



Azure Arc

Innovate anywhere with Azure

Customer aspirations



● Accelerate application development



● Secure and govern distributed digital estate



● Deliver products as a service



● Transform data into new products



● Meet changing regulations



Security, operations, and governance

Azure services

Cloud infrastructure



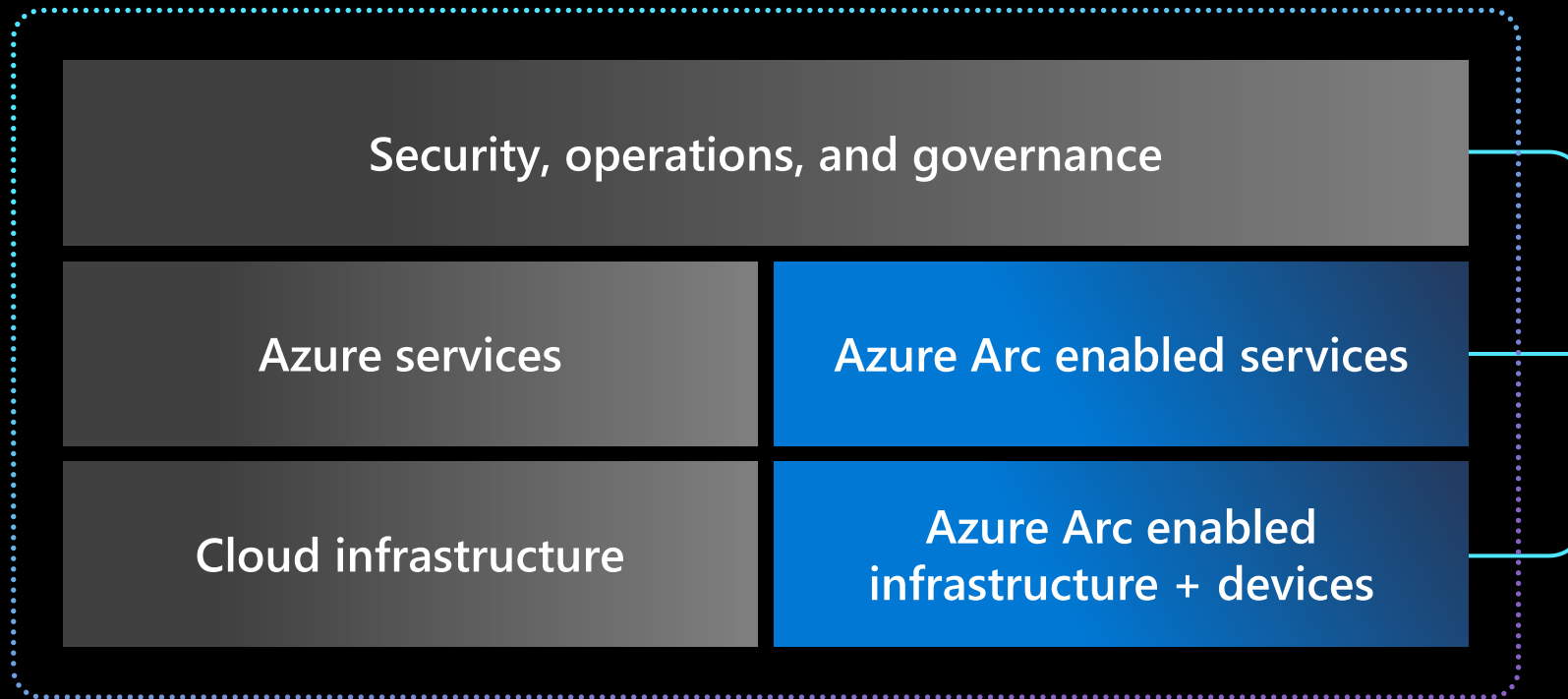
Tools and experiences



Tools and
experiences



GitHub



Azure Arc

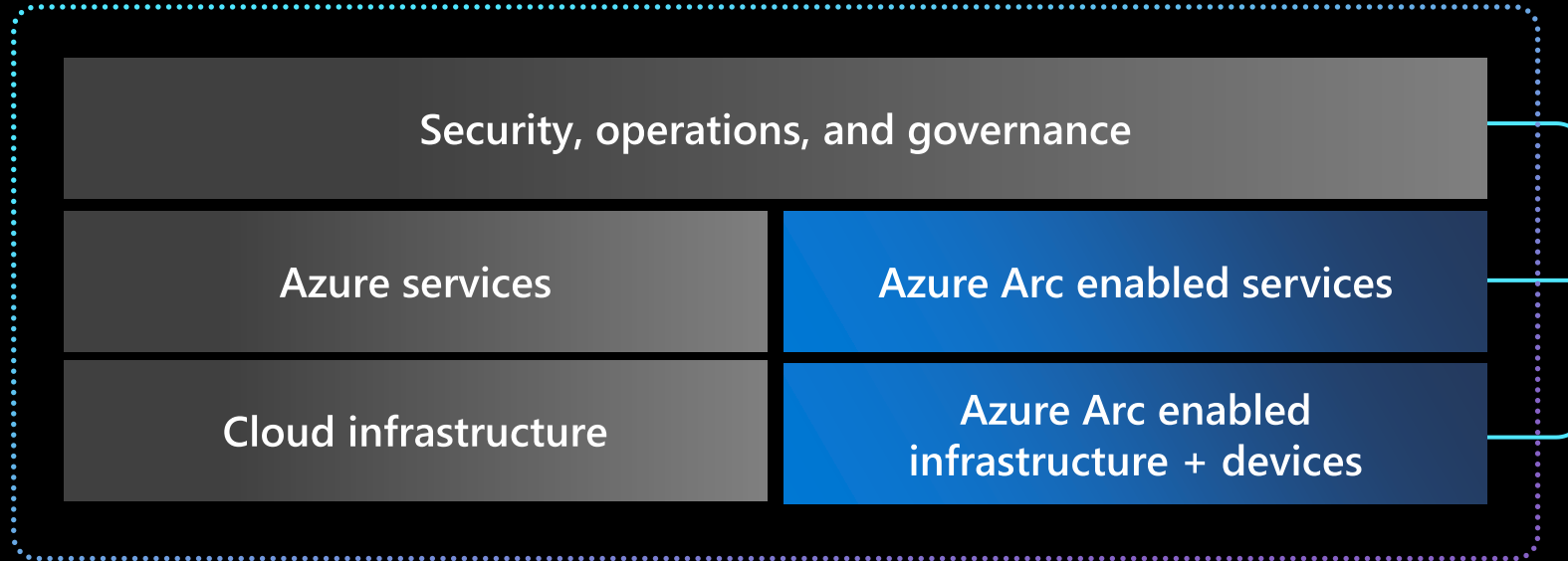
Innovate anywhere



Tools and
experiences



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Azure Arc

Innovate anywhere

Cloud regions

50+ Azure regions
Multicloud

Regional edge

Operator DC
Co-Lo provider

IT edge

Customer DC
Branch office

IoT edge

Factory floor
Retail store
Field production



Microsoft Azure

Single control plane with Azure Arc

Azure Arc-enabled infrastructure
Connect and operate hybrid resources
as native Azure resources

Azure Arc-enabled services
Deploy and run Azure services outside of
Azure while still operating it from Azure



Multi-cloud

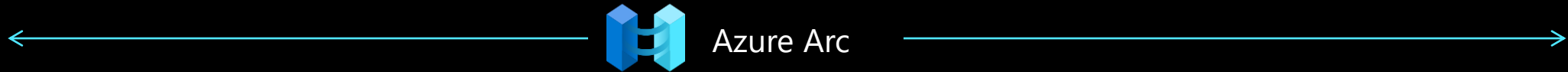


Datacenter



Edge

Innovate anywhere with Azure



Develop
cloud native,
operate anywhere



Harness data
insights from
cloud to edge

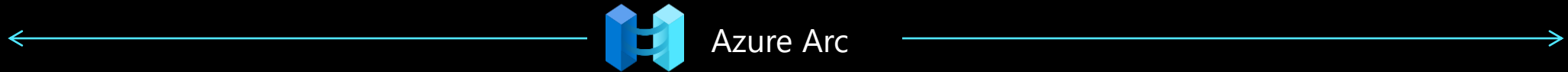


Secure and
govern across
environments



Flexibly meet
regulatory and
connectivity needs

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Harden your
Security Posture, detect threats to
protect your workloads



Monitor your infrastructure and
applications end-to-end to
proactively detect, diagnose and
resolve issues



Conform to key compliance
standards and enforce
organizational policies

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Microsoft Defender
for Cloud



Microsoft Sentinel



Azure Monitor



Azure
Policy



Azure Arc-
enabled servers



Azure Arc-
enabled SQL servers



Azure Arc-enabled
VMware vSphere VMS



Azure Arc-enabled
Kubernetes



Azure Stack HCI

vmware®

aws



Azure IoT

On-premises, multicloud, and edge

Azure Arc-enabled servers

GENERALLY AVAILABLE

Bring Azure capabilities to your on-premises and multicloud servers with Azure Arc



Reach

Windows and Linux

VM and bare metal

At scale searchable inventory



Configure

Consistent VM extensions

Centralized agent
management—Monitoring,
Security, Update Management



Govern

Built-in Azure policies

Compliance across environments

Audit and enforce OS settings



Secure

Azure Active Directory
Managed Identity

Server security baselines

Role-Based Access control



Any infrastructure, familiar tools



Azure hybrid data manageability for SQL Server

Manage, govern, and protect your SQL Server from Azure



Manage all your SQL estate using Azure

- **Single view** of all SQL Servers deployed on-premises, in Azure and other cloud
- **Fully automated technical assessment** for SQL Server – no additional cost



Control and govern your entire data estate

- **Central insights and governance** across all SQL Servers with Microsoft Purview
- Purview access policies readily available for SQL Servers on-premises



Protect all your data using Azure security

- Protect your on-premises data using **Microsoft Defender** for Cloud
- Secure identities with **Single Sign-On** and **Azure Active Directory***



Easy connection enabled by Azure Arc for existing SQL Servers without migration

*SQL Server 2022 required for Azure Active Directory. All other features supported on SQL Server 2012, 2014, 2016, 2017, and 2019.

Azure Arc-enabled VMware vSphere PREVIEW

Provision and Manage VMware VMs from Azure using Azure Arc



Virtual Machine Lifecycle

Perform full lifecycle management such as create, resize, and delete on VMware VMs from Azure



Self-Serve Operations

Use Azure RBAC to enable teams and workload owners to provision and manage VMs on demand



Single Pane View

Browse your VMware VMs from your data centers and AVS along with your Azure VMs

Discover and onboard existing VMware VMs to Azure



Azure Management services

Perform governance, monitoring, update management, security at scale using rich Azure management services like Azure Monitor, Security Center and others



← VMware vSphere environments hosted in your datacenter or on Azure VMware Solutions →



Azure Arc-enabled Kubernetes

GENERALLY AVAILABLE

Connect, manage, and operate Kubernetes clusters and applications running anywhere using Azure Arc



AKS on Azure Stack HCI
or Windows Server



Multiple 3P Kubernetes
flavors supported



Deploy apps and
configurations at-scale
with GitOps



Secure, govern, and
monitor all your
clusters, from Azure



AKS



Kubernetes



OpenShift



EKS



GKE



VMware Tanzu

NUTANIX



PLATFORM9

CANONICAL

RANCHER

WINDRVR

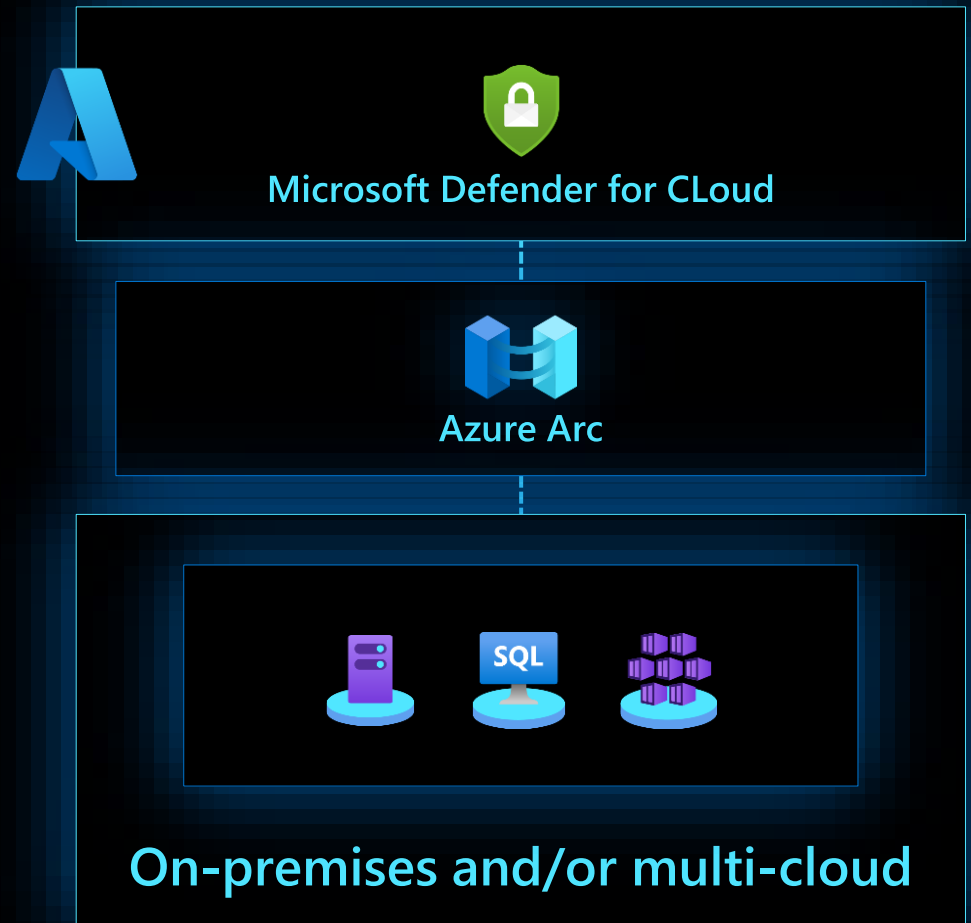


MIRANTIS

Microsoft Defender for Cloud

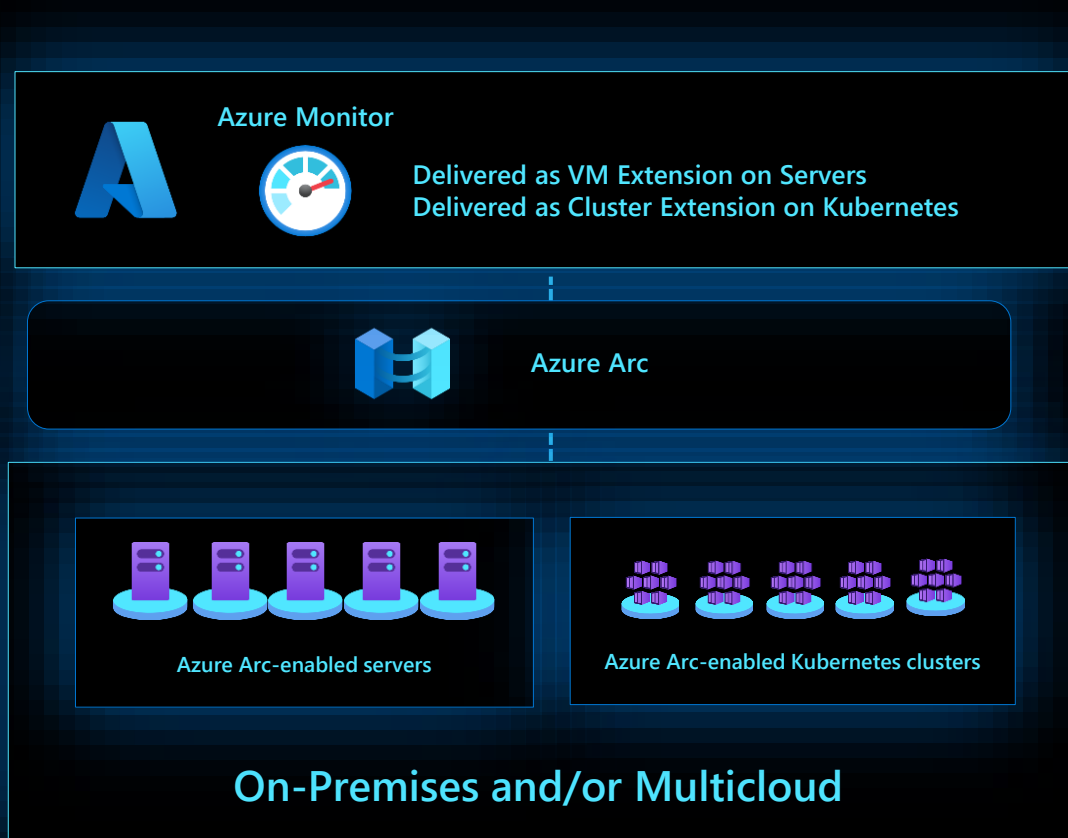
Assess, secure, and defend your hybrid and multicloud workloads

- **Continuously assess.** Understand your current security posture, identify and track vulnerabilities. Get a bird's eye-view of your security posture with Secure Score
- **Secure.** Harden connected resources and services by following customized and prioritized recommendations with Azure Security Benchmark
- **Defend.** Detect and resolve threats to those resources and services. With prioritized **security alerts**, focus on what matters the most and surface to the right audience



Deploy Azure Monitor seamlessly

Use VM and Cluster Extensions to easily deploy to Servers and Kubernetes anywhere



The screenshot displays the Azure Arc Extensions console for two resources: tailwindserver2 (Server - Azure Arc) and tailwindrisk-k8s2 (Kubernetes - Azure Arc).

tailwindserver2 | Extensions

Search (Ctrl+/) << + Add Refresh Uninstall

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

Search to filter items...

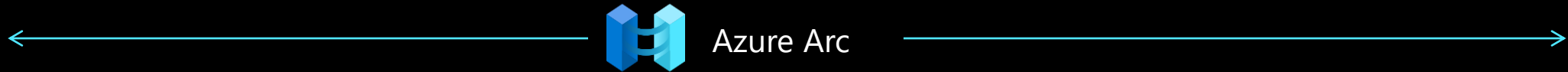
Name	Type	Version	Status
<input type="checkbox"/> MicrosoftMonitoringAgent	MicrosoftMonitoringAgent	1.0.18053.0	Succeeded
<input type="checkbox"/> DependencyAgentWindows	DependencyAgentWindows	9.10.10.16690	Succeeded
<input type="checkbox"/> AzureMonitorWindowsAgent	AzureMonitorWindowsAgent	1.1.3.2	Succeeded

tailwindrisk-k8s2 | Extensions

Search (Ctrl+/) << + Add Uninstall Refresh

Name	Type	Version	Install status	Auto upgrade minor ver...
azurepolicy	Microsoft.PolicyInsights	1.1.0	✓ Installed	Enabled
osm	microsoft.openservicemesh	0.8.4	✓ Installed	Disabled
azuremonitor-containers	Microsoft.AzureMonitor.Co...	2.9.0	✓ Installed	Enabled

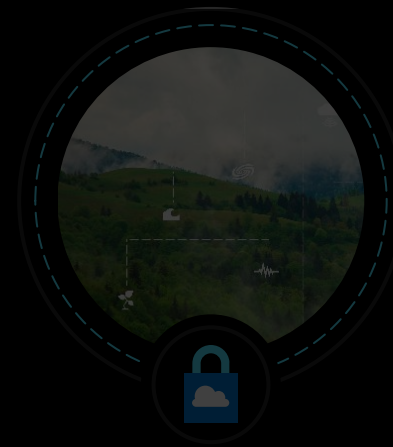
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Build and modernize to
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Bring cloud data
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Azure Arc-enabled
Kubernetes



Azure Arc-enabled SQL
Managed Instance



Azure Arc-enabled
PostgreSQL



Azure Stack HCI

vmware®

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WINDRVR



MIRANTIS

Azure Arc-enabled data services

Bring cloud data management to any infrastructure

GENERALLY AVAILABLE

Azure Arc-enabled SQL Managed Instance—
Business Critical

PREVIEW

Azure Arc-enabled PostgreSQL



Supports all connectivity modes



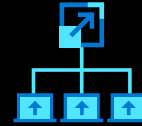
Always up to date

Automated updates
No downtime, evergreen



Multi-layer security

Comprehensive encryption
Azure RBAC & Policy



Elastic scale

Scale up and down
Pay for what you use



Simplified DevOps

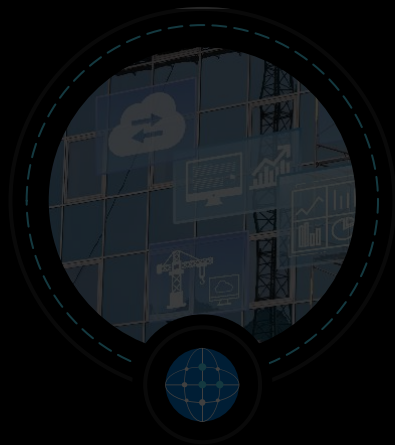
Deploy in seconds
Built in HA/DR



Any infrastructure



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Harness data
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Flexibly meet
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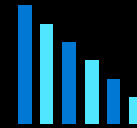
Harness data insights from edge to cloud



Accelerate innovation via cloud data and AI capabilities to build next-gen apps and gain fast, continuous insights



Improve operational efficiency and reduce IT overhead through cloud automations and consistent management



Reduce risk exposure through integrated multi-layer security and data governance solutions

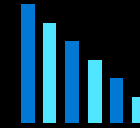
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Azure Arc-enabled SQL Managed Instance



Azure Arc-enabled PostgreSQL



Azure Arc-enabled Machine Learning



Azure Stack HCI

vmware®

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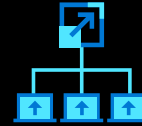
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Any infrastructure

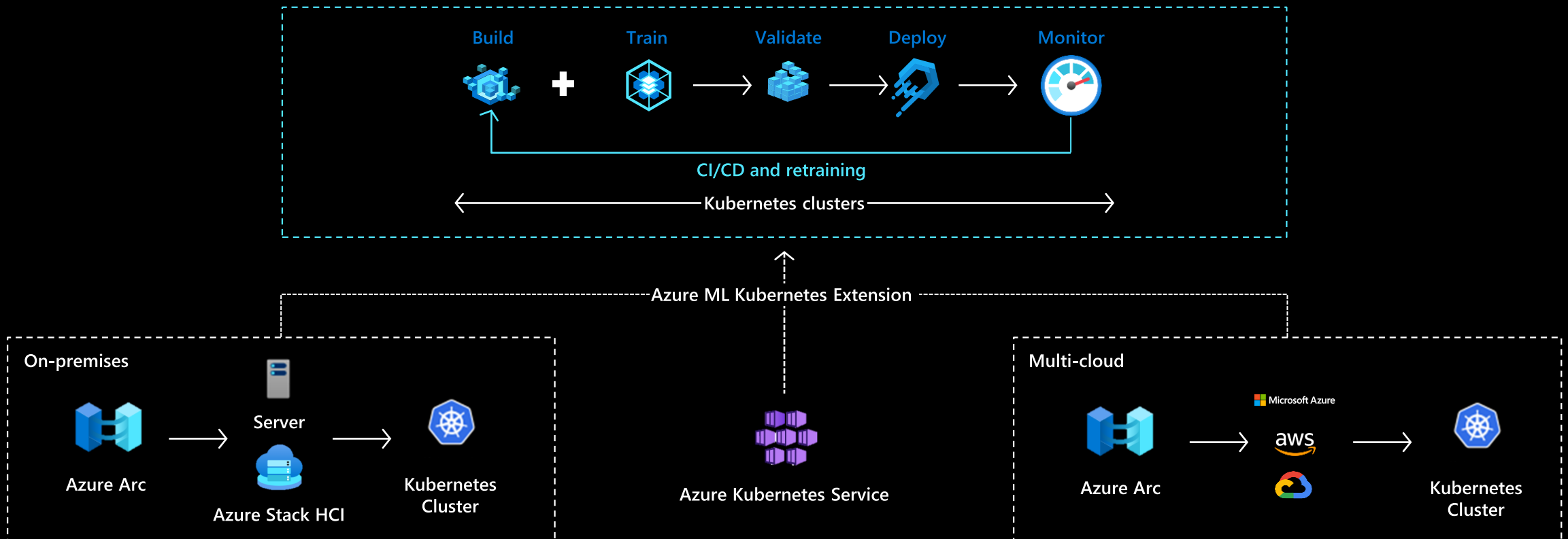


Azure Arc-enabled machine learning

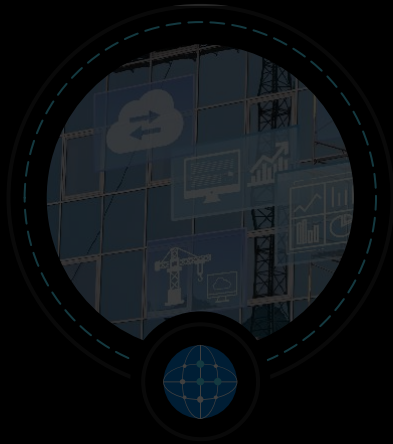
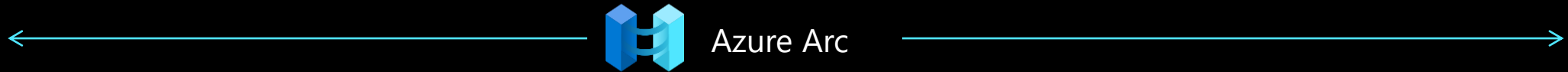
GENERALLY AVAILABLE

Bring fully operationalized machine learning to on-premises and multicloud

Azure Machine Learning



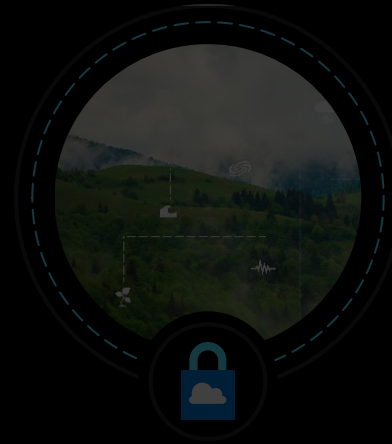
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Flexibly meet regulatory and connectivity needs



Meet data residency
and sovereignty



Simplify edge
computing



Fully or intermittently
connected

Flexibly meet regulatory and connectivity needs



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Azure Arc



Azure Stack HCI

vmware®



Azure IoT

Azure Private
MEC

On-premises, multicloud, and edge

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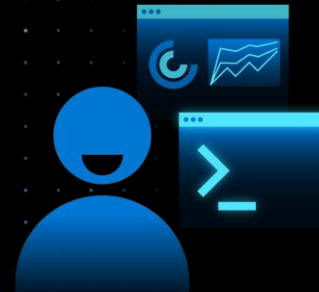
Modern subscription for flexible, familiar hyperconverged infrastructure



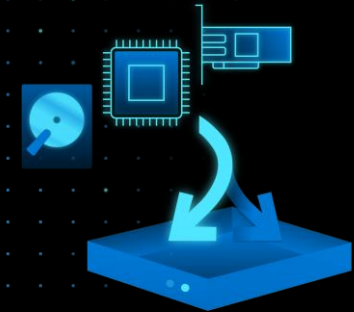
Azure hybrid
by design



Enterprise scale and
price performance



Familiar
management
and operations



Choice of
deployment options

AKS on Azure Stack HCI and Windows Server

Familiar Kubernetes application platform available on Azure Stack HCI and Windows Server



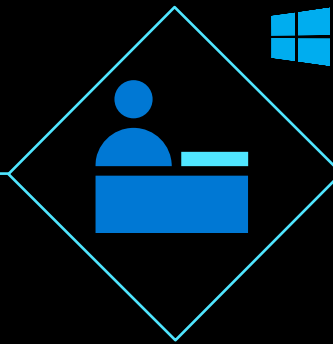
Azure hybrid by design

AKS-consistent Kubernetes
cluster management

Easy AKS deployment on Azure Stack HCI

Built-in Azure Arc capability

+



Best platform for .NET apps on-premises

Support for both Linux and
Windows applications

Differentiated container solution
for Windows

Local administration with
Windows Admin Center

+



Built-in security

Secure and trusted platform

Single and consistent identity

Always up-to-date like Azure

Azure Virtual Desktop for Azure Stack HCI (preview)

Extending the benefits of cloud-managed VDI to on-premises



Modernize your app and virtual desktop infrastructure

Fully managed, cloud-hosted VDI management plane



Deliver Windows 10 to any device

Windows 10 and 11 Enterprise multi-session with seamless Microsoft Office and Microsoft Teams experience

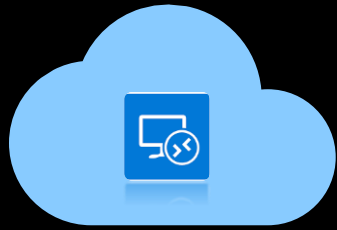


Optimal performance with full control

Direct access to local session hosts with RDP Shortpath

Centralized management for Azure Virtual Desktop

Azure Virtual Desktop

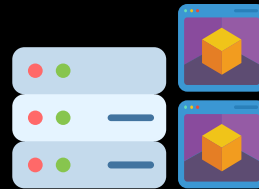


Centralized management
from the Azure portal

Azure Virtual Desktop session hosts



Azure IaaS VMs



Azure Stack HCI
VMs on-premises
(preview)

End-user devices



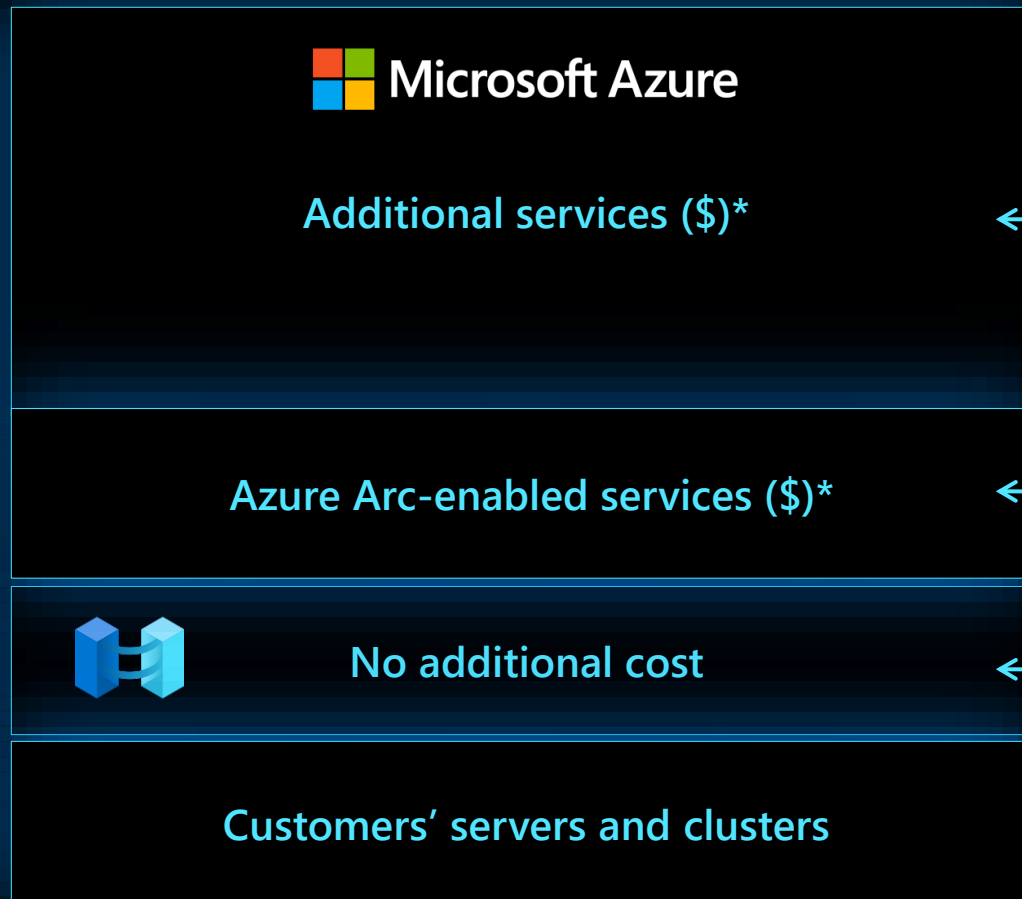
Windows

macOS

Linux

HTML5

Azure Arc pricing model



Azure Policy—guest configuration

Azure Monitor

Azure Defender

Azure Sentinel

Backup

Log Analytics

GitOps management for Kubernetes

Application Insights

Config and Change Management

- SQL Managed Instance (preview, GA on 7/30)

- PostgreSQL Hyperscale (preview)

- Azure Machine Learning (preview)

- App Service, Functions, Logic Apps, APIM, Event Grid (preview)

Control plane functionality:

Tagging, management groups, activity logs, templates, Resource Graph, RBAC

*Pricing for Azure Arc-enabled services and additional management services is consistent with Azure pricing. Services are available at no cost during preview.

Azure Arc pricing details

		Azure Resource	Azure Arc Resource
Azure Arc control plane functionality (for both Arc-enabled servers and Kubernetes)	Onboarding, Resource organization in the Azure Portal, Tagging, Searching and Indexing, RBAC and Automation through Templates	Free	Free
Add-on management services (for both Arc-enabled servers and Kubernetes)	Azure Monitor, Azure Defender, Azure Sentinel	Refer to the pricing for the specific service in the Azure Pricing calculator	Priced similar to Azure resources. Refer to the specific service in the Azure Pricing calculator
Azure Arc-enabled servers	Azure Policy guest configuration (includes Azure Automation change tracking, inventory, state configuration)	Free	\$6/Server/Month
Azure Arc-enabled Kubernetes	Kubernetes Configuration (GitOps)	N/A	First 6 vCPUs are free, \$2/vCPU/month thereafter*
Azure Arc-enabled application services	App Service, Functions, Logic Apps, APIM, Event Grid	Refer to Azure pricing calculator	Free in preview. Pricing to be disclosed at GA
Azure Arc-enabled data services	SQL Managed Instance	Refer to Azure pricing calculator	Pricing varies by product tier. See next slide for details.
	PostgreSQL Hyperscale	Refer to Azure pricing calculator	Free in preview. Pricing to be disclosed at GA

*If the Arc-enabled Kubernetes cluster is on Azure Stack Edge, AKS on Azure Stack HCI (>=April 2021 update), or AKS on Windows Server 2019 Datacenter (>=April 2021 update), then the Kubernetes configuration is included at no charge. More information on this can be found on the [docs page](#).

Thank you