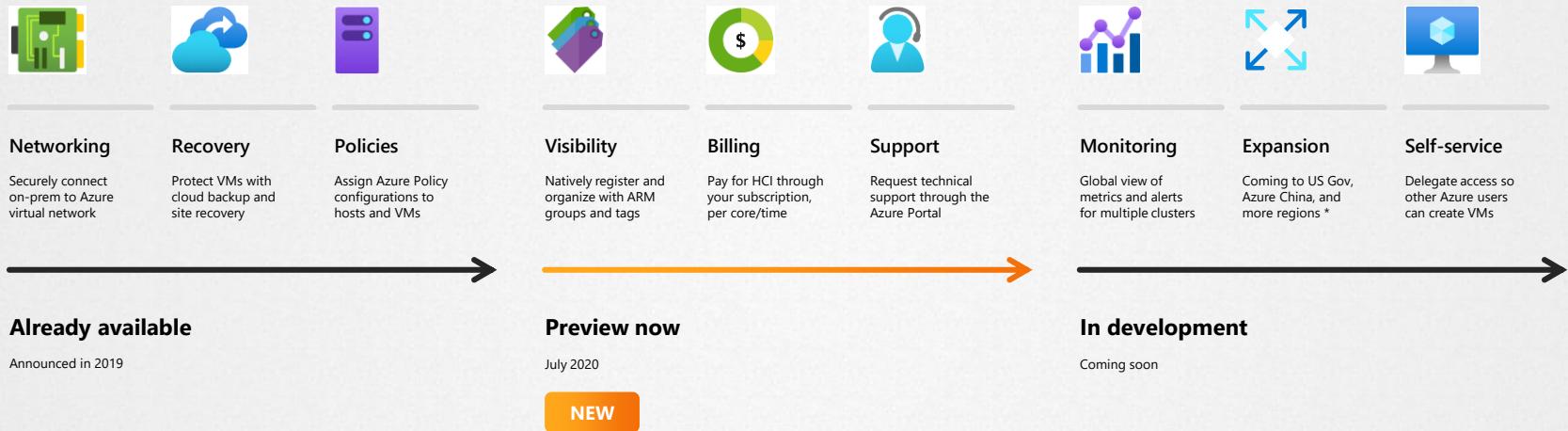
Screenshots shows working prototype snap-in extension by DellEMC

The screenshot displays the Windows Admin Center Cluster Manager interface for the cluster `mycluster.contoso.local`. The left sidebar shows navigation options like Dashboard, Compute, Servers, Storage, Volumes, Drives, Storage Replica, Tools (Azure Monitor, Updates, Diagnostics, Performance Monitor), and Extensions (Dell EMC OpenManage Integration). The main content area is titled "Install PREVIEW" and shows three tabs: "Windows updates" (checked), "Solution updates", and "Install". Under "Solution updates", there's a "Solution updates" section featuring the Dell EMC logo and a "Compliance Details" card. The card shows a "Cluster Summary" with 0 Compliant and 2 Non-Compliant nodes, highlighted by a large red circle. Below this is a "Component Compliance Summary" card. To the right, a "Compliance Report" table lists various components with their compliance status, criticality, current and baseline versions, type, and compliance type. One entry, "R6515N01 (Licensed)", is expanded to show detailed information.

Component Name	Compliance	Criticality	Current Version	Baseline Version	Type	Compliance Type
SAS-RAID_Driver_...	Non-Compliant	Recommen...	10.0.17763.1131	6.0.2.0007	Driver	Downgradable
BIOS_30VDH_WN6...	Compliant	1.3.1	1.3.1	Same	BIOS	Same
Video_Driver_1DV...	Compliant	44.1.3	44.1.3	Same	Driver	Same
Systems-Manage...	Compliant	3.5.1	3.5.1	Same	Appl...	Same
Firmware_3NSTF_...	Compliant	1.9	1.9	Same	Firm...	Same
SAS-RAID_Driver_B...	Compliant	7.710.10.0	7.710.10.0	Same	Driver	Same
Diagnostics_Applic...	Compliant	5.0	5.0	Same	Appl...	Same
Firmware_VV85D_...	Compliant	4.35	4.35	Same	Firm...	Same



Transforming Azure Stack HCI toward *hybrid first*



* Preview in East US, West Europe, Azure China, Southeast Asia, Azure US Gov Virginia, UK South planned by end of 2020.



COMING SOON

Self-service VMs on Azure Stack HCI

Consistent toolset with Azure Portal and Azure CLI

Delegate access to other Azure users in your Azure AD directory

They can self-provision virtual machines and virtual networks

Lightly-isolated “tenancy” abstraction from infrastructure

Create Azure Arc Virtual Machine (Preview)

Basics Networking Advanced Tags Review

Select the Private cloud to deploy VMs Learn More

Private Clouds * Choose the private cloud
my-hci-cluster
my-hci-cluster-2

Project details

Select the subscription and resource group where you want the machine to be managed within Azure. Designate an Azure location where machine metadata will be stored. This is different from the location where your machine currently exists.

Subscription * Azure subscription 1

Resource group MyResourceGroup

Instance Details

Virtual Machine name * Enter the name

Image * Windows Server 2019 Datacenter

Size * 1 vcpu, 1 GiB memory

Administrator account

Authentication type * Password (selected) SSH public key

Username *

Password *

Confirm password *

Review < Previous Next : Networking >

Start a search



Disclaimer: Feature is under active development and subject to change.

Azure Kubernetes Services (AKS) for Azure Stack HCI

Azure AKS for Azure Stack HCI

- Microsoft provides the infrastructure VMs for a UpToDate Kubernetes environment
- supports Linux and Windows containers
- enables new Azure Services on Azure Stack HCI
 - Cognitive Services
 - Data Services
 - more to come...

Learn more at [Azure Kubernetes Service on Azure Stack HCI documentation | Microsoft Docs](#)



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Azure Kubernetes Service on Azure Stack HCI documentation

Azure Kubernetes Service on Azure Stack HCI is an on-premises implementation of the popular Azure Kubernetes Service (AKS) orchestrator, which automates running containerized applications at scale. Azure Kubernetes Service is now in preview on Azure Stack HCI and on Windows Server 2019 Datacenter, making it quicker to get started hosting Linux and Windows containers in your datacenter.

About Azure Kubernetes Service

- OVERVIEW
- What is Azure Kubernetes Service on Azure Stack HCI?
- CONCEPT
- Kubernetes core concepts for AKS

Get started

- DEPLOY
- Check system requirements
- QUICKSTART
- Set up AKS with Windows Admin Center
- Set up AKS with PowerShell
- CREATE A KUBERNETES CLUSTER WITH WINDOWS ADMIN CENTER
- Create a Kubernetes cluster with PowerShell

Deploy Windows and Linux applications

- TUTORIAL
- Use Linux containers
- HOW-TO GUIDE
- Adapt apps for mixed-OS Kubernetes Clusters
- Deploy Windows applications
- Prepare Windows nodes for gMSA support
- Use persistent volumes

Integrate with Azure

- HOW-TO GUIDE
- Connect to Azure Arc for Kubernetes

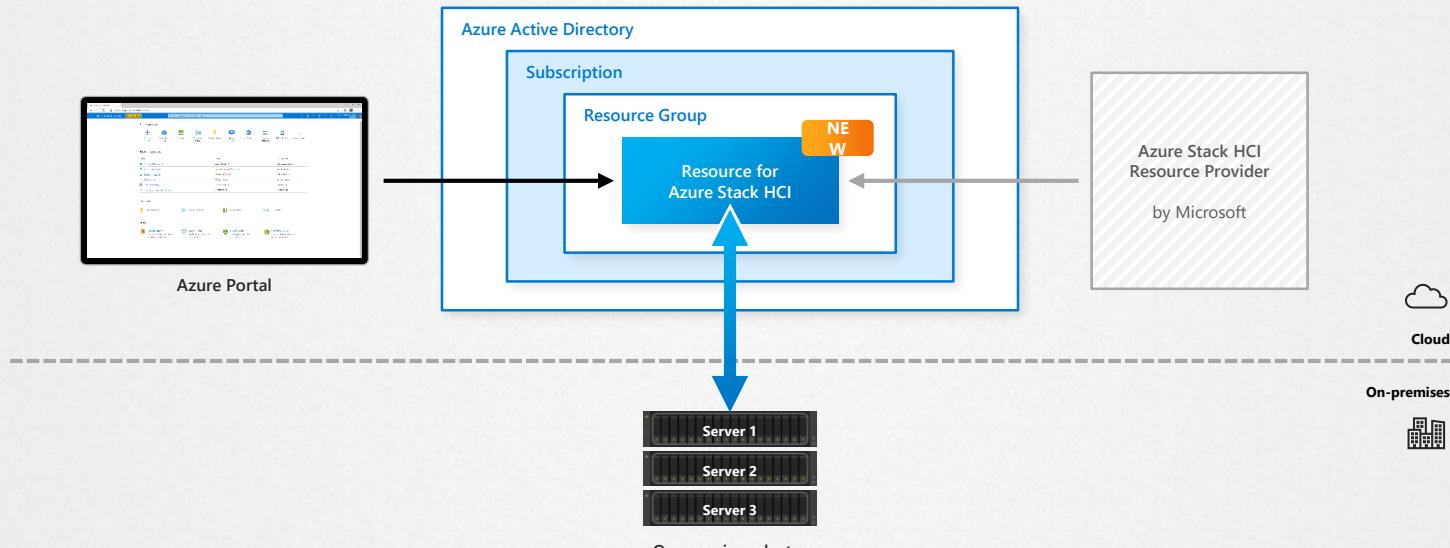
Download PDF

Natively integrates with Azure

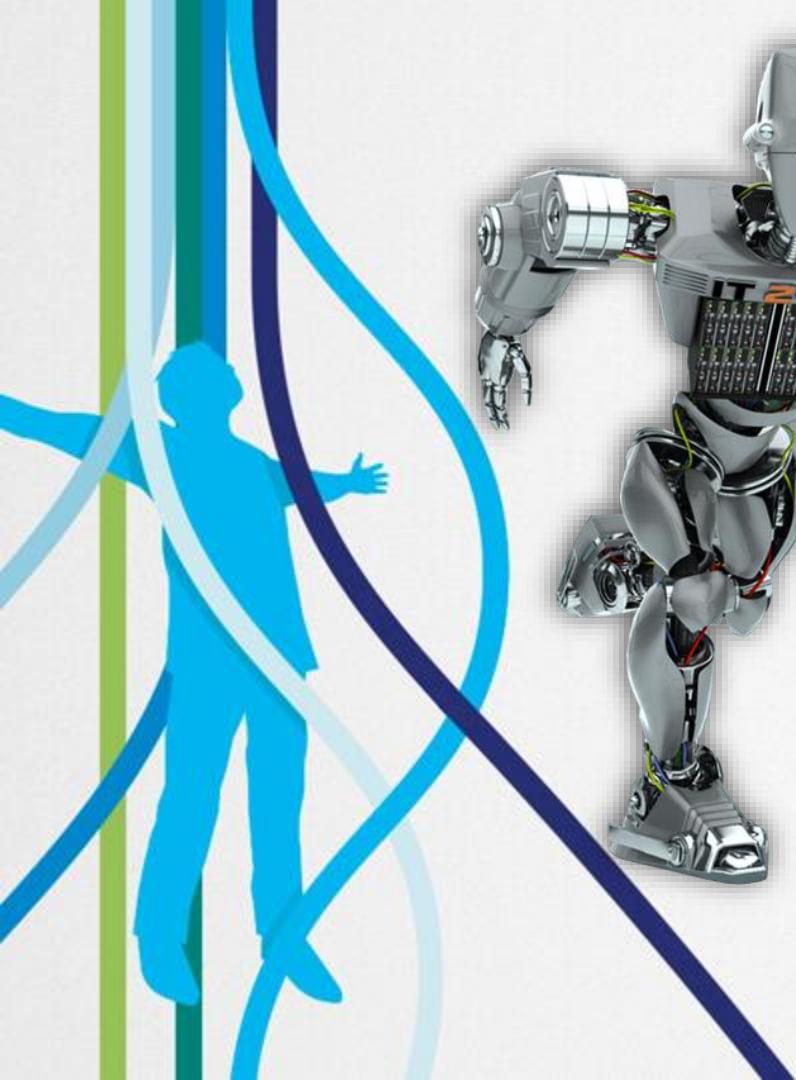
Azure Resource Manager (ARM) resource represents each on-premises Azure Stack HCI cluster

Visibility in the Azure Portal and foundation for hybrid management

No fuss with agents or scripts – it's built-in!



Demo Azure Integration



Where to find more info?

More stuff I'm doing

- Blog <https://hyper-v-server.de>
- Newsletter <https://www.rachfahl.de/it-genial-einfach>
- Azure Stack HCI Day <https://azurestackhciday.de>
- S2D PowerKurs <https://Powerkurs.net>
- My Blog <https://hyper-v-server.de>
- Hyper-V Amigos <https://hyper-v-amigos.net>
- CDC-Germany <https://cdc-germany.de>



AZURE STACK
HCI DAY 2020

SPEAKERS AGENDA COMMUNITY SUPPORTERS SPONSORS

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Speaker	Time	Title
	17.00 – 17.35 CET	Cosmos Darwin & Kerim Hanif Hybrid is built-in: How does it really work?
	17.40 – 18.15 CET	Matt McSprint Azure Kubernetes Service and Arc-enabled Data Services on Azure Stack HCI
	18.20 – 18.55 CET	Priya Satheesh The easy way to deploy Azure Stack HCI
	19.00 – 19.35 CET	Prashidh Arora & Alvin Morales What's new in Hyper-V and VM management
	19.40 – 20.15 CET	Udo Walberer Discover Lenovo ThinkAgile MX for Azure Stack HCI
	20.20 – 20.55 CET	Dan Cuomo Network ATC: The New Host Network Management Service
	21.00 – 21.35 CET	Anirban Paul Secure network connectivity to your HCI workloads with Software Defined Networking
	21.40 – 22.15 CET	Jason Yi Introduction to Performance Benchmarking
	22.20 – 22.55 CET	John Martin Let's go a little deeper with Stretch and Azure Stack HCI v20H2
	23.00 – 23.35 CET	Jeff Woolsey Modernizing your infrastructure and embracing hybrid cloud with Azure Stack HCI

https://www.azurestackhciday.de/#_day0_time4



Q&A



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