

Die Azure Arc Show



Alexander Ortha



07. November 2022 # 13 Uhr

Azure Arc, Ignite & Monitoring



Manfred Helber



Willkommen



News Ecke

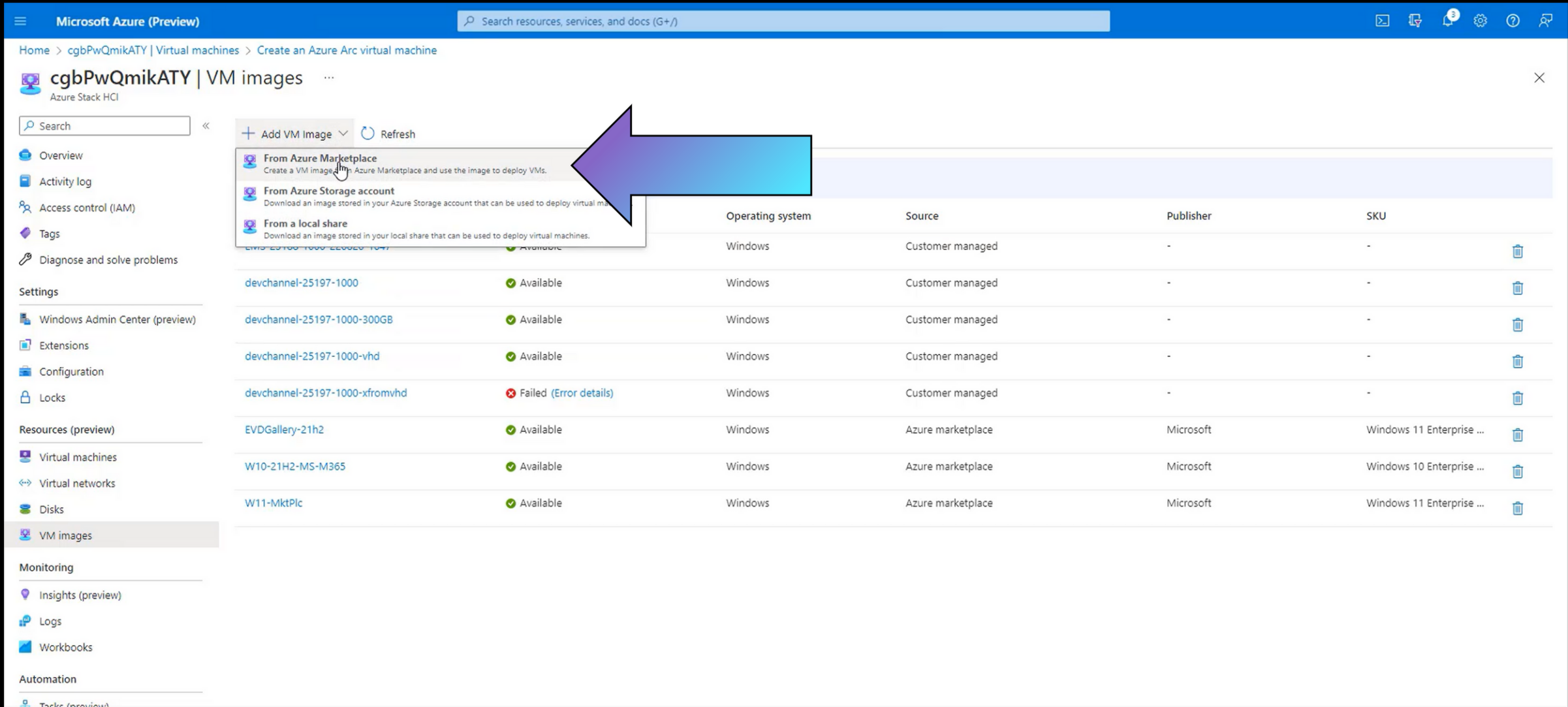
Microsoft Ignite

October 12–14, 2022



[Your home for Microsoft Ignite](#)

➤ Azure Arc-enabled VM management: Public Preview 2



Microsoft Azure (Preview)

Search resources, services, and docs (G+/I)

Home > cgbPwQmikATY | Virtual machines > Create an Azure Arc virtual machine

cgbPwQmikATY | VM images

Azure Stack HCI

Search

+ Add VM Image Refresh

- From Azure Marketplace
Create a VM image from the Azure Marketplace and use the image to deploy VMs.
- From Azure Storage account
Download an image stored in your Azure Storage account that can be used to deploy virtual machines.
- From a local share
Download an image stored in your local share that can be used to deploy virtual machines.

		Operating system	Source	Publisher	SKU
		Windows	Customer managed	-	-
		Windows	Customer managed	-	-
		Windows	Customer managed	-	-
		Windows	Customer managed	-	-
		Windows	Azure marketplace	Microsoft	Windows 11 Enterprise ...
		Windows	Azure marketplace	Microsoft	Windows 10 Enterprise ...
		Windows	Azure marketplace	Microsoft	Windows 11 Enterprise ...

Microsoft Azure

Search resources, services and docs

Connie Wilson
CONTOSO

Home >

Contoso-Arc-Server | Extensions

Server - Azure Arc

Search

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Properties

Locks

Export template

Monitoring

Alerts

Metrics

Logs

Diagnostics settings

Support + troubleshooting

Resource health

New support request

+ Add

Refresh

Upgrade

Enable automatic upgrade

Disable automatic upgrade

Uninstall

Extension upgrades are currently unavailable. Come back later for an improved experience.

Search

Add filter


Showing 5 of 5 records.

<input type="checkbox"/>	Name ↑↓	Type ↑↓	Version ↑↓	Status ↑↓	Automatic upgrade status ↑↓	
<input type="checkbox"/>	OMS AgentForLinux	OmsAgentForLinux	1.13.15	Succeeded	Enabled	...
<input checked="" type="checkbox"/>	Azure Monitor Agent	MicrosoftMonitoringAgent	1.23.45	Succeeded	Disabled	...
<input checked="" type="checkbox"/>	Powershell Shell DSC	DSC	2.13.15	Succeeded	Disabled	...
<input type="checkbox"/>	Lorem Ipsum	Lorem	1.13.15	Succeeded	Not supported	...
<input type="checkbox"/>	Custom Script Extension	CSE	1.13.15	Succeeded	Not supported	...

[Automatic extension upgrade for Azure Arc-enabled servers is now generally available \(microsoft.com\)](#)


Search

 Delete  Refresh

 Advisor (1 of 4): Log Analytics agent should be installed on Windows-based Azure Arc-enabled machines

Overview

 Activity log


 Access control (IAM)

 Tags

 Diagnose and solve problems

Settings

 Connect (preview)

 Windows Admin Center (preview)

 Security

 Extensions

 Properties

 Locks


Operations


 Policies

 Machine Configuration

 Automanage

 Updates

 Inventory

 Change tracking

Monitoring

 Insights

Essentials

Resource group ([move](#)) : [RG-ArcServers](#)

Status : Connected

Location ([move](#)) : West Europe

Subscription ([move](#)) : [Microsoft Azure Sponsorship 2](#)

Subscription ID : b3bf1377-93c2-49be-a5cc-d09f00a519a4

Agent version : 1.22.02077.495

Computer name : Arc-Demo-SRV04

FQDN : Arc-Demo-SRV04

Operating system : Windows Server 2022 Datacenter

Operating system version : 10.0.20348.1006

Cloud provider : N/A

Manufacturer : Microsoft Corporation

Model : Virtual Machine

Tags ([edit](#)) : [City : AzureStackHCI](#) [CountryOrRegion : AzureStackHCI](#) [Datacenter : AzureStackHCI](#) [Platform : AzureStackHCI](#) [StateOrDistrict : AzureStackHCI](#)

Capabilities [Tutorials](#)



Update management

Enable consistent control and compliance of your machine.



Logs

Enable additional monitoring capabilities.



Monitoring insights

Enable additional monitoring capabilities.



Policies

View compliance by assigning guest configuration policies to your machine.

● Not configured



Change tracking and inventory

Enable consistent control and compliance of this machine with Change tracking and inventory.



Security

Continuously monitor for potential security vulnerabilities and recommendations.



Windows Admin Center (preview)

Manage your operating system from anywhere — without needing a VPN or other direct connection.

● Not configured

[Generally available: Azure Automanage for Azure Virtual Machines and Arc-enabled servers | Azure updates | Microsoft Azure](#)

With this Public Preview through CLI, Portal or ARM:

- Create/list/show AKS hybrid preview clusters
- Give users access to Azure Resource Manager resources like AKS hybrid clusters, nodepools and vnet object through Azure RBAC
- Access the AKS hybrid cluster using kubectl and your Azure AD identity
- Add/list/show Linux and Windows nodepools on your AKS hybrid cluster
- Delete your AKS hybrid clusters and nodepools

Use the Azure Arc Resource Bridge

[Overview of AKS hybrid cluster provisioning from Azure \(preview\) - AKS hybrid | Microsoft Learn](#)

Overview of AKS hybrid cluster provisioning from Azure (preview)

Article • 10/25/2022 • 3 minutes to read • 2 contributors

 [Feedback](#)

Currently you can manage the lifecycle of AKS on Azure Stack HCI or AKS on Windows Server clusters through PowerShell and Windows Admin Center. AKS hybrid cluster provisioning from Azure enables you to use familiar tools like the Azure portal, Azure CLI and Azure Resource Manager templates to create and manage your AKS hybrid clusters running on Azure Stack HCI and Windows Server. Azure Arc is automatically enabled on all your AKS hybrid clusters so you can use your Azure AD identity for connecting to your clusters from anywhere. This ensures your developers and application operators can provision and configure Kubernetes clusters in accordance with company policies. We've also simplified the end-to-end security posture for your AKS hybrid clusters through Microsoft Defender for Cloud.

We continue to focus on delivering a consistent user experience for all your AKS clusters. If you have created and managed AKS using Azure, you'll feel right at home managing AKS hybrid clusters on Windows Server or Azure Stack HCI with familiar Azure portal or Azure CLI management experiences.

You'll also be able to deploy applications at scale using GitOps in both AKS and AKS hybrid clusters. GitOps applies development practices like version control, collaboration, compliance, and continuous integration/continuous deployment (CI/CD) to infrastructure automation.

At this time, you can perform the following operations through the Azure portal, Azure CLI and Resource Manager templates:

- Create/list/show AKS hybrid preview clusters
- Give users access to Azure Resource Manager resources like AKS hybrid clusters, nodepools and vnet object through Azure RBAC
- Access the AKS hybrid cluster using kubectl and your Azure AD identity
- Add/list/show Linux and Windows nodepools on your AKS hybrid cluster
- Delete your AKS hybrid clusters and nodepools

Ansible and Azure Arc-enabled servers are better together.

By  aurnovcy

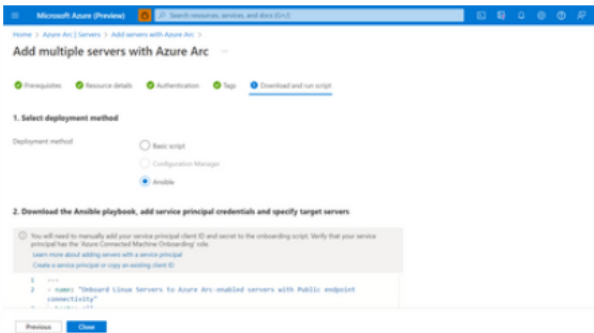
Published Oct 31 2022 10:19 AM  842 Views

It's not a question of Ansible or Azure Arc. Customers are leveraging Ansible and Azure Arc-enabled servers in tandem as they blend Ansible automation and governance with Azure security and monitoring. From onboarding to Azure Arc using Ansible playbooks to managing Arc-enabled servers using Ansible Automation platform to delivering key Arc scenarios using Ansible, Azure Arc meets Ansible users in their tool of choice. Layering Ansible with Azure Arc, IT admins can extend Azure's observability and cybersecurity capabilities from cloud to edge.

Onboard machines to Azure Arc-enabled servers at scale using Ansible Playbooks.

Using Ansible playbooks, customers have another customizable and scalable approach to onboard their non-Azure machines to Azure Arc-enabled servers. This method leverages a service principal. A service principal is a limited management identity that has only the minimum permission necessary to connect machines to Azure Arc. This reduces the need to interactively provide credentials for each machine onboarded to Azure Arc and is safer than using a more privileged account.

After supplying information about the Arc-enabled server, including its subscription, resou Windows or Linux and to the selected connectivity mode (public, proxy, and private link). S



[Home](#) > [Azure Arc | Servers](#) > [Add servers with Azure Arc](#) >

Add multiple servers with Azure Arc

 Prerequisites  Resource details  Authentication  Tags  Download and run script

1. Select deployment method

Deployment method

- ☒ Basic script
- ☐ Configuration Manager
- ☐ Ansible

[Ansible and Azure Arc-enabled servers are better together. \(microsoft.com\)](#)



Lernkurve rund um Azure Arc

Thema:

Arc enabled Servers – nach dem Onboarding
(Log Analytics & Monitoring)

Azure Arc-enabled infrastructure

Bring on-premises and multi-cloud infrastructure to Azure



Azure Arc-enabled servers



GENERALLY AVAILABLE



SQL Server on Arc-enabled servers



GENERALLY AVAILABLE



Azure Arc-enabled Kubernetes

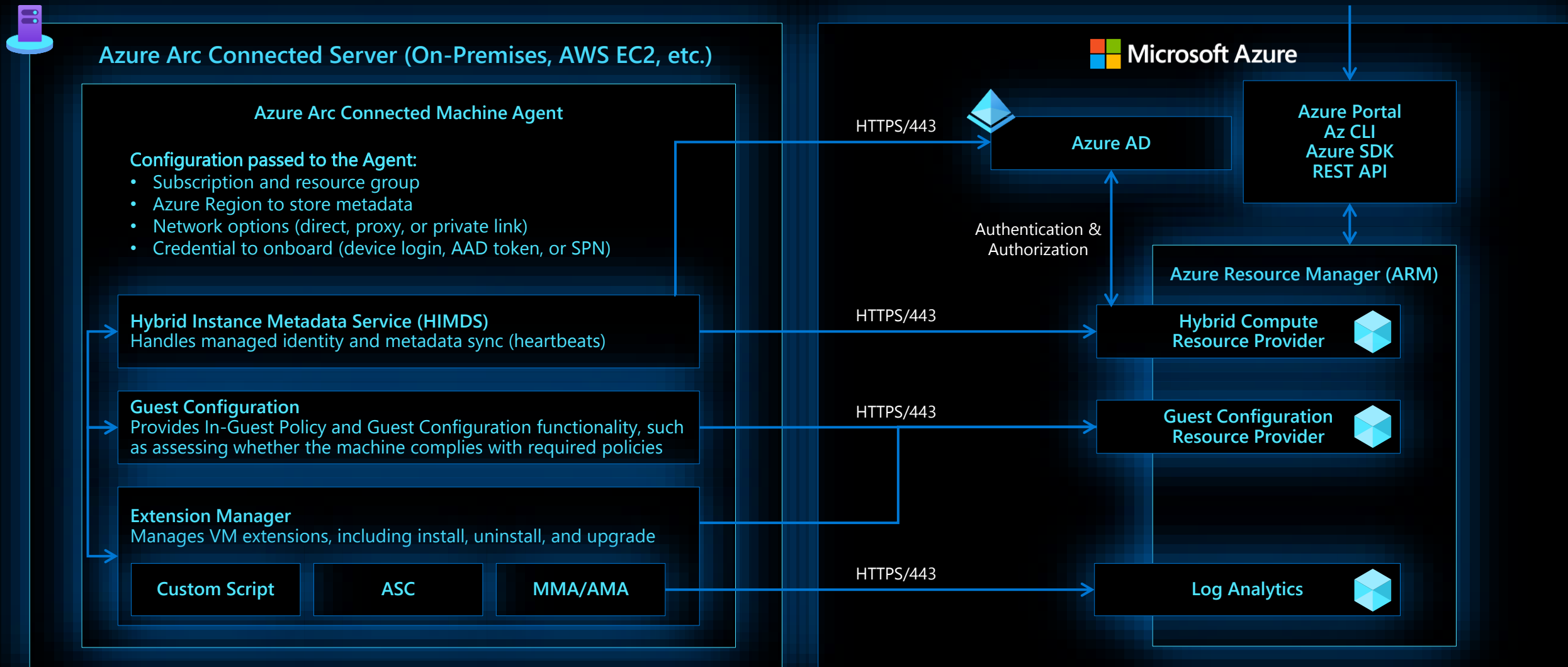


AKS on Azure Stack HCI

GENERALLY AVAILABLE

Azure Arc-enabled servers

Connected Machine Agent



Azure Arc Servers VM Extensions

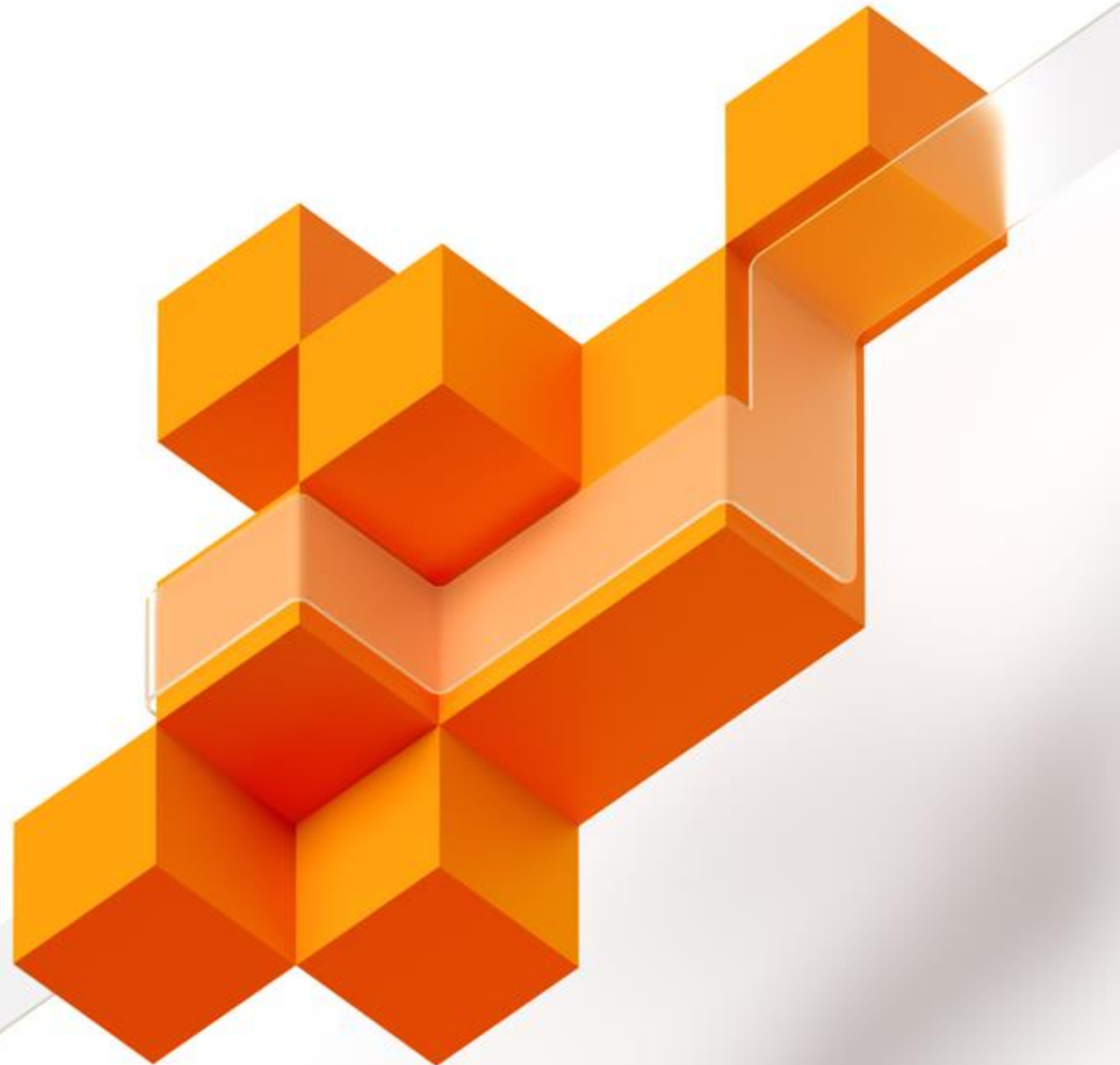
- Microsoft Defender for Cloud
- Microsoft Antimalware extension
- Custom Script extension
- Log Analytics agent
- Azure Monitor for VMs (insights)
- Azure Key Vault Certificate Sync
- Azure Monitor Agent
- Azure Extension for SQL Server
- Azure Automation Hybrid Runbook Worker extension (preview)
- Windows Admin Center (preview)



DEMO

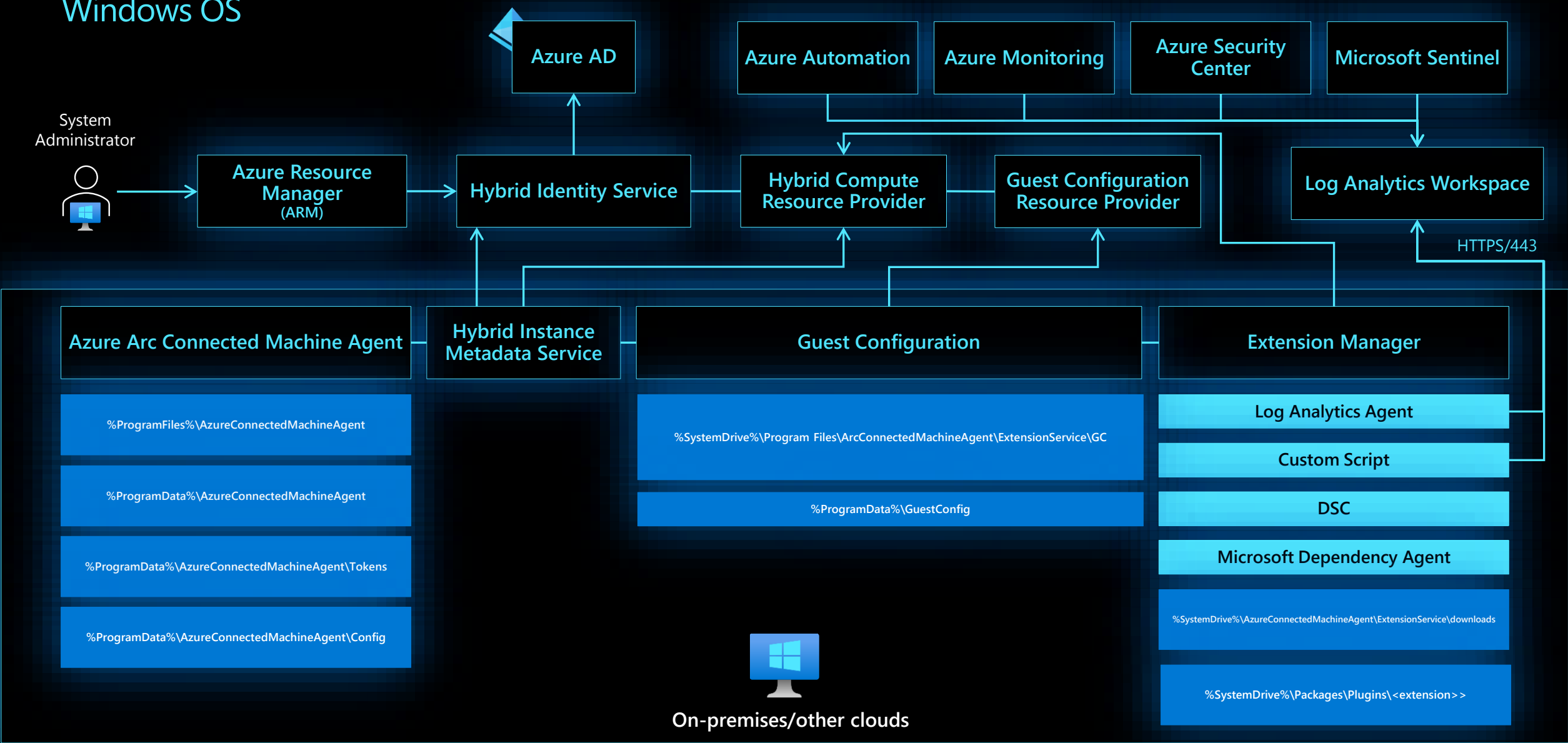
Arc-enabled Server – VM
Extensions

Portal vs. CLI/PSH



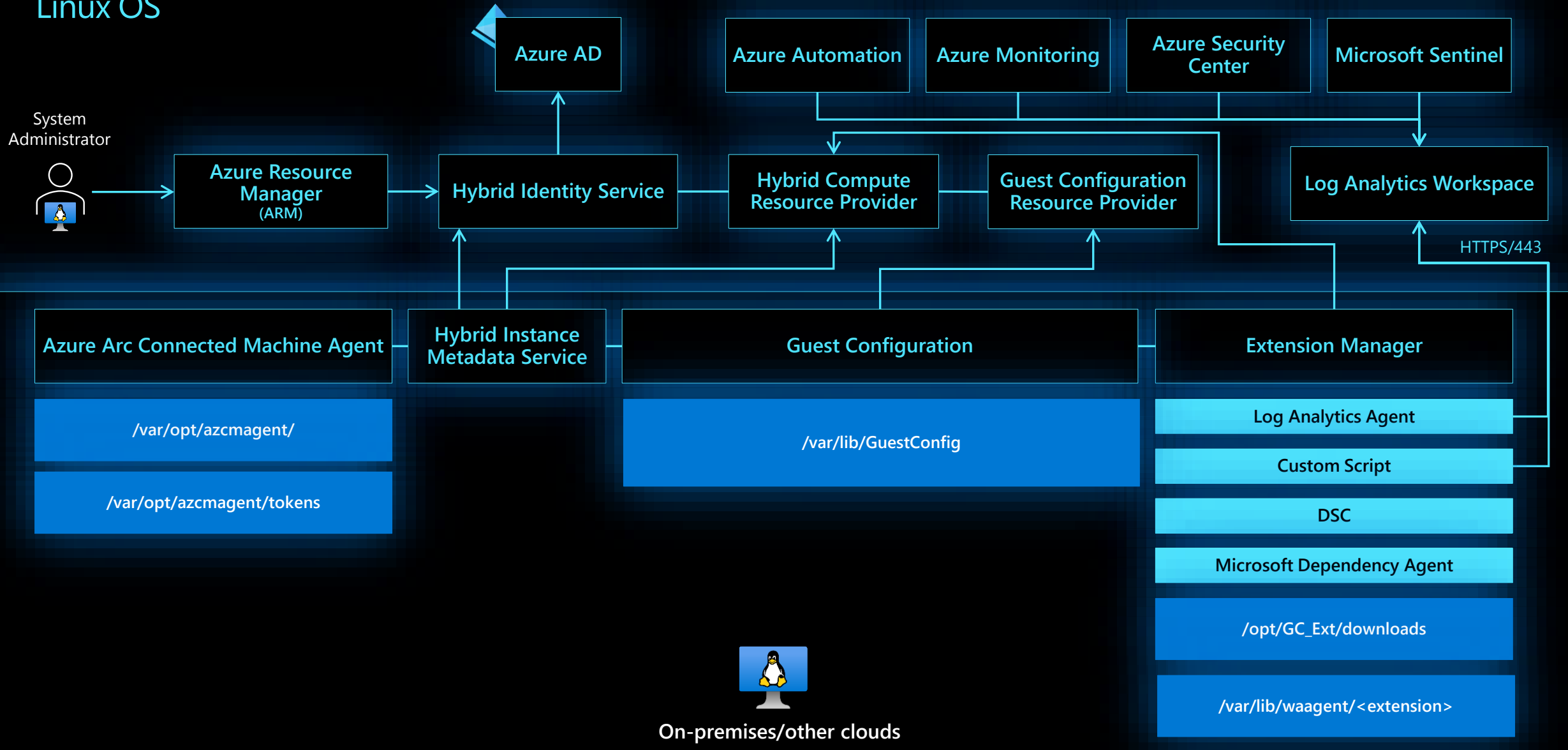
Azure Arc-enabled servers architecture

Windows OS



Azure Arc-enabled servers architecture

Linux OS



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Connected Machine agent overview

Log Analytics agent deployment options

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Learn / Azure / Azure Arc / Arc-enabled servers /

Understand deployment options for the Azure Monitor agent on Azure Arc-enabled servers

Article • 09/15/2022 • 3 minutes to read • 5 contributors

Azure Monitor supports multiple methods to install the Azure Monitor agent and connect your machine or server registered with Azure Arc-enabled servers to the service. Azure Arc-enabled servers support the Azure VM extension framework, which provides post-deployment configuration and automation tasks, enabling you to simplify management of your hybrid machines like you can with Azure VMs.

The Azure Monitor agent is required if you want to:

- Monitor the operating system and any workloads running on the machine or server using [VM insights](#).
- Analyze and alert using [Azure Monitor](#).
- Perform security monitoring in Azure by using [Microsoft Defender for Cloud](#) or [Microsoft Sentinel](#).
- Collect inventory and track changes by using [Azure Automation Change Tracking and Inventory](#).

This article reviews the deployment methods for the Azure Monitor agent VM extension, across multiple production physical servers or virtual machines in your environment, to help you determine which works best for your organization. If you are interested in the new Azure Monitor agent and want to see a detailed comparison, see [Azure Monitor agents overview](#).

Installation options

Review the different methods to install the VM extension using one method or a combination and determine which one works best for your scenario.

Deploy Azure Monitor agent on Arc-enabled servers - Azure Arc | Microsoft Learn


Windows agents

	Azure Monitor Agent	Log Analytics Agent	Diagnostics extension (WAD)
Environments supported			
Azure	X	X	X
Other cloud (Azure Arc)	X	X	
On-premises (Azure Arc)	X	X	
Windows Client OS	X (Public preview)		

Azure Monitor Agent overview - Azure Monitor | Microsoft Learn

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WRITTEN BY THOMAS MAURER • JULY 9, 2020 • 10:21 AM • MICROSOFT, MICROSOFT AZURE, WINDOWS SERVER • 3 COMMENTS

How to Add the Microsoft Monitoring Agent to Azure Arc Servers

HOME → MICROSOFT, MICROSOFT AZURE, WINDOWS SERVER → HOW TO ADD THE MICROSOFT MONITORING AGENT TO AZURE ARC SERVERS

Microsoft Azure

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THOMAS MAURER
MICROSOFT

Home > OnPremServer01 | Extensions > New resource >

New resource

Custom Script Extension for Windows - Azure Arc (preview)
Microsoft Corp.

PowerShell Desired State Configuration - Azure Arc (preview)
Microsoft Corp.

Microsoft Monitoring Agent - Azure Arc (preview)
Microsoft Corp.

Microsoft Monitoring Agent - Azur...

Microsoft Corp.

The Log Analytics agent collects monitoring data from the guest operating system and workloads of virtual machines in Azure, other cloud providers, and on-premises and sends that data into a Log Analytics workspace. It is used by Azure Monitor, Azure Security Center, and Azure Sentinel, among other Azure management solutions.

Publisher
Microsoft Corp.

Useful Links
[Learn more about MMA](#)

Create

How to Add the Microsoft Monitoring Agent to Azure Arc Servers - Thomas Maurer



Fragen aus der Community



Ausblick & Events

Upcomming events

- [Azure Architects Connect](#) Serie zum Thema „Hybrid- / Multi Cloud & Security“, Sept. 2022, Recording & Slides are available at [Azure Architects Connect | Groups | LinkedIn](#)
- Azure Hybrid Cloud Insights Series, **Dec. 02th.**, registration [here](#)
- Hybrid Bootcamp for Partners, Nov. 14th at Microsoft Office Munich → bei Interesse bitte melden
- (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

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Azure Virtual Desktop

Windows Server 2022

Azure Stack HCI

Windows Admin Center

Hyper-V



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Azure Stack HCI Show



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Manfred Helber GmbH

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

Sven Langenfeld

Azure Stack HCI
Commercial Sales Specialist
Microsoft DACH

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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