

Azure Stack HCI 23H2 Grundlagen und Neuerungen



Manfred Helber



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Manfred Helber



Themen heute

- **Azure Stack HCI Grundlagen**
- **Azure Stack HCI 23H2 Neuerungen und Änderungen**
- **Azure Stack HCI 23H2 Lizenzierung**
- **Fragerunde**

Die nächsten Termine

07.02. 10:00 Uhr Termin 2: Azure Stack HCI 23H2 Deployment

Das Deployment ändert sich mit Azure Stack HCI 23H2 grundlegend! So wird nun das Azure Portal für das Deployment der azure Stack HCI Lösung genutzt. Der Microsoft Most Valuable Professional Manfred Helber erklärt in diesem Webcast was bei der Hardware-Auswahl für Azure Stack HCI zu beachten ist und wie das Deployment von Azure Stack HCI 23H2 genau abläuft.

Inhalte in diesem Webcast:

- Zertifizierte Systeme von Thomas-Krenn für Azure Stack HCI
- Vorbereitungen für das Deployment von Azure Stack HCI 23H2
- Cloud-based Deployment für Azure Stack HCI 23H2

28.02. 10:00 Uhr Termin 3: Azure Stack HCI 23H2 VM Workloads verwalten

Bei Azure Stack HCI 23H2 gibt es umfangreiche Neuerungen im Bereich des VM-Managements über das Azure Portal. In diesem Webcast zeugt der Microsoft Most Valuable Professional Manfred Helber wie das VM-Management über das Azure Portal für Azure Stack HCI 23H2 funktioniert und welche Möglichkeiten sich daraus ergeben.

Inhalte in diesem Webcast:

- Die Rolle der Azure Arc Ressource Bridge für das VM-Management
- VM-Images und Logische Netzwerke verwalten
- Virtual Machines verwalten

Manfred Helber

Die nächsten Termine

07.03. 10:00 Uhr Termin 4: Azure Stack HCI 23H2 hybride Services nutzen

Mit Azure Stack HCI war von Beginn an die Nutzung von hybriden Services ein wichtiges Thema. Mit Azure Stack HCI 23H2 gibt es nun einige Neuerungen und Erweiterungen im Bereich der hybriden Services. Der Microsoft Most Valuable Professional Manfred Helber zeigt in diesem Webcast die Nutzung der wichtigsten hybriden Services für Azure Stack HCI.

Inhalte in diesem Webcast:

- Monitoring für Azure Stack HCI konfigurieren
- Windows Admin Center über Azure nutzen
- Updates für Azure Stack HCI verwalten

20.03. 10:00 Uhr Termin 5: Azure Stack HCI 23H2 und Azure Virtual Desktop (AVD)

Azure Virtual Desktop ist einer der Azure Services auf Azure Stack HCI zu welchem es eine enorme Nachfrage gibt. Das liegt sicher daran, dass sich durch AVD mit modernen Technologien klassische RDS-Szenarien ablösen lassen. In diesem Webcast zeigt der Microsoft Most Valuable Professional Manfred Helber wie sich AVD auf Azure Stack HCI bereitstellen lässt und wie die User-Experience aussieht.

Inhalte in diesem Webcast:

- Azure Virtual Desktop Grundlagen und Rahmenbedingungen
- Azure Virtual Desktop auf Azure Stack HCI bereitstellen
- Azure Virtual Desktop auf Azure Stack HCI – User Experience

Manfred Helber

Themen heute

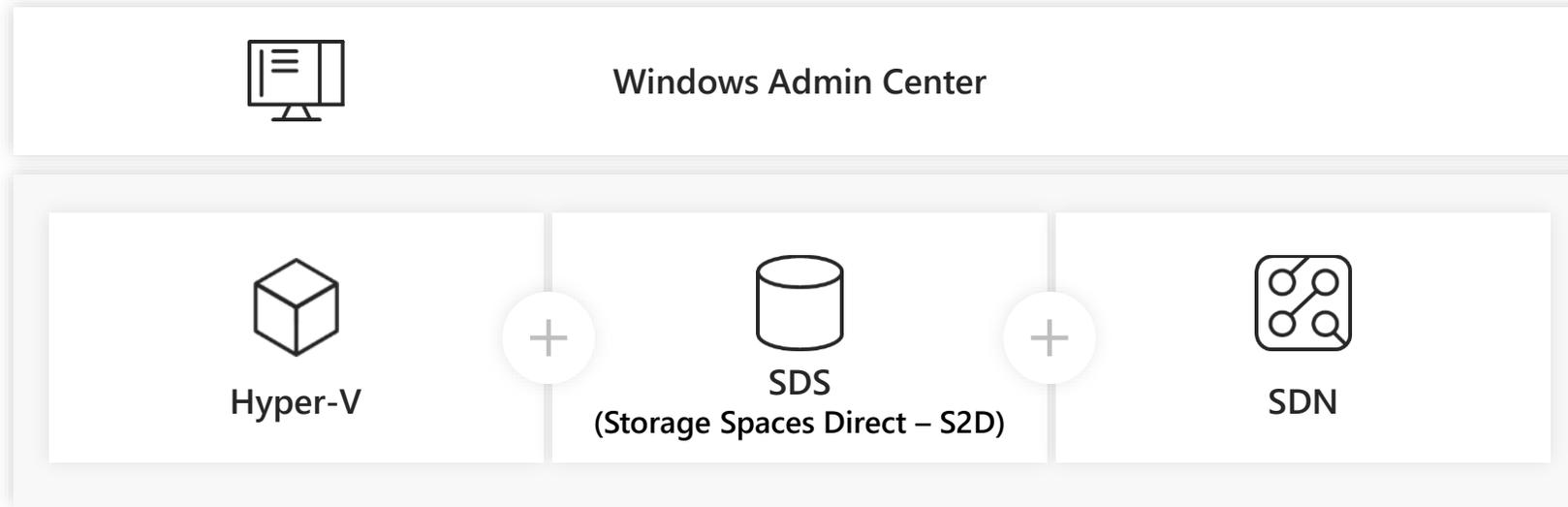
- **Azure Stack HCI Grundlagen**
- **Azure Stack HCI 23H2 Neuerungen und Änderungen**
- **Azure Stack HCI 23H2 Lizenzierung**
- **Fragerunde**

Azure Stack HCI Grundlagen

Hyper-Converged Infrastructure (HCI) - Grundlagen

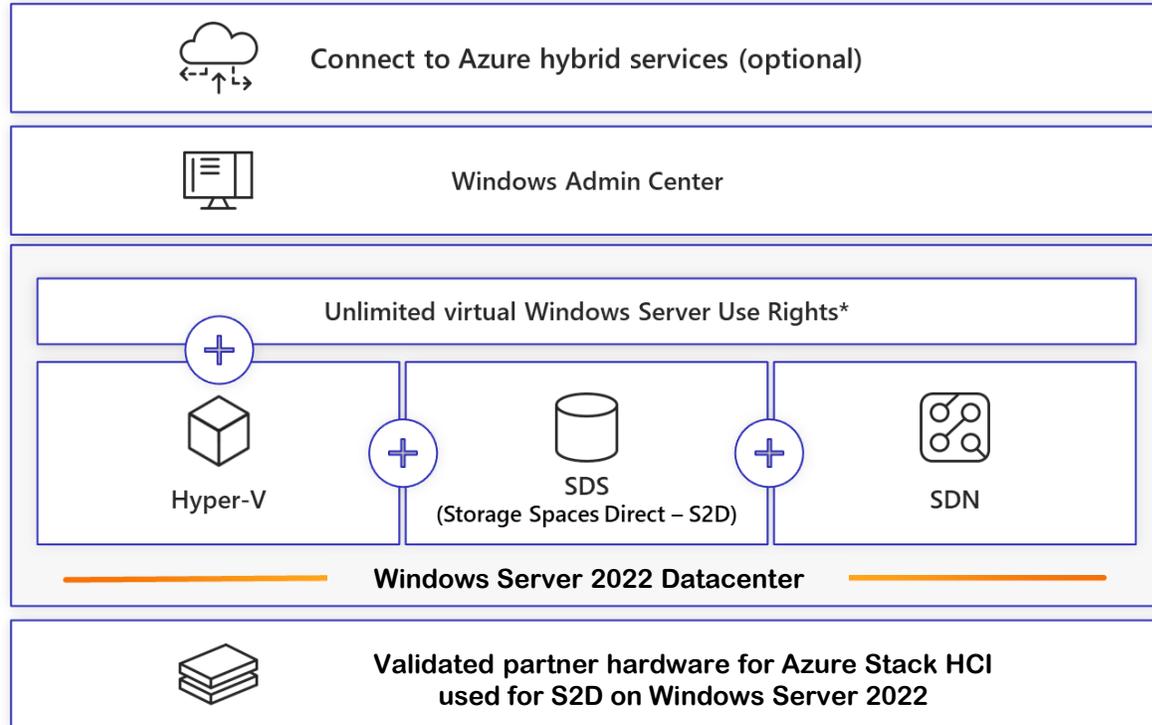


Die Technologie hinter Azure Stack HCI

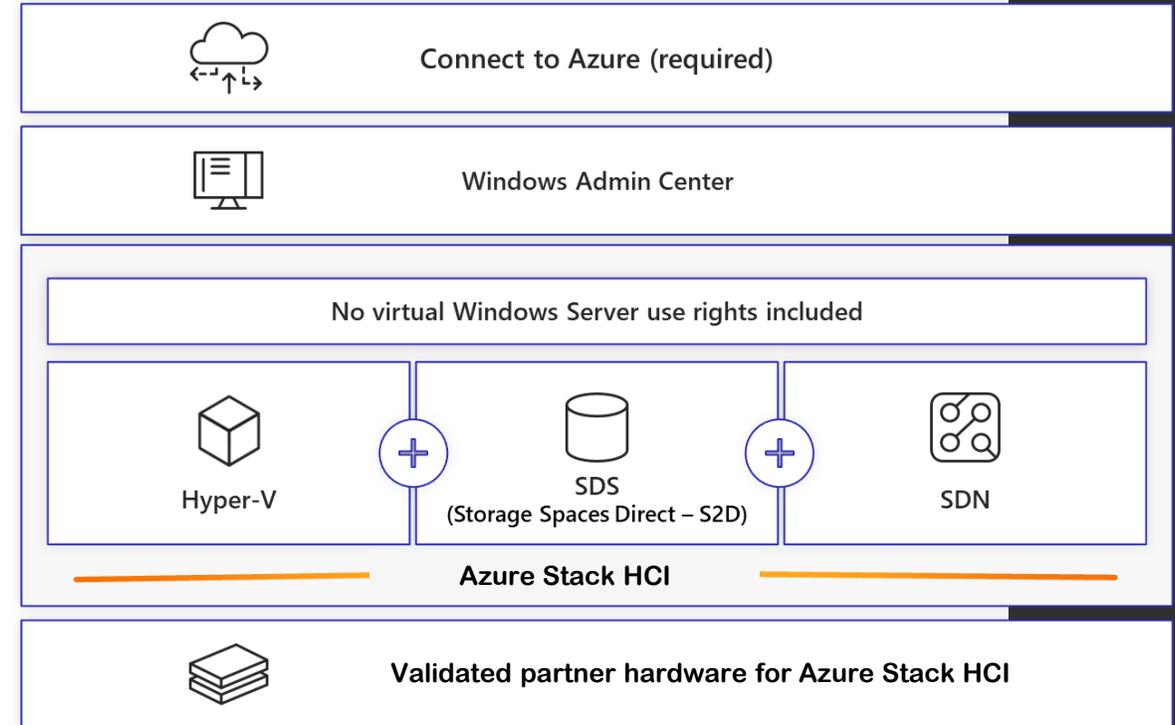


Azure Stack HCI und Windows Server

based on Windows Server 2022:

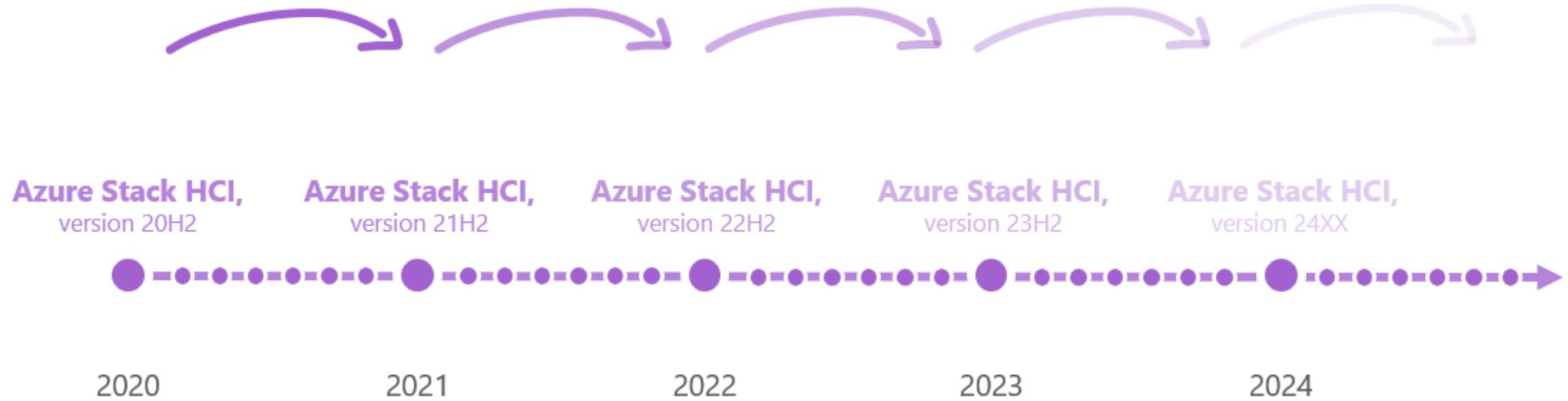


based on Azure Stack HCI:

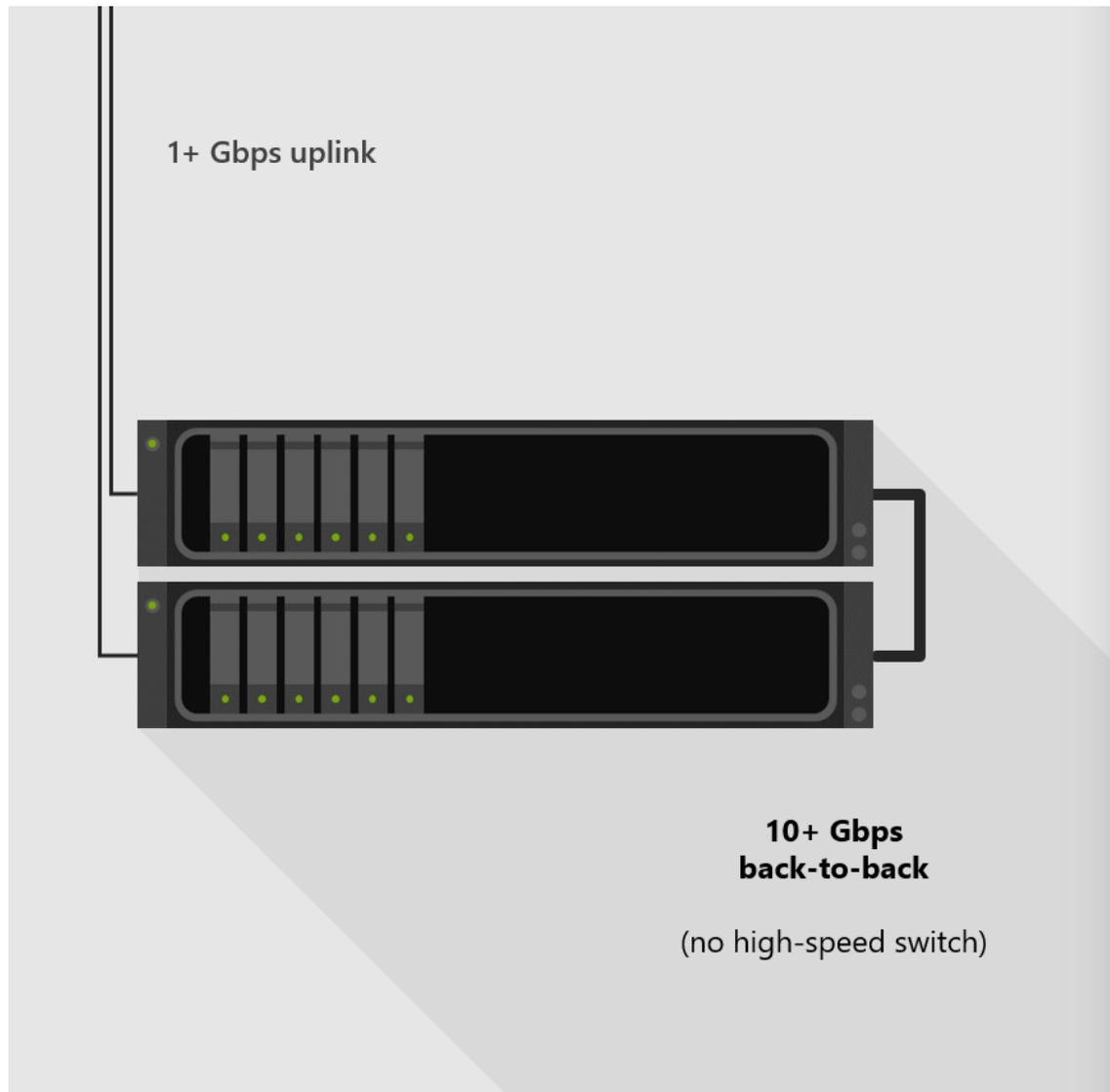


* on licensed Hosts only

Azure Stack HCI Roadmap



Azure Stack HCI



Start small...

Minimal footprint

Just 2 servers minimum
2x Flash or 2xFlash + 4xHDD per server

Made possible by

Lightweight quorum

Cloud, file share, or USB key
No costly Witness VM Appliance

Nested resiliency

Withstand multiple failures

Manfred Helber

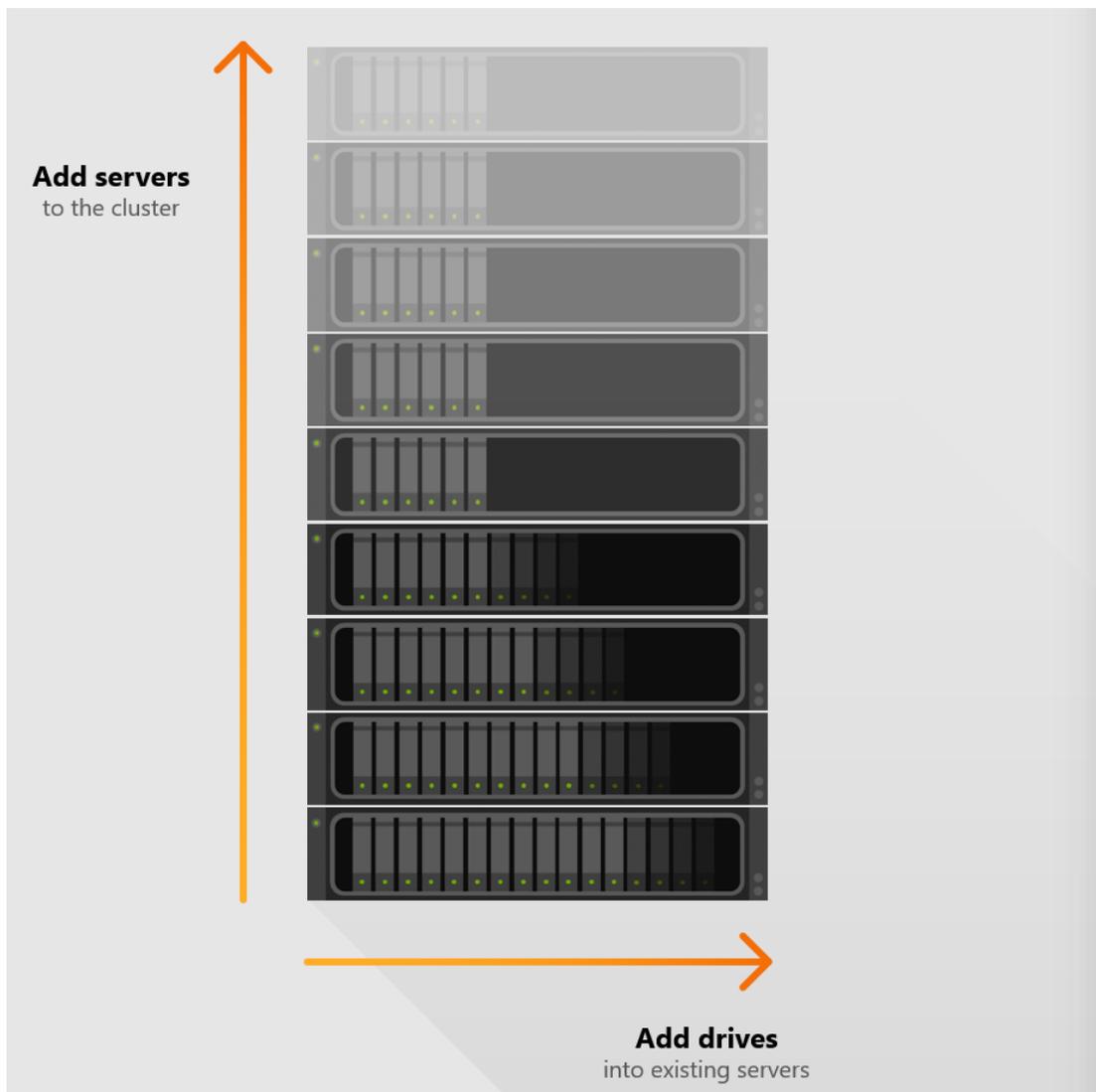
Azure Stack HCI – Single Server



- Min 2x Flash (SSD/NvMe)
- All Azure Stack HCI benefits

Attributes	Single-node	Multi-node
Full software-defined data center (SDDC) stack (hypervisor, storage, networking)	Yes	Yes
Storage Spaces Direct support	Yes	Yes
Software Defined Networking (SDN) support	Yes	Yes
Native Azure Arc integration	Yes	Yes
Managed through Windows Admin Center and Azure portal	Yes	Yes
Azure billing/registration	Yes	Yes
Charged per physical core	Yes	Yes
Support through Azure	Yes	Yes
Connectivity (intermittent or connected)	Yes	Yes
Azure benefits on Azure Stack HCI	Yes	Yes
Activate Windows Server Subscriptions	Yes	Yes
Azure Defender and Secured-core	Yes	Yes
Azure Kubernetes Service on Azure Stack HCI (AKS-HCI)	Yes	Yes
Azure Virtual Desktop	Yes	Yes
Azure Site Recovery	Yes	Yes
Azure Stack HCI: Stretch cluster support	No	Yes
Use Graphics Processing Units (GPUs) with clustered VMs	Yes	Yes

Azure Stack HCI



Scale with your needs

Scale up, scale out

Up to 16 servers per cluster

Limited by rack and switch ports

Up to 4,000 TB storage capacity per cluster

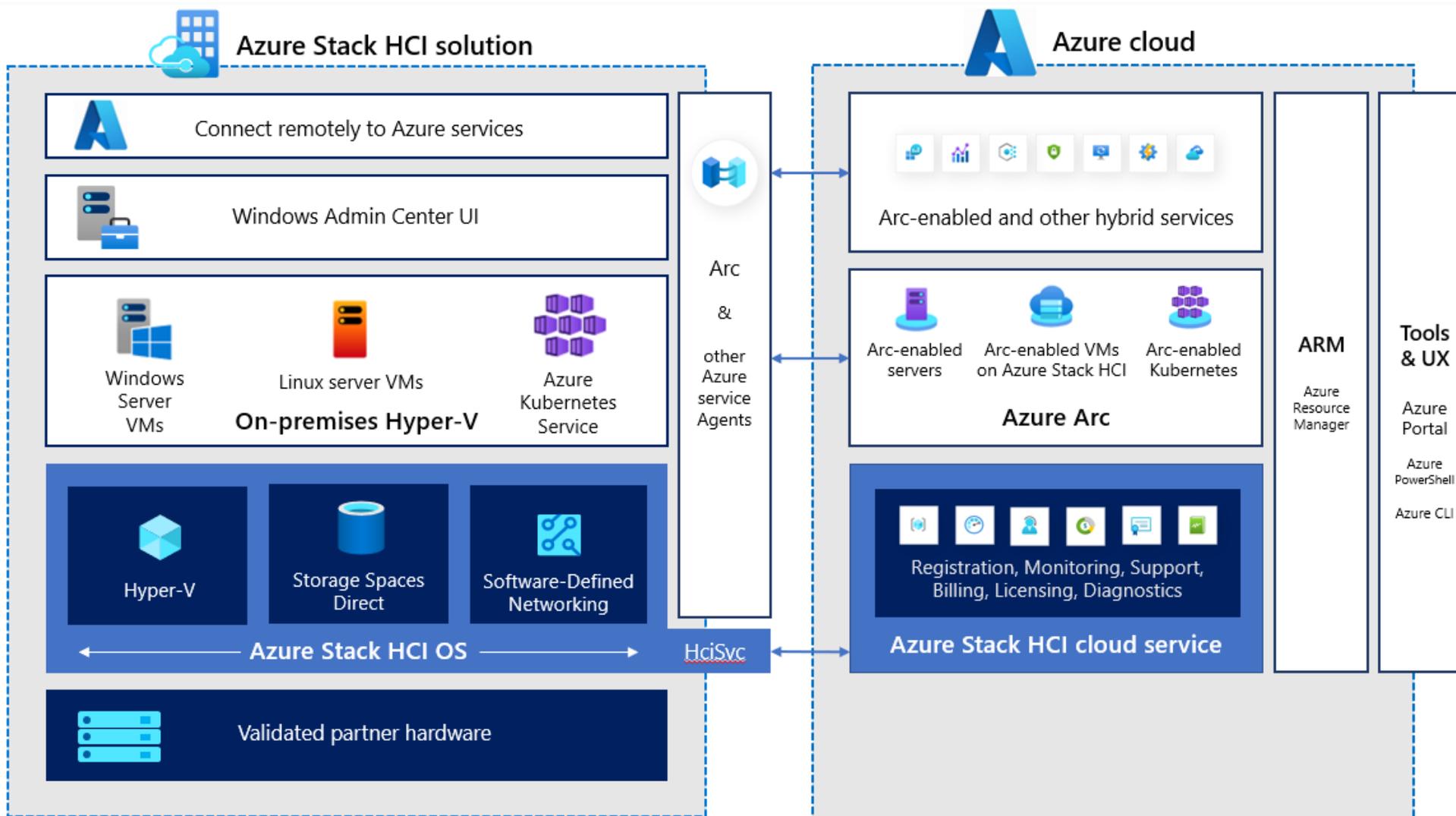
Store all of Wikipedia in every language 50 times

With no downtime

Automatic VM load balancing

Automatic storage rebalancing

Azure Stack HCI



Azure Stack HCI läuft auf lokaler Server-Hardware

Azure Stack HCI 23H2 – zertifizierte Systeme der Thomas-Krenn.AG

Azure Stack HCI Series RI2112 Ver. 4.0

[ⓘ Konfigurationsinfos](#)



Highlights

Für den Einsatz von Azure Stack HCI
zertifiziert

2x Intel Scalable 3rd Gen CPU
Bis zu 2x 40-Core CPU
Bis zu 4 TB RAM

Full-NVMe

Azure Stack HCI Series RI2212 Ver. 4.0

[ⓘ Konfigurationsinfos](#)



Highlights

Für den Einsatz von Azure Stack HCI
zertifiziert

2x Intel Scalable 3rd Gen CPU
Bis zu 2x 40-Core CPU
Bis zu 4 TB RAM

Hybrid (NVMe / SSD / HDD)

Azure Stack HCI Series RI2224 Ver. 4.0

[ⓘ Konfigurationsinfos](#)



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Full-NVMe

Azure Stack HCI Series RA2112 Ver. 4.0

[ⓘ Konfigurationsinfos](#)



Highlights

Für den Einsatz von Azure Stack HCI
zertifiziert

2x AMD EPYC 7003 CPU
Bis zu 2x 64-Core CPU
Bis zu 4 TB RAM

Full-NVMe

Azure Stack HCI 23H2 – zertifizierte Systeme der Thomas-Krenn.AG

Azure Stack HCI Series

RA2212 Ver. 4.0

[ⓘ Konfigurationsinfos](#)



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Azure Stack HCI Series

RA2224 Ver. 4.0

[ⓘ Konfigurationsinfos](#)



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Full-NVMe

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RA1112 Ver. 4.0

[ⓘ Konfigurationsinfos](#)



Highlights

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1x AMD EPYC 7003 CPU
Bis zu 1x 64-Core CPU
Bis zu 2 TB RAM

Full-NVMe

Azure Stack HCI Series

RA1212 Ver. 4.0

[ⓘ Konfigurationsinfos](#)



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Hybrid (NVMe / SSD / HDD)

Azure Stack HCI 23H2 – zertifizierte Systeme der Thomas-Krenn.AG

Azure Stack HCI Series RA1224 Ver. 4.0

[ⓘ Konfigurationsinfos](#)



Highlights

Für den Einsatz von Azure Stack HCI
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1x AMD EPYC 7003 CPU
Bis zu 1x 64-Core CPU
Bis zu 2 TB RAM

Full-NVMe

Azure Stack HCI Series RA1448 Ver. 4.0

[ⓘ Konfigurationsinfos](#)



Highlights

Für den Einsatz von Azure Stack HCI
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1x AMD EPYC 7003 CPU
Bis zu 1x 64-Core CPU
Bis zu 2 TB RAM

Hybrid (NVMe / SSD / HDD)

Azure Stack HCI 23H2 Neuerungen und Änderungen

Azure Stack HCI 23H2

Neues Cloud-based Deployment

Microsoft Azure

Home > Azure HCI > Create Azure Stack HCI >

Create Azure Stack HCI

1 Basics 2 Template 3 Networking 4 Management 5 Security 6 Advanced 7 Tags 8 Review + cr

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ Retail POC Prod

Resource group * ⓘ S1010CL-rg
[Create a resource group](#)

Azure region * ⓘ East US

Site * ⓘ Portland

Provide the cluster details

Enter the cluster name used for this system. You'll use the cluster name later to work with this Azure Stack HCI system instead of directly managing the underlying server or servers. [Learn more](#)

Cluster name * ⓘ S1010CL

Select servers to create a cluster

The following servers have been discovered that are compliant for creating an Azure Stack HCI cluster. Select servers from the list below to form the cluster.

Refresh

Showing 2 of 2 instances

<input checked="" type="checkbox"/>	Server name ↑↓	IP address ↑↓	Status ↑↓	Extensions ↑↓	Operating system ↑↓
<input checked="" type="checkbox"/>	S1010-N01	10.0.0.1	Ready	Ready	Azure Stack HCI
<input checked="" type="checkbox"/>	S1010-N02	10.0.0.2	Ready	Ready	Azure Stack HCI

Azure Stack HCI 23H2

Integration mit Azure
Update Manager

Microsoft Azure

Home > Update Center > Azure Stack HCI

Update management center | Azure Stack HCI

Update Refresh Check for updates Edit columns

10 systems that have the Azure Stack HCI, version 22H2 Supplemental Package can be managed here. [Learn more](#)

Filter by name Status: All Update readiness: All Version: All

Updates are available 10 out of 80 systems

Up to date 12 out of 80 systems

Failed to update 0 out of 80 systems

Unhealthy 0 out of 80 systems

Select the systems to update

Showing 80 of 80 systems

Name	Status	Update readiness	OS Ver
Updates are available			
<input checked="" type="checkbox"/> S1010CL	Updates are available	Unhealthy	10.0.25
<input checked="" type="checkbox"/> S1020CL	Updates are available	Healthy	10.0.25
<input checked="" type="checkbox"/> S1030CL	Updates are available	Healthy	10.0.25
<input checked="" type="checkbox"/> S1040CL	Updates are available	Healthy	10.0.25
<input checked="" type="checkbox"/> S1050CL	Updates are available	Unhealthy	10.0.25
<input checked="" type="checkbox"/> S1060CL	Updates are available	Healthy	10.0.25
<input checked="" type="checkbox"/> S1070CL	Updates are available	Healthy	10.0.25
<input checked="" type="checkbox"/> S2010CL	Updates are available	Healthy	10.0.25
<input checked="" type="checkbox"/> S2020CL	Updates are available	Healthy	10.0.25
<input checked="" type="checkbox"/> S2030CL	Updates are available	Healthy	10.0.25
Up to date			
<input type="checkbox"/> S2040CL	Up to date	Healthy	10.0.25
<input type="checkbox"/> S2050CL	Up to date	Healthy	10.0.25
<input type="checkbox"/> S2060CL	Up to date	Healthy	10.0.25
<input type="checkbox"/> S2070CL	Up to date	Healthy	10.0.25

Azure Stack HCI 23H2

Cloud-based VM Management

The screenshot shows the Microsoft Azure portal interface for managing virtual machines in an Azure Stack HCI environment. The breadcrumb path is "Home > PDX-HCIcluster". The main heading is "PDX-HCIcluster | Virtual machines" with a star icon and a menu icon. Below the heading, there is a search bar and a list of actions: "+ Create VM", "Refresh", and "Delete". A search bar for filtering items is also present. The main content area displays a table of virtual machines:

	Name	Status	Operating system
<input type="checkbox"/>	PDX-a01	Running	Windows
<input type="checkbox"/>	PDX-U01	Running	Linux

The left sidebar contains the following navigation options:

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Settings
 - Windows Admin Center (preview)
 - Extensions
 - Configuration
 - Locks
- Resources (preview)
 - Virtual machines**
 - Virtual networks
 - Disks
 - VM images
 - Kubernetes Clusters
 - Storage paths
- Updates

Azure Stack HCI 23H2

Einfache Installation
von Extensions wie
Defender for Cloud

Microsoft Azure Search resources, services and docs

Home > Azure Arc | Machines >

contoso-arc
Machine - Azure Arc

Search

Start Restart Stop Delete Refresh

Essentials

Resource group (change)	: Contoso-RG	Computer name (change)
Status	: Connected	FQDN
Location	: WestUS	Operating system
Subscription (change)	: Contoso	Operating system versic
Subscription ID	: b9184e8a-0517-4848-8c79-db9aa4716efd	Cloud provider
Agent version	: 1.0.20259.009	Host environment
Private link scope	: Contoso-private-link	Manufacturer
		Model

Tags (edit) : [Datacenter : DC-001](#) [City : Redmond](#) [StateOrDistrict : WA](#) [CountryOrRegion](#)

Management services Recommendations Tutorials

Get the most out of Azure Arc

Why are these recommended to me?

Automanage
Plans start at free

Automatically onboard recommended security and management Azure services.

Not configured [PREVIEW](#)

Defender for Cloud
Plans start at free

Continuously monitor for potential security vulnerabilities and recommendations.

Not configured

Other management services

Policies
Price varies

View compliance by assigning guest configuration policies to your machine.

Updates
Plans start at free

Customize updates for your Arc-enabled server.

Azure Stack HCI 23H2

Secure by Default

Microsoft Azure

Home > Microsoft Defender for Cloud | Recommendations >

Azure Stack HCI hosts should meet Secured-Core Server requirements

Open query

Severity: **Low** | Freshness interval: 24 Hours | Tactics and techniques: Privilege Escalation

Description
Ensure that all Azure Stack HCI hosts meet all software and hardware Secured-Core Server requirements

Related recommendations (1)
Recommendation: Azure Stack HCI hosts should maintain security defaults

Remediation steps

Affected resources
Unhealthy resources (7) | Healthy resources (0) | Not applicable resources

Search VMs & servers

Name	Subscription
S1010CL	Retail POC Prod
S1020CL	Retail POC Prod
S1030CL	Retail POC Prod
S1040CL	Retail POC Prod
S1050CL	Retail POC Prod
S1060CL	Retail POC Prod
S1070CL	Retail POC Prod

Security checks

Fix | Trigger logic app | Exempt | Assign owner | Change owner and set ETA

Was this recommendation useful? Yes No

Fix resources (7 resources)

Refresh

This action will set the following settings to 'Enact HCI cluster.'

Secured-Core server requirements

- Boot DMA protection and Secure Boot will on hardware configuration

Security setting

- Hypervisor Enforced Code Integrity (HVCI)
- Boot DMA protection
- System guard
- Secure Boot
- Virtualization Based Security (VBS)
- Trusted Platform Module 2.0 (TPM 2.0)

Selected resources

Resource

- S1010CL
- S1020CL
- S1030CL
- S1034CL
- S1050CL
- S1060CL
- S1070CL

Restart the target servers if required

Fix 7 resources | Cancel

Azure Stack HCI 23H2

Azure Trusted Launch VMs

Microsoft Azure

Home > Azure Stack HCI >

Create an Azure Arc virtual machine

Basics | Disks | Networking | Tags | Review + create

Use one of your resource providers to create a new virtual machine in one of your custom locations. [Learn more](#)

Project details
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *

Resource group *
[Create new](#)

Instance details
Select the custom location for your new virtual machine. Some custom locations may support more than one kind of virtual machine.

Virtual machine name *

Custom location *

Virtual machine kind *

Image *
The basic level of security for your virtual machines.

Virtual processor count *
Protects against persistent and advanced attacks on Gen 2 virtual machines with configurable features like secure boot and virtual Trusted platform Module (vTPM).

Memory (GB) *

Memory type *

Security type *
[Configure security features](#)

Microsoft Defender for Cloud
Microsoft Defender for Cloud provides unified security management and advanced threat protection across hybrid cloud workloads. [Learn more](#)

Your subscription is protected by Microsoft Defender for Cloud basic plan.

Azure Stack HCI 23H2

Azure Virtual Desktop auf Azure Stack HCI

Microsoft Azure Search resources, services, and docs (G+)

Home > Azure Virtual Desktop | Host pools >

Create a host pool ...

Basics **Virtual Machines** Workspace Advanced Tags Review + create

A host pool is a collection of one or more identical virtual machines within an Azure Virtual Desktop environment. Here you can give details to create Azure virtual machines for your host pool now, or you can create and add them later, for example if you plan to add virtual machines from Azure Stack HCI. [Learn more](#)

Add Azure virtual machines No Yes

Host pools are a collection of one or more identical virtual machines within Azure Virtual Desktop environments. Here you provide a common set of properties to update the Session hosts within your host pool.

Resource group

Name prefix *
i Session host name must be unique within the Resource Group.

Virtual machine type Azure region Azure Stack HCI

Custom location *

Images
[See all images](#)

Number of VMs *

Virtual processor count *

Memory type Static Dynamic

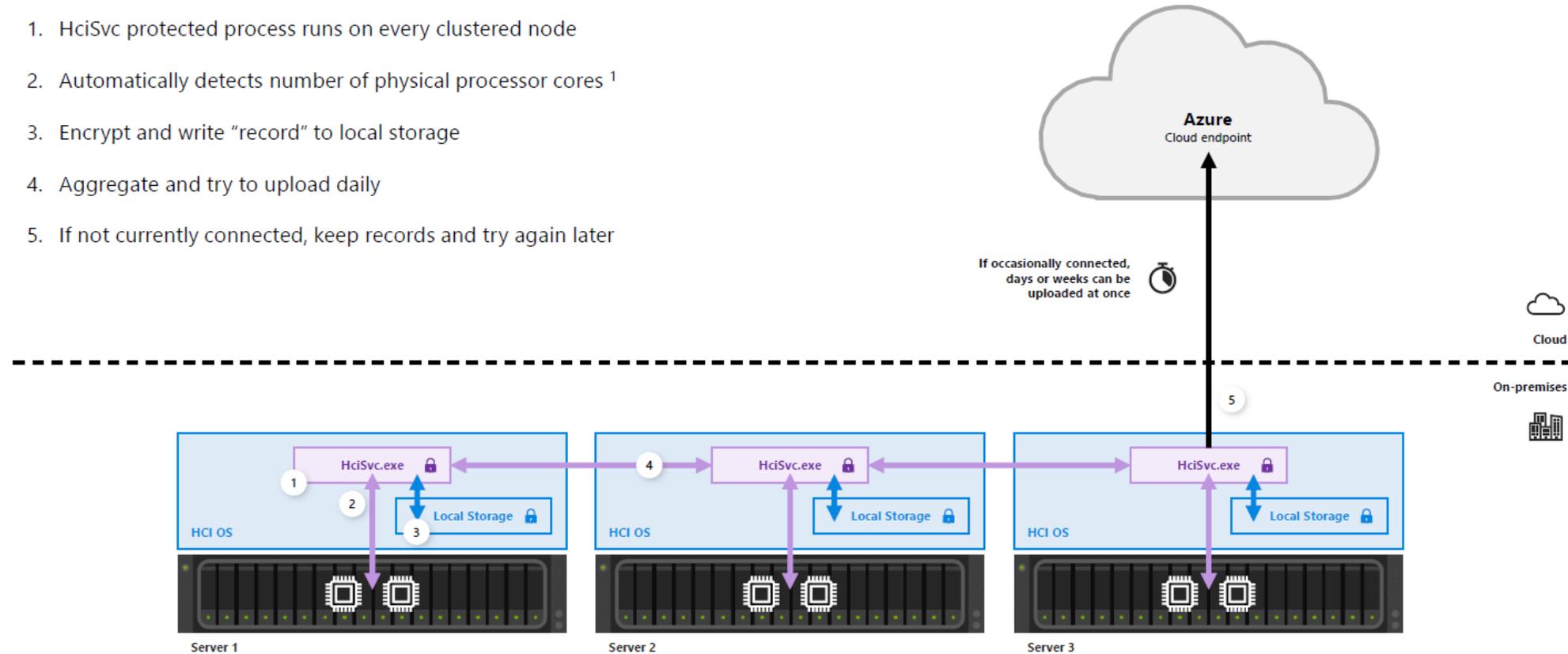
Memory (GB) *

Azure Stack HCI 23H2 Lizenzierung

Azure Stack HCI

Cores are detected, uploaded automatically

1. HciSvc protected process runs on every clustered node
2. Automatically detects number of physical processor cores ¹
3. Encrypt and write "record" to local storage
4. Aggregate and try to upload daily
5. If not currently connected, keep records and try again later



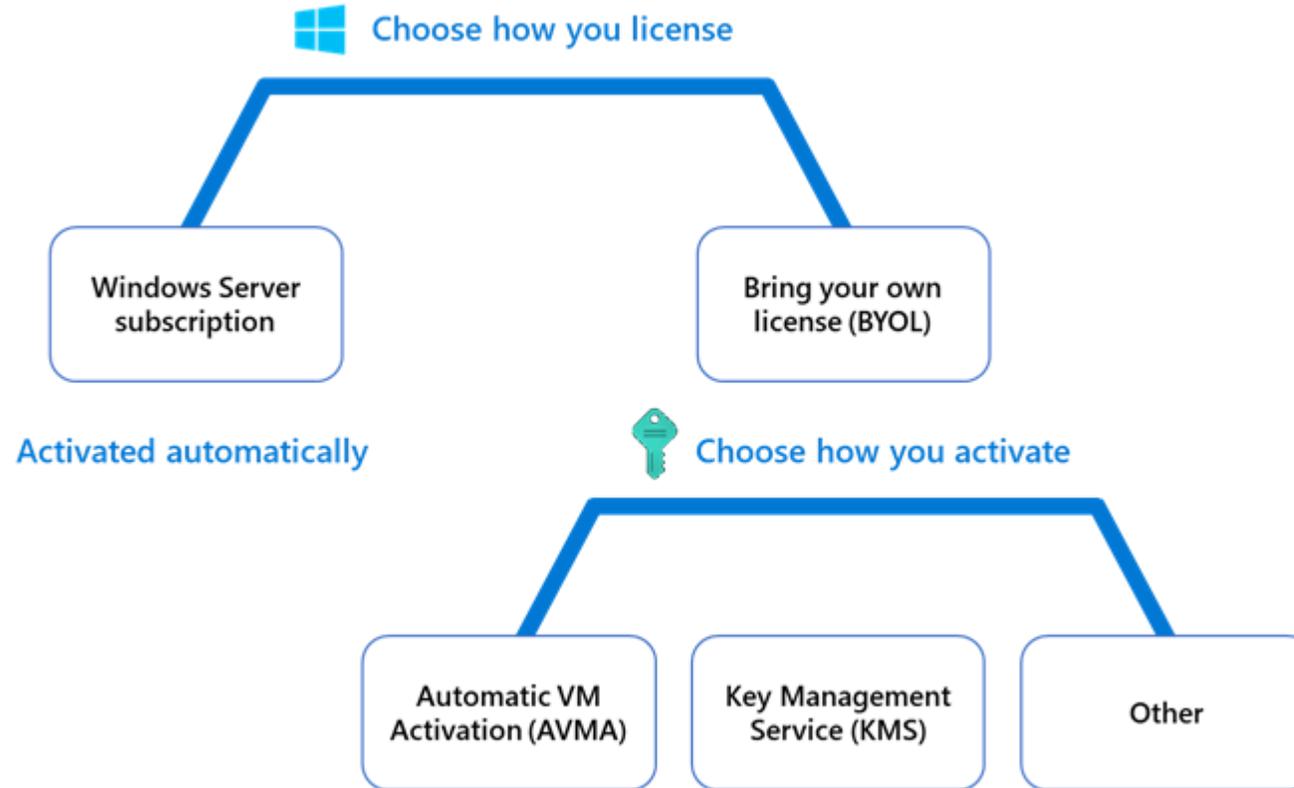
¹ Excludes down or failed nodes, excludes hyperthreading, and currently does not distinguish between Intel® and AMD processor cores

Azure Stack HCI OS

As little or as much Windows Server as you need, like other HCI platforms

			
What you want to run:	Linux applications Open source software	A few Windows Server roles or applications	Unlimited Windows Server roles or applications
What you buy:	Validated OEM HW	Validated OEM HW	Validated OEM HW
	+	+	+
Host: Subscription	Azure Stack HCI	Azure Stack HCI	Azure Stack HCI
	+	+	+
Guest: Perpetual	<i>Nothing else from Microsoft</i>	Windows Server 2022 Standard(s)	Windows Server 2022 Datacenter

Azure Stack HCI – Licensing VM Workloads



<https://docs.microsoft.com/en-us/azure-stack/hci/manage/vm-activate>

Azure Stack HCI – Licensing

Hostdienstgebühr

Instanz	Zahlungsintervall	Preis	Preis mit Azure-Hybridvorteil
Azure Stack HCI	Monatliche Dienstgebühr	\$10/physischer Kern/Monat	\$0/physischer Kern/Monat

Azure Stack HCI bietet eine kostenlose Testversion für die ersten 60 Tage nach Registrierung. Nach Ablauf der ersten 60 Nutzungstage wird Ihnen die monatliche Dienstgebühr in Rechnung gestellt.

Zusätzliche Workloads (optional)

Instanz	Zahlungsintervall	Preis	Preis mit Azure-Hybridvorteil
Windows Server-Abonnement (für Gäste)	Monthly service fee	\$23,3/physischer Kern/Monat	\$0/physischer Kern/Monat

Das Windows Server-Abonnement bietet innerhalb der ersten 60 Tage nach der Registrierung Ihrer Azure Stack HCI eine kostenlose Testversion. Ihnen wird die monatliche Dienstgebühr nach den ersten 60 Tagen der Nutzung von Azure Stack HCI in Rechnung gestellt.

<https://azure.microsoft.com/en-us/pricing/details/azure-stack/hci/>

New benefit for Software Assurance customers

Microsoft Azure Search resources, services, and docs (G+)

Home > Azure Stack HCI > ASHCICL110

Azure Stack HCI

Manfred Helber IT Consulting (manfredhelber.de)

Manage view Refresh

Filter for any field...

Name
10-ashcicl02
10-ashcicl09
18-ASHCICL01
18-ASHCICL02
ASHCICL101
ASHCICL110
D102-ASHCICL30
D102-ASHCICL50
D102-ASHCICL60

ASHCICL110 | Configuration

Azure Stack HCI

Search Refresh

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings

- Windows Admin Center (preview)
- Extensions
- Configuration
- Locks

Resources (preview)

- Virtual machines
- Virtual networks
- Disks
- VM images

Monitoring

- Insights (preview)
- Logs
- Workbooks

Automation

- Tasks (preview)

Support + troubleshooting

- New Support Request

Azure Hybrid Benefit

Windows Server Datacenter customers with active Software Assurance can exchange their licenses to get Azure Stack HCI and Windows Server subscription at no additional cost. [Learn more](#)

Benefit: ✔ Activated

Windows Server subscription add-on

Subscribe to Windows Server guest licenses through Azure. This grants you unlimited Windows Server licenses for VMs on this system, and is included at no additional cost because Azure Hybrid Benefit is activated on this system. [Learn more](#)

[Activate benefit](#)

Service health data

Microsoft collects the system metadata necessary to keep the Azure Stack HCI service current, secure, and operating properly. This setting is turned on by default. [Learn more](#)

Data level: Basic ⌵

[Change](#)

[Microsoft Privacy Statement](#)

Enable Azure benefits

To use workloads and services that are exclusively available on Azure, turn on Azure platform attestation at no additional fee. [Learn more](#)

Host attestation: ✘ Not Enabled

Page 1 of 1

New benefit for Software Assurance customers

The screenshot shows the Microsoft Azure portal interface. On the left is a navigation sidebar with options like 'Home', 'Dashboard', 'All services', and 'FAVORITES'. The main content area is titled 'Azure Stack HCI' and shows a list of resources. The 'Configuration' page for resource 'ASHCICL110' is active, displaying sections for 'Overview', 'Activity log', 'Access control (IAM)', 'Tags', 'Diagnose and solve problems', 'Settings', 'Windows Admin Center (preview)', 'Extensions', 'Locks', 'Resources (preview)', 'Monitoring', and 'Automation'. The 'Configuration' section includes 'Azure Hybrid Benefit' (Activated), 'Windows Server subscription add-on', and 'Service health data'. A modal window titled 'Activate with Azure Hybrid Benefit' is open, showing details for a Windows Server subscription, including the subscription ID, resource group, total physical cores, and monthly cost. The modal includes an 'Activate benefit' button.

Fragerunde

Die nächsten Termine

Die nächsten Termine

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Das Deployment ändert sich mit Azure Stack HCI 23H2 grundlegend! So wird nun das Azure Portal für das Deployment der azure Stack HCI Lösung genutzt. Der Microsoft Most Valuable Professional Manfred Helber erklärt in diesem Webcast was bei der Hardware-Auswahl für Azure Stack HCI zu beachten ist und wie das Deployment von Azure Stack HCI 23H2 genau abläuft.

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Manfred Helber

Vielen Dank!



Manfred Helber



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Manfred Helber

