Die Azure Arc Show

Alexander Ortha

Manfred Helber

13. Februar 2023 # 15 Uhr

Die Möglichkeiten von Azure Arc, Azure Stack HCI und Azure

Willkommen

News Ecke

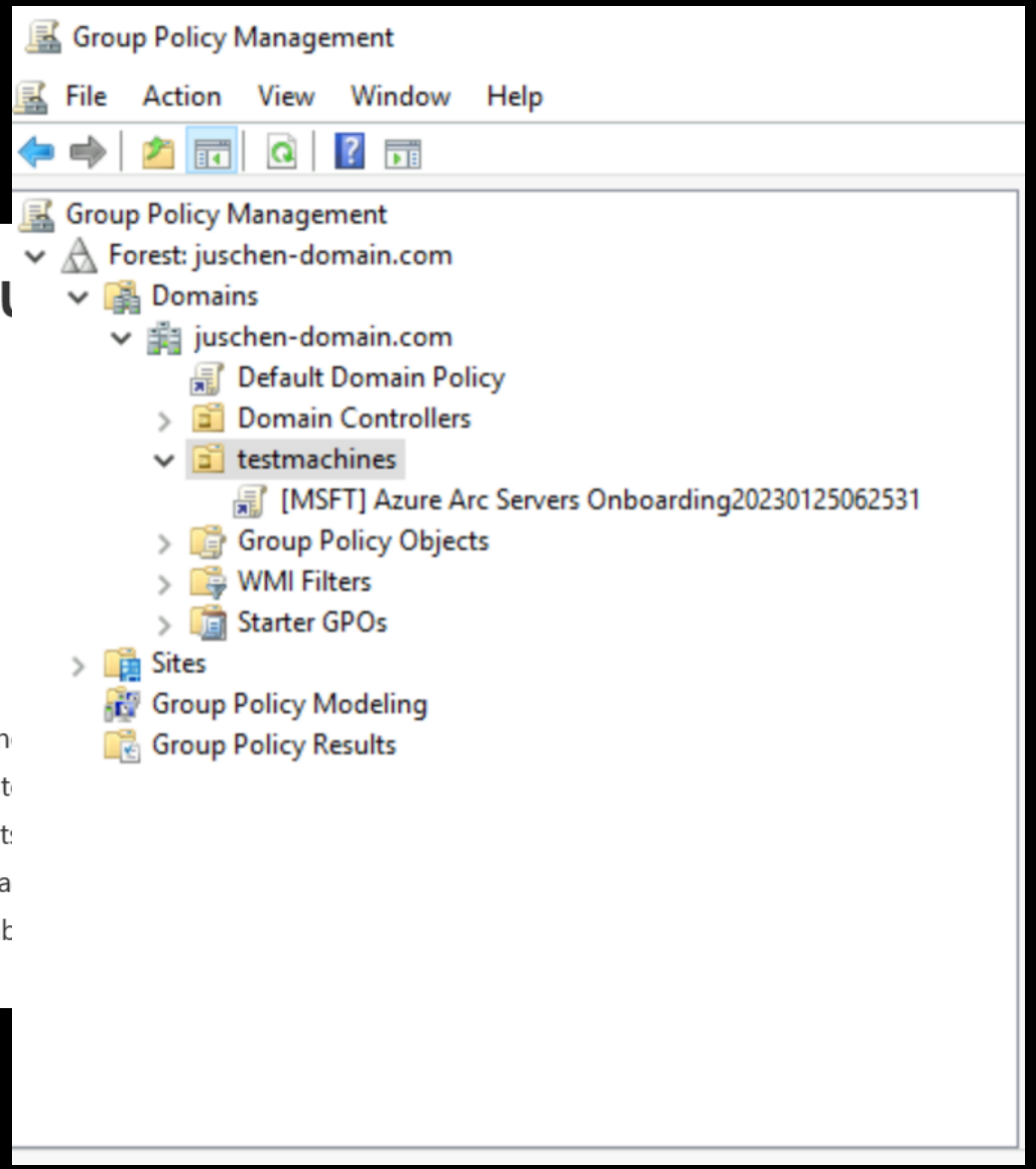
Secure, scalable, and simple onboarding to Azu

Arc-enabled servers using Group Policy

By aurnovcy

Published Jan 31 2023 09:40 AM 470 Views

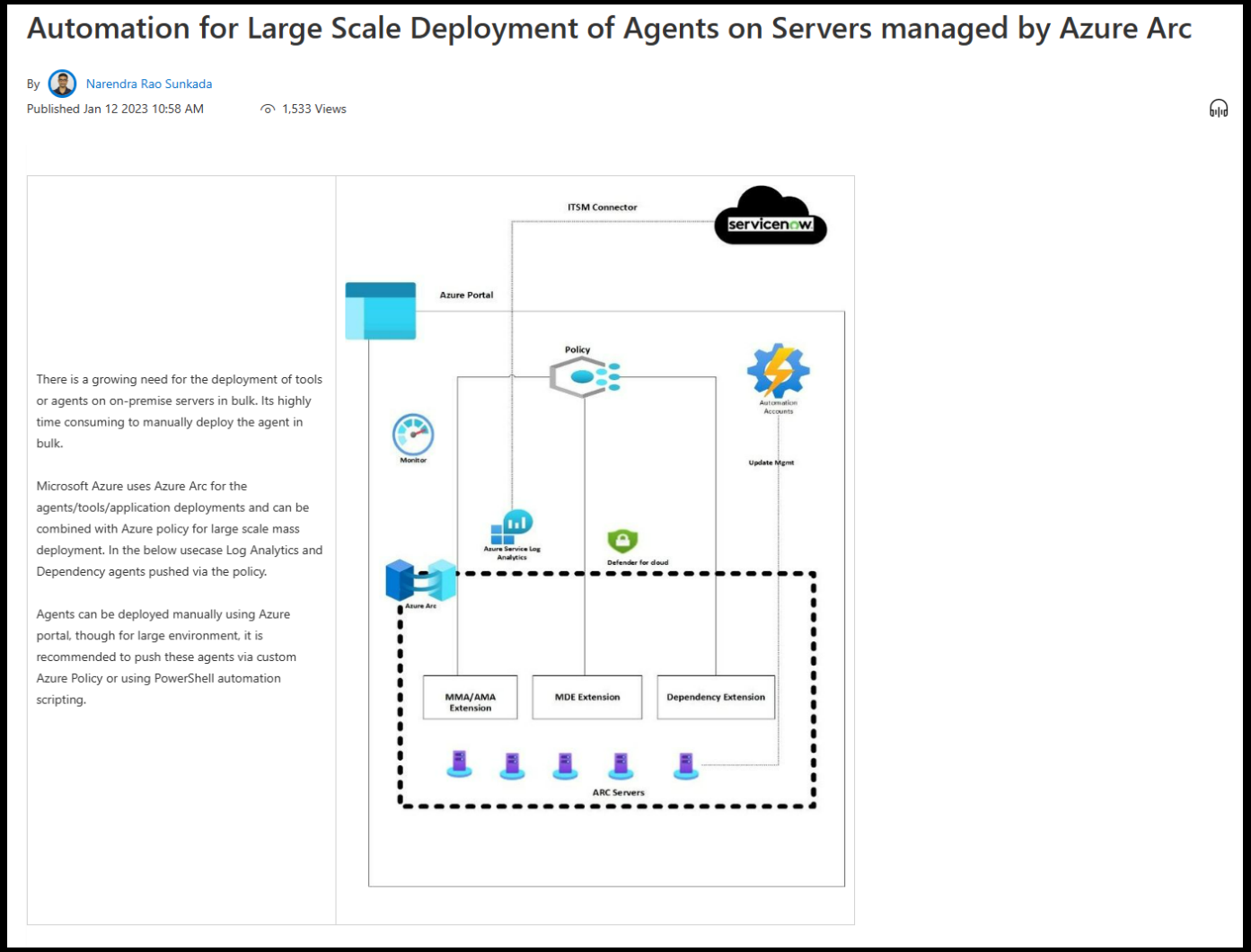
Whether its Microsoft Defender for Cloud's Security Posture Management capabilities or Azure Automanage Machin
governance capabilities or Update Management Center's patching capabilities, Azure Arc-enabled servers helps cust
compliance across their hybrid infrastructure. With thousands of servers spread across subsidiaries and environment
inventory needed to onboard to Azure Arc. Yet one solution, a favorite among our customers, most often traverses a
it, that solution is Active Directory. Using Active Directory's Group Policy engine, IT admins can point and click to onb
servers to Azure Arc.



[Secure, scalable, and simple onboarding to Azure Arc-enabled servers using Group Policy (microsoft.com)]

Deployment Arc Extensions

Deployment using Azure Policy
Deployment using Powershell Script



Automation for Large Scale Deployment of Agents on Servers managed by Azure Arc

By Narendra Rao Sunkada
Published Jan 12 2023 10:58 AM 1,533 Views

There is a growing need for the deployment of tools or agents on on-premise servers in bulk. Its highly time consuming to manually deploy the agent in bulk.

Microsoft Azure uses Azure Arc for the agents/tools/application deployments and can be combined with Azure policy for large scale mass deployment. In the below usecase Log Analytics and Dependency agents pushed via the policy.

Agents can be deployed manually using Azure portal, though for large environment, it is recommended to push these agents via custom Azure Policy or using PowerShell automation scripting.

[VM extension management with Azure Arc-enabled servers - Azure Arc | Microsoft Learn]

[Automation for Large Scale Deployment of Agents on Servers managed by Azure Arc - Microsoft Community Hub]

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.

Azure security baseline for Azure Arc-enabled servers | Microsoft Learn
via Azure Policy

Security baseline settings for Azure Stack HCI (preview)

Article • 01/19/2023 • 4 minutes to read • 4 contributors

Feedback

> Applies to: Azure Stack HCI, Supplemental Package

This article describes the security baseline settings associated with your Azure Stack HCI cluster, the associated drift control mechanism, and baseline management.

Azure Stack HCI is a secure-by-default product and has more than 200 security settings enabled right from the start. These settings provide a consistent security baseline and ensure that the device always starts in a known good state.

Security baseline settings on Azure Stack HCI (preview) - Azure Stack HCI | Microsoft Learn
via Azure Stack HCI Supplemental Package

Azure Container Apps on Azure Arc enabled Kubernetes – Run your container apps anywhere

Subscribe

By Andrew Westgarth

Published Dec 14 2022 10:00 AM 4,407 Views

Today, we are announcing the Technical Preview of the ability to run Azure Container Apps on Azure Arc enabled Kubernetes Clusters, targeting AKS and AKS-HCI.

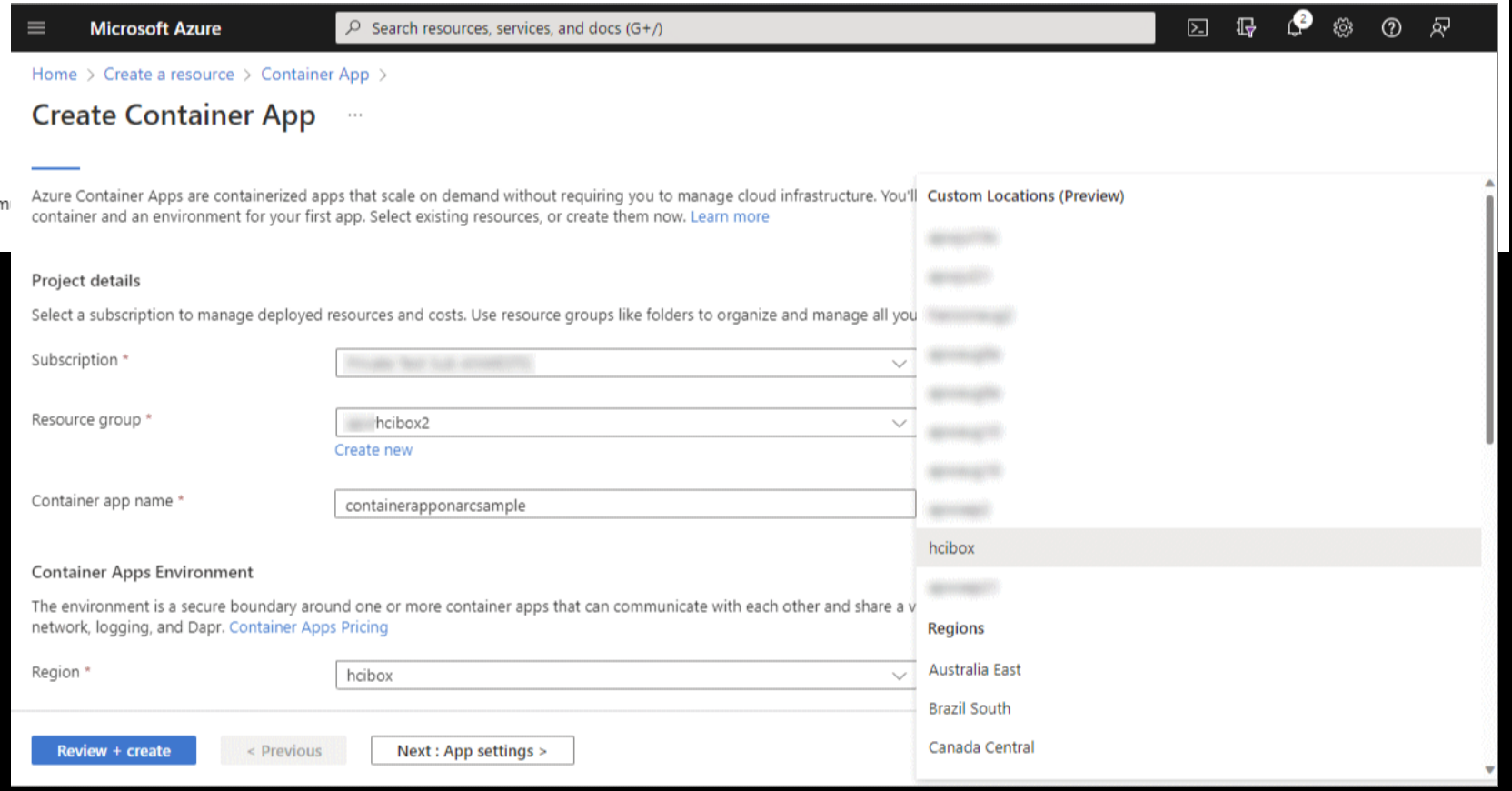
Azure Container Apps enables developers to rapidly build and deploy microservices and containerized applications. Developers can leverage the highly optimized developer productivity capabilities of Azure Container Apps without dealing with the complexity of Kubernetes, while Operators are able to provide developers with a highly productive platform but retain the ultimate control of the underlying Kubernetes cluster(s).

Common uses of Azure Container Apps include:

- Deploying API endpoints
- Hosting background processing applications
- Handling event-driven processing
- Running microservices

Run your container apps anywhere with Azure Arc

As developers begin to target more environments on-premises, on the edge, or m
only exist due to hosting environment changes is unproductive and unreliable.



[Azure Container Apps on Azure Arc enabled Kubernetes – Run your container apps anywhere - Microsoft Community Hub]

[Container Apps on Azure Arc Overview | Microsoft Learn]

Best practices / Architecture guidelines for Azure Arc

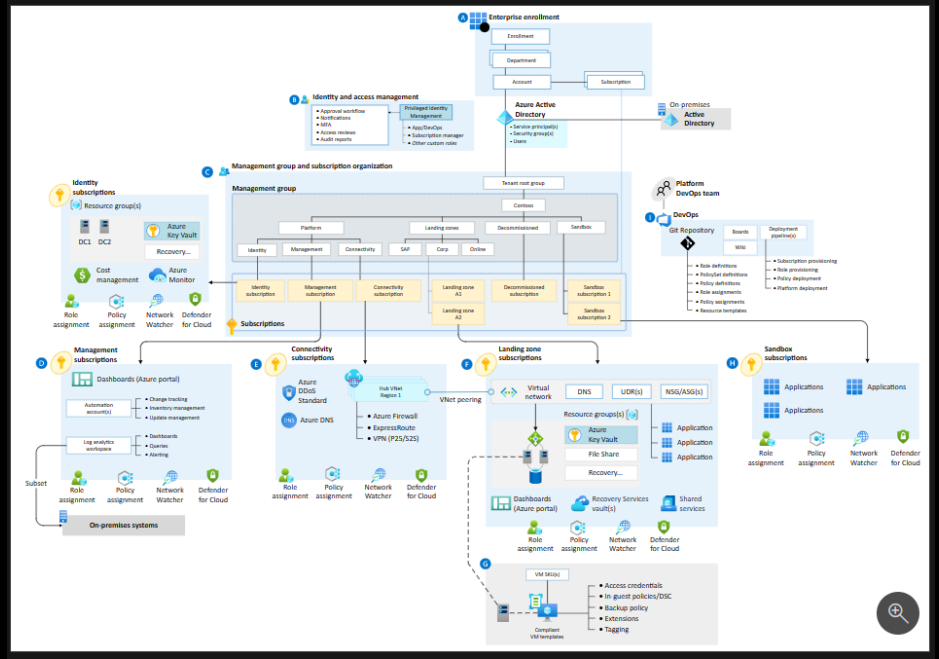
Introduction to Azure Arc landing zone accelerator for hybrid and multicloud

Article • 12/01/2022 • 7 minutes to read • 17 contributors

Feedback

Enterprises are currently building and running applications across various ecosystems on-premises, in multiple public clouds, and on the edge. When you're working in these distributed environments, it's critical that you find a way to ensure compliance and manage servers, applications, and data at scale while you still maintain agility.

Azure landing zones provides a specific architectural approach, reference architecture, and set of reference implementations that help you prepare your landing zones for mission-critical technology platforms and supported workloads.



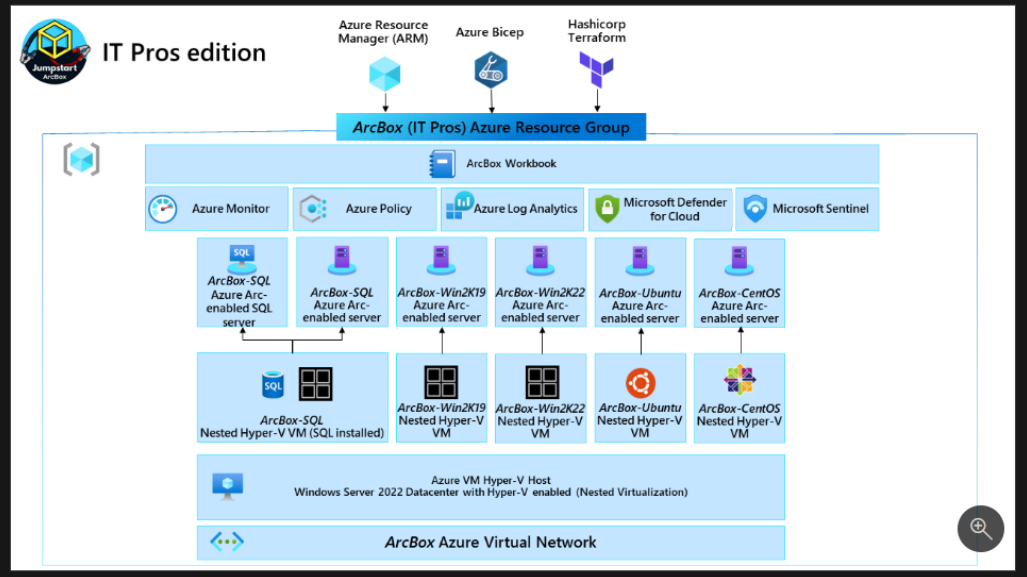
[Introduction to Azure Arc landing zone accelerator for hybrid and multicloud - Cloud Adoption Framework | Microsoft Learn]

Manage configurations for Azure Arc-enabled servers

Arc | Monitor | Policy | Azure Resource Manager | Virtual Machines

This reference architecture illustrates how Azure Arc enables you to manage, govern, and secure servers across on-premises, multicloud, and edge scenarios, and is based on the Azure Arc Jumpstart ArcBox for IT Pros implementation. ArcBox is a solution that provides an easy to deploy sandbox for all things Azure Arc. ArcBox for IT Pros is a version of ArcBox that is intended for users who want to experience Azure Arc-enabled servers capabilities in a sandbox environment.

Architecture



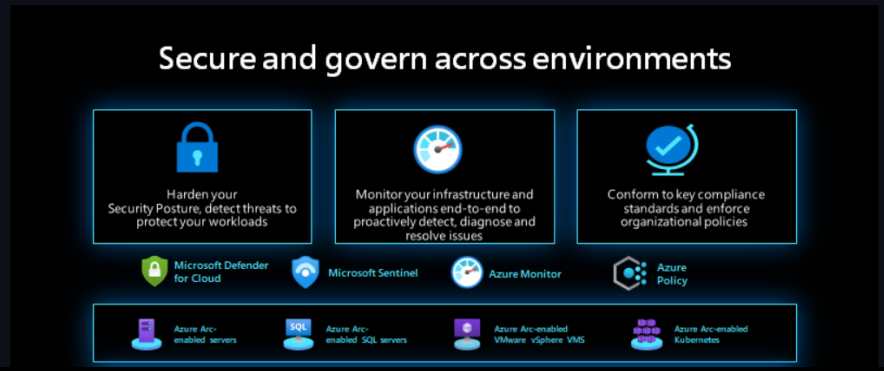
[Azure Arc-enabled server configurations - Azure Architecture Center | Microsoft Learn]

MicroHack Azure Arc for Servers

MicroHack introduction

What is Azure Arc?

For customers who want to simplify complex and distributed environments across on-premises, edge, and multi-cloud, Azure Arc enables deployment of Azure services anywhere and extends Azure management to any infrastructure. Azure Arc helps you accelerate innovation across hybrid and multi-cloud environments and provides the following benefits to your organization:



[MicroHack/03-Azure/01-03-Infrastructure/02_Hybrid_Azure_Arc_Servers at main · microsoft/MicroHack (github.com)]

Home / Azure Arc / Azure Arc-enabled Servers

Azure Arc-enabled Servers

Two day challenge hack going deeper on operations and management for Azure Arc-enabled servers.

Introduction

This is a two day hack to get you skilled up in the various aspects of using Azure Arc to onboard VMs outside of Azure and leverage the management plane and range of services to transform how you manage your hybrid estates.

> The hack is used in the UK to enable partners and those partners will make use of Azure Passes with pre-created resources to accelerate the hack. You are absolutely free to reuse the content yourself as it is 100% public, including the repository used to create the "on prem" resources.

The hack is a challenge hack, so each section gives you a number of challenges to meet, plus a set of links for your reference. As you complete each section you will screen share with your proctor to confirm the success criteria has been met before moving on to the next section.

Content

Prereqs
Attending an Azure Arc for Management & Governance hack? If so then complete these first.

Scenario
Your customer, Wide World Importers, would like a small proof of concept before moving forward with a larger Azure Arc project. Get the background and their initial requirements.

Hack Overview
Brief overview covering the flow of labs within this hack.

Azure Landing Zone
Deploy a default Azure Landing Zone using the Bicep repo.

Arc Pilot resource group
Create a target resource group, plus a few resources and tag inheritance policies.

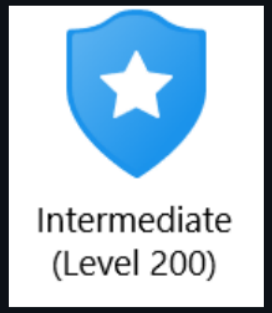
Azure Monitoring Agent
Summary of the switch from legacy agents (MMA, Dependency) to the Azure Monitor Agent. Enable VM Insights with the AMA.

Additional policy assignments
Explore some of the other built-in and custom policies for Azure Arc-enabled servers. Assign a few additional policies.

[Azure Arc-enabled Servers • Azure Citadel Hybrid Azure Arc and Management Partner Hack – Cloud Computing with a side of Chipz (jonnychipz.com)]

[Microsoft-Defender-for-Cloud/Module 16 - Protecting On-Prem Servers in Defender for Cloud.md at main · Azure/Microsoft-Defender-for-Cloud (github.com)]

Module 16 – Protecting On-Prem Servers in Defender for Cloud



🤷 **Authors:**

Alexander Ortha Github, Linkedin

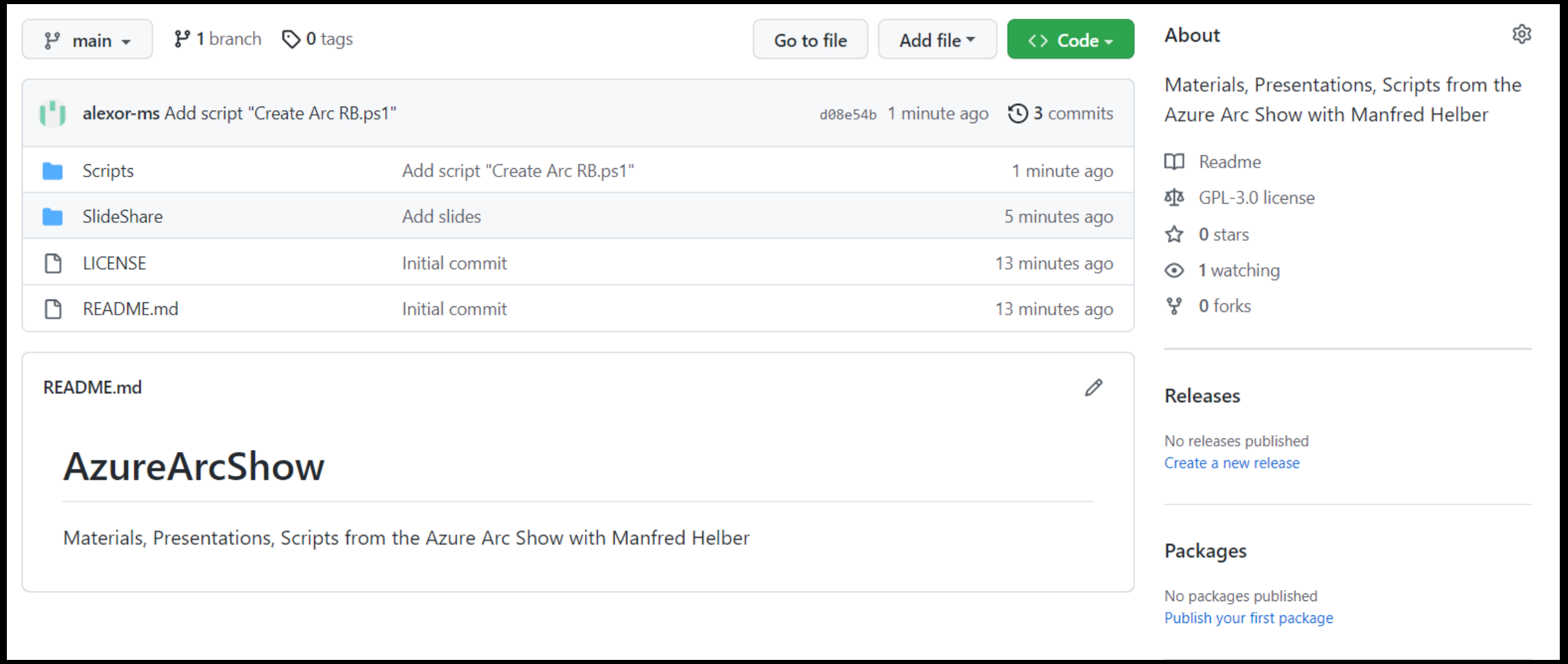
Liana Tomescu Github, Linkedin

🎓 **Level: 300 (Intermediate)**

⏳ **Estimated time to complete this lab: 120 minutes**

Objectives

In this exercise, you will learn how to deploy an server on your personal client machine using Hyper-V (which will act as the "on-premise server"), and then deploy Azure Arc on it in order to protect it using Microsoft Defender for Cloud.



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

Lernkurve rund um Azure Arc

SHOW

Azure Hybrid and Multicloud

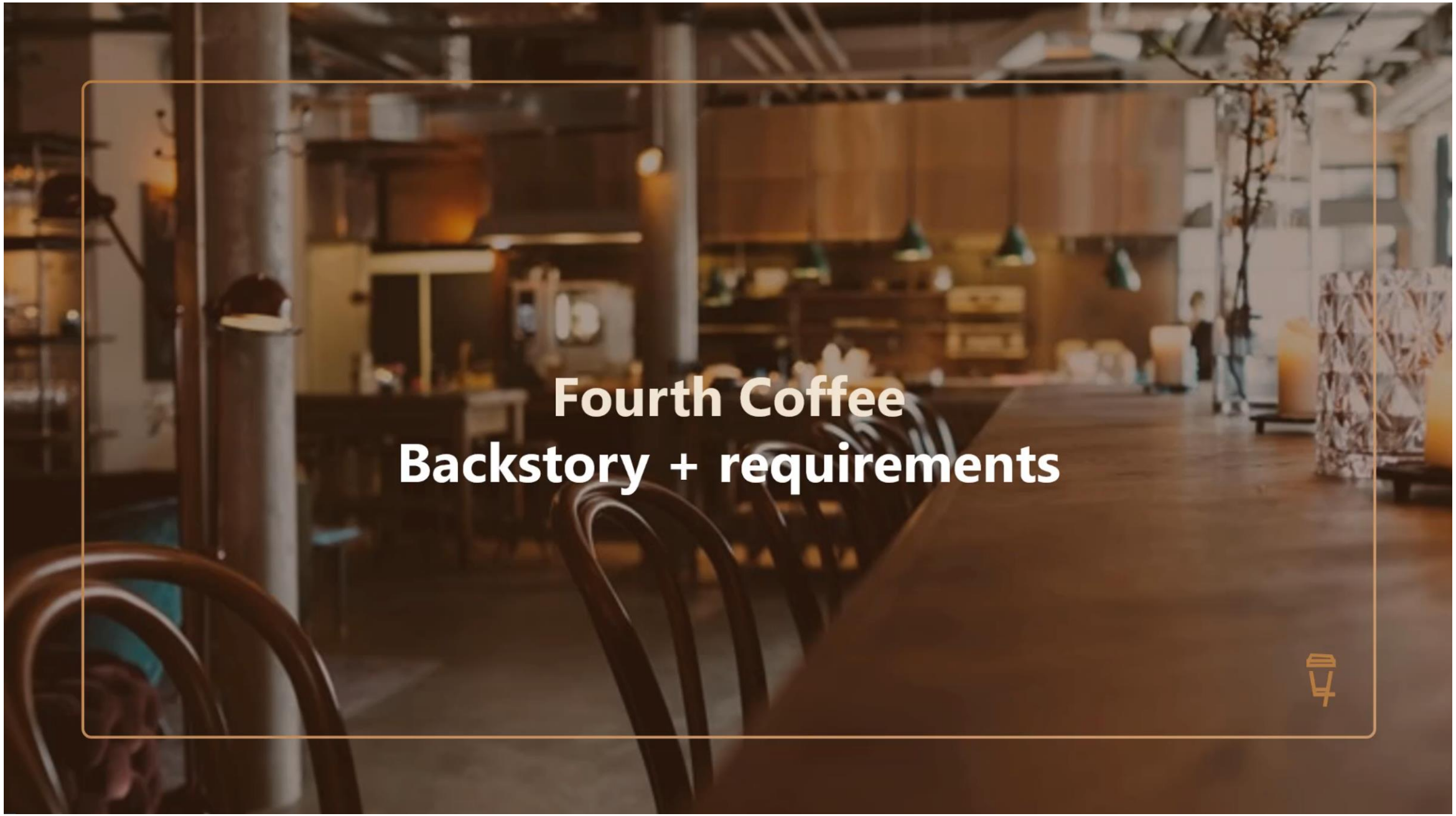
Last episode: 2 months ago • English

The Azure Hybrid and Multicloud video channel. Learn more about Azure Arc, Azure Stack and other hybrid and multicloud sol
Microsoft. You can learn more about Azure Arc on Microsoft Docs

https://aka.ms/AzureHybridShow

For Retail customers: end-to-end demo of AzHCI, AKS on HCI (AKS Hybrid) with GitOps integration

Retail Edge Transformation with Azure Hybrid | Microsoft Learn


Fourth Coffee
Backstory + requirements

New locations!

Fremont
Café

U-District
Café

Capitol Hill
Café

Belltown
Café

SoDo
Roastery


Let’s review

Microsoft Azure

Learn more at
azure.com/hybrid

Fragen aus der Community

Ausblick & Events

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? Wir funktioniert das alles? Ziel dieses Workshops ist es, diese Fragen zu klären und darüber hinaus am praktischen Beispiel die Konfiguration live zu zeigen.

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.

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

Manfred Helber

Eric Berg

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

Vielen Dank!

Die Azure Arc Show

Alexander Ortha

Manfred Helber

Nächster Termin:

27.02.2022 um 16:00 Uhr