

Die Azure Arc Show



Alexander Ortha

22. November 2022 # 13 Uhr
Azure Arc Resource Bridge



Manfred Helber





Willkommen



News Ecke

Azure security baseline for Azure Arc-enabled servers

Article • 10/12/2022 • 8 minutes to read • 1 contributor

👍 Feedback

This security baseline applies guidance from the [Microsoft cloud security benchmark version 1.0](#) to Azure Arc-enabled servers. The Microsoft cloud security benchmark provides recommendations on how you can secure your cloud solutions on Azure. The content is grouped by the security controls defined by the Microsoft cloud security benchmark and the related guidance applicable to Azure Arc-enabled servers.

You can monitor this security baseline and its recommendations using Microsoft Defender for Cloud. Azure Policy definitions will be listed in the Regulatory Compliance section of the Microsoft Defender for Cloud dashboard.

When a feature has relevant Azure Policy Definitions, they are listed in this baseline to help you measure compliance to the Microsoft cloud security benchmark controls and recommendations. Some recommendations may require a paid Microsoft Defender plan to enable certain security scenarios.

ⓘ Note

Features not applicable to Azure Arc-enabled servers have been excluded. To see how Azure Arc-enabled servers completely maps to the Microsoft cloud security benchmark, see the [full Azure Arc-enabled servers security baseline mapping file](#).

SQL Server 2022 is now generally available

November 16, 2022 • 7 min read



[Rohan Kumar](#)

Corporate Vice President, Azure Data

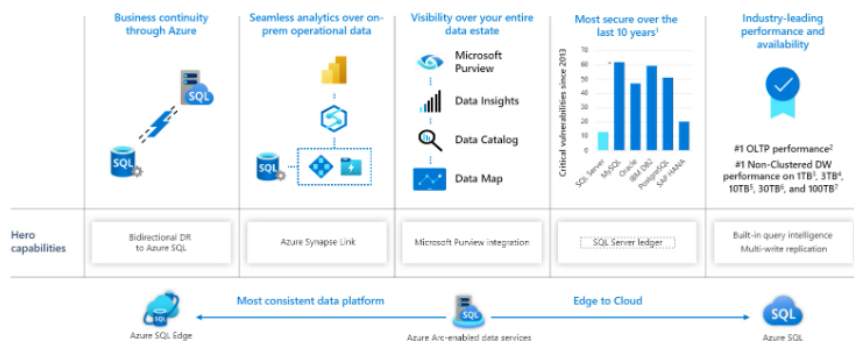
Part of the [SQL Server 2022 blog series](#).

Today, we announced the general availability of [SQL Server 2022](#), the most Azure-enabled release of SQL Server yet, with continued innovation across performance, security, and availability¹. This marks the latest milestone in the more than 30-year history of SQL Server.

SQL Server 2022 is a core element of the [Microsoft Intelligent Data Platform](#). The platform seamlessly integrates operational databases, analytics, and data governance. This enables customers to adapt in real-time, add layers of intelligence to their applications, unlock fast and predictive insights, and govern their data—wherever it resides.

SQL Server 2022

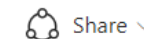
Azure-enabled with continued performance and security innovation



Bidirectional disaster recovery is available in limited public preview. General availability will occur at a future date.
TPC Claims as of 11/03/22
¹National Institute of Standards and Technology Comprehensive Vulnerability Database ²<https://www.tpc.org/4002> ³<https://www.tpc.org/3336> ⁴<https://www.tpc.org/3336> ⁵<https://www.tpc.org/3336> ⁶<https://www.tpc.org/3336> ⁷<https://www.tpc.org/3336>

Manage, govern, and secure all your SQL Servers with new hybrid capabilities enabled by Azure Arc

November 17, 2022 • 3 min read



[Peter Carlin](#)

CVP, Azure Database Services

[Hybrid data solutions](#)

Part of the [SQL Server 2022 blog series](#).

In the face of changing market conditions and pressure to accelerate growth, the ability for customers to do more with less is critical. And while the cloud has long been the north star for realizing efficiencies and accelerating innovation, at Microsoft, we understand that these benefits also need to happen **outside** of the cloud. In 2021 we announced the general availability of [Azure Arc-enabled SQL Managed Instance](#). Previously only available in Azure, Azure Arc-enabled SQL Managed Instance allows customers to build new cloud native applications on any infrastructure, in their on-premises environments and across other public clouds. Now, we are offering a way for customers to make the most of their legacy applications, with Azure Arc-enabled SQL Server.

Yesterday, we announced the general availability of [SQL Server 2022](#), the latest milestone in the 30 year history of SQL Server. This newest edition of SQL Server delivers continued innovation with new hybrid and multicloud capabilities that allow customers to manage and protect their SQL environments in more ways than ever before, no migration required. Together with these innovations, we are also introducing a consumption-based cloud billing model to [purchase SQL Server](#) enabled by [Azure Arc](#).

SQL 2012 to 2022

[SQL Server 2022 is now generally available](#)
- [Microsoft SQL Server Blog](#)

[Manage, govern, and secure all your SQL Servers with new hybrid capabilities enabled by Azure Arc](#) - [Microsoft SQL Server Blog](#)

AKS on Azure Stack HCI and Windows Server - November 2022 update

By  Sarah Cooley

Published Nov 17 2022 07:17 PM

👁 1,507 Views

Hello everyone,

The last release for 2022 is now available! This is a combination October/November release with a pile of new previews and tools to try out over the winter holiday season. This is a great release for us as it allows you to enable the Azure Hybrid Benefits announced at ignite!

Go try out Azure AD role-based access controls (RBAC) preview and apply Azure Hybrid Benefits if you (or your company) have Software Assurance.

Before getting into the update details, we have a few Announcements:

- We will retire AKS-HCI versions, starting with February 2022, March 2022 and May 2022 updates in January 2023. This release also marks the end-of-support for the August 2022 update (AKS-HCI versions 1.0.13.10907). Please [update](#) your clusters to remain in support.
- SDN + AKS HCI update Known Issue - there is a bug in the SDN cluster upgrade logic that impacts cluster update. This bug will be resolved by next AKS update (January) and does not impact new SDN + AKS-HCI cluster is being built, these deployments are not impacted.
- If you plan on shutting down your AKS clusters or skip updating during the holiday season, you will likely have internal certificates or tokens expiring when you restart your environment. You can [follow these steps](#) to recover your AKS cluster from expired certs.

Ok! On to new features and things to check out.

As always, you can try AKS on Azure Stack HCI or Windows Server any time using our [get-started guide](#). If you do not have the hardware handy to evaluate AKS on physical hardware you can use our [eval guide](#) to set up AKS on a Windows Server Azure VM.

- Azure Hybrid Benefit for AKS
- Azure RBAC support in AKS hybrid clusters (preview)
- You can now update internal certificate authorities (preview)
- Kubernetes 1.24 support + breaking change to node pool taint labels
- Azure Stack HCI 22H2

[AKS hybrid November update \(microsoft.com\)](#)

Use proxy server settings in AKS hybrid

Article • 11/15/2022 • 5 minutes to read • [3 contributors](#)

 [Feedback](#)

Applies to: AKS on Azure Stack HCI, AKS on Windows Server

This article describes how to configure proxy settings for Azure Kubernetes Service (AKS) in AKS hybrid. If your network requires the use of a proxy server to connect to the internet, this article walks you through the steps to set up proxy support in AKS using the **AksHci** PowerShell module. The steps are different depending on whether the proxy server requires authentication.

Note

If you want to use Kubernetes and Azure Services via Azure Arc, make sure you also allow the URLs shown in [Connect an existing Kubernetes cluster to Azure Arc](#).

Once you've configured your deployment using the options listed below, you can [install an AKS host on Azure Stack HCI](#) and [create AKS clusters using PowerShell](#).

[Proxy server settings in AKS hybrid - AKS hybrid | Microsoft Learn](#)

Präsenzveranstaltung

Azure Hybrid Cloud Insight Series - Christmas Special

Wann: Dienstag, Dezember 6, 2022 | 9:00 AM (GMT+01:00)

Wo: 60308 Frankfurt

Jetzt anmelden

Nehmen Sie teil an unserem Azure Hybrid Cloud Insight Serie - Christmas Special am 6. Dezember!

Ermöglichen Sie Remote-Arbeit, nutzen Sie Cloud-Innovationen und maximieren Sie Ihre vorhandenen lokalen Investitionen, indem Sie sich auf einen effektiven Hybrid- und Multi-Cloud-Ansatz verlassen. Azure bietet einen ganzheitlichen, nahtlosen und sicheren Ansatz für Innovationen in Ihren lokalen, Multicloud- und Edge-Umgebungen. Sie erhalten die Konsistenz und Flexibilität, um eine zentralisierte Governance überall durchzuführen. Nicht nur für Ihre Infrastruktur und Sicherheit, sondern auch für Ihre Cloud-nativen Apps, Ihre Datenbanken und Ihre Anwendungen – alles in On-Premise-, Multi-Cloud- und Edge-Umgebungen. Unsere Veranstaltung gibt Ihnen einen Überblick über folgende Themen:

- Übersicht über die Azure-Hybridstrategie
- Azure Arc & Defender – On-Prem & Multicloud
- Bewährte Methoden für die Architektur
- Demo zu Azure Arc & Defender Live in Action
- Mittagspause
- Microhack

Wir würden uns freuen, Sie zu dieser persönlichen Veranstaltung begrüßen zu dürfen.

Agenda für den Tag:

09:00 – 09:30 Ankunft & Einchecken.

09:30 – 09:45 Begrüßung

09:45 – 10:15 Azure Hybrid Strategie - Überblick.

10:15 – 11:00 Azure Arc & Defender - On-Prem & Multicloud.

11:00 – 11:15 Pause

11:15 – 12:15 Architektur / Best Practices / Whiteboard / Live Demo.

12:15 – 13:15 Uhr Mittagspause

13:15 – 16:30 Azure Arc MicroHack & praktisches Training / Networking.

16:30 – 17:00 Diskussion, Get Together & Ausblenden.

Wo: Microsoft Niederlassung in Frankfurt, 14. Stock

Wann: 06.12.2022

Die Anmeldung ist ab sofort möglich, nicht warten, sondern direkt kostenlos anmelden. Wir freuen uns auf sie.

<https://lnkd.in/ebuKBiED>

[LinkedIn Post: Azure Hybrid Cloud Insight Series - Christmas Special](#)
[Microsoft Events](#)



Lernkurve rund um Azure Arc

Thema:

Azure Arc Resource Bridge

[Set up Azure Arc VM management using command line - Azure Stack HCI | Microsoft Learn](#)

Azure Arc-enabled infrastructure

Manage private infrastructure from Azure



Azure Arc-enabled Azure Stack HCI

Full VM lifecycle management on Azure Stack
HCI
Use Azure RBAC for self-service
Inventory, organize, and tag consistently
Use Azure management services for consistent
governance

PREVIEW



Azure Arc-enabled VMware vSphere

Full VM lifecycle management on VMWare
Use Azure RBAC for self-service
Inventory, organize, and tag consistently
Use Azure management services for consistent
governance

PREVIEW



Azure Arc-enabled System Center VMM

Full VM lifecycle management on SCVMM
Use Azure RBAC for self-service
Inventory, organize, and tag consistently
Use Azure management services for consistent
governance

PREVIEW

Microsoft Azure

Home >

Virtual machines

AzureStackHCI Test

+ Create

Azure virtual machine

Create a virtual machine hosted by Azure

Azure virtual machine with preset configuration

Create a virtual machine with presets based on your workloads

Azure Arc virtual machine

Create a new Azure Arc virtual machine in one of your non-Azure environments

Azure VMware Solution virtual machine

Create a VMware virtual machine hosted by Azure

New

Home > Virtual machines >

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.

Project details

Select the subscription to deploy your virtual machine. Use resource groups like folders to organize and manage all your resources.

Subscription *

BASE-AzureStack-HCI-And-ECP-Test

Resource group *

assetlab-rg

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 *

arc-vm-hci

Custom location *

assetlab-feb-cl (East US)

Virtual machine kind *

Azure Stack HCI

Image *

linux-image

Virtual processor count *

6

Memory *

8

Memory type *

Static

Dynamic

Root user

Set the local VM administrator account credentials. The VM will be created using these credentials. This can come in handy when using RDP and connecting to your VM.

Azure Arc automatically generates an SSH key pair for you and allows you to store it for future use. It is fast, simple, and secure way to connect to your virtual machine.

Username *

azureuser

SSH public key source *

Generate new key pair

Key pair name *

arc-vm-hci_key

Review + create

Next : Disks >

Azure Arc-enabled VMware vSphere

Provision and Manage VMware VMs from Azure using Azure Arc

PUBLIC
PREVIEW



Virtual Machine Lifecycle

Perform full lifecycle management such as create, resize, and delete on VMware VMs from Azure



Self-Serve Operations

Use Azure RBAC to enable teams and workload owners to provision and manage VMs on demand



Single Pane View

- Browse your VMware VMs from your data centers and AVS along with your Azure VMs
- Discover and onboard existing VMware VMs to Azure



Azure Management services

Perform governance, monitoring, update management, security at scale using rich Azure management services like Azure Monitor, Security Center and others



VMware vSphere environments hosted in your datacenter or on Azure VMware Solutions



Azure Arc enabled Azure Stack HCI

Provision and Manage on-premises VMs from Azure



Virtual Machine Lifecycle

Lifecycle(CRUD) & power management for Azure Stack HCI VMs from Azure control plane



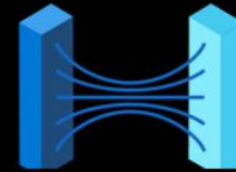
Self-Serve Operations

Using Azure RBAC, Application owners get IaaS capabilities for on-prem infrastructure



Single Pane View

Manage Azure Stack HCI VMs & Azure VMs



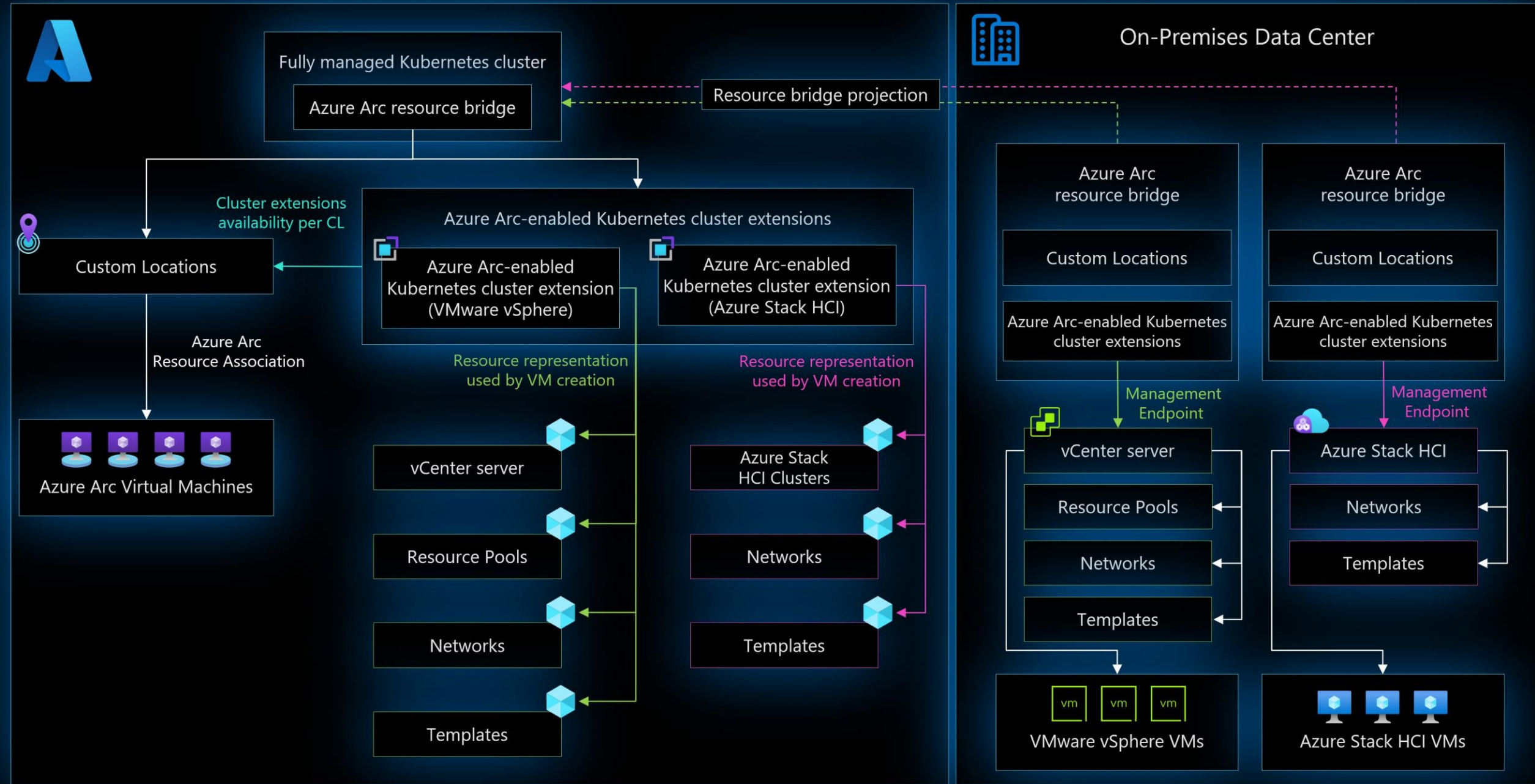
Azure Arc services

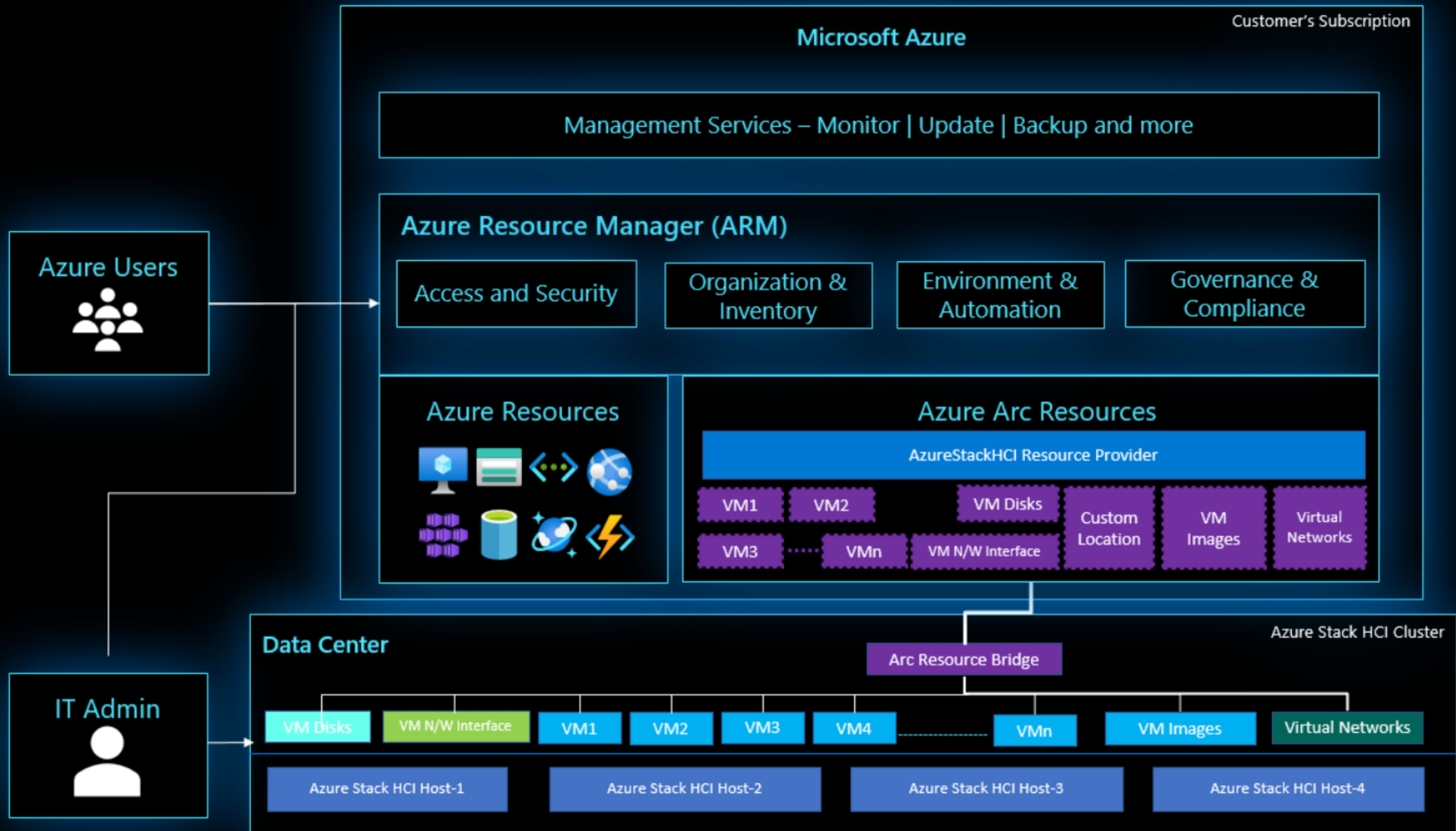
Get Azure services and management extensions

Coming Soon

Azure Stack HCI environments hosted in your datacenter

Azure Arc Resource Bridge Architecture





Arc enabled SCVMM - Architecture

Azure Customer



Microsoft Azure

Azure Resource Manager (ARM)

Azure portal

Azure CLI

Azure SDK

Azure Arc Resources

VM1

VM2

VM3

VM4

VMM management
Server

VM
Template

VM Network

VM5

VM6

VMn

Customer Data Center

Arc Resource Bridge

SCVMM Management Server

VM1

VM2

VM3

VM4

VM5

VM6

VM7

VMn

VM templates

VM Network

Hyper-V
host

Hyper- V
host

Hyper- V
host

Hyper-V
host



DEMO

Arc Resource Bridge

Portal vs. CLI/PSH





Fragen aus der Community



Ausblick & Events

Upcomming events

- [Azure Architects Connect](#) Serie „Microsoft Defender for Cloud auch in Multicloud Umgebungen“, 13.12.2022, [Microsoft Event \(mkttoevents.com\)](https://mkttoevents.com)
- Azure Hybrid Cloud Insights - Christmas Special, **Dec. 06th.**, registration [here](#)
- (Safe the date) Hybrid Event inkl. MicroHack, Jan. 31 2023 at Microsoft Office Munich.

WBSC # SKILLS

**September 2022:
Azure Arc**

 **WBSC**
Windows Business
Solutions Club



5. September 2022, 10.00 Uhr
Grundlagen zu Azure Arc

12. September 2022, 10.00 Uhr
Azure Arc im Zusammenspiel mit Windows Server

19. September 2022, 10.00 Uhr
Azure Arc und Azure Stack HCI

26. September 2022, 10.00 Uhr
Weitere Möglichkeiten mit Azure Arc

Diese Schulungs-Webcasts werden unterstützt von



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and comment**
live über [YouTube](#)



Storage Spaces Direct **hybrid**

Azure Virtual Desktop

Windows Server 2022

Azure Stack HCI

Windows Admin Center

Hyper-V



Azure Stack HCI Show



Manfred Helber

MVP Cloud and Datacenter
Trainer and Consultant
Manfred Helber GmbH

Nächster Termin: 11.11.2022
12:00 bis 13:00 Uhr

Sven Langenfeld

Azure Stack HCI
Commercial Sales Specialist
Microsoft DACH

Microsoft Ignite

October 12–14, 2022

[www/Seattle](#) 12.-14.10. + local in **Munich**, 13.-14.10.



[Your home for Microsoft Ignite](#)



Vielen Dank!

Die Azure Arc Show



Alexander Ortha



Manfred Helber

Nächster Termin:

28.11.2022 um 13:00 Uhr