Die Azure Arc Show

Alexander Ortha

Manfred Helber

19. September 2022 # 13 Uhr

Azure Arc und Windows Server

Willkommen

News Ecke

August 25, 2022

Print

Based in Kornwestheim, Germany, Wustenrot & Wurttembergische (W&W) is home to around 13,000 people who are dedicated to delivering industry-leading insurance and banking services to customers across Germany. As companies like W&W increasingly digitize and transform their financial services, including how their customers manage bank accounts, transfer money, and purchase insurance, technology flexibility has become key to enabling business growth. This recently led W&W to seek new ways to optimize its infrastructure as it reached the contract end date for its legacy on-premises software and better support its employees working on the field and in W&W offices.

Learn More

- Microsoft Azure Arc
- Azure Arc–enabled servers
- Hybrid and multicloud solutions
- Azure migration and modernization center

[Microsoft Customer Story-Wüstenrot & Württembergische reduces patching time by 35 percent, leans into hybrid cloud management with Azure Arc]

Automate your patching using Azure Arc and Azure Automation!

By Andy Jaw

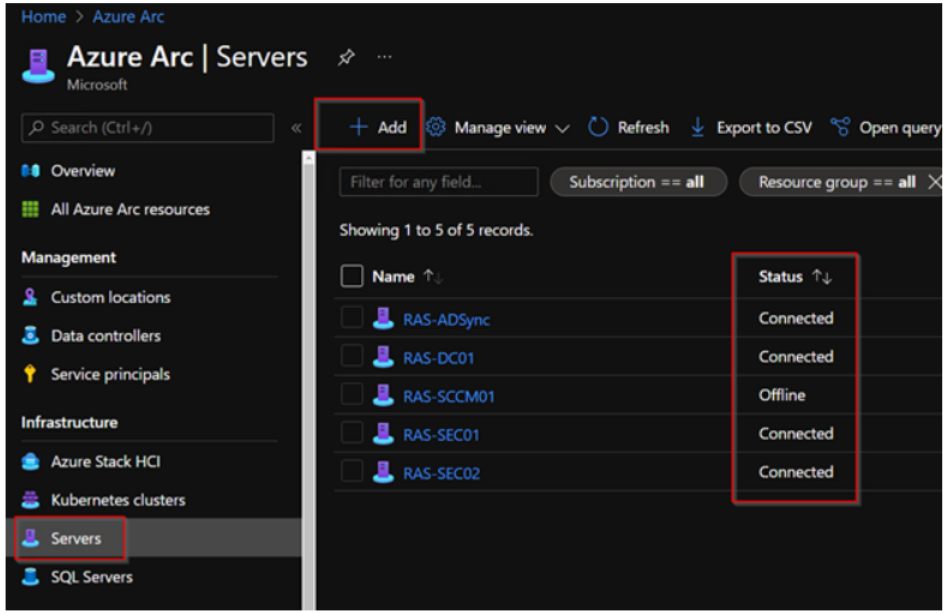
Published Feb 25 2022 08:47 AM 1,537 Views

Patching can be a struggle for a lot of organizations. However, it is one of the most basic security tasks that security defenders must ensure happens regularly. If you're still manually patching your servers, you need to look into Azure Arc and Azure Automation to automate this.

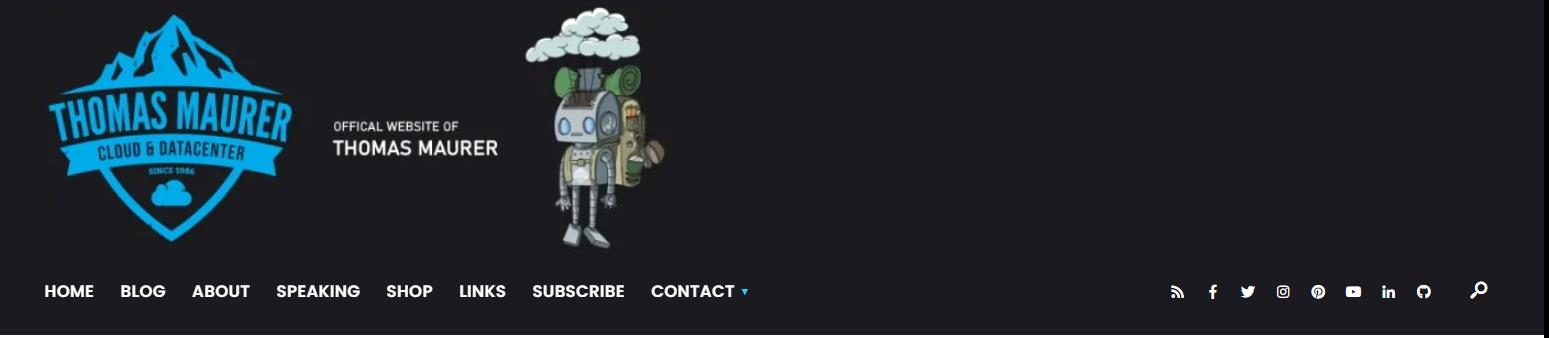
Azure Arc extends management from Azure to on-prem or 3rd party cloud infrastructure. By installing the Azure Arc agent on an on-prem or 3rd party cloud server, it allows you to manage and gain insight on that server in your Azure tenant along side your other Azure servers.

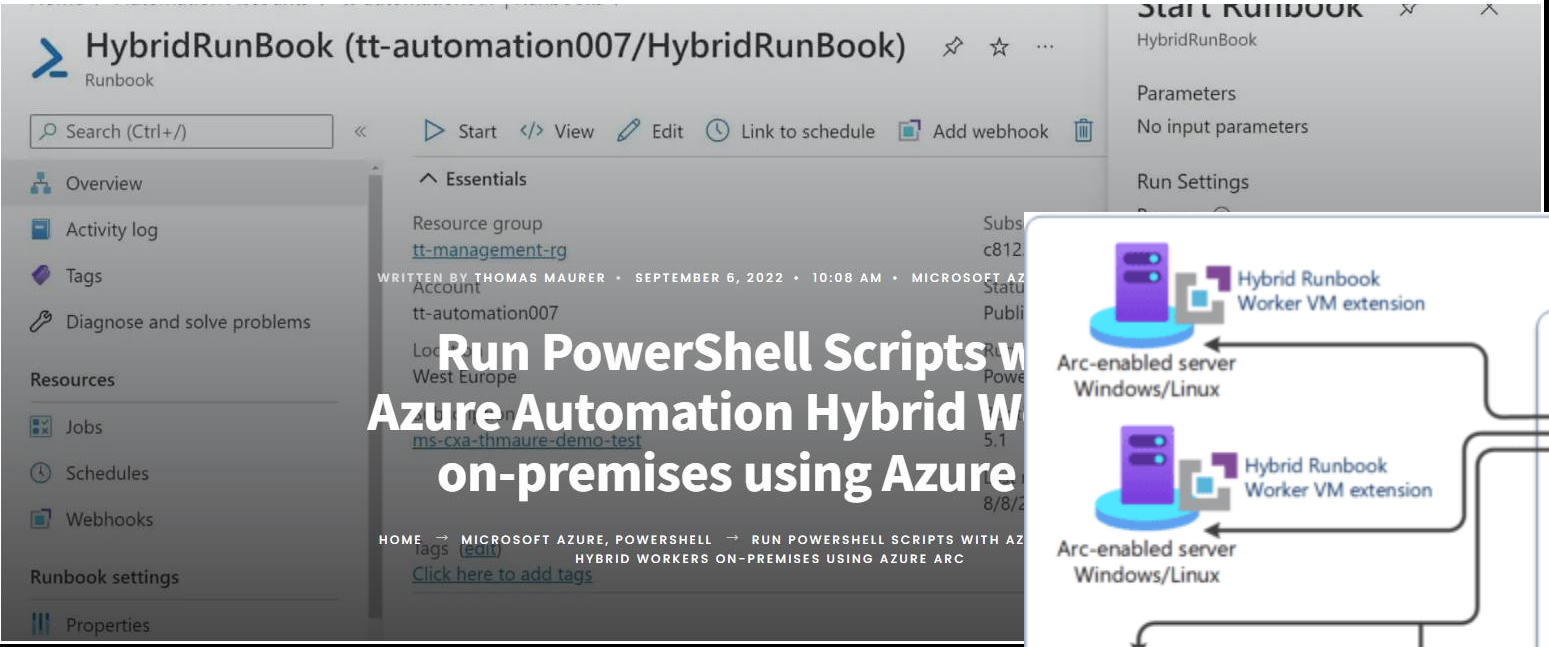
Azure automation is an extremely powerful tool. In this blog, I will go over how to use it to automate patching but there are a lot more things Azure automation can do.

The first thing you need to do is install the Arc agent on your servers. You can do this via a script either manually or deployed through management. Go to Azure Arc --> Servers --> Add.



[Automate your patching using Azure Arc and Azure Automation! - Microsoft Tech Community]

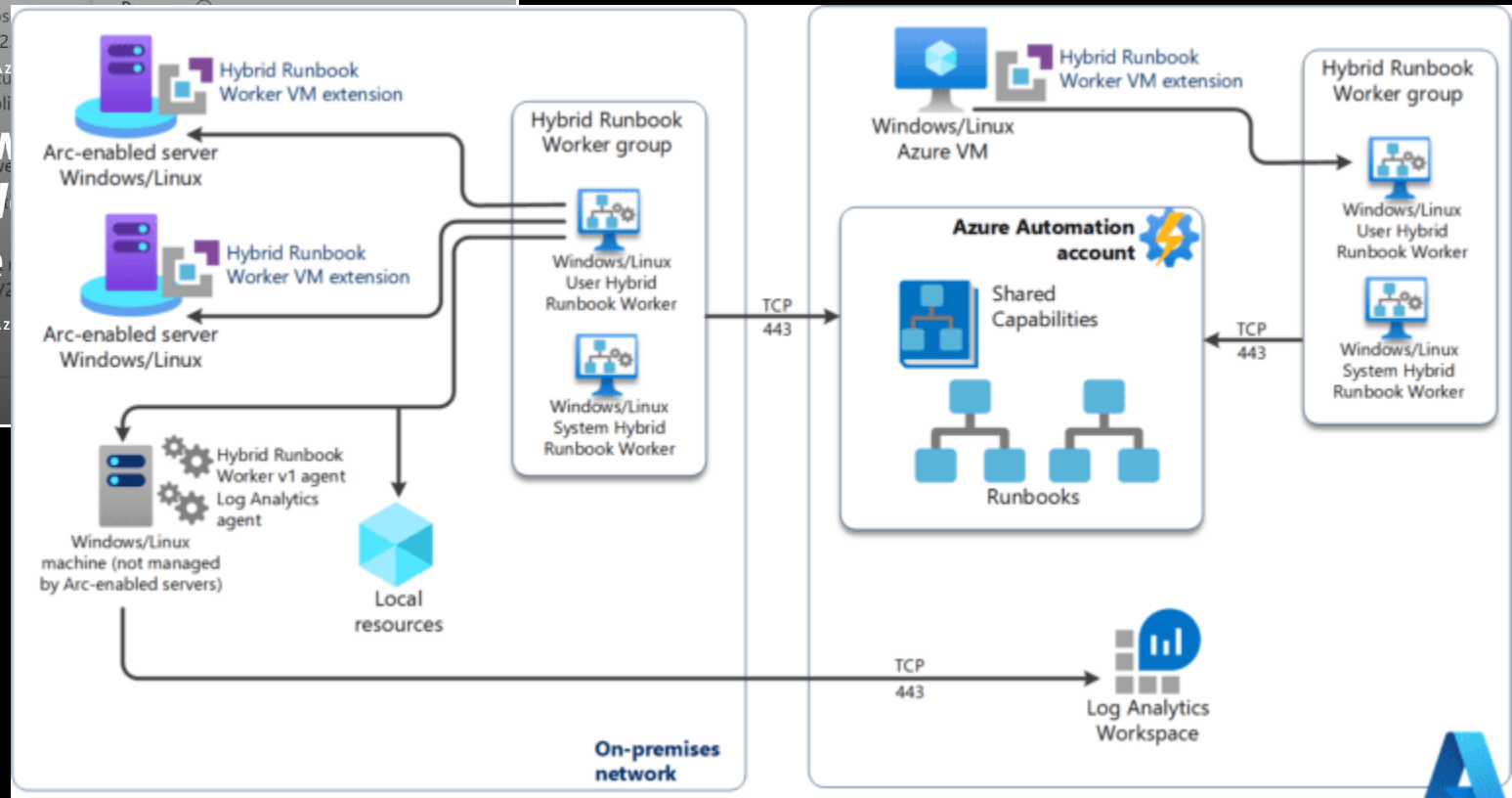




WRITTEN BY THOMAS MAURER • SEPTEMBER 6, 2022 • 10:08 AM • MICROSOFT AZ

Run PowerShell Scripts w
Azure Automation Hybrid W
on-premises using Azure

HOME → MICROSOFT AZURE, POWERSHELL → RUN POWERSHELL SCRIPTS WITH AZ
HYBRID WORKERS ON-PREMISES USING AZURE ARC



[Run PowerShell Scripts with Azure Automation Hybrid Workers on-premises using Azure Arc - Thomas Maurer]

Generally Available: Azure Arc-enabled servers support for private endpoints

By Ryan Willis

Published May 09 2022 12:00 PM 2,718 Views

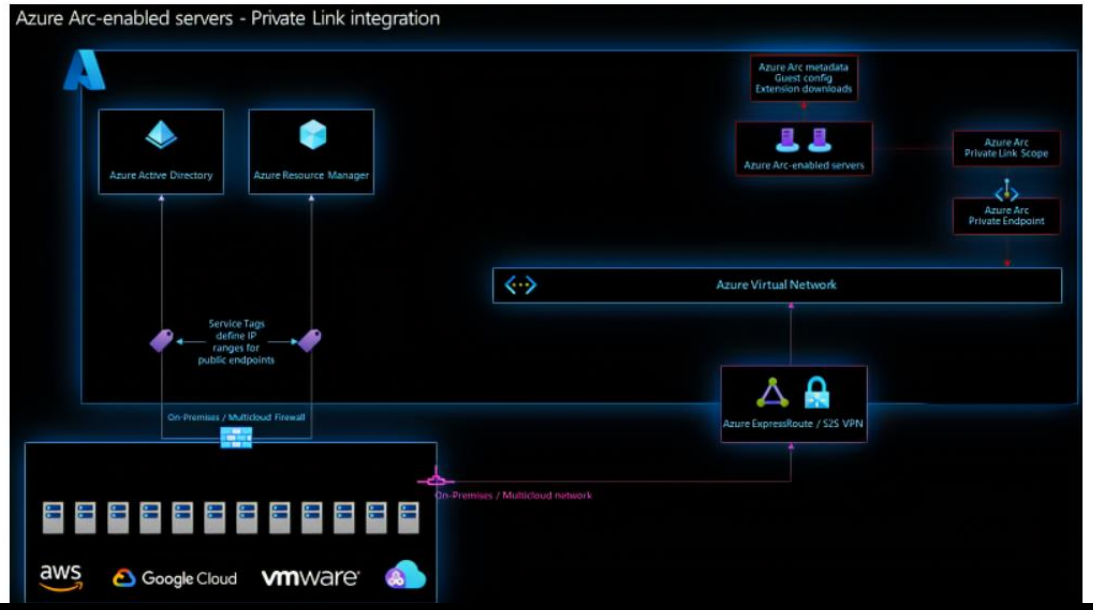
The Azure Arc team is excited to announce that Azure Arc-enabled servers' support for private endpoints is now generally available! With private endpoints, you can send traffic from the Azure Connected Machine Agent to Azure over a site-to-site VPN or Express Route circuit instead of the public internet or proxy server. This can help you reduce network exposure and improve security while still allowing you to use Azure Arc to secure, monitor and govern your servers running outside of Azure.

How does it work?

Private endpoints allow you to connect an Azure service to an Azure virtual network using private IP addresses. Servers and other resources in that virtual network can then communicate with the Azure service using the private IP address and instead of sending data over the internet.

Azure Arc uses a Private Link Scope resource to associate a private endpoint with the non-Azure servers that will use the private endpoint. You'll also need to set up a site-to-site VPN or Express Route circuit to connect your Azure virtual network with the network where your non-Azure servers are connected.

Once configured, the Connected Machine agent on your Arc-enabled servers will send all metadata updates, extension operations, and guest configuration package downloads over the private endpoint. Network traffic between extensions you've installed and the Azure services that support them will also route through the internet unless you've configured private endpoints for each of those services. Additionally, the Connected Machine agent will still require access to Azure Active Directory and Azure Resource Manager over the internet.



[Generally Available: Azure Arc-enabled servers support for private endpoints - Microsoft Tech Community]

In preview: SSH access to Azure Arc-enabled servers

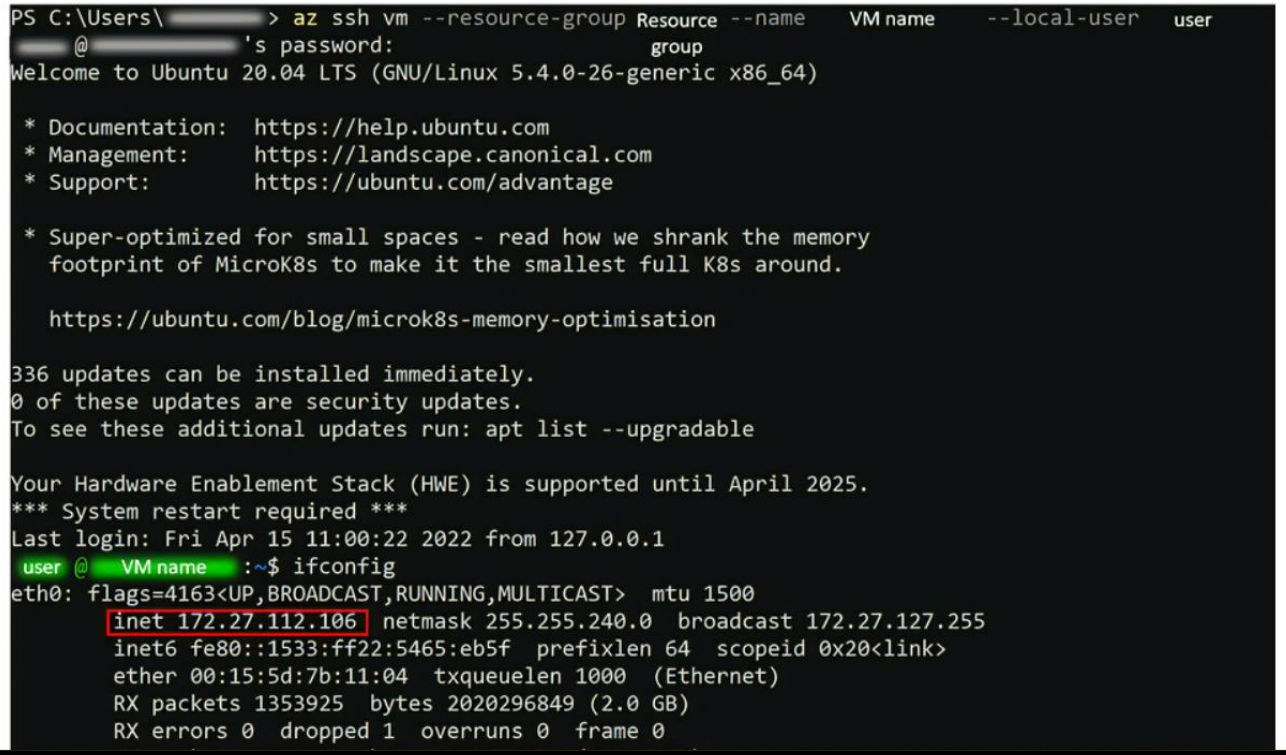
By Danny Maertens

Published Apr 19 2022 09:00 AM 4,521 Views

Remote server management is a critical tool for server administrators. Whether you are running automation or using interactively, SSH based remoting is to connect to your remote server. Starting today, you can now securely SSH into your Arc enabled servers without a public IP address or additional inbound ports!

SSH access to Arc enabled servers allows you to SSH into your Arc onboarded servers with a simple Azure CLI command (Azure PowerShell coming soon)! Leverage your existing local SSH keys, username/passwords to connect to either Windows or Linux servers. Additionally, you can SSH using your Azure AD credentials (currently available on Linux-only).

Using Arc enabled servers and SSH access you can now access any of your machines, in any network, with one command without exposing a public IP address or opening additional inbound firewall ports. SSH traffic is sent over the existing connection between the Azure Arc agent and Azure, no extra configuration is required. Additionally, we are committed to providing a secure and consistent experience across operating systems, Arc servers & Azure VMs, and authentication types. This means that the same command, `az ssh vm`, can be used to access any of your machines. Providing a consistent, easy to understand, automatable solution for accessing your machines with SSH.



[In preview: SSH access to Azure Arc-enabled servers - Microsoft Tech Community]

Lernkurve rund um Azure Arc

Thema: Arc enabled Servers - Onboarding

Azure Arc-enabled infrastructure

Bring on-premises and multi-cloud infrastructure to Azure

Azure Arc-enabled servers

Windows Server

suse

Red Hat

aws

AWS Linux 2

GENERALLY AVAILABLE

SQL Server on Arc-enabled servers

GENERALLY AVAILABLE

Azure Arc-enabled Kubernetes

CANONICAL

RANCHER

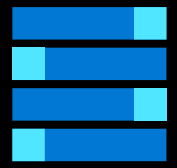
OpenShift

AKS on Azure Stack HCI

GENERALLY AVAILABLE

Azure Arc-enabled servers

Bring on-premises and multi-cloud servers to Azure with Azure Arc



Reach

Linux and Windows
VM and Bare-Metal
Domain agnostic

Organize and Inventory

At scale searchable inventory
Unify management experience
Consistent VM extensions
Integrate with Azure Lighthouse

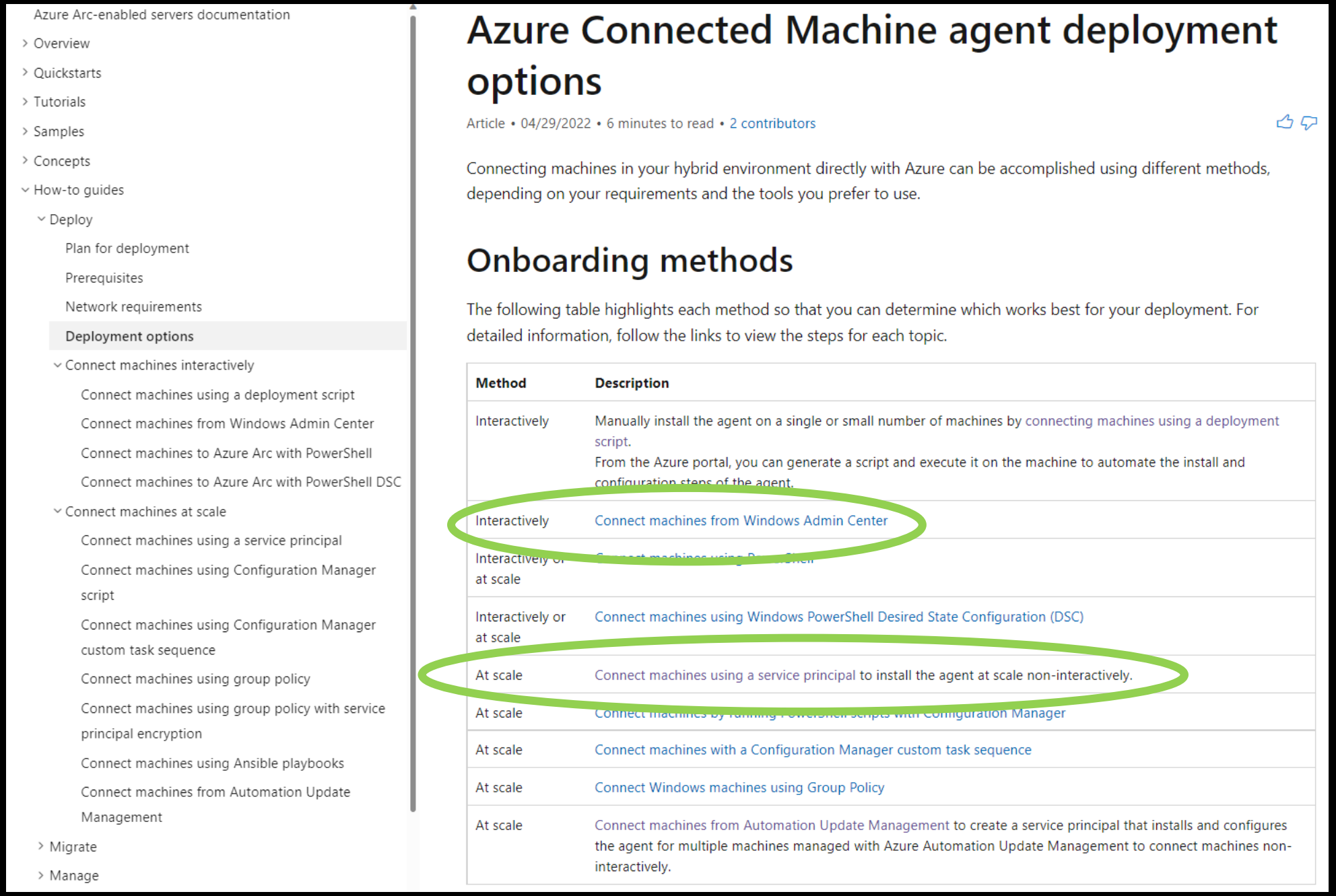
Governance

Built-in Azure policies
Compliance across environments
Centralized agent management – Monitoring, Security, Update Management

Security

Azure Active Directory Managed Identity integration
Server security baselines
Role-Based Access control

Any infrastructure, familiar tools



[Azure Connected Machine agent deployment options - Azure Arc | Microsoft Docs]

Microsoft

DEMO

Onboarding via Azure SP

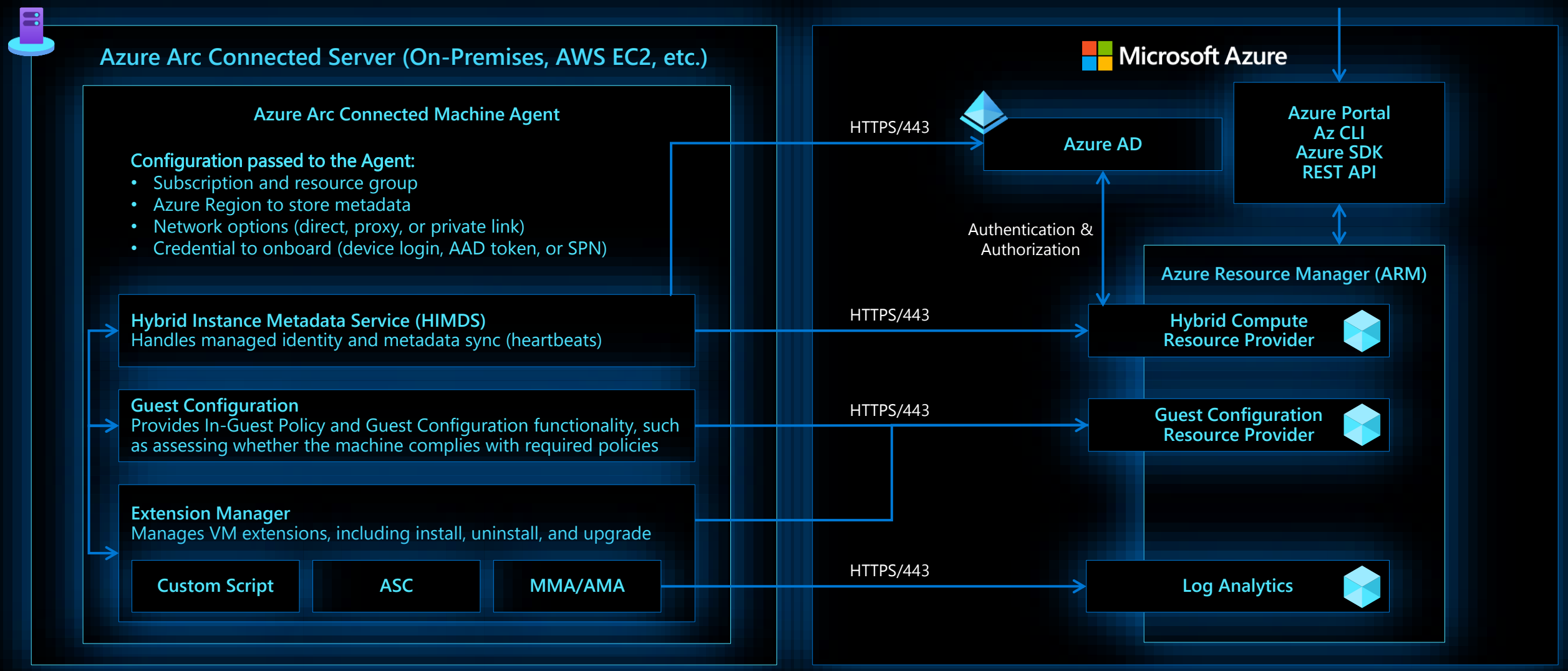
Microsoft

DEMO

Onboarding via WAC

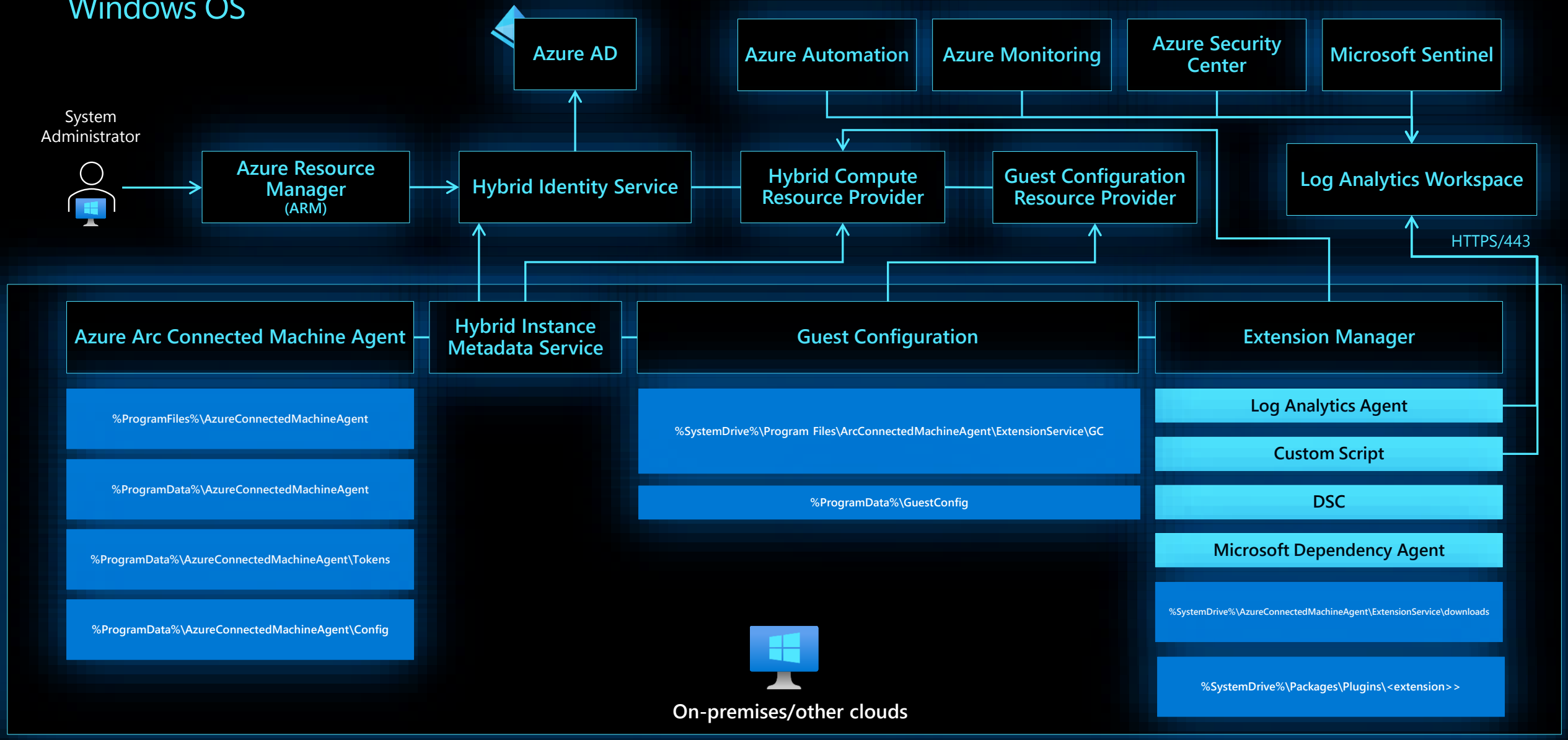
Azure Arc-enabled servers

Connected Machine Agent



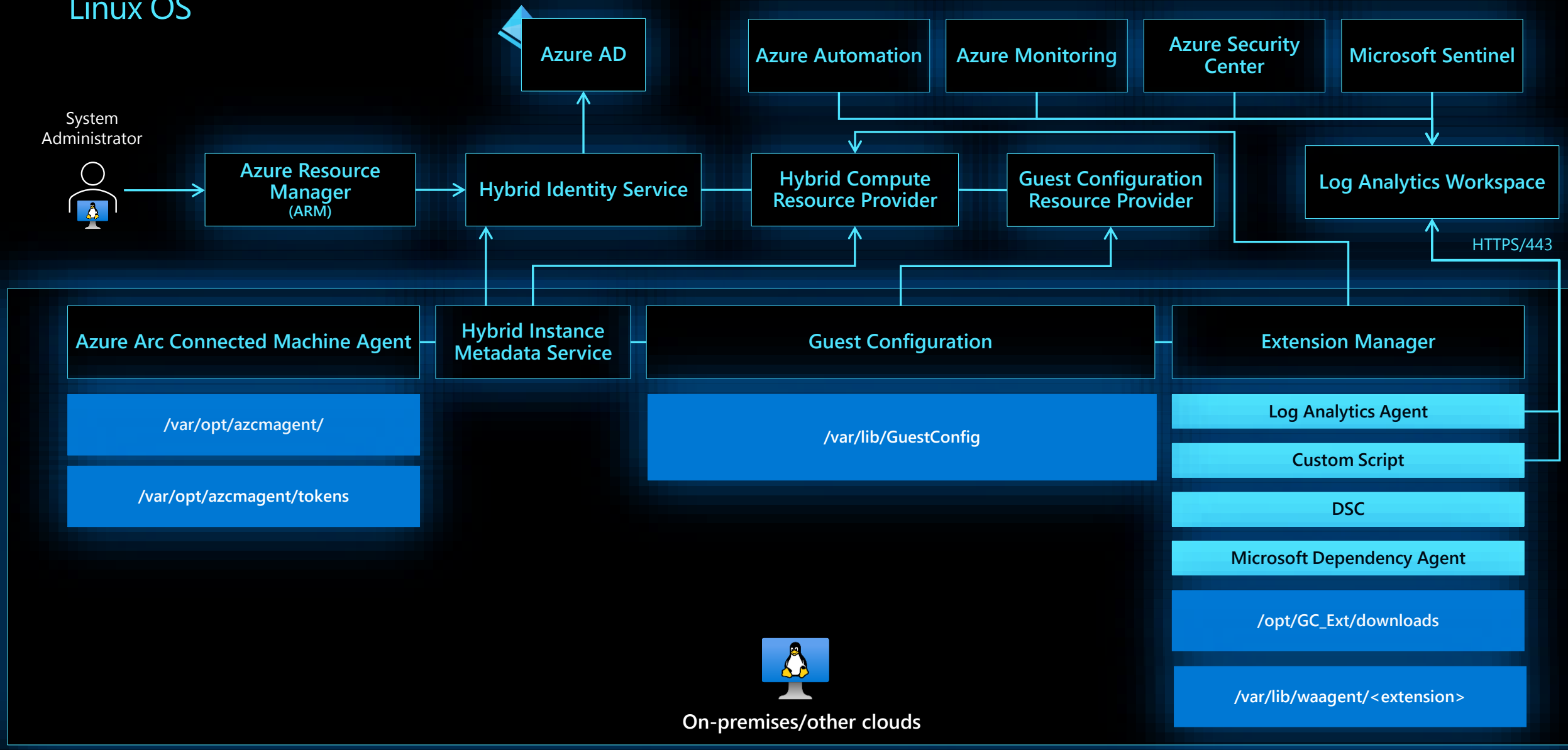
Azure Arc-enabled servers architecture

Windows OS



Azure Arc-enabled servers architecture

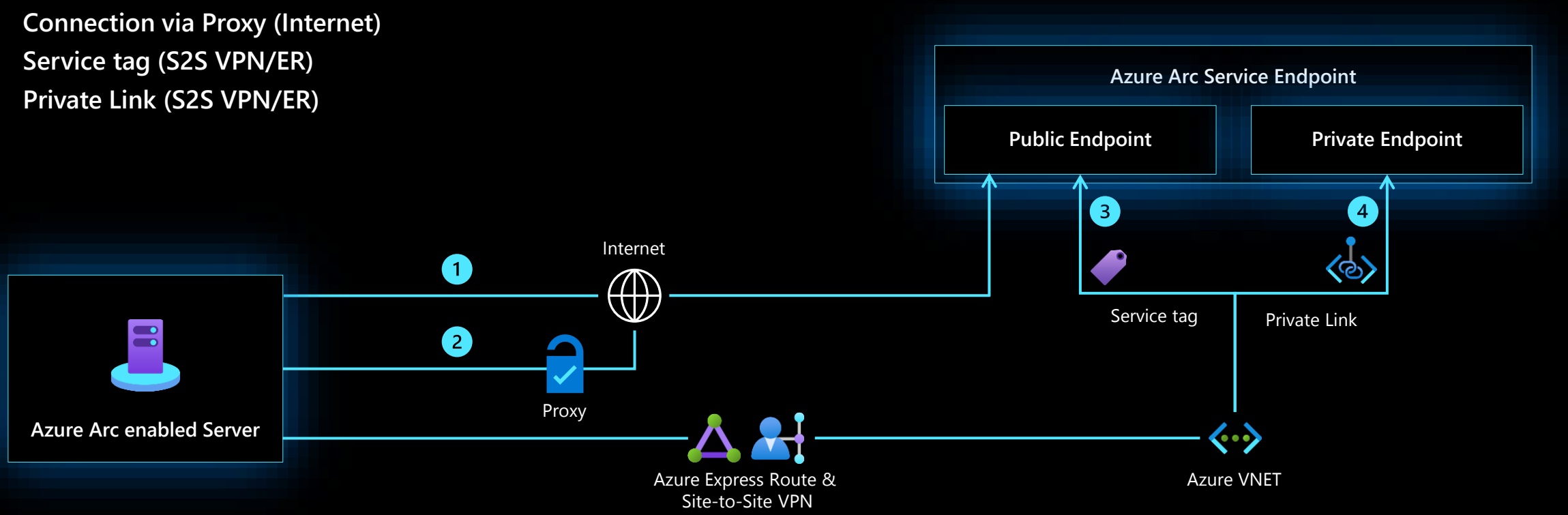
Linux OS



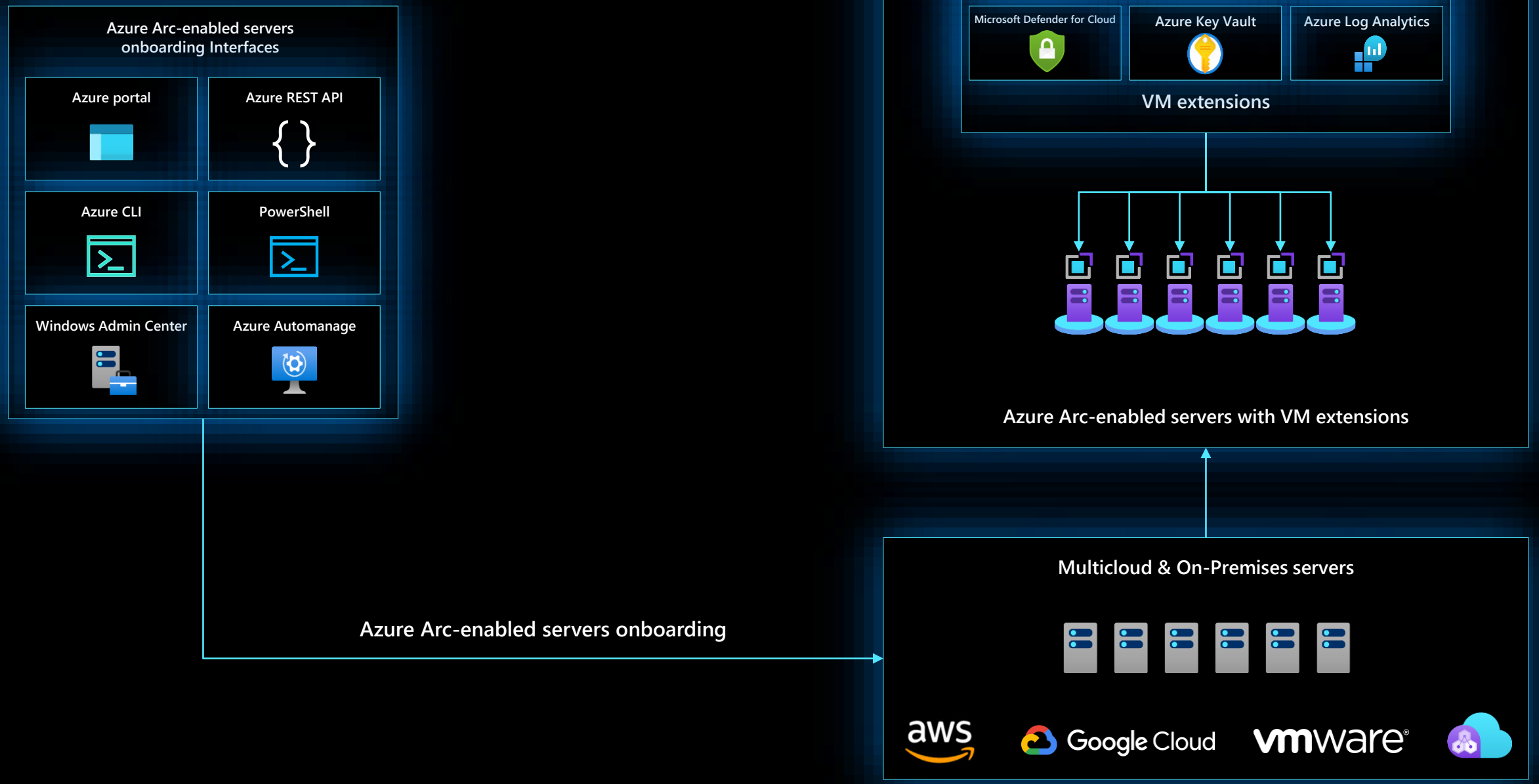
Azure Arc enabled servers

Connectivity Options

1. Direct connection (Internet)
2. Connection via Proxy (Internet)
3. Service tag (S2S VPN/ER)
4. Private Link (S2S VPN/ER)

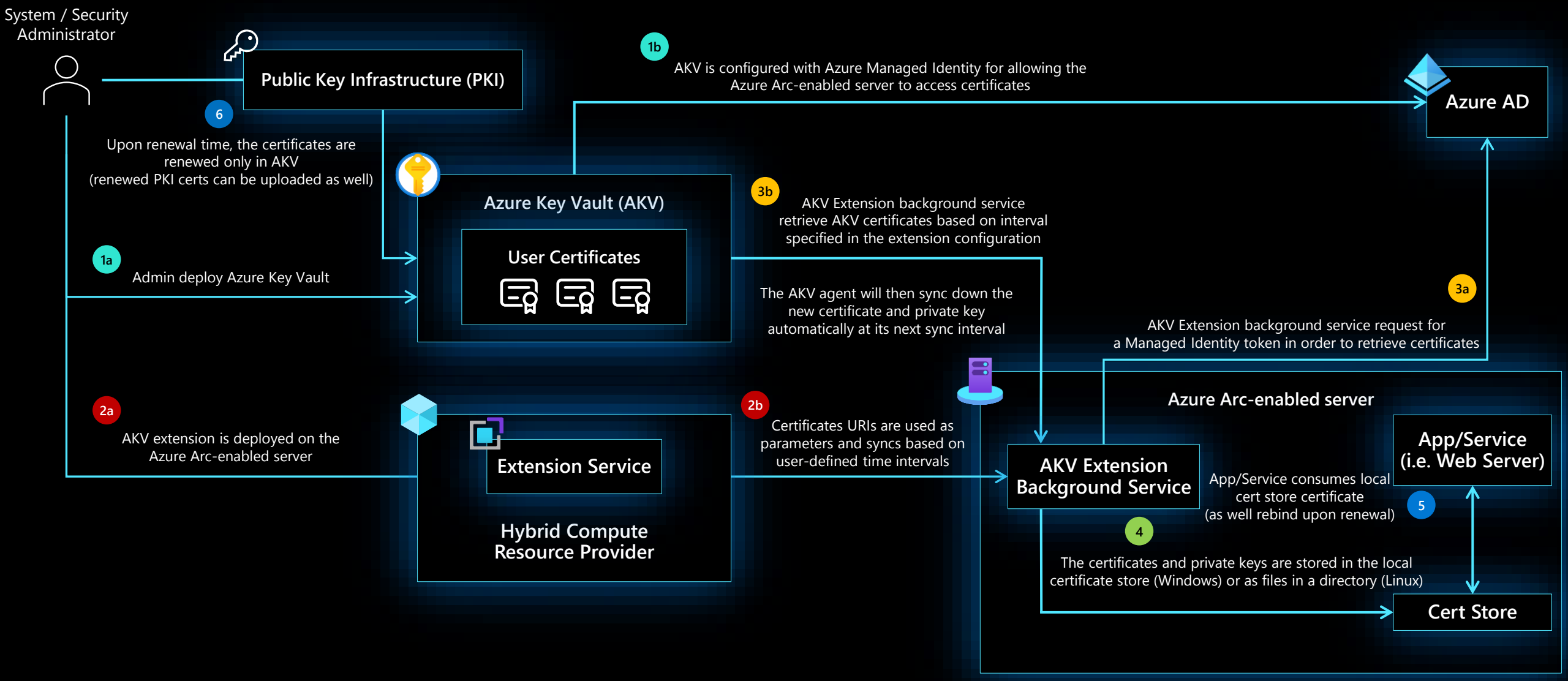


Azure Arc-enabled servers
VM extension integration



Azure Arc-enabled servers

Azure Key Vault Integration



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)

VM extension management with Azure Arc-enabled servers - Azure Arc | Microsoft Docs

Fragen aus der Community

Ausblick & Events

Upcomming events

- Azure Architects Connect Serie zum Thema „Hybrid- / Multi Cloud & Security“, Sept. 2022
- Microsoft Ignite, ww/Seattle 12.-14.10. + local in Munich, 13.-14.10.
- Azure Meetup Wien – Azure Hybrid with Arc, Sept. 14th
- Azure Hybrid Cloud Insights Series, Sept. 19th., registration here

Azure Stack HCI Show

September 2022

14.09.	München
15.09.	Stuttgart
21.09.	Hamburg
22.09.	Berlin
27.09.	Frankfurt

Strategischer Eventpartner

intel

https://www.manfredhelber.de/azure-stack-hci-show-on-tour/

WBSC # SKILLS

September 2022:
Azure Arc

WBSC
Windows Business
Solutions Club

Manfred Helber

5. September 2022, 10.00 Uhr
Grundlagen zu Azure Arc

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

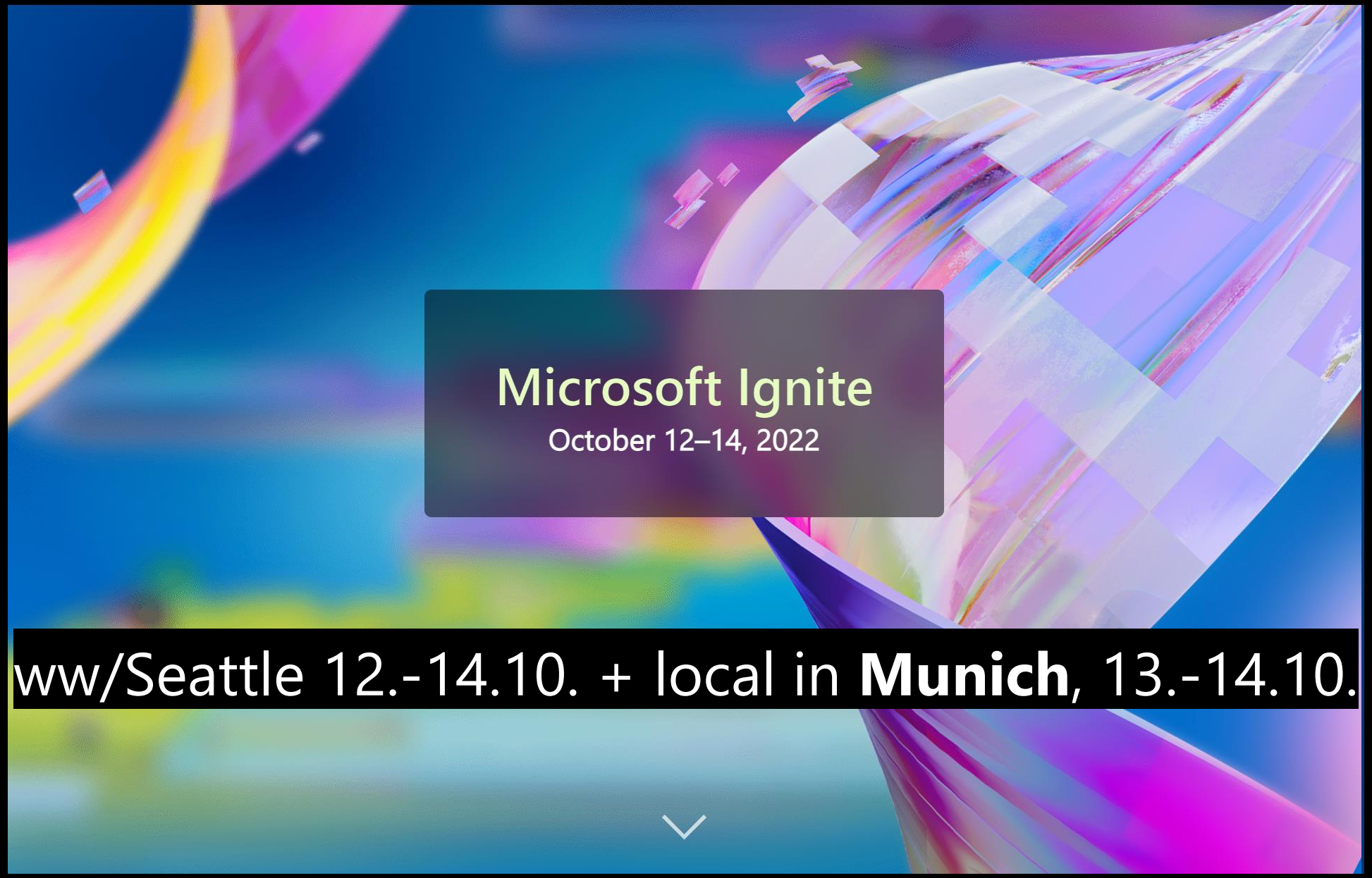
19. September 2022, 10.00 Uhr
Azure Arc und Azure Stack HCI

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

Diese Schulungs-Webcasts werden unterstützt von

Microsoft

Click, join and comment
live über YouTube



Your home for Microsoft Ignite

Azure Stack HCI Tour

WBSC Skills

Next Azure Arc Show + call to actions

Vielen Dank!

Die Azure Arc Show

Alexander Ortha

Manfred Helber

Nächster Termin:

17.10.2022 um 10:00 Uhr