

# Azure Stack HCI 23H2 Deployment



Manfred Helber



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# Themen heute

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**

# Die nächsten Termine

## 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

# 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

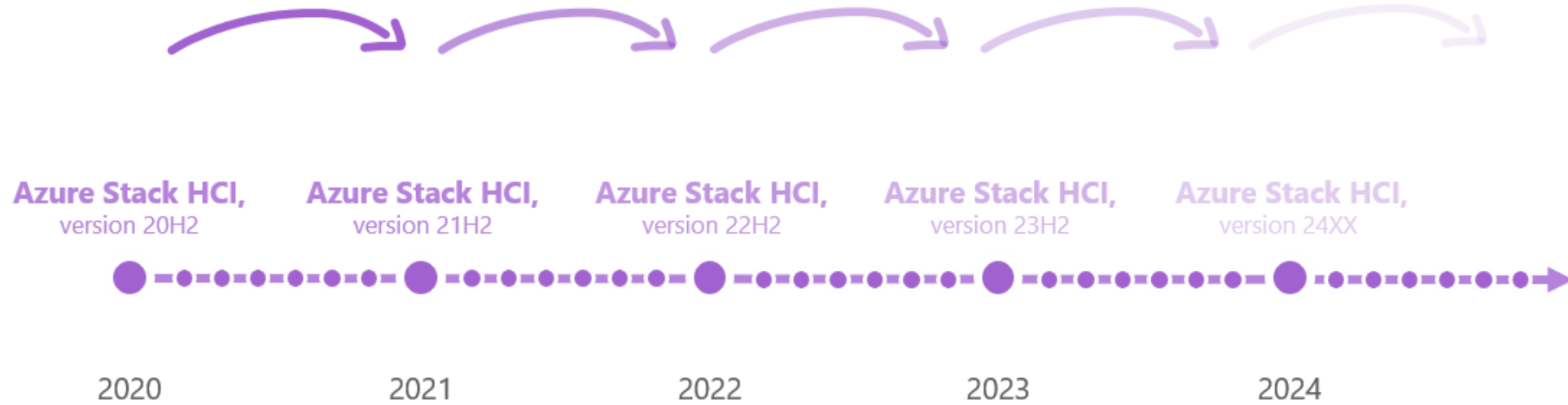
Manfred Helber

# Themen heute

- **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**
- **Fragerunde**

# Azure Stack HCI 23H2 latest News

# Azure Stack HCI Roadmap





Azure Stack HCI version 23H2  
is generally available now



# Azure Stack HCI whats next

**Azure Migrate to Azure Stack HCI (preview).** Use Azure Migrate to move VMs from an existing Hyper-V environment to Azure Stack HCI version 23H2. This feature uses Azure Migrate as the control plane, but the data transfer stays entirely on-premises. Support for VMware vCenter source environments is coming soon.

**Microsoft Defender for Cloud for Azure Stack HCI (preview).** In addition to workload protections for VMs and Kubernetes, Microsoft Defender for Cloud now offers built-in security recommendations covering your Azure Stack HCI version 23H2 infrastructure.

**Azure Arc Overview for Azure Stack HCI (preview).** Navigate to the Azure Stack HCI section in Azure Arc to see built-in dashboards summarizing all your Azure Stack HCI clusters. Get an at-a-glance view of alerts, updates, and more.

# When to still use Azure Stack HCI 22H2

**Stretch clustering.** Azure Stack HCI version 23H2 is available today for “single room” deployments where all nodes are in the same room, connected to the same switch(es). It doesn’t yet support stretching the cluster between two rooms. We know that this scenario is critical for many customers, especially in manufacturing, and we are committed to providing multi-room high availability with Azure Stack HCI version 23H2, including key features like cloud-based deployment, updates, and VM provisioning. Development will take some time: we expect to share more details around mid-year. In the meantime, customers who require a stretch cluster should continue to deploy version 22H2.

**System Center support.** Our ambition with Azure Stack HCI and Azure Arc is to simplify and consolidate your operational experience so that you can manage everything, from infrastructure to VMs to Kubernetes, with a single control plane, the Azure Resource Manager, and a single pane of glass, the Azure portal. We’ve heard your feedback about how important this is, and we are committed to rapidly growing the capabilities of Azure Arc to achieve this vision. We also know that many customers have an existing investment in System Center that they prefer to leverage. In the coming months, System Center will add support for Azure Stack HCI version 23H2. We’re working on another blog post, together with the System Center team, to detail our long-term roadmap.

# When to still use Azure Stack HCI 22H2

## Coming soon: update from 22H2 to 23H2

Azure Stack HCI will offer an in-place update from version 22H2 to version 23H2. This is our fourth annual release since launching as a subscription service, and we're heartened by our customers' success keeping Azure Stack HCI up to date: over 97% of clusters are running the latest version, 22H2.

This year's update is the most advanced yet: every cluster will get the Azure Arc infrastructure, the Lifecycle Manager, and more during the update. Our highest priority is to ensure that the update is seamless, so we're taking some extra time for testing. We expect to start offering the update to a few customers as soon as next month, gradually expanding to everyone over the course of the year. Thank you for your patience as we get this right.

Until the 23H2 update has been offered to everyone, we'll continue supporting version 22H2.

There is no end date for Azure Stack HCI version 22H2 servicing or support at this time.

# Zertifizierte Systeme von Thomas-Krenn für Azure Stack HCI

# 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](#)



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Hybrid (NVMe / SSD / HDD)

## Azure Stack HCI Series RI2224 Ver. 4.0

📄 [Konfigurationsinfos](#)



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RA2212 Ver. 4.0

[🕒 Konfigurationsinfos](#)



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## Azure Stack HCI Series

RA1112 Ver. 4.0

[🕒 Konfigurationsinfos](#)



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[🕒 Konfigurationsinfos](#)



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[ⓘ Konfigurationsinfos](#)



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Full-NVMe

## Azure Stack HCI Series RA1448 Ver. 4.0

[ⓘ Konfigurationsinfos](#)



### Highlights

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Bis zu 1x 64-Core CPU  
Bis zu 2 TB RAM

Hybrid (NVMe / SSD / HDD)

# Vorbereitungen für das Deployment von Azure Stack HCI 23H2



Microsoft Azure

Search resources, services, and docs (G+)

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Home > Azure Arc

## Azure Arc | Get started

Microsoft

Search

Get started All clusters

### Get started with Azure Stack HCI

Bring the power of the cloud to your edge environment with Azure Stack HCI. Deploy and manage container-based and VM-based applications with local compute and storage on your own hardware. [Learn more](#)

#### 1. Choose hardware

Pick a validated hardware from your preferred vendor. Choices range across several platforms.

[Explore catalog](#)

#### 2. Download software

Download and install Azure Stack HCI software, if your system didn't come installed with an OS.

[Download Azure Stack HCI](#)

#### Deploy Azure Stack HCI

Deploy your Azure Stack HCI from cloud

If you are using the 22H2 build of Azure Stack HCI, deploy your cluster following the steps [here](#)

[Deploy cluster](#)

**Management**

- Extended Security Updates
- Custom locations
- Data controllers
- Resource bridges
- Service principals
- Private link scopes

**Infrastructure**

- Machines
- Azure Arc virtual machines (preview)
- Azure Stack HCI**
- Kubernetes clusters
- VMware vCenters
- SCVMM management servers

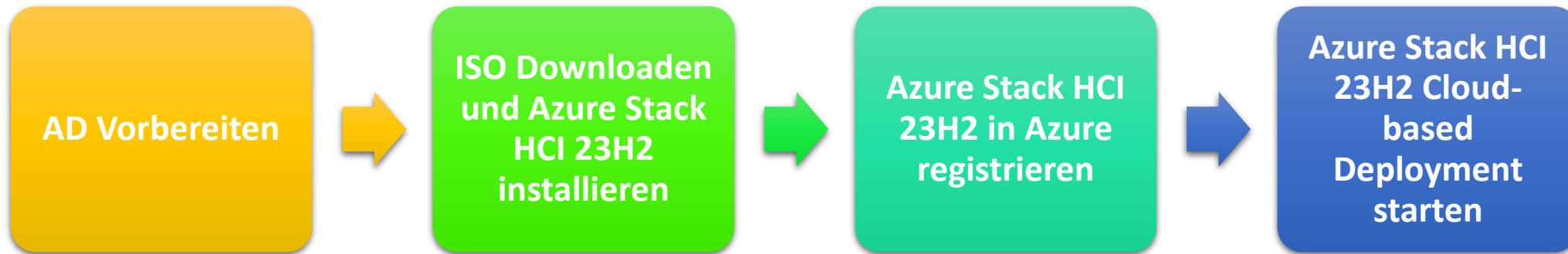
**Data services**

- SQL Server instances
- PostgreSQL (preview)
- SQL managed instances

Left sidebar (Favorites):

- Create a resource
- Home
- Dashboard
- All services
- FAVORITES
- Azure Stack HCI
- Azure Arc
- Azure Virtual Desktop
- Resource groups
- Microsoft Entra ID
- Virtual machines
- Subscriptions
- Storage accounts
- All resources
- SQL databases
- Virtual networks
- Microsoft Defender for Cloud
- Help + support
- Monitor
- Virtual machine scale sets
- Advisor
- Intune
- Recovery Services vaults
- Cost Management + Billing

# Cloud-based Deployment für Azure Stack HCI 23H2



# 1. AD Vorbereiten

Active Directory Users and Computers

File Action View Help

Name	Type	Description
D101-ASHCI11	Computer	
D101-ASHCICL01	Computer	Cluster Name Object of ...

Active Directory Users and Computers

File Action View Help

Name	Type	Description
ASHCI01Admin	User	
ASHCI01-OpsAdmin	Security Group...	ASHCI01-OpsAdmin
ASHCI01-Sto-SG	Security Group...	ASHCI01-Sto-SG

## 2. ISO Downloaden und Azure Stack HCI 23H2 installieren

Microsoft Azure

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Home > Azure Arc

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# 3. Azure Stack HCI 23H2 in Azure registrieren



PowerShell

 Copy

```
#Connect to your Azure account and Subscription
Connect-AzAccount -SubscriptionId $Subscription -TenantId $Tenant -DeviceCode

#Get the Access Token for the registration
$ARMtoken = (Get-AzAccessToken).Token

#Get the Account ID for the registration
$id = (Get-AzContext).Account.Id
```

PowerShell

 Copy

```
#Invoke the registration script. For this release, eastus and westeurope regions are supported
Invoke-AzStackHciArcInitialization -SubscriptionID $Subscription -ResourceGroup $RG
```

# 4. Azure Stack HCI 23H2 Cloud-based Deployment

Microsoft Azure

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Home > Azure Arc

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[Deploy cluster](#)

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# Deploy Azure Stack HCI

Preview

- Basics** !
- Configuration
- Networking
- Management
- Security
- Advanced
- Tags
- Validation
- Review + create

Before you start, make sure to prepare your Active Directory domain and connect all servers in this system to Azure Arc. [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 \* ⓘ

## Instance details

You'll use the cluster name later to manage this Azure Stack HCI system as a whole instead of managing the underlying server or servers. Create an empty key vault to securely store secrets for this system, such as cryptographic keys, local admin credentials and BitLocker recovery keys. [Learn more](#)

Cluster name \* ⓘ

Region \* ⓘ

Key vault name \* ⓘ

[Create a new key vault](#)

## Select the servers to use and validate

Selecting more than one server creates a multi-node cluster. [How do I add a server?](#)

Name	Status	Operating system	Model
<input type="checkbox"/> D102-ASHCI01	<span style="color: green;">✔</span> Ready	Azure Stack HCI	Virtual Machine

Validate selected servers

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Validate selected servers

Review + create

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Next: Configuration

## Create a new key vault

Azure Stack HCI deployment (preview)

### Project Details

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

Subscription ⓘ  
Microsoft Azure Sponsorship

Resource group ⓘ  
RGD102ASHCICL01

### Instance Details

Key vault name \* ⓘ

Region \* ⓘ  
West Europe

Pricing tier ⓘ  
Standard

### Recover options

Recover options Soft delete protection will automatically be enabled on this key vault. This feature allows you to recover or permanently delete a key vault and secrets for the duration of the retention period. This protection applies to the key vault and the secrets stored within the key vault. To enforce a mandatory retention period and prevent the permanent deletion of key vaults or secrets prior to the retention period elapsing, you can turn on purge protection. When purge protection is enabled, secrets cannot be purged by users or by Microsoft.

Soft delete ⓘ  
Enabled

Days to retain deleted vaults \* ⓘ

Purge protection ⓘ  
Disabled

Create

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# Deploy Azure Stack HCI

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Region \* ⓘ

Key vault name \* ⓘ   
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Validate selected servers

**Review + create**

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Region \* ⓘ

Key vault name \* ⓘ  [Create a new key vault](#)

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Validate selected servers ✔

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- Basics
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## Specify the deployment settings

Create a new configuration for this system or select a template that loads settings for you.

Source \*

- New configuration**  
Specify all of the settings to deploy the Azure Stack HCI system.
- Template Spec**  
Load the settings to deploy your system from a template spec stored in your Azure subscription.
- Quickstart template**  
Load the settings to deploy your system from a template created by your hardware vendor or Microsoft.

Review + create

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Next: Networking

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# Deploy Azure Stack HCI

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## Choose whether to use a network switch for the storage network

Storage connectivity \*  Single server deployment

## Group network traffic types by intent

Choose traffic types to group together on a set of network adapters and which types to keep physically isolated on their own adapters.

- **Management** traffic between this system, your management PC, and Azure; also Storage Replica traffic
- **Compute** traffic to or from VMs and containers on this system
- **Storage** (SMB) traffic between servers in a multi-node cluster

Networking pattern \*

- Group all traffic**  
Management, Compute and Storage on the same network intent.
- Group management and compute traffic**  
Management and Compute on the same intent. Storage on dedicated network intent.
- Group compute and storage traffic**  
Management on dedicated network intent. Storage and compute on the same intent.
- Group management and compute (no storage)**  
Management and Compute on the same network intent. Without storage intent.

## Provide intent details

Specify which network adapters should carry each group of traffic types. This is called as an intent.

Compute\_Management\_Storage

Traffic types \*

Intent name \*

Network adapter 1 \*

Storage Network 1 VLAN ID \*

# Deploy Azure Stack HCI

Preview

- Group management and compute traffic  
Management and Compute on the same intent. Storage on dedicated network intent.
- Group compute and storage traffic  
Management on dedicated network intent. Storage and compute on the same intent.
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Compute\_Management\_Storage

Traffic types \*

Intent name \*

Network adapter 1 \*

Storage Network 1 VLAN ID \*

[+ Select another adapter for this traffic](#) [Customize network settings](#)

## Allocate IP addresses to the system and services

We need a block of IP addresses on your management network to use for Azure Stack HCI and for services such as Azure Arc.

Required IP addresses \*

Starting IP \*

Ending IP \*

Subnet mask \*

Default gateway \*

DNS server \*

[+ Add DNS server](#)

[Review + create](#)

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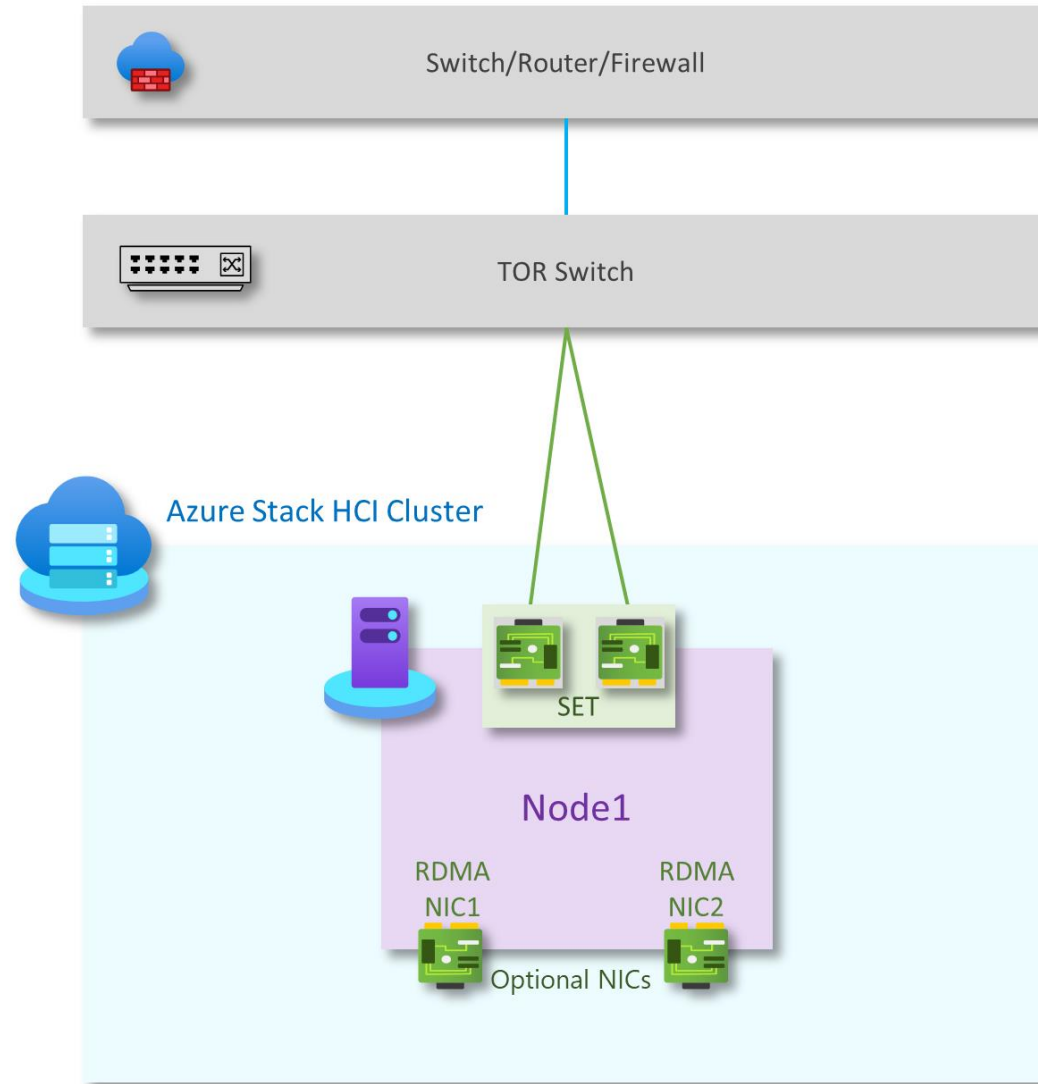
[Next: Management](#)

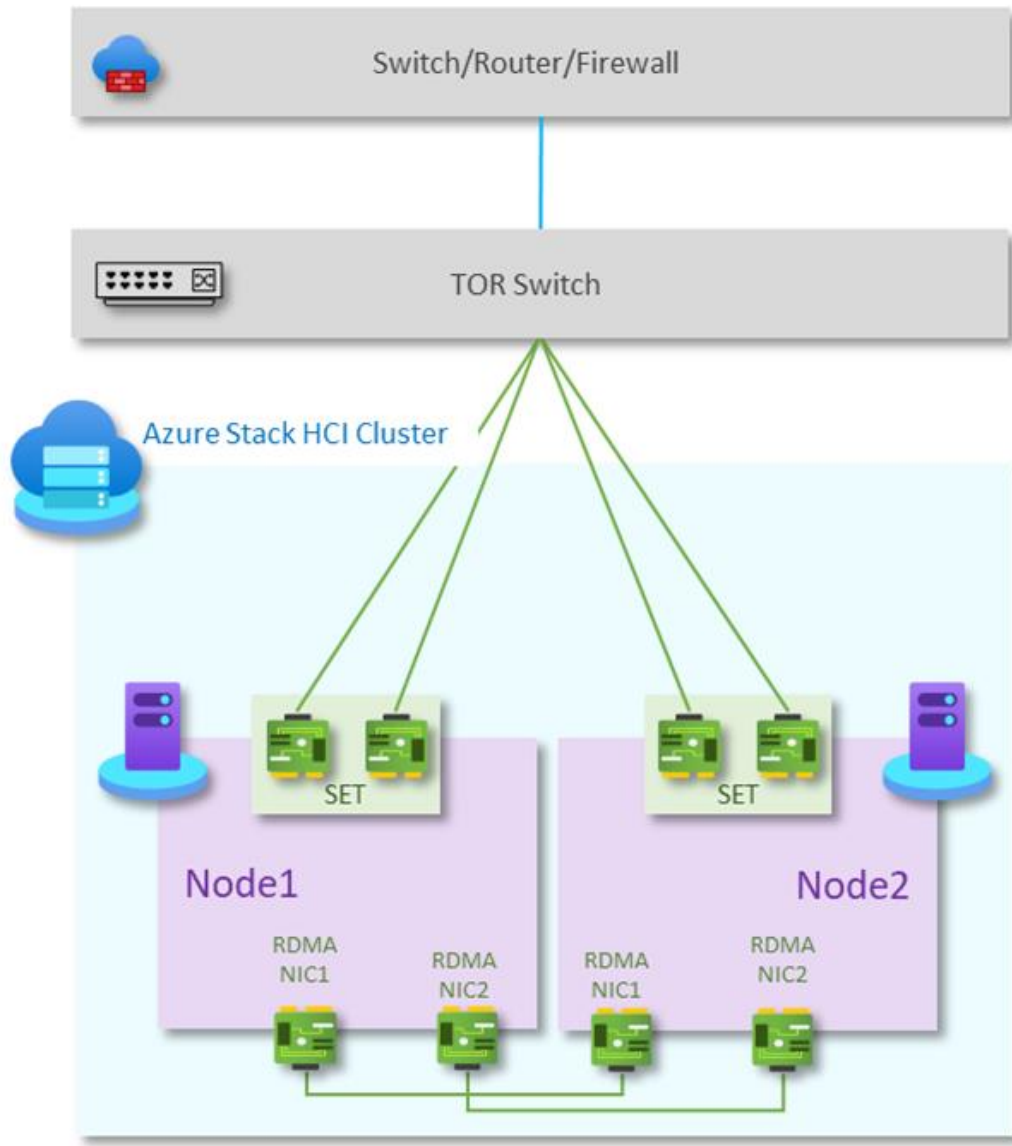
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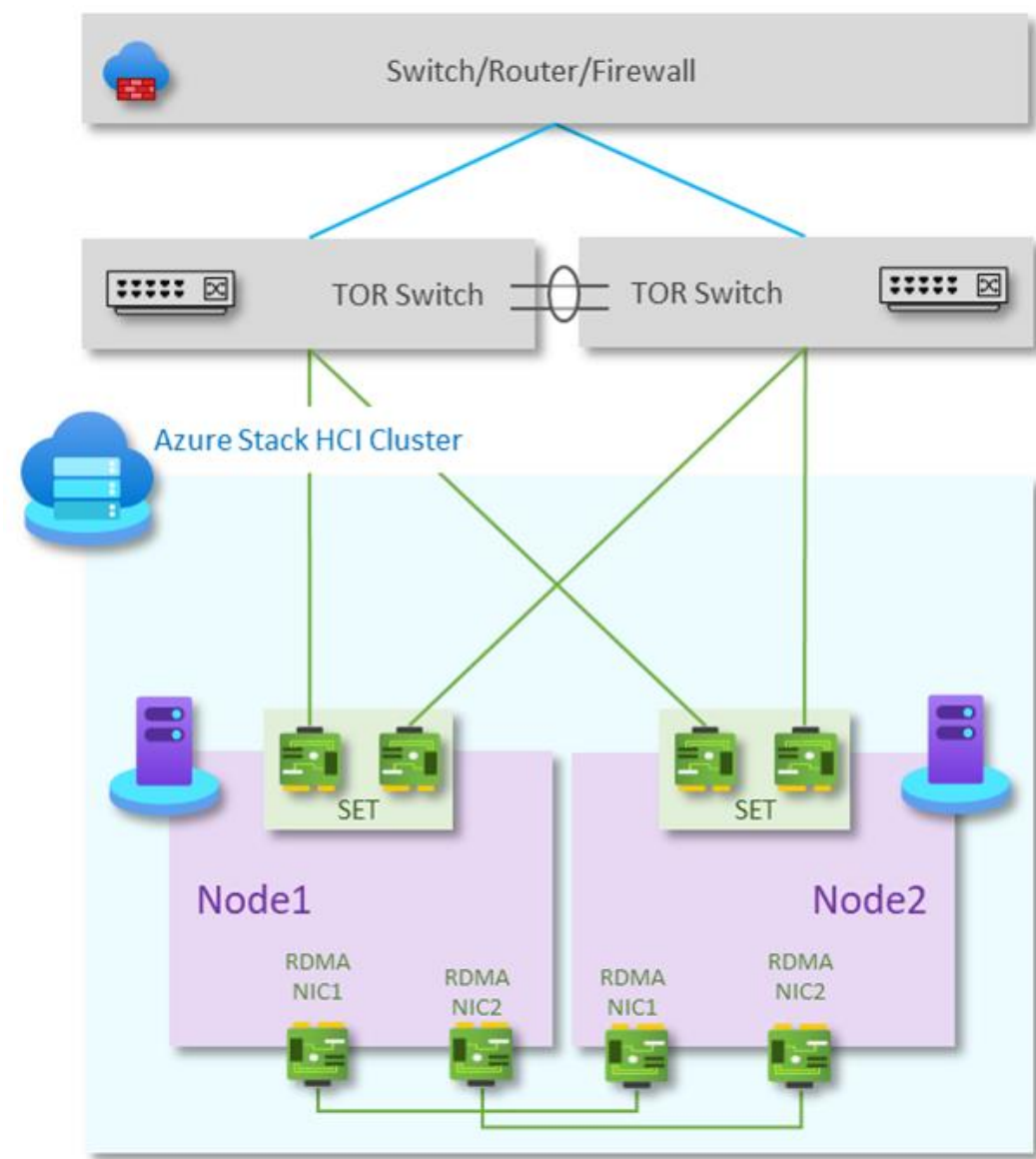
## Supported network topologies

Network topology	Azure portal	ARM template
One node - no switch for storage	By default	Supported
One node - with network switch for storage	Not applicable	Supported
Two nodes - no switch for storage	Supported	Supported
Two nodes - with network switch for storage	Supported	Supported
Three nodes - with no switch for storage	Not supported	Test only No update or repair support
Three nodes - with network switch for storage	Supported	Supported
Four to 16 nodes - with no network switch for storage	Not supported	Not supported
Four to 16 nodes - with network switch for storage	Supported	Supported

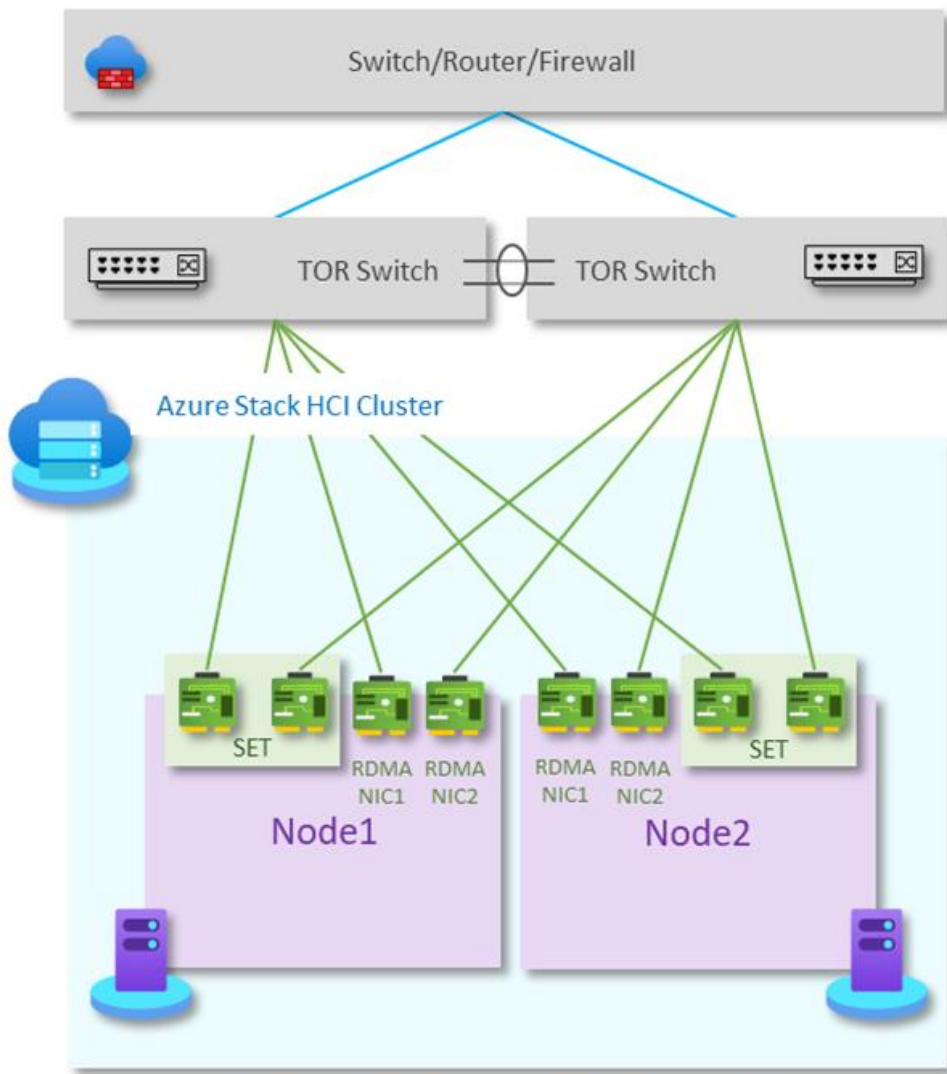




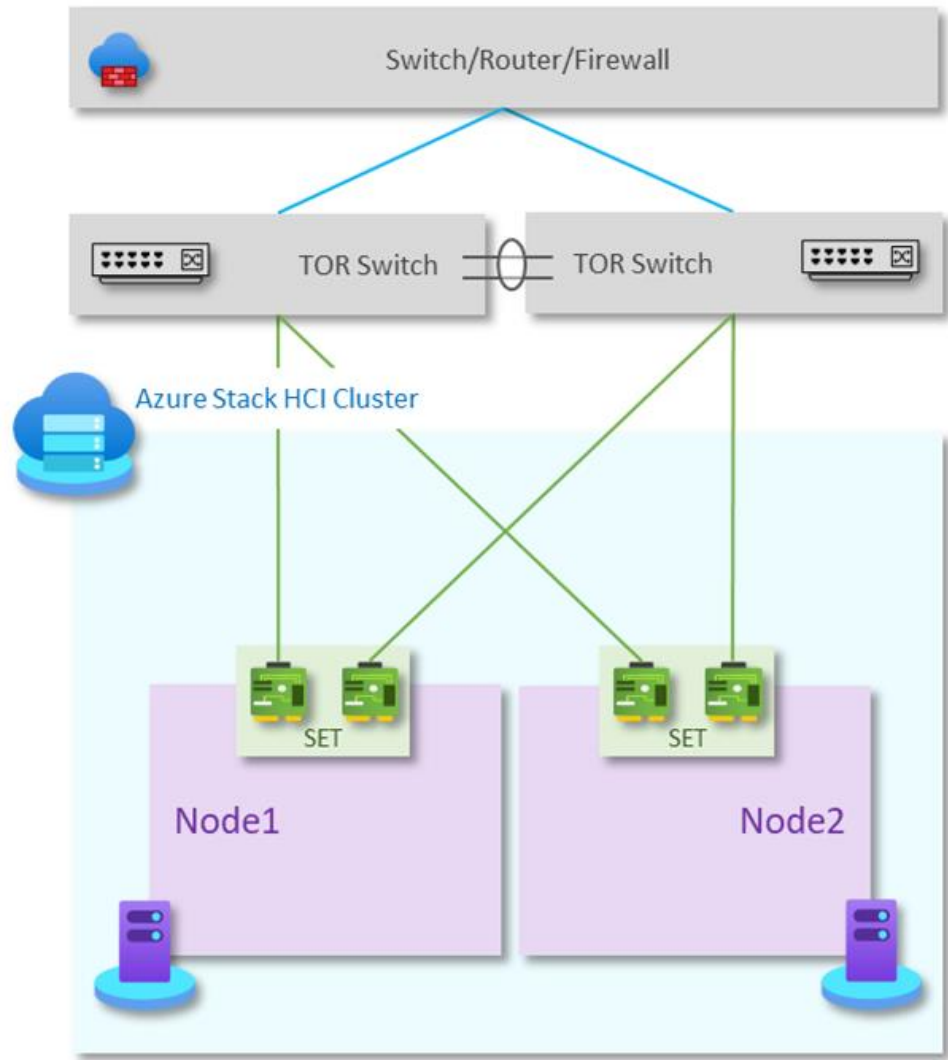
2 Nodes switchless physical connectivity



2 Nodes switchless physical connectivity



2 Nodes switched storage physical connectivity



2 Nodes switchless physical connectivity





# Deploy Azure Stack HCI

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## Specify a custom location name

This helps users identify this system when creating resources (such as VMs) on it.

Custom location name

## Specify cluster witness settings

The cluster witness is a small file (less than a kilobyte) that helps determine which server is most up to date if there's contention.

Witness type

Azure storage account name \*  [Create new](#)

## Specify Active Directory details

Let us know how your Active Directory Services domain was prepared for deployment.

Domain \*

Computer name prefix \*

OU \*

## Deployment account

Username \*

Password \*

Confirm password \*

## Local administrator

Username \*

Password \*

[Review + create](#)

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[Next: Security](#)

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## Specify a custom location name

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Custom location name

## Specify cluster witness settings

The cluster witness is a small file (less than a kilobyte) that helps determine which server is most up to date if there's contention.

Witness type

Azure storage account name \*   
[Create new](#)

## Specify Active Directory details

Let us know how your Active Directory Services domain was prepared for deployment.

Domain \*

Computer name prefix \*

OU \*

## Deployment account

Username \*

Password \*

Confirm password \*

## Local administrator

Username \*

Password \*

[Review + create](#)

[< Previous](#)

[Next: Security](#)

## Create a storage account

Azure Stack HCI deployment (preview)

Storage account name \*

Region \*

Performance \*  
**Standard:** Recommended for most scenarios (general-purpose v2 account)

Redundancy \*

[Create](#)

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# Deploy Azure Stack HCI

Preview

- Basics
- Configuration
- Networking
- Management**
- Security
- Advanced
- Tags
- Validation
- Review + create

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[Review + create](#)

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# Deploy Azure Stack HCI

Preview



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Password \*   
Confirm password \*

# Deploy Azure Stack HCI

Preview

- Basics
- Configuration
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- Review + create

## Set the security level of your system's infrastructure

Stick with the recommended security settings for the highest security, or customize the settings. You can also change this later, including uninstalling azure services.

- Security level \* ⓘ
- Recommended security settings
  - Customized security settings

### Security level

Excellent(7/7)

### Settings

Recommended Settings 7 of 7

Setting	Description
Maintain security defaults	Maintains the security defaults on each server, helping to protect against changes
Windows Defender Credential Guard	Uses virtualisation-based security to isolate secrets from credential-theft attacks
Windows Defender Application Control	Controls which drivers and apps are allowed to run directly on each server
BitLocker for the OS volume	Encrypts the OS volume on each server
BitLocker for data volumes	Encrypts cluster shared volumes (CSVs) created on this system during deployment
Signing for external SMB traffic	Signs SMB traffic between this system and others to help prevent relay attacks
SMB encryption for in-cluster traffic	Encrypts traffic between servers in the cluster (on your storage network)

Review + create

< Previous

Next: Advanced

# Deploy Azure Stack HCI

Preview

- Basics
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- Validation
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## Create workload and infrastructure volumes

Choose whether to create volumes for workloads in addition to the required infrastructure volumes used by Azure stack HCI. You can also create more volumes later.

Volumes \* ⓘ

- Create workload volumes and required infrastructure volumes (Recommended)
- Create required infrastructure volumes only
- Use existing data drives

Review + create

< Previous

Next: Tags

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# Deploy Azure Stack HCI

Preview

Basics Configuration Networking Management Security Advanced **Tags** Validation Review + create

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more about tags](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated

Name	Value	Resource
<input type="text"/>	:	Azure Stack HCI

Review + create

< Previous

Next: Validation

# Deploy Azure Stack HCI

Preview

- Basics
- Configuration
- Networking
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- Validation**
- Review + create

## Resource Creation

Following Azure Stack HCI cluster resource object and it's components are created prior validation.

Step	Type	Status
Cluster resource	Resource	Succeeded
Cluster permissions	Permission	In progress
Create service principal	Resource	Not created
Key Vault Audit Logging	Resource	Not created
Key vault permissions	Permission	Not created
Key vault secrets	Secrets	Not created
Deployment settings resource	Resource	Not created

## Validation progress

We're creating an Azure resource for this system and validating your system's readiness to deploy. This takes around 15 minutes for systems with one or two servers, longer for bigger systems.

Task	Description	Status
------	-------------	--------

"Fetching resource creation status..."

[Try Again](#)

- Assigning permissions to Arc machines over HCI cluster...
  - Assigning permissions to Arc machines over HCI cluster 'D102-ASHCICL01'...
- Creating HCI cluster object...
  - Successfully created HCI cluster object 'D102-ASHCICL01'.

[Review + create](#)

[< Previous](#)

[Next: Review + create](#)

# Deploy Azure Stack HCI

Preview

- Basics
- Configuration
- Networking
- Management
- Security
- Advanced
- Tags
- Validation**
- Review + create

## Resource Creation

Following Azure Stack HCI cluster resource object and it's components are created prior validation.

Step	Type	Status
Cluster resource	Resource	✔ Succeeded
Cluster permissions	Permission	✔ Succeeded
Create service principal	Resource	✔ Succeeded
Key Vault Audit Logging	Resource	✔ Succeeded
Key vault permissions	Permission	✔ Succeeded
Key vault secrets	Secrets	✔ Succeeded
Deployment settings resource	Resource	🔄 In progress

## Validation progress

We're creating an Azure resource for this system and validating your system's readiness to deploy. This takes around 15 minutes for systems with one or two servers, longer for bigger systems.

Task	Description	Status
"Fetching resource creation status..."		

Try Again

Review + create

< Previous

Next: Review + create

# Deploy Azure Stack HCI

Preview

- Basics
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## Resource Creation

Following Azure Stack HCI cluster resource object and its components are created prior validation.

Step	Type	Status
Cluster resource	Resource	✔ Succeeded
Cluster permissions	Permission	✔ Succeeded
Create service principal	Resource	✔ Succeeded
Key Vault Audit Logging	Resource	✔ Succeeded
Key vault permissions	Permission	✔ Succeeded
Key vault secrets	Secrets	✔ Succeeded
Deployment settings resource	Resource	✔ Succeeded

## Validation progress

We're creating an Azure resource for this system and validating your system's readiness to deploy. This takes around 15 minutes for systems with one or two servers, longer for bigger systems.

Task	Description	Status
Azure Stack HCI Connectivity	Check external connectivity requirements	✔ Success( <a href="#">View details</a> )
Azure Stack HCI External Active Directory	Check external active directory preparation	✔ Success( <a href="#">View details</a> )
Azure Stack HCI Hardware	Check hardware requirements	✔ Success( <a href="#">View details</a> )
Azure Stack HCI Network	Check network requirements	✔ Success( <a href="#">View details</a> )
Azure Stack HCI Observability	Check Log Collection and Remote Support requirements	✔ Success( <a href="#">View details</a> )

- [Review + create](#)
- [< Previous](#)
- [Next: Review + create](#)



## Deploy Azure Stack HCI

Preview

Cluster resource	Resource	✔ Succeeded
Cluster permissions	Permission	✔ Succeeded
Create service principal	Resource	✔ Succeeded
Key Vault Audit Logging	Resource	✔ Succeeded
Key vault permissions	Permission	✔ Succeeded
Key vault secrets	Secrets	✔ Succeeded
Deployment settings resource	Resource	✔ Succeeded

### Validation progress

We're creating an Azure resource for this system and validating your system's readiness to deploy. This takes around 15 minutes for systems with one or two servers, longer for bigger systems.

Task	Description	Status
Azure Stack HCI Connectivity	Check external connectivity requirements	✔ Success( <a href="#">View details</a> )
Azure Stack HCI External Active Directory	Check external active directory preparation	✔ Success( <a href="#">View details</a> )
Azure Stack HCI Hardware	Check hardware requirements	✔ Success( <a href="#">View details</a> )
Azure Stack HCI Network	Check network requirements	✔ Success( <a href="#">View details</a> )
Azure Stack HCI Observability	Check Log Collection and Remote Support requirements	✔ Success( <a href="#">View details</a> )
Azure Stack HCI Software	Check Operating System requirements	✔ Success( <a href="#">View details</a> )
Azure Stack HCI MOC Stack	Check Moc Stack requirements	✔ Success( <a href="#">View details</a> )
Azure Stack HCI Arc Integration	Check ARC Integration requirements	✔ Success( <a href="#">View details</a> )

Try Again

Review + create

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Next: Review + create

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# Deploy Azure Stack HCI

Preview

- Basics
- Configuration
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- Review + create**

## Basics

Subscription	Microsoft Azure Sponsorship
Resource group	RGD102ASHCICL01
Region	West Europe
Key vault name	D102-ASHCICL01-hcikv
Cluster name	D102-ASHCICL01
Servers selected	D102-ASHCI01

## Configuration

Source	New configuration
--------	-------------------

## Networking

Storage connectivity	singleServerDeployment
Networking pattern	hyperConverged
Starting IP	192.168.100.1
Ending IP	192.168.100.7
Subnet mask	255.255.255.0
Default gateway	192.168.100.254
DNS server	192.168.100.201

## Management

Custom location name	D102-ASHCICL01CustomLocation
Azure storage account name	d102ashcicl01hcisa
Domain	mhdemolab.de
Computer name prefix	D102CL01
OU	OU=ASHCICL01OU,DC=mhdemolab,DC=de

## Security

[Review + create](#)

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[Next >](#)

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# Deploy Azure Stack HCI

Preview  
Source New configuration

## Networking

Storage connectivity	singleServerDeployment
Networking pattern	hyperConverged
Starting IP	192.168.100.1
Ending IP	192.168.100.7
Subnet mask	255.255.255.0
Default gateway	192.168.100.254
DNS server	192.168.100.201

## Management

Custom location name	D102-ASHCICL01CustomLocation
Azure storage account name	d102ashcicl01hcisa
Domain	mhdemolab.de
Computer name prefix	D102CL01
OU	OU=ASHCICL01OU,DC=mhdemolab,DC=de

## Security

Security level	Recommended security settings
Settings	Maintain security defaults, Windows Defender Credential Guard, Windows Defender Application Control, BitLocker for the OS volume, Bitlocker for data volumes, Signing for external SMB traffic, SMB encryption for in-cluster traffic

## Advanced

Volumes	Express
---------	---------

Review + create

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Next

D102-ASHCICL01 | Deployments (preview) ☆ ...

Search

Refresh

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

Settings

- Configuration
- Deployments (preview)

Locks

Resources (preview)

- Virtual machines
- Logical networks
- Disks
- VM images
- Storage paths

Operations

Updates (Preview)

Monitoring

Alerts

Automation

CLI / PS

Tasks (preview)

Help

Support + Troubleshooting

To save the template of this deployment, [click here](#).

No deployment steps to display

# D102-ASHCICL01 | Deployments (preview)

Azure Stack HCI

Search

Refresh

To save the template of this deployment, [click here](#).

No deployment steps to display

- Overview
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- Diagnose and solve problems

### Settings

- Configuration
- Deployments (preview)
- Locks

### Resources (preview)

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- VM images
- Storage paths

### Operations

- Updates (Preview)

### Monitoring

- Alerts

### Automation

- CLI / PS
- Tasks (preview)

### Help

- Support + Troubleshooting

## Notifications

More events in the activity log →

Dismiss all

- Successfully triggered deployment.**  
Your deployment has been triggered. For further details on the deployment progress, please track it under the Deployments blade present in your cluster 'D102-ASHCICL01'.  
5 minutes ago
- Triggering deployment settings validation call...**  
Successfully completed the operation.  
8 minutes ago
- Creating Key Vault Secrets..**  
Successfully created a secret in key Vault 'D102-ASHCICL01-hcikv'.  
12 minutes ago
- Assigning permissions to Arc machines over key vault...**  
Successfully assigned permissions to Arc machines over key vault 'D102-ASHCICL01-hcikv'.  
12 minutes ago
- Enabling audit logging on key vault 'D102-ASHCICL01-hcikv'**  
Enabled audit logging on key vault 'D102-ASHCICL01-hcikv' successfully.  
12 minutes ago
- Create storage account for audit logging on key vault 'D102-ASHCICL01-hcikv'**  
Created storage account successfully.  
12 minutes ago
- Create service principal**  
Successfully created service principal for HCI cluster 'D102-ASHCICL01'.  
13 minutes ago
- Assigning permissions to Arc machines over HCI cluster...**  
Successfully assigned permissions to Arc machines over HCI cluster 'D102-ASHCICL01'.  
13 minutes ago

## Resource groups

Manfred Helber IT Consulting (manfredhelber.de)

+ Create Manage view

rgd

Name ↑↓

RGD102ASHCICL01

## RGD102ASHCICL01 | Deployments

Resource group

Search

Refresh Cancel Redeploy Delete View template

Overview

Activity log

Access control (IAM)

Tags

Resource visualizer

Events

### Settings

Deployments

Security

Deployment stacks

Policies

Properties

Locks

### Monitoring

Insights (preview)

Alerts

Metrics

Diagnostic settings

Logs

Advisor recommendations

Workbooks

### Automation

Export template

### Help

Support + Troubleshooting

Filter by deployment name or resources in the deployment...

<input type="checkbox"/>	Deployment name	Status	Last modified	Duration	Related events
<input type="checkbox"/>	D102-ASHCICL01	Deploying	11/19/2023, 11:42:55 AM	8 minutes, 45 seconds, 7 millisec...	<a href="#">Related events</a>



## D102-ASHCICL01 | Deployments (preview) ☆ ...

Azure Stack HCI

Search

Refresh

To save the template of this deployment, [click here](#).

Name	Description	Status	Start Time
Deploy Azure Stack HCI	Deploy the Azure Stack HCI syste...	In Progress	11/19/2023, 11:34 AM
Check requirements	Check and resolve deployment r...	Success	11/19/2023, 11:34 AM
Validate network setting:	Validate network settings for serv...	Success	11/19/2023, 11:59 AM
Configure settings on se	Configure settings on servers.	Success	11/19/2023, 11:59 AM
Adjust the number of inf	Scale the number of infrastrucur...	Success	11/19/2023, 11:59 AM
Prepare servers for secur	Prepare servers to apply WDAC s...	Success	11/19/2023, 11:59 AM
Apply security settings o	Apply security settings on servers.	Success	11/19/2023, 11:59 AM
Join servers to a domain	Join servers to an Active Director...	Success	11/19/2023, 12:00 PM
Deploy JEA endpoints	Deploy Just Enough Administrati...	Success	11/19/2023, 12:02 PM
Create the cluster	Create the failover cluster from t...	Success	11/19/2023, 12:03 PM
Configure networking	Configure the host networking s...	Success	11/19/2023, 12:18 PM
Configure Cloud Managi	Configure the cloud managemen...	Success	11/19/2023, 12:21 PM
Register with Azure	Connect to Azure and turn on Ar...	Success	11/19/2023, 12:22 PM
Set diagnostic level	Setting the diagnostic level.	Success	11/19/2023, 12:26 PM
Unlock virtual disks	If needed, unlock encrypted virtu...	Success	11/19/2023, 12:27 PM
Config storage	Set up storage pools, file shares, ...	Success	11/19/2023, 12:27 PM
Repair key protectors	If needed, repair cluster shared v...	Success	11/19/2023, 12:30 PM
Encrypt CSVs	Encrypt cluster shared volumes (...)	Success	11/19/2023, 12:30 PM
Encrypt the OS volume	Encrypt the operating system vol...	Success	11/19/2023, 12:30 PM
Configure clustering pen	Configure Active Directory permi...	Success	11/19/2023, 12:30 PM
Copy and prepare files	Extract, copy, and prepare depla...	Success	11/19/2023, 12:32 PM
Refresh Active Directory	Refresh Active Directory permissi...	Success	11/19/2023, 12:32 PM

## Notifications

More events in the activity log →

Dismiss all ↓

- Deployment in progress...** Running ×

Deployment to resource group 'RGD102ASHCICL01' is in progress.

43 minutes ago
- Successfully triggered deployment.** ×

Your deployment has been triggered. For further details on the deployment progress, please track it under the Deployments blade present in your cluster 'D102-ASHCICL01'.

an hour ago
- Successfully triggered deployment.** ×

Your deployment has been triggered. For further details on the deployment progress, please track it under the Deployments blade present in your cluster 'D102-ASHCICL01'.

2 hours ago
- Triggering deployment settings validation call...** ×

Successfully completed the operation.

2 hours ago
- Creating Key Vault Secrets..** ×

Successfully created a secret in key Vault 'D102-ASHCICL01-hcikv'.

2 hours ago
- Assigning permissions to Arc machines over key vault...** ×

Successfully assigned permissions to Arc machines over key vault 'D102-ASHCICL01-hcikv'.

2 hours ago
- Enabling audit logging on key vault 'D102-ASHCICL01-hcikv'** ×

Enabled audit logging on key vault 'D102-ASHCICL01-hcikv' successfully

2 hours ago
- Create storage account for audit logging on key vault 'D102-ASHCICL01-hcikv'** ×

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Settings
  - Configuration
  - Deployments (preview)
  - Locks
- Resources (preview)
  - Virtual machines
  - Logical networks
  - Disks
  - VM images
  - Storage paths
- Operations
  - Updates (Preview)
- Monitoring
  - Alerts
- Automation
  - CLI / PS
  - Tasks (preview)
- Help
  - Support + Troubleshooting

# 1. Neues Deployment verstehen

Create Cluster Wizard

### Select Servers

Add the names of all the servers that you want to have in the cluster. You must add at least one server.

Enter server name:  Browse...

Selected servers:

**X**

Before You Begin

Select Servers

Validation Warning

Access Point for Administering the Cluster

Confirmation

Creating New Cluster

Summary

## Windows Admin Center | Cluster Creation

### 1. Choose the cluster type

Windows Server  
Deploy a failover cluster to run VMs or clustered roles and apps on Windows Server.

Azure Stack HCI  
Deploy a highly available cluster to run VMs on Azure Stack HCI.

**X**

[How do I choose between Windows Server and Azure Stack HCI?](#)

### 2. Select server locations

Search resources, services, and docs (G+)

Home > Azure Arc | Get started >

### Deploy Azure Stack HCI

Preview

Basics Configuration Networking Management Security Advanced Tags Validation Review + create

Before you start, make sure to prepare your Active Directory domain and connect all servers in this system to Azure Arc. [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: Microsoft Azure Sponsorship (9e235927-9415-4f11-8381-d00b20fbc87)

Resource group: RG102ASHCICL01

**Instance details**

You'll use the cluster name later to manage this Azure Stack HCI system as a whole instead of managing the underlying server or servers. Create an empty key vault to securely store secrets for this system, such as cryptographic keys, local admin credentials and BitLocker recovery keys. [Learn more](#)

Cluster name: D102-ASHCICL01

Region: (Europe) West Europe

Key vault name: D102-ASHCICL01-holv  
[Create a new key vault](#)

**Select the servers to use and validate**

Selecting more than one server creates a multi-node cluster. [How do I add a server?](#)

Name	Status	Operating system	Model
<input checked="" type="checkbox"/> D102-ASHCICL01	Ready	Azure Stack HCI	Virtual Machine

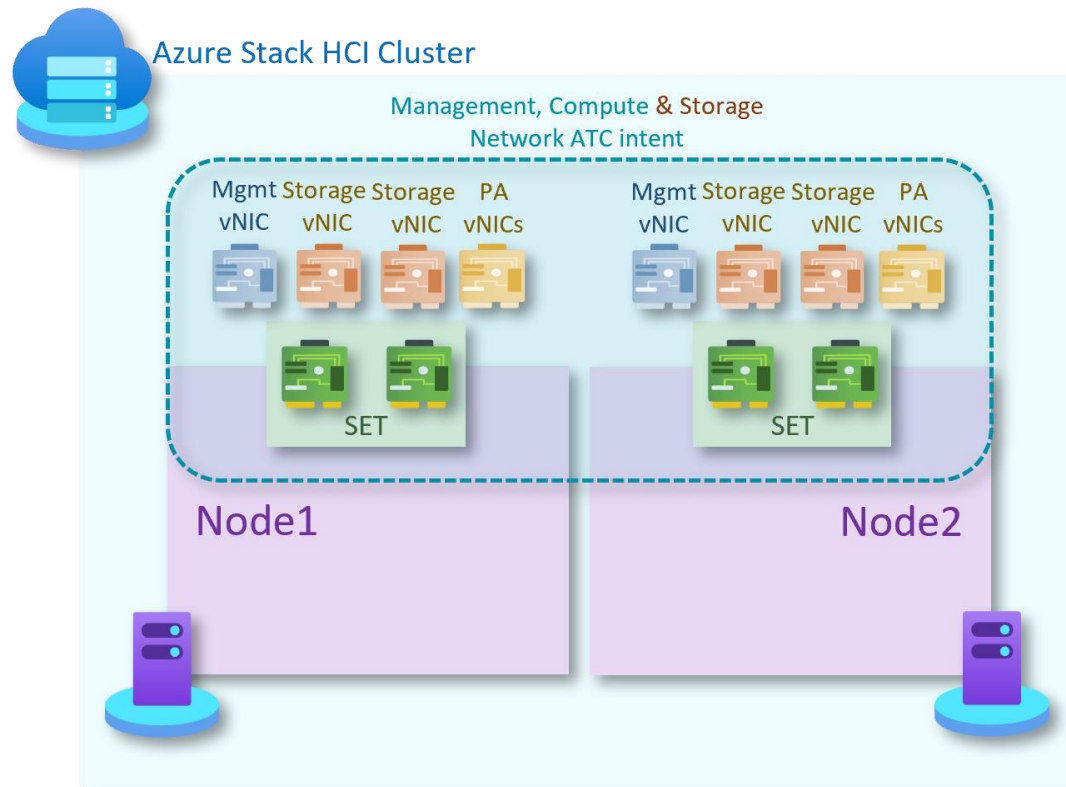
Validate selected servers

Review + create < Previous Next: Configuration

**✓**



# 2. Mit Network ATC vertraut machen

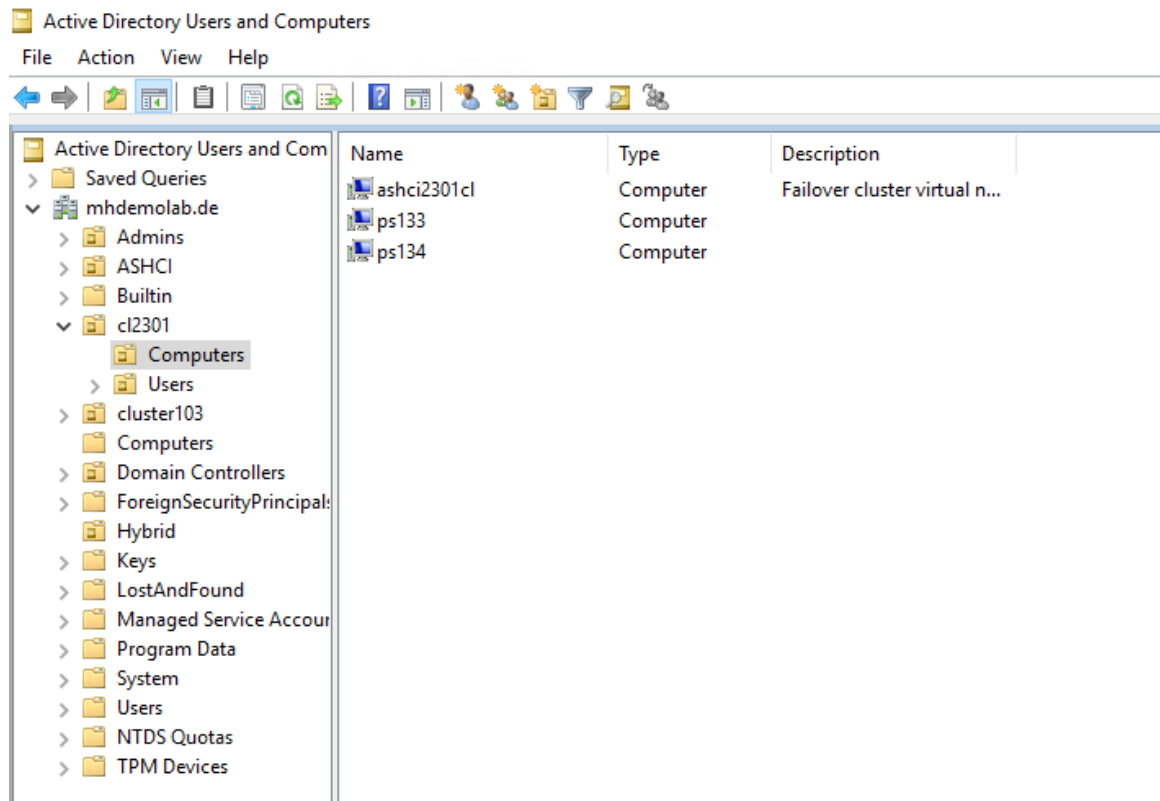


## Network traffic types

Azure Stack HCI network traffic can be classified by its intended purpose:

- **Management traffic:** Traffic to or from outside the local cluster. For example, storage replica traffic or traffic used by the administrator for management of the cluster like Remote Desktop, Windows Admin Center, Active Directory, etc.
- **Compute traffic:** Traffic originating from or destined to a virtual machine (VM).
- **Storage traffic:** Traffic using Server Message Block (SMB), for example Storage Spaces Direct or SMB-based live migration. This traffic is layer-2 traffic and is not routable.

# 3. AD Vorbereitung



# 4. TPM 2.0



```
PS C:\Users\Administrator.MHDEMOLAB> get-tpm
```

```
TpmPresent           : False
TpmReady             : False
TpmEnabled           : False
TpmActivated         : False
TpmOwned             : False
RestartPending       : False
ManufacturerId       : 0
ManufacturerIdTxt    :
ManufacturerVersion  :
ManufacturerVersionFull20 :
ManagedAuthLevel   : Full
OwnerAuth            :
OwnerClearDisabled   : True
AutoProvisioning     : NotDefined
LockedOut            : False
LockoutHealTime      :
LockoutCount         :
LockoutMax           :
SelfTest             :
```



```
PS C:\Users\Administrator.MHDEMOLAB> Get-Tpm
```

```
TpmPresent           : True
TpmReady             : True
TpmEnabled           : True
TpmActivated         : True
TpmOwned             : True
RestartPending       : True
ManufacturerId       : 1314145024
ManufacturerIdTxt    : NTC
ManufacturerVersion  : 7.2.2.0
ManufacturerVersionFull20 : 7.2.2.0
ManagedAuthLevel   : Full
OwnerAuth            :
OwnerClearDisabled   : False
AutoProvisioning     : Enabled
LockedOut            : False
LockoutHealTime      : 10 minutes
LockoutCount         : 0
LockoutMax           : 31
SelfTest             : {}
```

# Fragerunde

# Die nächsten Termine

# Die nächsten Termine

## 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

# 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

# Vielen Dank!



Manfred Helber



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Manfred Helber

