



Microsoft Azure Arc Webinar Series

Webinar ONE:
Introduction to Microsoft Azure Arc for Beginners



-
- 
- ❖ Introduction (5 min)
 - ❖ What is Microsoft Azure Arc (20 minutes)
 - ❖ Installation & Configuration – The Basics (25 minutes)
 - ❖ Refreshment break (10 minutes)
 - ❖ Microsoft Azure Arc Services (30 minutes)
 - ❖ Demo Time: Your First Use Case [aka IT Pro] (20 minutes)
 - ❖ Q&A Time (10 minutes)

Introduction

(5 minutes)

About the Webinar

Begin your journey with Microsoft Azure Arc in this comprehensive beginner's webinar.

Unfold the vast array of Azure Arc services, including Arc Jump Start and its various tailored flavors tailored

Explore the core concepts of Azure Arc and understand its significance in hybrid and multi-cloud environments.

Conclude with a focus on basic use cases, from resource management to governance.

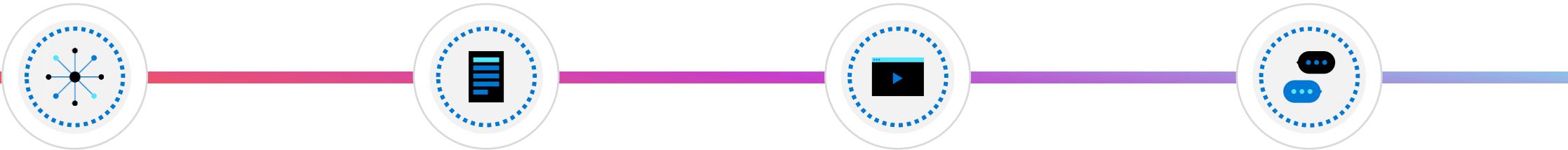
Dive deep into installation and configuration essentials, from licensing requirements to connecting on-premises servers.

Join us for a captivating 2-hour session, followed by a dedicated Q&A segment to address your queries.

What is Microsoft Azure Arc?

20 minutes)

An overview of Azure Arc and its core concepts



Azure Arc is a bridge that extends the Azure platform to help you build applications and services with the flexibility to run across datacenters, at the edge, and in multicloud environments.

Develop cloud-native applications with a consistent development, operations, and security model.

Azure Arc runs on both new and existing hardware, virtualization and Kubernetes platforms, IoT devices, and integrated systems.

Do more with less by leveraging your existing investments to modernize with cloud-native solutions.

An overview of Azure Arc and its core concepts

- Consistent development and operation experience to run cloud-native apps anywhere and on any Kubernetes platform.
- Deployment of data services like SQL and PostgreSQL as cloud-native services in your preferred environment for data insights.
- Azure security and governance for applications, data, and infrastructure across diverse environments.
- Flexible infrastructure and connectivity options to meet your regulatory and latency requirements.

Develop cloud-native apps and operate them anywhere

- Build and modernize cloud-native apps on any Kubernetes.
- Integrate Azure monitoring, security, and compliance into your DevOps toolkit.
- Reduce errors and accelerate innovation with GitOps and policy-driven deployment and configuration across environments.
- Get up and running immediately with your existing tools and practices including GitHub, Terraform, and Visual Studio.
- Write to the same application service APIs that can run consistently on premises, across multiple clouds, and in edge environments using any Kubernetes.
- Optimize costs with Azure Hybrid Benefit to run Azure Kubernetes Service on Windows Server and Azure Stack HCI at no additional cost for Windows Server Software Assurance or CSP subscription customers.

Harness data insights from the cloud to the edge

- Create applications faster with an end-to-end solution from local data collection, storage, and real-time analysis.
- Reduce management overhead and risk exposure through integrated security and governance tools for data.
- Improve operational efficiency through consistent data and AI tools, services, and automations.
- Deploy [Azure Arc-enabled SQL Managed Instance or PostgreSQL](#) (in preview) on any Kubernetes distribution and on any cloud.
- Get started in minutes with one-click deployment of the managed machine learning add-on, and train models on any Kubernetes cluster [with Azure Machine Learning](#).

Secure and govern applications, data, and infrastructure across diverse environments

- Get Extended Security Updates enabled by Azure Arc to secure and patch your Windows Server 2012/R2 and SQL Server 2012 resources.
- Govern your disparate environments through the Azure portal to simplify multicloud management and drive operational efficiencies.
- Use cloud-based threat detection, response, and analytics with [Microsoft Defender for Cloud](#).
- Centrally manage a wide range of resources including [Windows Server on Azure](#), [Linux on Azure](#), SQL server, [Azure Kubernetes Service](#), and [Azure Arc-enabled data services](#).
- Perform virtual machine (VM) lifecycle management for your [Azure Stack HCI](#) and VMware environments from a centralized location.
- Delegate access and manage security policies for resources using role-based access control (RBAC) and [Azure Lighthouse](#).

Meet regulatory and connectivity needs with flexibility

- Meet residency and sovereignty needs with a variety of infrastructure options including Azure Stack HCI.
- Meet [governance](#) and compliance standards for apps, infrastructure, and data with [Azure Policy](#).
- Get simplified edge computing infrastructure for low-latency applications.
- Operate with full, intermittent, or no internet connection.

Importance in hybrid cloud environments

- **Best of Both Worlds:** A hybrid cloud refers to a storage and computing infrastructure composed of a mixture of private cloud services, a public cloud, and/or on-premises infrastructure. This setup allows an organization to leverage the advantages of both private and public clouds.
- **Flexibility and Control:** A hybrid cloud platform provides greater flexibility, control, and scalability. It offers more deployment options and global scale.
- **Security and Compliance:** It ensures integrated cross-platform security and unified compliance. It's important to ensure the security of your hybrid cloud environment.
- **Efficiency:** Hybrid clouds improve workload, operational, and cost efficiencies across the enterprise, consistently achieving more value from existing infrastructure.
- **Workload Mobility:** A hybrid cloud environment aids in workload mobility, integration, and management across multiple computing environments.

Importance of multi cloud environment

- **Flexibility and Agility:** Multi-cloud environments allow businesses to choose the best cloud services for their specific needs, not being tied down to the offerings of a single provider.
- **Risk Mitigation:** By distributing operations across multiple cloud platforms, businesses can ensure uninterrupted services, mitigating the risk of downtimes.
- **Cost Efficiency:** Different cloud providers have different pricing models. By strategically distributing workloads across various providers, businesses can optimize costs.
- **Innovation and Speed:** Multi-cloud environments allow businesses to leverage the best features from each cloud provider, leading to faster deployment of services and an overall boost in operational efficiency.
- **Regulatory Compliance:** Multi-cloud strategies allow businesses operating in multiple regions to store data in specific regions to comply with local data protection regulations.

Installation & Configuration Basics

(25 minutes)



Licensing Requirements

- **Prerequisites:** You need to install the Connected Machine agent to onboard a physical server or virtual machine to Azure Arc-enabled servers. Azure Arc supports various Windows and Linux operating systems.
- **Licensing:** Azure Arc offers its core control plane at no cost to customers, while preserving consistent pricing on all management and services originated from Azure.

However, specific Azure Arc-enabled services like Azure Arc-enabled SQL Server, Azure Arc-enabled SQL Managed Instance, and Azure Arc-enabled PostgreSQL will be charged consistently as in the original Azure services.

Licensing Requirements

- **Extended Security Updates:** Microsoft provides Extended Security Updates enabled by Azure Arc for Windows Server 2012/R2 and SQL Server 2012.

With Azure Arc, organizations can purchase and seamlessly deploy Extended Security Updates in on-premises or multicloud environments, right from the Azure portal.

- **Azure Hybrid Benefit:** If you have Windows Server or SQL Server core licenses with Software Assurance or a subscription to these products, you can use the Azure Hybrid Benefit.

Step-by-step guide to installing Azure Arc | Prerequisites

Step 1 – create Azure Account with an active subscription

Step 2 – prepare accounts with permission of desired machine (root for Linux, local admin for Windows)

Step 3 – register resource providers on your subscription:

- *Microsoft.HybridCompute*
- *Microsoft.GuestConfiguration*
- *Microsoft.HybridConnectivity*
- *Microsoft.AzureArcData*

Step-by-step guide to installing Azure Arc | Prerequisites

Step 4 – review agent prerequisites:

- supported operating system
- assigned RBAC roles
- location of machine in supported region
- check if hostname (linux) and computer name (windows) do not contain reserved words
- check firewall traffic to appropriate url's

Step-by-step guide to installing Azure Arc | Installing Agents

From Azure Portal > type Aazure Arc (or Arc) > choose single server

--

In later steps you fill data from prerequisites part

Home >

Add servers with Azure Arc

Servers - Azure Arc

Azure Arc allows you to use Azure tools to manage on-premises servers and servers from other clouds. We'll start with some prerequisites and deploy the Azure Connected Machine agent. [Learn more](#)

Add a single server

This option will generate a script to run on your target server. The script will prompt you for your Azure login, so this option is best for adding servers one at a time.

[Generate script](#) [Learn more](#)

Add multiple servers

To add multiple servers to Azure, we will generate a script that handles authentication through a service principal. You will see that and other prerequisites next.

[Generate script](#) [Learn more](#)

Add servers from Update Management (preview)

Non-Azure servers managed by the Update Management service can be easily connected to Azure via Azure Arc. Once you have selected the servers, the deployment will happen automatically.

[Add servers](#) [Learn more](#)

Add servers with Azure Migrate

Discover servers in your VMware vSphere environment and automatically add them to Azure Arc with the Azure Migrate: Discovery and assessment tool.

[Learn how to add servers with Azure Migrate](#)

Step-by-step guide to installing Azure Arc | Installing Agents (1) | Windows

```
try {
    $env:SUBSCRIPTION_ID = "85528a56-3137-423d-aa23-";
    $env:RESOURCE_GROUP = "SHAc-TheArk";
    $env:TENANT_ID = "1a7315f1-279a-447f-a639-";
    $env:LOCATION = "canadacentral";
    $env:AUTH_TYPE = "token";
    $env:CORRELATION_ID = "95ab8b6e-2acc-4578-b39f-";
    $env:CLOUD = "AzureCloud";

[Net.ServicePointManager]::SecurityProtocol = [Net.ServicePointManager]::SecurityProtocol -bor 3072;

# Download the installation package
Invoke-WebRequest -UseBasicParsing -Uri "https://aka.ms/azcmagent-windows" -TimeoutSec 30 -OutFile
"$env:TEMP\install_windows_azcmagent.ps1";
```

Step-by-step guide to installing Azure Arc | Installing Agents (2) | Windows

```
# Install the hybrid agent
& "$env:TEMP\install_windows_azcmagent.ps1";
if ($LASTEXITCODE -ne 0) { exit 1; }

# Run connect command
& "$env:ProgramW6432\AzureConnectedMachineAgent\azcmagent.exe" connect --resource-group
"$env:RESOURCE_GROUP" --tenant-id "$env:TENANT_ID" --location "$env:LOCATION" --subscription-id
"$env:SUBSCRIPTION_ID" --cloud "$env:CLOUD" --tags
>Datacenter=SHACHQ,City=HUCKNALL,StateOrDistrict=NOTTS,CountryOrRegion=ENGLAND,Location=Brexitland,Project=Azur
eArc" --correlation-id "$env:CORRELATION_ID";
}
catch {
    $logBody =
@{subscriptionId="$env:SUBSCRIPTION_ID";resourceGroup="$env:RESOURCE_GROUP";tenantId="$env:TENANT_ID";location=
"$env:LOCATION";correlationId="$env:CORRELATION_ID";authType="$env:AUTH_TYPE";operation="onboarding";messageTyp
e=$_.FullyQualifiedErrorId;message="$_"};
    Invoke-WebRequest -UseBasicParsing -Uri "https://gbl.his.arc.azure.com/log" -Method "PUT" -Body ($logBody |
ConvertTo-Json) | out-null;
    Write-Host -ForegroundColor red $_.Exception;
}
```

Step-by-step guide to installing Azure Arc | Installing Agents (2) | Linux

```
export subscriptionId="85528a56-3137-423d-           ";
export resourceGroup="SHAc-TheArk";
export tenantId="1a7315f1-279a-447f-a639-           ";
export location="canadacentral";
export authType="token";
export correlationId="95ab8b6e-2acc-4578-b39f-           ";
export cloud="AzureCloud";
```

Step-by-step guide to installing Azure Arc | Installing Agents (2) | Linux

```
# Download the installation package
output=$(wget https://aka.ms/azcmagent -O ~/install_linux_azcmagent.sh 2>&1);
if [ $? != 0 ]; then wget -qO- --method=PUT --body-
data='{"subscriptionId":'$subscriptionId',"resourceGroup":'$resourceGroup',"tenantId":'$tenantId',
"location":'$location',"correlationId":'$correlationId',"authType":'$authType',"operation":'onboarding',
"messageType":'DownloadScriptFailed',"message":'$output}' "https://gbl.his.arc.azure.com/log"
&> /dev/null || true; fi;
echo "$output";

# Install the hybrid agent
bash ~/install_linux_azcmagent.sh;

# Run connect command
sudo azcmagent connect --resource-group "$resourceGroup" --tenant-id "$tenantId" --location "$location" --
subscription-id "$subscriptionId" --cloud "$cloud" --tags
"Datacenter=SHACHQ,City=HUCKNALL,StateOrDistrict=NOTTS,CountryOrRegion=ENGLAND,Location=Brexitland,Project=AzureArc" --correlation-id "$correlationId";
```

Step-by-step guide to installing Azure Arc | Verify Connection

Microsoft Azure (Preview) Search resources, services, and docs (G+)

Home > Azure Arc

Azure Arc | Machines

Microsoft

Add/Create Manage view Refresh Export to CSV Open query Assign tags

Filter for any field... Subscription equals all Resource group equals all Location equals all Add filter

Have Windows Server 2012 machines? Keep machines reaching the end of their support lifecycle protected by enabling Extended Security Updates (ESUs) through Azure Arc. Go to Extended Security Updates page in Azure Arc to get started.

Showing 1 to 2 of 2 records.

Name	Kind	Host envir...	Arc agent...	Resource group	Subscription	Operating system	Defender for Cloud	Monitoring agent
ORION	Offline	SHAc-TheArk	Microsoft Partner Net...	Windows Server 2022 ...	Not enabled	Not installed	...	
SHOGANAI	Connected	SHAc-TheArk	Microsoft Partner Net...	Windows Server 2019 ...	Enabled	Installed	...	

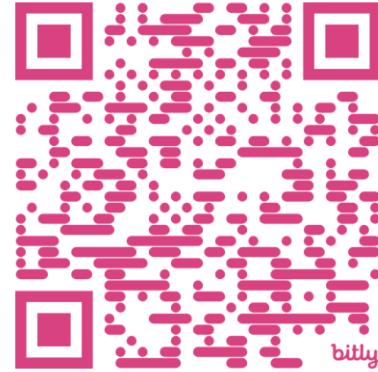


Hey Bing:
Create Refreshment Break



Azure Arc Services

(30 minutes)



Azure Arc-Enables Services

Overview of services that can be managed



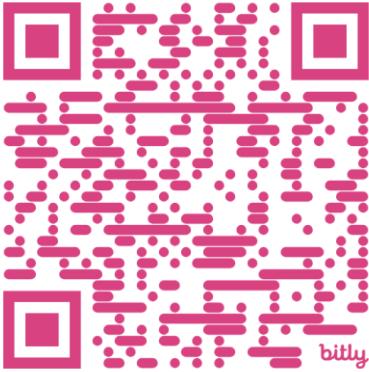
Azure Kubernetes Services

Run AKS on supported customer-managed infrastructures and deploy containerized Windows and Linux applications in datacenters and at the edge.

Create [GitOps](#) configurations to keep Kubernetes clusters in sync and automate updates for new and existing deployments. With service mesh, provide capabilities like traffic management, resiliency, policy, security, strong identity, and observability to your workloads.

LINK

<https://bit.ly/3tQvS1z>



Overview of services that can be managed

Azure Arc-Enables Services



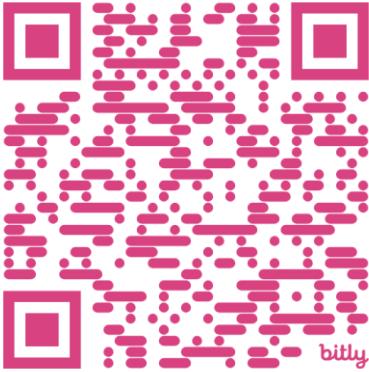
Azure Application Services

Choose from multiple application services including Azure App Service, Azure Functions, Azure Logic Apps, Azure API Management, Azure Event Grid, and Azure Container Apps.

LINK

<https://bit.ly/3Skz3sy>

© Copyright Microsoft Corporation. All rights reserved.



Overview of services that can be managed

Azure Arc-Enables Services



Azure Data Services

Deploy critical Arc-enabled data services like SQL managed instance and PostgreSQL (in preview) on premises, in the multicloud environments, or on any Kubernetes distribution.

LINK

<https://bit.ly/3SgL5mU>

Overview of services that can be managed

Azure Arc-Enabled Services



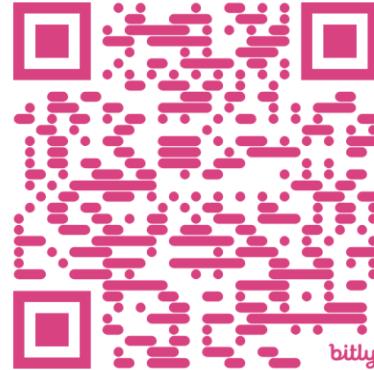
Azure Machine Learning

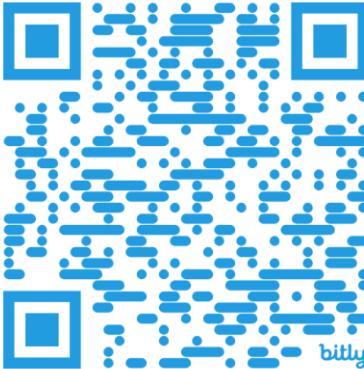
With Azure Machine Learning—training (in preview), train machine learning models and get reliability with service-level objectives.

With Azure Machine Learning—inferencing (in preview), deploy trained models using Azure Arc-enabled machine learning.

LINK

<https://bit.ly/3FGRFLO>





Azure Arc-Enabled Infrastructure

Overview of services that can be managed



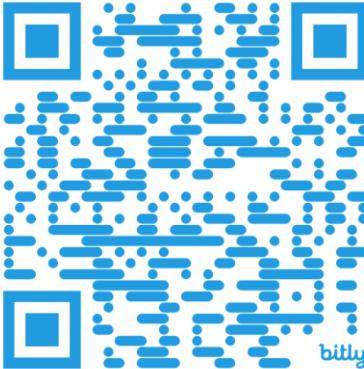
Servers

Use Linux and Windows virtual machines (VMs), bare-metal servers, and other clouds with the same server management experience across environments.

With built-in Azure policies for servers, you're able to view and search for noncompliant servers.

LINK

<https://bit.ly/45ZE64W>



Overview of services that can be managed

Azure Arc-Enables Infrastructure



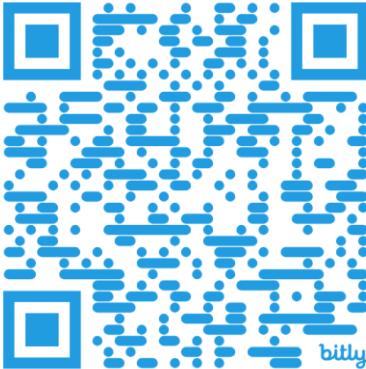
Kubernetes

Use the container platform of your choice to add built-in Kubernetes Gatekeeper policies and inventory, organize, and tag Kubernetes clusters.

Deploy apps and configuration as code using GitOps with out-of-the-box support for most CNCF (Cloud Native Computing Foundation)-certified Kubernetes.

LINK

<https://bit.ly/3Mrr6OB>



Overview of services that can be managed

Azure Arc-Enables Infrastructure



Azure Stack HCI (Hyper-Converged Infrastructure)

Extend your datacenter to the cloud and deploy compute resources as well as cloud-native apps at your remote locations and manage them in the Azure portal.

Choose from more than 25 hardware-validated partners, or re-use hardware that meets validation requirements.

LINK

<https://bit.ly/3Qkpnf5>

Overview of services that can be managed

Azure Arc-Enables Infrastructure



Vmware (Public Preview)

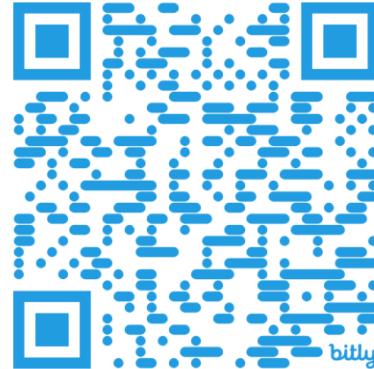
Perform full lifecycle management on VMware VMs and use Azure RBAC to provision and manage VMs on demand in the Azure portal.

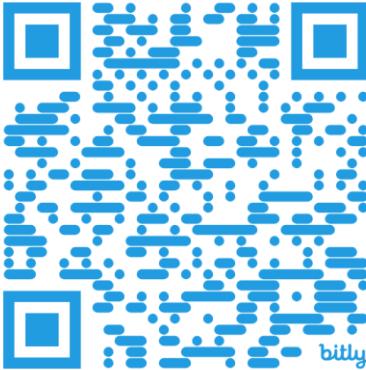
Access governance, monitoring, update management, and security at scale for VMware VMs from your datacenters or using Azure VMware Solution, Kubernetes clusters, and VMware Tanzu Application Service.

LINK

<https://bit.ly/3sc6cw7>

© Copyright Microsoft Corporation. All rights reserved.





Overview of services that can be managed

Azure Arc-Enables Infrastructure



System Center Virtual Machine Manager

Configure and manage your datacenter components as a single fabric in Virtual Machine Manager (VMM). Add, provision, and manage Hyper-V and VMware virtualization hosts and clusters.

Discover, classify, provision, allocate, and assign local and remote storage. Use VMM fabric to create and deploy VMs and services on virtualization hosts.

LINK

<https://bit.ly/3Snuez0>

Azure Arc Jumpstart

Introduction for Azure Arc Jump Start



The Azure Arc Jumpstart is designed to provide a “zero to hero” experience so you can start working with Azure Arc right away!

The Jumpstart provides step-by-step guides for independent Azure Arc scenarios that incorporate as much automation as possible, detailed screenshots and code samples, and a rich and comprehensive experience while getting started with the Azure Arc platform.

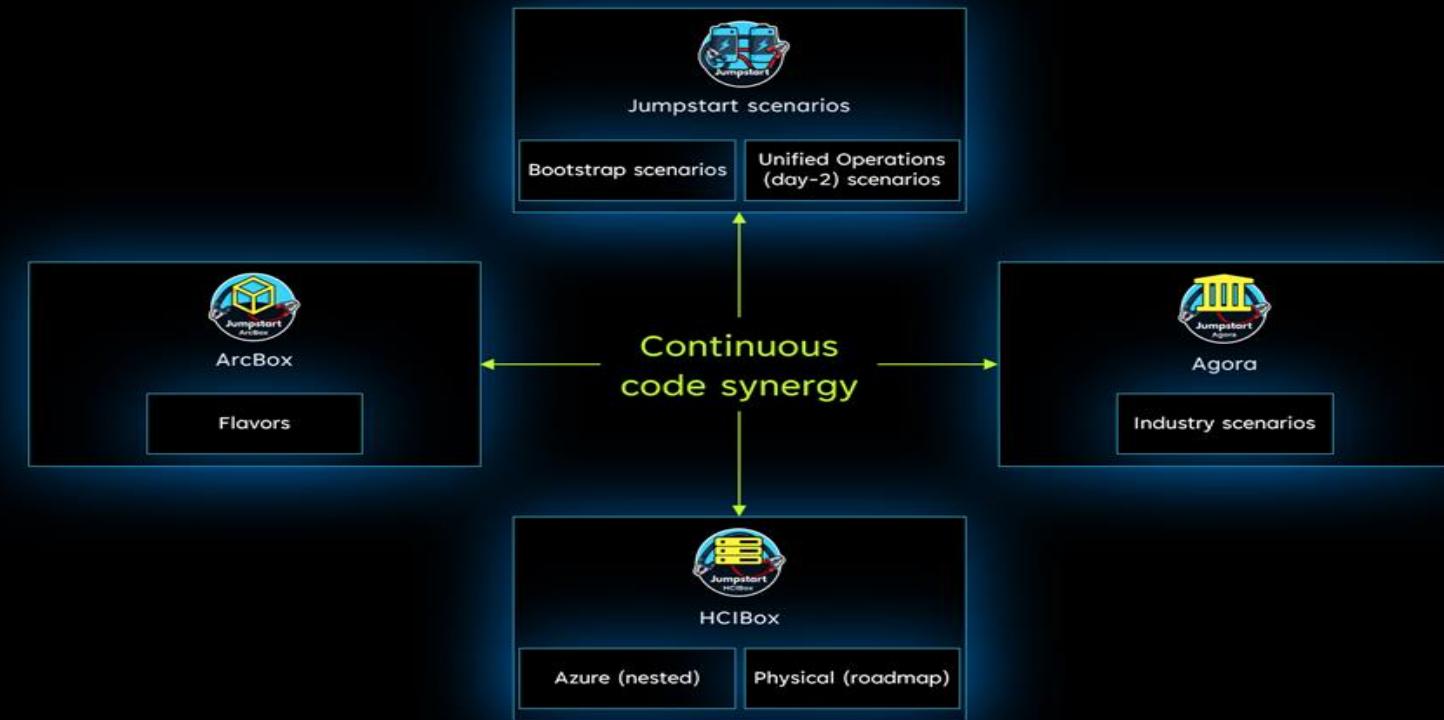
Our goal is for you to have a working Azure Arc environment spin-up in no time so you can focus on the core values of the platform, regardless of where your infrastructure may be, either on-premises or in the cloud.

Discussion on Azure Arc flavours

Azure Arc Jumpstart

Core Design Principles

- “User never fail” mentality
- Minimum dependency between bootstrap and unified operations scenarios
- If it can be automated, it will be automated
- 1-click automation
- Modular automation, Lego-like coding, reusable, comprehensive, repeatable, reliable
- Support as many deployment options as possible
- No detail is too small, no screenshot, note, disclaimer or explanation left behind
- Only public preview and GA services/features



Agora

[Jumpstart Agora](#) is a marketplace of various “cloud to edge” industry scenarios, designed to provide an end-to-end user experience.

The word “Agora” comes from the ancient Greek term for a public gathering place or assembly, and it has come to be used more broadly to refer to any place or forum where people come together for discussion or exchange.

Our mission is to create a rich marketplace of applications that can leverage Hybrid Cloud, Internet of Things (IoT), and artificial intelligence (AI) technologies and make those accessible for enablement and educational purposes via the Jumpstart automation mechanisms



Contoso Supermarket

Applications and technology stack



IT Pros (Arc-enabled servers and SQL Server)

ArcBox for IT Pros is a special “flavor” of ArcBox that is intended for users who want to experience Azure Arc-enabled servers capabilities in a sandbox environment.

Use cases

- ❖ Sandbox environment for getting hands-on with Azure Arc technologies
- ❖ Accelerator for Proof-of-concepts or pilots
- ❖ Training tool for Azure Arc skills development
- ❖ Demo environment for customer presentations or events
- ❖ Rapid integration testing platform
- ❖ Infrastructure-as-code and automation template library for building hybrid cloud management solutions



IT Pros edition

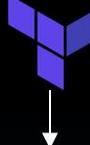
Azure Resource Manager (ARM)



Azure Bicep



Hashicorp Terraform



ArcBox IT Pros Azure Resource Group



ArcBox Workbook



Azure Monitor



Azure Policy



Azure Log Analytics



Microsoft Defender
for Cloud



Microsoft Sentinel



ArcBox-SQL
Azure Arc-enabled
SQL server



ArcBox-SQL
Azure Arc-enabled
server



ArcBox-Win2K19
Azure Arc-enabled
server



ArcBox-Win2K22
Azure Arc-enabled
server



ArcBox-Ubuntu-01
Azure Arc-enabled
server



ArcBox-Ubuntu-02
Azure Arc-enabled
server



Nested Hyper-V VM (with SQL installed)



ArcBox-Win2K19
Nested Hyper-V VM



ArcBox-Win2K22
Nested Hyper-V VM



ArcBox-Ubuntu-01
Nested Hyper-V VM



ArcBox-Ubuntu-02
Nested Hyper-V VM



Azure VM Hyper-V Host
Windows Server 2022 Datacenter with Hyper-V enabled (Nested Virtualization)



ArcBox Azure Virtual Network

Dev Ops (Arc-enabled Kubernetes and DevOps Engineers)

ArcBox for DevOps is a special “flavor” of ArcBox that is intended for users who want to experience Azure Arc-enabled Kubernetes capabilities in a sandbox environment.

Use cases

- ❖ Sandbox environment for getting hands-on with Azure Arc technologies and Azure Arc-enabled Kubernetes landing zone accelerator
- ❖ Accelerator for Proof-of-concepts or pilots
- ❖ Training solution for Azure Arc skills development
- ❖ Demo environment for customer presentations or events
- ❖ Rapid integration testing platform
- ❖ Infrastructure-as-code and automation template library for building hybrid cloud management solutions



DevOps edition

Azure Resource Manager (ARM)



Azure Bicep



Hashicorp Terraform



ArcBox (DevOps) Azure Resource Group



ArcBox Workbook



Azure Monitor



Azure Policy



Azure Log Analytics



Microsoft Defender for Cloud



GitOps configurations



Service observability with
Open Service Mesh (OSM)



Secrets management with
Azure Key Vault

ArcBox-Client
Azure VM



</> Sample
applications



Azure Arc-enabled Kubernetes cluster

</> Sample
applications



Azure Arc-enabled Kubernetes cluster



Rancher K3s 1-node
Kubernetes cluster



Azure VM Ubuntu server



Kubernetes Cluster API 3-node cluster
deployed using CAPI Azure provider

ArcBox Azure Virtual Network

Data Ops (Arc-enabled SQL Server Managed Instances)

ArcBox for DevOps is a special “flavor” of ArcBox that is intended for users who want to experience Azure Arc-enabled Kubernetes capabilities in a sandbox environment.

Use cases

- ❖ Sandbox environment for getting hands-on with Azure Arc technologies and Azure Arc-enabled Kubernetes landing zone accelerator
- ❖ Accelerator for Proof-of-concepts or pilots
- ❖ Training solution for Azure Arc skills development
- ❖ Demo environment for customer presentations or events
- ❖ Rapid integration testing platform
- ❖ Infrastructure-as-code and automation template library for building hybrid cloud management solutions



DataOps edition

Azure Resource Manager (ARM)



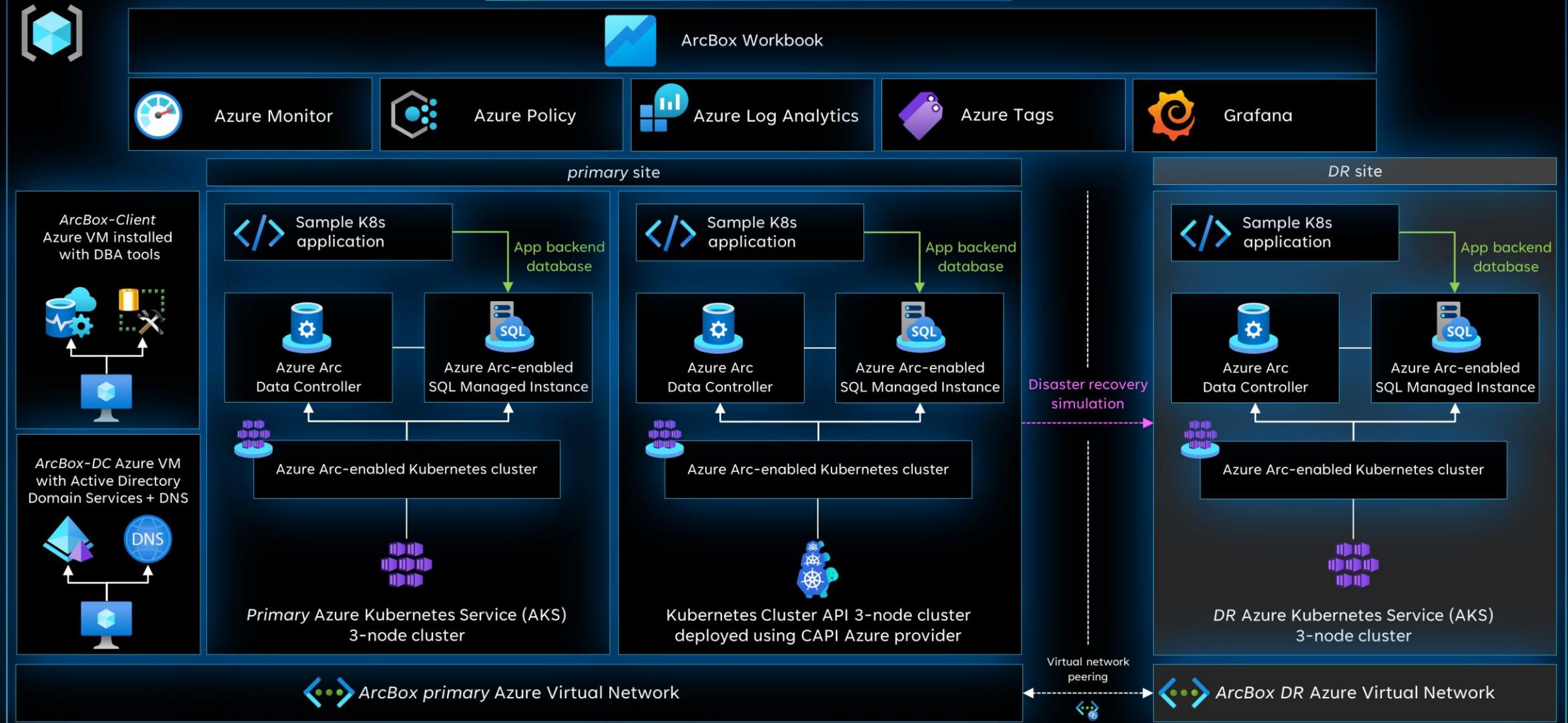
Azure Bicep



Hashicorp Terraform



ArcBox DataOps Azure Resource Group



Where to Deploy Azure Arc Box (any flavour)

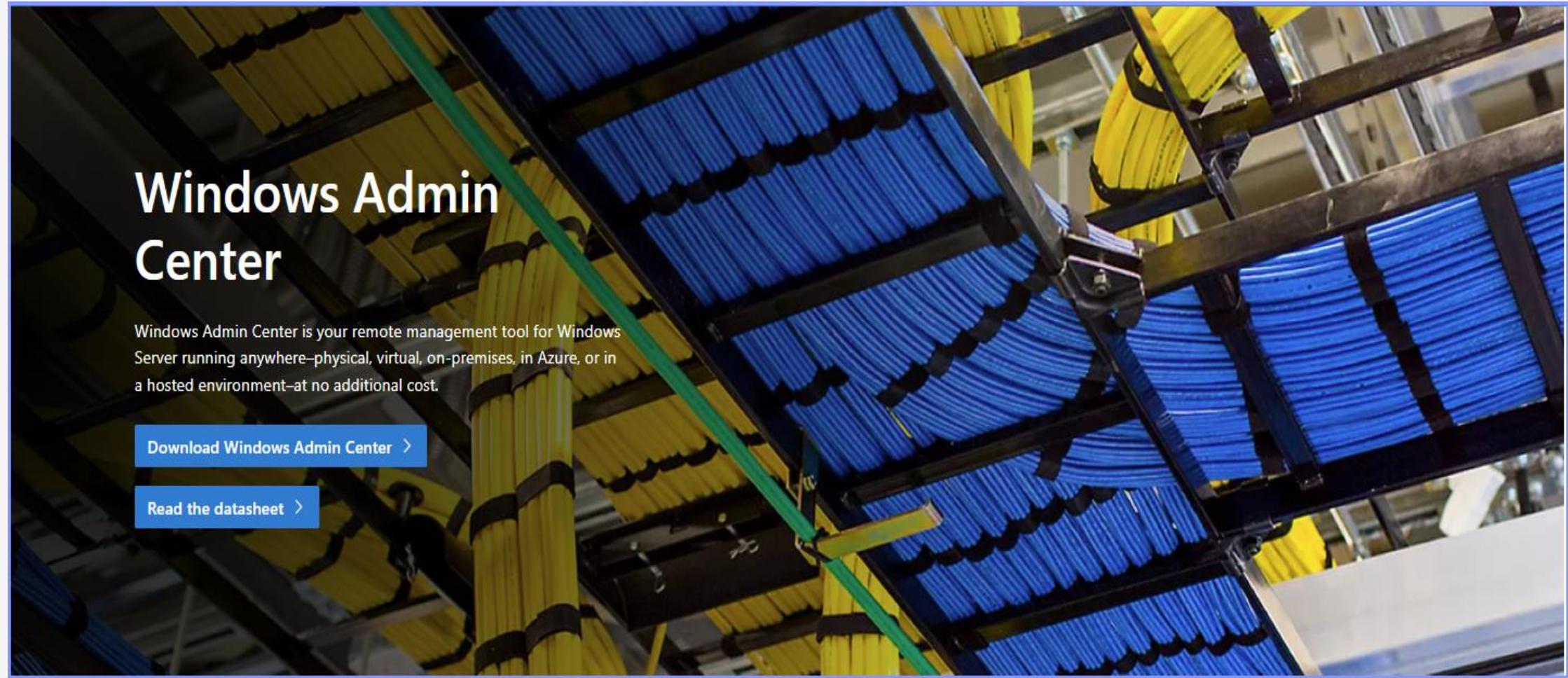
•rcBox must be deployed to one of the following regions.

Deploying ArcBox outside of these regions may result in unexpected results or deployment errors.

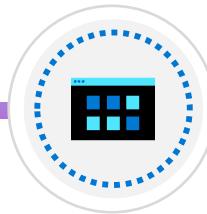
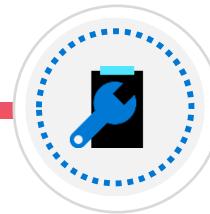
- East US
- East US 2
- Central US
- West US 2
- North Europe
- West Europe
- France Central
- UK South
- Australia East
- Japan East
- Korea Central
- Southeast Asia

Introductory Use-Case (20 minutes)

How to manage and organize resources



How to manage and organize resources



Windows Admin Center in Azure

This new capability allows you to manage the Windows Server OS running on Azure IaaS seamlessly and at a more granular level. Windows Admin Center in the Azure Portal is available to customers running Windows Server 2016, 2019, or 2022 virtual machines.

Hybrid Management In Azure

Integrate your on-premises servers with Azure in just a few clicks. Leverage the power of Azure for monitoring, storage, backup, disaster recovery, and more.

Modern Server Management

Simplify server administration with streamlined server management tools. Configure and troubleshoot your servers and manage Windows Server workloads remotely from a web browser. Use it to manage any version, from 2012 to 2022 and Azure Stack HCI.

Governance, security, and compliance baseline for Azure Arc-enabled servers

Defining and applying the proper control mechanisms is key in any cloud implementation, as it's the foundational element to stay secured and compliant.

In a traditional environment, these mechanisms usually involve review processes and manual controls. However, the cloud has introduced a new approach to IT governance with automated guardrails and checks.

Azure Policy and **Microsoft Defender for Cloud** are cloud-native tools that allow the implementation of these controls, reports, and remediation tasks in an automated fashion.

By combining them with Azure Arc, you can extend your governance policies and security to any resource in public or private clouds.

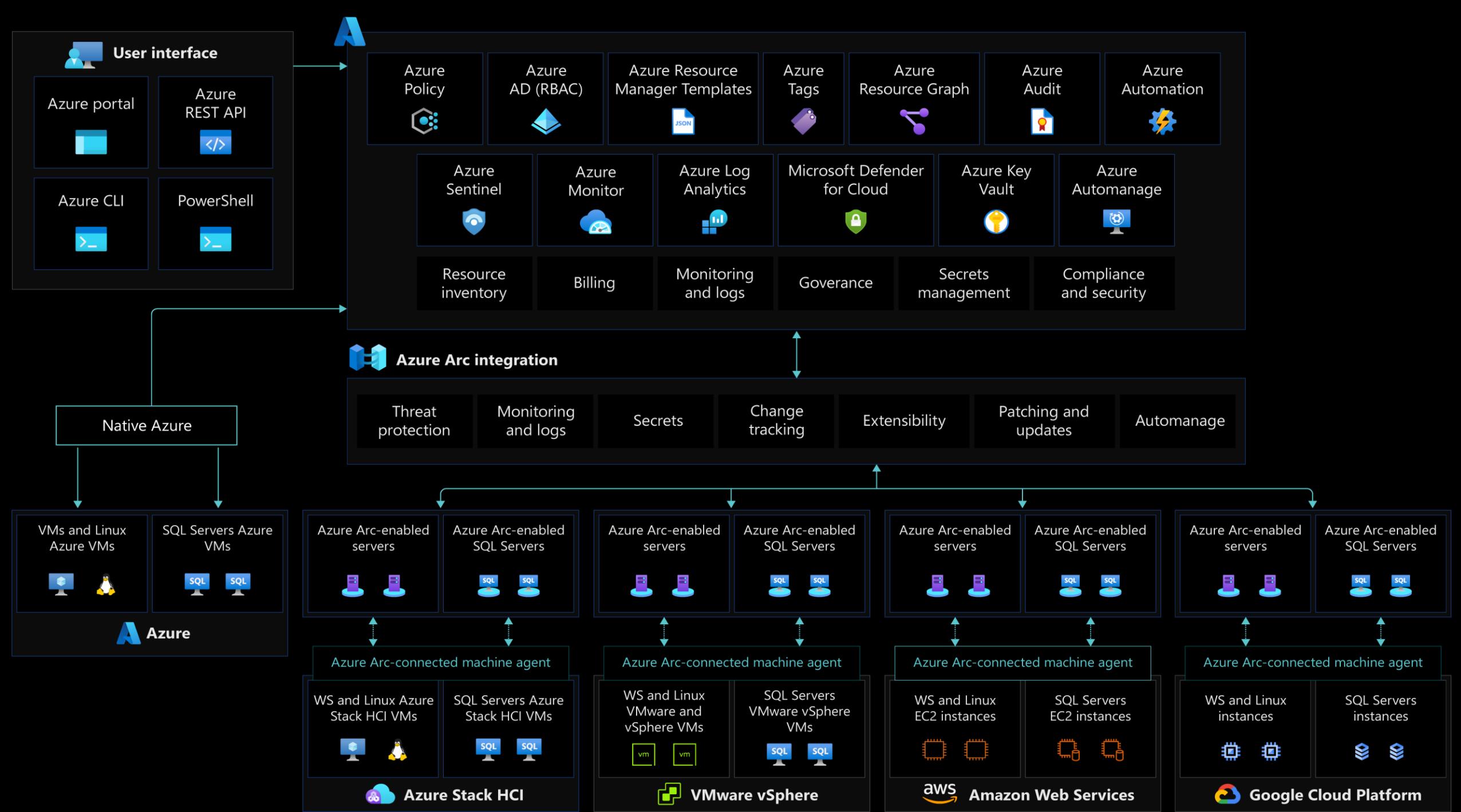
Governance, security, and compliance baseline for Azure Arc-enabled servers

Defining and applying the proper control mechanisms is key in any cloud implementation, as it's the foundational element to stay secured and compliant.

In a traditional environment, these mechanisms usually involve review processes and manual controls. However, the cloud has introduced a new approach to IT governance with automated guardrails and checks.

Azure Policy and **Microsoft Defender for Cloud** are cloud-native tools that allow the implementation of these controls, reports, and remediation tasks in an automated fashion.

By combining them with Azure Arc, you can extend your governance policies and security to any resource in public or private clouds.



Resources

Presentations from all Webinars



GitHub - KoprowskiT/AzureArcWithQA:
Content from all events about Azure Arc delivered with QA

<https://bit.ly/AzureArcWithQA>

Observe the Future

The screenshot shows the Microsoft Ignite session catalog interface. At the top, there's a navigation bar with the Microsoft logo, a "Register now" button, and links for "Microsoft Ignite", "Sessions", "Seattle event guide", "Featured Partners", and "More". On the right, it shows "All Microsoft" and "(UTC+00:00) hora del meridiano de Greenwich" along with a "Sign in" link and a user icon.

The main area is titled "Session catalog" and features a large, colorful abstract graphic in the background. Below the title, there are date filters: "All days", "Wed 15", "Thu 16", and "Fri 17", followed by a total count of "298 sessions". A search bar contains the text "azure arc" with a magnifying glass icon.

Below the search bar, there are additional filters: "Refine results" (which is active), "azure arc" (highlighted in blue), and "Clear filters". There are also dropdowns for "Show 12 results" and "Relevance".

The main content area displays a single session card for "Azure Arc-enabled servers onboarding_(Windows/Linux)". The card includes the following details:

- Delivery type:** Lab, In Seattle Only, Will Not Be Recorded
- Date and Time:** Friday, November 17, 1:15 AM - 2:15 AM hora del meridiano de Greenwich
- Description:** In this lab you will practice: 1. Arc-enabled servers onboarding (Windows/Linux) 2. Azure Monitor integration 3. Microsoft Defender for Cloud Integration
- Speakers:** Braulio Chavez (BC), Lior Kamrat (LK), Ryan Willis (RW)
- Actions:** Add to schedule, Save to backpack

Resources



Microsoft Learn / Docs

[Azure Arc | Microsoft Learn](#)

Microsoft Learn / Intro to Azure Arc

<https://bit.ly/AzureArcIntroMSLearn>

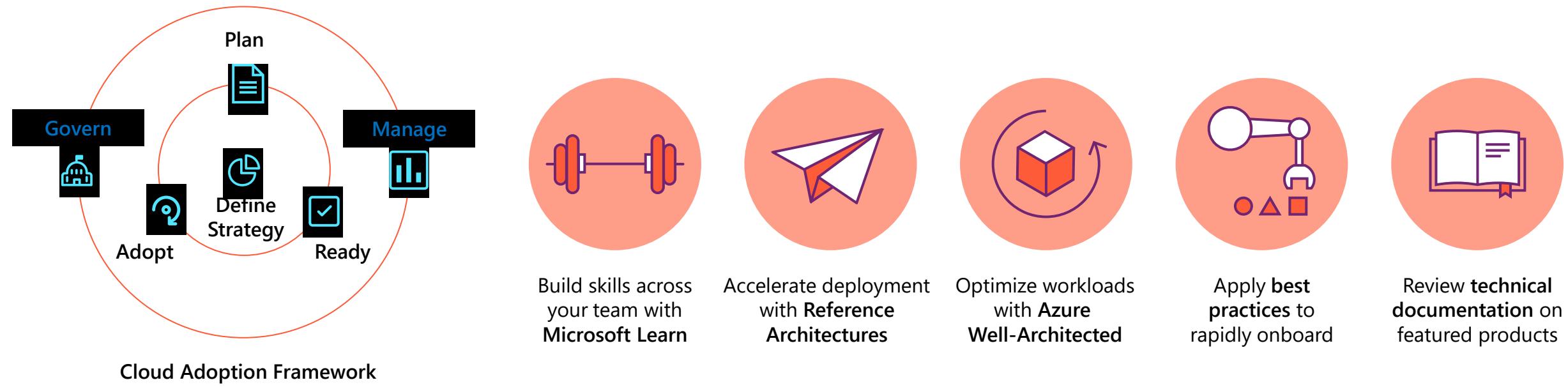
Microsoft Ignite Conference

[Session catalog \(microsoft.com\)](#)

Microsoft Azure Arc Jumpstart

[Overview | Azure Arc Jumpstart](#)

Complete guidance for hybrid and multicloud approach



Get started

Azure Arc-enabled servers generally available, get started today: <https://aka.ms/Azure-Arc>

Azure Arc-enabled Kubernetes generally available, get started today: <https://aka.ms/Azure-Arc-Kubernetes>

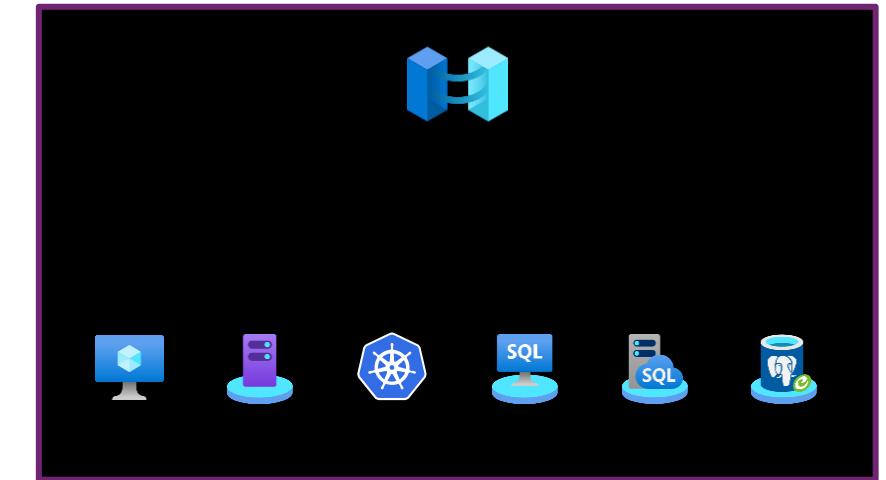
Try Azure Arc-enabled data services: <https://aka.ms/hybrid-data-services>

Learn more

Azure Arc Jumpstart: <https://aka.ms/AzureArcJumpstart>

Technical documentation: <https://aka.ms/AzureArcDocs>

Azure Arc Learning Path: <https://aka.ms/AzureArcLearn>



Resources

Azure Arc complete overview

[aka.ms/arc-introvideo](#)

Introducing Azure Arc

[aka.ms/arc-compete](#)

Azure Arc compete deck

[aka.ms/azurearcpricing](#)

Azure Arc pricing page

[aka.ms/arc-techcommunity](#)

Deep dives on Azure Arc, best practices and more

[aka.ms/arc-customerstories](#)

Learn how customers are implementing Azure Arc

<https://aka.ms/arc-feedback>

Public Q&A forum

[aka.ms/AzureArcJumpstart](#)

Azure Arc Jumpstart

[aka.ms/AzureArcJumpstartDemos](#)

Azure Arc Jumpstart demos

Azure Arc-enabled Kubernetes & servers

[aka.ms/arc-blog](#)

Azure Arc: Extending Azure management to any infrastructure

[aka.ms/arc-k8svideo](#)

Kubernetes—Managing K8 clusters outside of Azure with Azure Arc

[aka.ms/arc-serversvideo](#)

Server management—Organize all your servers outside of Azure with Azure Arc

[aka.ms/arc-serversdocs](#)

Documentation for Azure Arc enabled servers

[aka.ms/arc-k8sdocs](#)

Documentation for Azure Arc enabled Kubernetes

Azure Arc-enabled data services

[aka.ms/arc-datablog](#)

Run Azure data services on-premises, at the edge, and multi-cloud with Azure Arc

[aka.ms/arc-data-mechanicsvideo](#)

Azure Arc-enabled data services demos including SQL and PostgreSQL Hyperscale

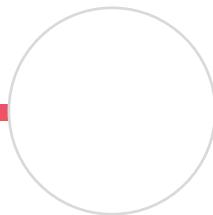
[aka.ms/arc-ignite-video](#)

Ignite 2021: Innovate across hybrid and multicloud with Azure Arc

[aka.ms/arc-datadocs](#)

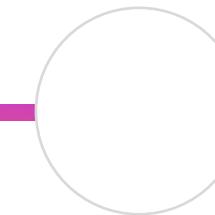
Documentation for Azure Arc-enabled data services

Continue your journey with Azure Arc Webinar Series



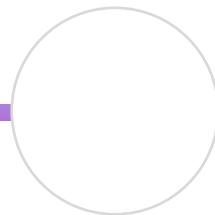
Introduction for Microsoft Azure Arc for Beginners

- Introduction
- Features
- Services
- Flavors



Intermediate-Level practices with Microsoft Azure Arc

- Security
- Governance
- Best Practices
- Cost Management



Mastering Microsoft Azure Arc for Business

- Advanced Features
- Data Services
- Milticloud Environment
- Multispace Environment

Q & A Time

(10 minutes)

Let's look for the questions!

Webinar delivered by:

Tobias Koprowski

Bachelor in: Banking

Higher national diplomas in: European Law & Corporate Governance

Three years in personal and home insurance

Five years in consumer & corporate banking

Ten years in physical Data Center

Microsoft Certified Trainer (MCT) & Educator (MCE)

CertNexus Authorized Instructor (CAI)

Member of:

- | **BCS** (The Chartered Institute of IT)
- | **IAPP** (International Association of Privacy Professionals)
- | **ISSA** (Information Security System Association)
- | **ISACA** (Information Systems Auditing & Control Association)
- | **ISC²** (International Information System Security Certification Consortium)
- | **CSA** (Cloud Security Alliance) – AI Usage Policy Working Group

STEM Ambassador | Royal Voluntary Service

Social Media: **KoprowskiT** @ [TW|LI|BS|FB]





Thank You for spending
time with us!

