

Die Azure Arc Show



Alexander Ortha



10. März 2023 # 13 Uhr

Die Möglichkeiten von Azure Arc,
Azure Stack HCI und Azure



Manfred Helber



Willkommen



News Ecke

How To Automate The Hybrid World Part One Of Two

By  Jonas Ohmsen

Published Jan 23 2023 04:36 AM

👁 4,391 Views

Hi, Jonas here!

Or as we say in the north of Germany: **"Moin Moin!"**

I'm a Microsoft Senior Cloud Solution Architect – Engineering (or short Sr. CSA-E) and in this article I want to talk about how to automate the hybrid world.

Over the years Microsoft has developed more and more automation tools such as Power Automate, Azure Logic Apps, Azure Functions or Azure Automation. In this article I will focus on the last one, Azure Automation, as it is an amazing tool and hopefully provide you with an easy-to-follow how-to guide.

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[Azure Automation in a nutshell](#)

[A Hybrid worker in a nutshell](#)

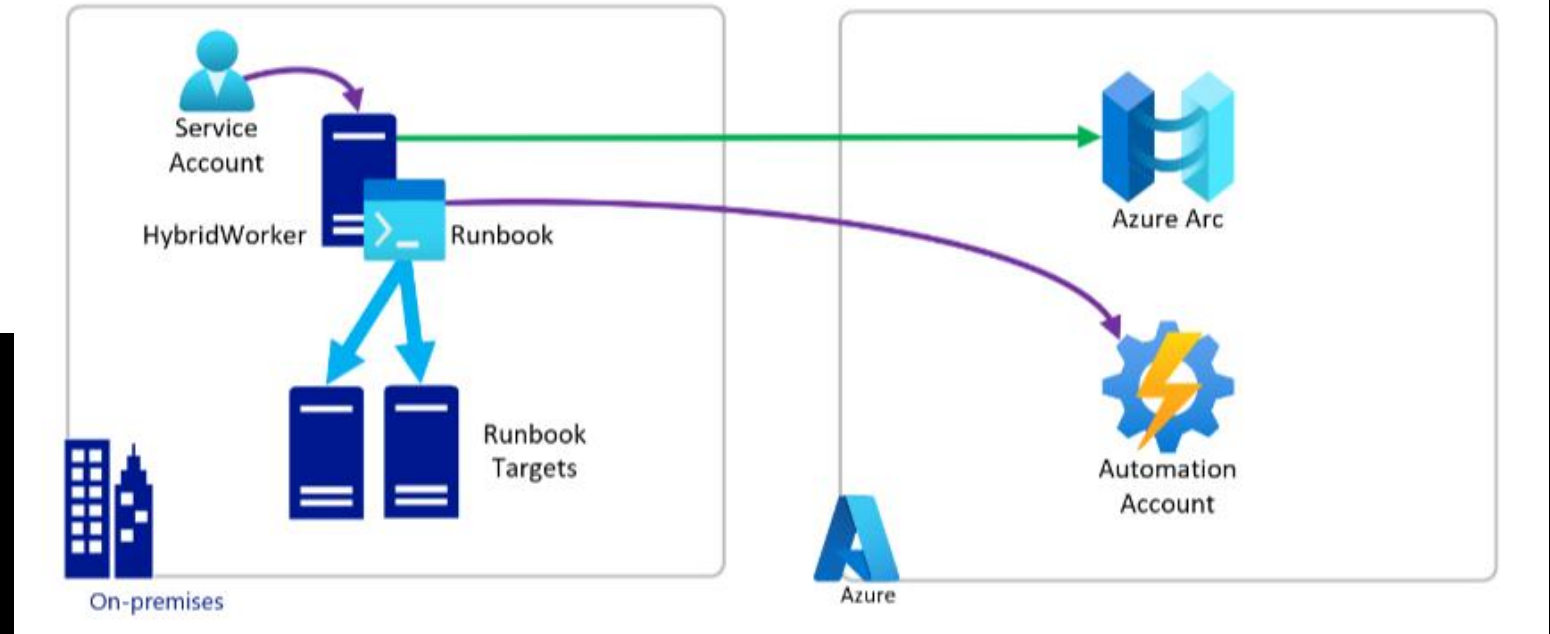
[Azure Arc in a nutshell](#)

[Hybrid Worker setup diagram](#)

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[Prepare Azure Automation Account](#)

[Azure Arc Extension-based \(V2\) Hybrid Worker setup](#)



[How To Automate The Hybrid World Part Two Of Two \(microsoft.com\)](#)

Simplify Windows Server management in Azure with Automanage & Hotpatch

By  Zachary Cavanell

Published Feb 21 2023 08:24 AM

 1,899 Views

Simplified management of Windows Server with Automanage and Hotpatch capabilities. Automanage in Azure is a unified solution to automate operations, apply consistent best practices, and enforce policies. Hotpatch capabilities for Windows Server Azure Edition VMs to speed up deployment of updates and minimize reboots, so you can apply security updates faster.



[Simplify Windows Server management in Azure with Automanage & Hotpatch \(microsoft.com\)](https://microsoft.com)

[Manage Linux with Arc - Training | Microsoft Learn](#)



Manage Linux with Arc

36 min • Module • 6 Units

★★★★★ 4.7 (6)

Rate it

Beginner

Administrator

Solution Architect

Azure

Arc

700 XP

In this module, you'll discover how to manage Linux machines and systems using Azure Arc, SSH, and Ansible.

Learning objectives

By the end of this module, you'll be able to:

- Describe how to use Azure Arc to manage Linux machines.
- Describe how to use SSH with Azure Arc to manage Linux systems.
- Describe the options for managing large numbers of Linux systems with Azure Arc and Ansible.

Start >

+ Add

Prerequisites

- Basic understanding of Azure Arc.
- Basic understanding of Linux server management.

Introduction

3 min

Describe concepts around managing Linux with Azure Arc

7 min

Describe how to use SSH in Azure Arc to manage Linux

10 min

Describe options around managing large numbers of Linux systems

10 min

Knowledge check

4 min

Summary

2 min

20 results

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<p>MODULE</p> <p>Prepare for successful cloud adoption with a well-defined strategy</p> <p>🕒 1 hr 12 min ★★★★★ 4.7 (359)</p> <p>Azure • Solution Architect • Intermediate</p> <p>📎 Add</p>	<p>MODULE</p> <p>Optimizing IT operations and management with Azure Automanage</p> <p>🕒 50 min ★★★★★ 4.8 (31)</p> <p>Azure • Administrator • Beginner</p> <p>📎 Add</p>	<p>MODULE</p> <p>Ensure stable operations and optimization across all supported workloads deployed to the cloud</p> <p>🕒 1 hr 7 min ★★★★★ 4.8 (251)</p> <p>Azure • Auditor • Intermediate</p> <p>📎 Add</p>	<p>MODULE</p> <p>Connect non-Azure resources to Microsoft Defender for Cloud</p> <p>🕒 44 min ★★★★★ 4.8 (1.3K)</p> <p>Azure • Security Operations Analyst • Intermediate</p> <p>📎 Add</p>
<p>MODULE</p> <p>Introduction to Azure Arc</p> <p>🕒 52 min ★★★★★ 4.7 (230)</p> <p>Azure • Solution Architect • Beginner</p> <p>📎 Add</p>	<p>MODULE</p> <p>Introduction to Azure Arc-enabled data services</p> <p>🕒 35 min ★★★★★ 4.7 (88)</p> <p>Azure • Administrator • Intermediate</p> <p>📎 Add</p>	<p>MODULE</p> <p>Introduction to Azure Arc-enabled servers</p> <p>🕒 30 min ★★★★★ 4.7 (135)</p> <p>Azure • Administrator • Beginner</p> <p>📎 Add</p>	<p>MODULE</p> <p>Monitor Azure Arc-enabled SQL Managed Instance security performance</p> <p>🕒 32 min ★★★★★ 5 (4)</p> <p>Azure • Administrator • Intermediate</p> <p>📎 Add</p>
<p>MODULE</p> <p>Deploy and manage an Azure Arc-enabled SQL Managed Instance</p> <p>🕒 1 hr 9 min ★★★★★ 5 (4)</p> <p>Azure • Data Engineer • Beginner</p> <p>📎 Add</p>	<p>MODULE</p> <p>Implement high availability and disaster recovery for Azure Arc-enabled SQL Managed Instance</p> <p>🕒 37 min ★★★★★ 5 (4)</p> <p>Azure • Administrator • Intermediate</p> <p>📎 Add</p>	<p>MODULE</p> <p>Deploy and manage Azure Arc data controller</p> <p>🕒 48 min ★★★★★ 5 (5)</p> <p>Azure • Administrator • Intermediate</p> <p>📎 Add</p>	<p>LEARNING PATH</p> <p>Implement Azure Arc-enabled SQL Managed Instance in your hybrid environment</p> <p>🕒 3 hr 41 min</p> <p>Azure • Data Analyst • Beginner</p> <p>📎 Add</p>

[Browse all learning paths and modules - Training | Microsoft Learn](#)

Microsoft Azure (Preview)

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Azure Resource Graph Explorer ...

Scope

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> Hybrid + multicloud

> Identity

> Integration

> Internet of Things

> Management and governance

> Migration

> Mixed reality

> Monitor

> Networking

> Security

> Storage

Query 1

```
1 // Azure Arc enabled Server Extensions
2 // This query returns the extensions for all Azure Arc-enabled servers within a subscription group.
3 // Click the "Run query" command above to execute the query and see results.
4 Resources
5 | where type == 'microsoft.hybridcompute/machines'
6 | project
7   id,
8   JoinID = toupper(id),
9   ComputerName = tostring(properties.osProfile.computerName),
10  OSName = tostring(properties.osName)
11 | join kind=leftouter(
```

Get started

Results

Charts

Messages

Download as CSV

Pin to dashboard

id	ComputerName	OSName	Extensions
/subscriptions/2d...	hci-w1	windows	["WindowsPatchExtension","WindowsOsUpdate... See details
/subscriptions/2d...	hci-w2	windows	["WindowsPatchExtension","WindowsOsUpdate... See details
/subscriptions/2d...	cf8d91ff-d39d-4edc-9a1b-605701cc7b0a	windows	["DependencyAgentWindows","customscriptup... See details
...

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Next >

Results: 165 (Duration: 00:00.402)

[Organize and report on your heterogeneous compute with Azure Arc \(microsoft.com\)](https://microsoft.com)

main

1 branch

0 tags

Go to file

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<> Code

alexor-ms

Add script "Create Arc RB.ps1"

d08e54b

1 minute ago

3 commits

Scripts	Add script "Create Arc RB.ps1"	1 minute ago
SlideShare	Add slides	5 minutes ago
LICENSE	Initial commit	13 minutes ago
README.md	Initial commit	13 minutes ago

README.md

AzureArcShow

Materials, Presentations, Scripts from the Azure Arc Show with Manfred Helber

About

Materials, Presentations, Scripts from the Azure Arc Show with Manfred Helber

Readme

GPL-3.0 license

0 stars

1 watching

0 forks

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[alexor-ms/AzureArcShow: Materials, Presentations, Scripts from the Azure Arc Show with Manfred Helber \(github.com\)](https://github.com/alexor-ms/AzureArcShow)



Lernkurve rund um Azure Arc

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



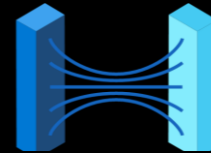
Self-Serve Operations

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



Single Pane View

Manage Azure Stack HCI VMs & Azure VMs



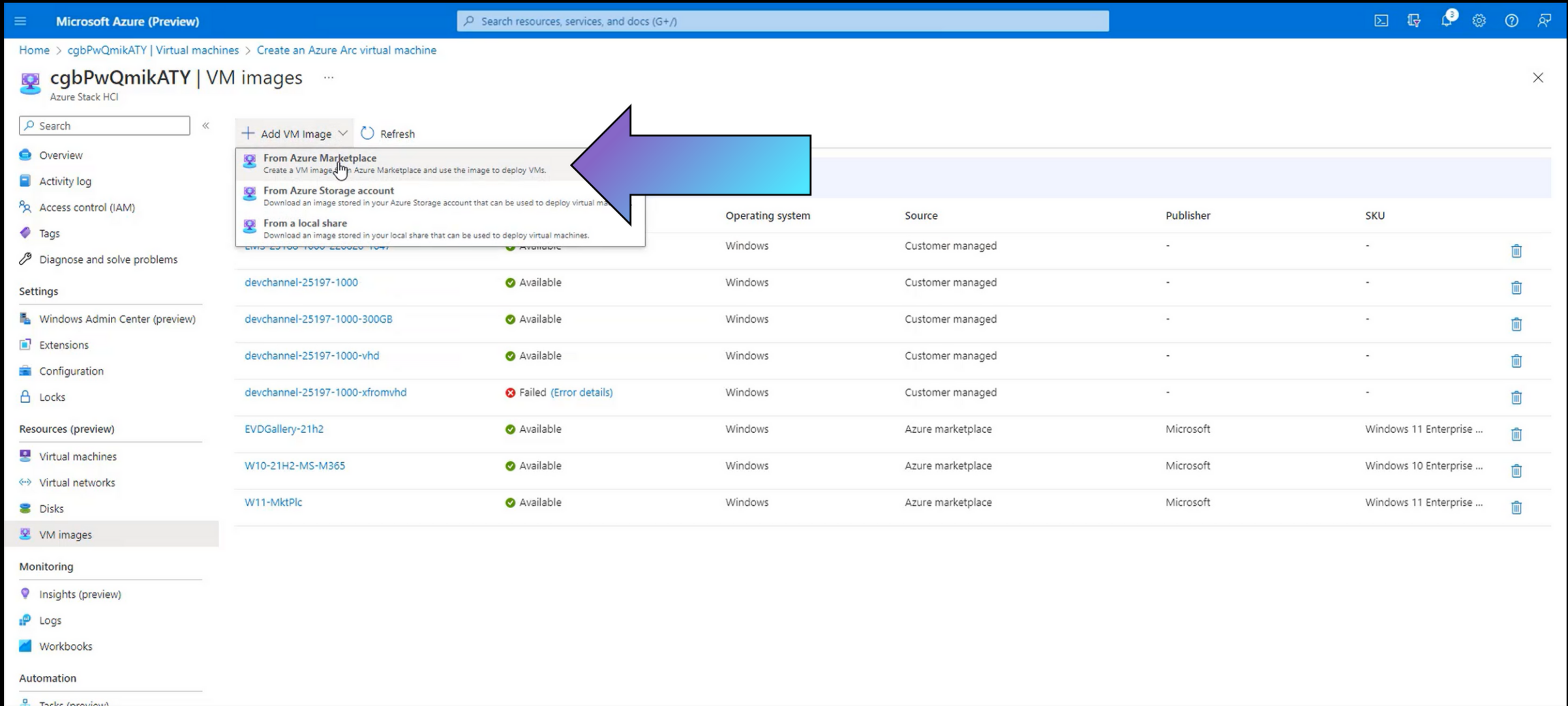
Azure Arc services

Get Azure services and management extensions

Coming Soon

Azure Stack HCI environments hosted in your datacenter

➤ Azure Arc-enabled VM management: Public Preview 2



Microsoft Azure (Preview)

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

cgbPwQmikATY | VM images

Azure Stack HCI

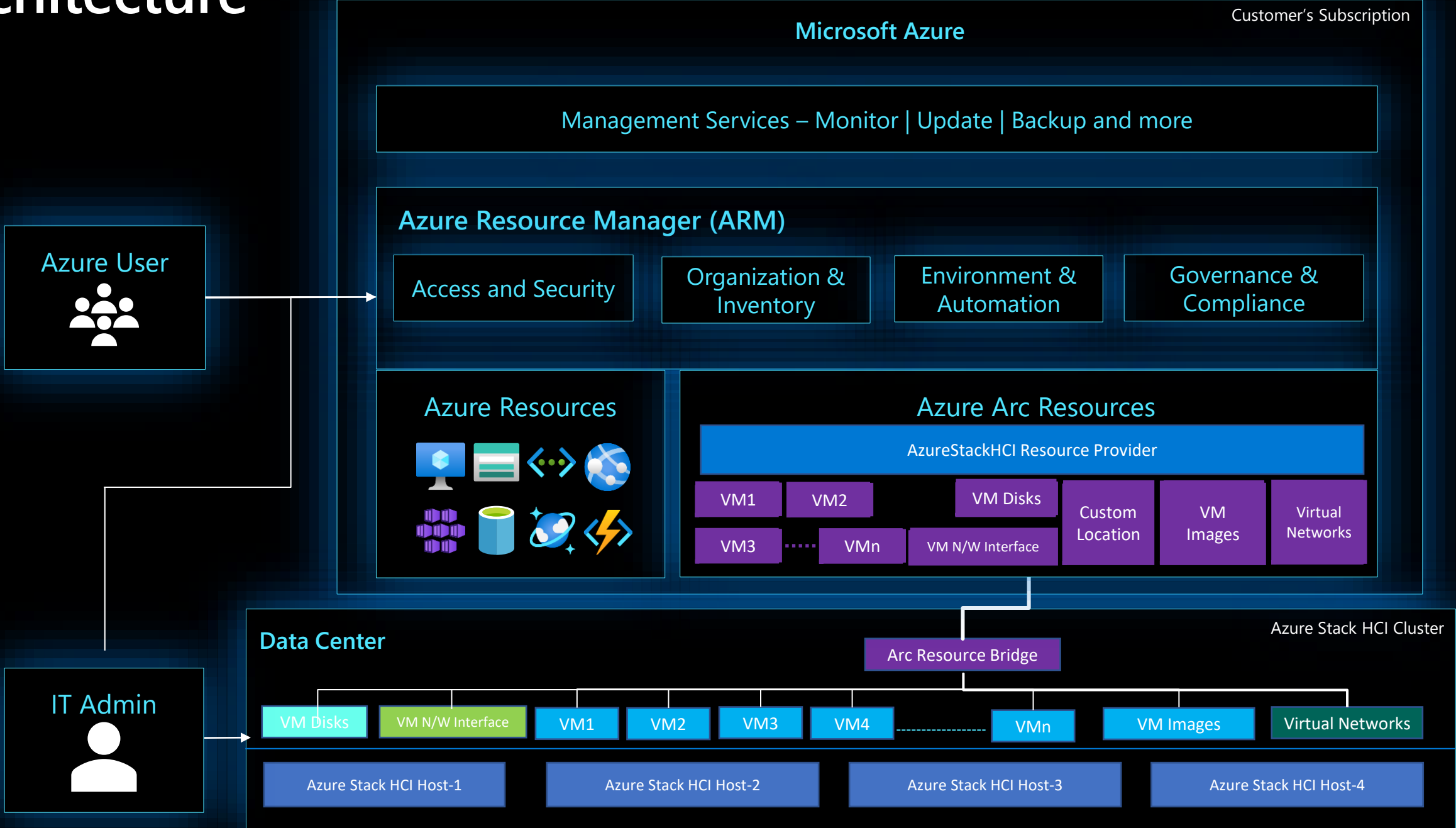
Search

+ 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 ...

Architecture



Verfügbare Images

Name	Publisher	Offer	SKU	latest version
Windows Server 2022 Datacenter: Azure Edition	microsoftwindowsserver	windowsserver	2022-datacenter-azure-edition	20348.1547.230207
Windows Server 2022 Datacenter: Azure Edition Core	microsoftwindowsserver	windowsserver	2022-datacenter-azure-edition-core	20348.1487.230207
Windows 11 Enterprise multi-session, version 21H2	microsoftwindowsdesktop	windows-11	win11-21h2-avd	22000.1574.230207
Windows 11 Enterprise multi-session, version 22H2	microsoftwindowsdesktop	windows-11	win11-22h2-avd	22621.1265.230207
Windows 10 Enterprise multi-session, version 21H2	microsoftwindowsdesktop	windows-10	win10-21h2-avd	19044.2604.230207
Windows 11 Enterprise multi-session + Microsoft 365 Apps, version 21H2	microsoftwindowsdesktop	office-365	win11-21h2-avd-m365	22000.1455.230110
Windows 10 Enterprise multi-session, version 21H2 + Microsoft 365 Apps	microsoftwindowsdesktop	office-365	win10-21h2-avd-m365	19044.2486.230110

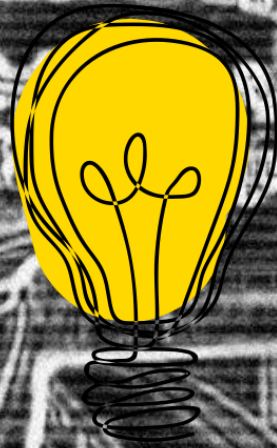


Fragen aus der Community



Ausblick & Events

Azure Stack HCI Show



Manfred Helber

MVP Cloud and Datacenter
Trainer and Consultant
Manfred Helber GmbH

Nächster Termin: 17.03.2023
12:00 bis 13:00 Uhr

Sven Langenfeld

Azure Stack HCI
Commercial Sales Specialist
Microsoft DACH



MVP Microsoft®
Most Valuable
Professional

Hybrid Show



MVP Microsoft®
Most Valuable
Professional

PRIVATE

HYBRID

PUBLIC

Nächster Termin am 17.03.2023 um 14:00 Uhr



The Hybrid Cloud Conference

by Manfred Helber GmbH

25. bis 27. April 2023
Würzburg



Manfred Helber

Microsoft Most Valuable Professional
Cloud & Datacenter, Geschäftsführer

Manfred Helber GmbH



Sven Langenfeld

Senior Azure Stack HCI Commercial
Sales Specialist

Microsoft Deutschland GmbH



Alexander Orth

Microsoft Deutschland GmbH



Heiko Jung

Systems Architect Consulting
Infrastructure Solutions

Fujitsu Technology Solutions GmbH



Patrick Heyde

Senior Datacenter & Cloud Specialist
Microsoft Deutschland GmbH



Thomas Röttinger

Principal PM Manager, Azure Edge &
Platform Division
Microsoft Deutschland GmbH



<https://www.manfredhelber.de/hybrit-conference/>

Hybrid Workshop

Dreitägiger technischer Live-Demo Workshop

13.06.2023 – 15.06.2023

Zweck:

Der Weg in die Cloud ist nicht schwarz-weiß. Nicht alle Workloads passen in die Public Cloud, aber einige Workloads ergeben in einer On-Premises Landschaft keinen Sinn. Daher läuft es in vielen Umgebungen auf eine hybride Infrastruktur hinaus. Doch wie fängt man eine solche Implementierung eigentlich an? Welche Voraussetzungen gilt es zu klären? Wie funktioniert das alles? Ziel dieses Workshops ist es, diese Fragen zu klären und darüber hinaus am praktischen Beispiel die Konfiguration live zu zeigen.

Durchführung:

Der Workshop wird von den beiden Hybrid Cloud Experten und Microsoft Most Valuable Professionals (MVP) Manfred Helber und Eric Berg durchgeführt – Remote und in deutscher Sprache, inkl. vieler Live-Demos

Ergebnis:

Ziel des Workshops ist es, den Teilnehmenden den Einstieg in die Hybrid Cloud zu ermöglichen. Konzepte sollen verstanden, Services richtig eingeplant werden, unterstützt durch die vielen Live-Demos und umfangreichen Praxistipps der beiden Referenten.

Voraussetzung:

Teilnehmende sollten fundierte Grundkenntnisse im Bereich des Infrastruktur-Managements und ein Grundverständnis von Cloud Computing mitbringen.

Wir informieren Sie gerne: anfrage@manfredhelber.de

Zielgruppe:

Dieser Workshop richtet sich an alle, die den Weg in die Hybrid Cloud wagen und vom umfangreichen Know-How von Manfred Helber und Eric Berg profitieren wollen.



Manfred Helber



Eric Berg



<https://www.manfredhelber.de/hybrid-workshop/>



Vielen Dank!

Die Azure Arc Show



Alexander Ortha



Manfred Helber

Nächster Termin:

24.04.2022 um 16:00 Uhr