

# Azure Arc overview



Chris Sanders, Program Manager

# Customer environments and application requirements are evolving

Single control plane with Azure Arc



# Azure Hybrid

Innovation anywhere with Azure



Single control plane with Azure Arc



Bring Azure services to any infrastructure



Modernize datacenters with Azure Stack



Extend to the edge with Azure IoT



# Organize and govern across environments



### At-scale Kubernetes app management



PROBLEMS (5) OUTPUT DEBUG CONSOLE TERMINAL

The project was built assuming it is hosted at the server root.

# Run data services anywhere



### 🔗 avanade

### 56

Azure is already trusted and proven by our customers. Azure Arc uses the same APIs and the same control plane as Azure, providing consistency across the hybrid infrastructure, which increases productivity and reduces risk."

> Mike DeLuca Global Lead for Hybrid



#### src > Js index.js

You, a few seconds ago | 3 authors (Jonathan Carter and others) 1 import App from "./components/App"; 2 import React from "react"; 3 import ReactDOM from "react-dom"; import registerServiceWorker from "./registerService

With Azure Arc, we can centrally manage multiple edge locations and help our customers grow and expand across the continent, creating more jobs and economic opportunities along the way."

### #FERGUSON

### ככ

For me, the main benefit is that my managers do not have to go to three different places to see the health of our database environment. I want to reinforce this over and over again because that's what's driving us."

#### **Calvin Karundu**

PROBLEMS (5) OUTPUT DEBUG CONSOLE Software Engineer

The project was built assuming it is hosted at the server root. You can control this with the homepage field in your package.json. For example, add this to build it for GitHub Pages:

"homepage" : "http://myname.github.io/myapp"

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arn global add serve

Kristina Melo SQL Database Administrator



# **Azure Arc Architecture**



**Azure Arc Components** 

### Customer scenario Organize & govern across environments

### Overview

A large financial institution has sprawling server-based IT systems deployed in corporate datacenters, hosters, and multi-cloud.

The sprawl is overwhelming, and it is impossible to manage and apply consistent governance across the environment and meet compliance needs

### **Business requirements**

- Manage a mix of bare metal, Windows and Linux servers across locations and disparate systems
- Enable IT to apply at scale governance and security policies across all servers
- Enable application owners to apply, audit and remediate compliance to meet their own requirements





# **Customer scenario**

### Organize & govern across environments

### Key benefits from Azure Arc

- Asset organization and inventory with a unified view in the Azure Portal
- Universal governance anywhere through Azure
   Policy
- Built-in server compliance rules
- Central compliance view across all servers
- Self-service remediation
- Integration with Azure Lighthouse



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# **Azure Arc enabled servers**

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





Any infrastructure, familiar tools

## **Azure Arc enabled servers**

Azure Arc enabled servers are auto-enrolled with additional Azure services



### Just turn them on when you want to use them



### **Azure Arc enabled servers pricing**



# **Customer scenario**

Run Azure data services anywhere

### Overview

An Energy company aims for an efficient and fully automated operation with AI everywhere

Customer operates various production sites, as well as run utility transporting from extraction to retail distribution

Massive data volume at the edge and need real-time insights

### **Business requirements**

- Leverage existing OEM hardware and OpenShift K8s
- Automation at scale for IT control systems e.g., HA/DR, backup, CI/CD, DevOps
- Latest innovation automatically deployed from edge to cloud
- Consistent security and governance



Azure data services Fully managed services only available in Azure



# **Customer scenario**

Run Azure data services anywhere

### Key benefits from Azure Arc

- Any infrastructure, any K8s
- Always on the latest, no end-of-support with evergreen SQL in Azure SQL DB
- Elastic scale on-premises with PostgreSQL Hyperscale
- Azure SQL Database Edge with built-in AI for real-time edge analytics
- Automation at scale with unified management of all data & Al assets
- Market leading security & governance consistently deployed everywhere



# **Azure Arc enabled data services**

Bring Azure data services to on-premises, multi-cloud, and edge with Azure Arc





Any hardware, any Kubernetes



### Azure Arc enabled data services architecture



# Azure Arc enabled Microsoft SQL Server

Data management benefits for Azure Arc enabled servers



No migration needed for existing SQL Servers

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# Customer scenario

At-scale Kubernetes app management

### Overview

A retailer with 100s of stores would like to move all in-store applications to containers running on a K8s clusters

They are faced with the challenge of how to uniformly deploy, configure and manage their containerized applications across multiple locations

### **Business requirements**

- Bootstrap a new store to fully run with the applications and configuration that this store requires
- Enable IT to apply and monitor at scale governance across all stores
- Monitor the state of applications and configuration in all stores
- Integrate DevOps and Safe Deployment Practices for applications running in stores



# Customer scenario

At-scale Kubernetes app management

### Key benefits from Azure Arc

- Asset organization and inventory with a unified view in the Azure Portal across all locations
- GitOps-based model for deploying configuration as code to one or many clusters
- Application deployment and update at scale
- Source control based Safe Deployment Procedures when rolling new applications and configurations
- Developer tooling agnostic—use the tools they want

#### **Azure Management**

(Azure Resource Manager, Azure Policy, Azure Portal, API, CLI...)

### **Azure Arc enabled Kubernetes** Now in Preview

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







kubeadm

AKS

OpenShift



EKS





GKE

VMware Tanzu

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$ az connectedk8s connect --resource-group Ignite2019 --name AzureArcK8s2
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    "clientAppId": "",
    "serverAppId": "",
    "tenantId": ""
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  "id": "/subscriptions/3da06598-90c6-4e49-b6a1-81913deb3f34/resourceGroups/Ignite2019/providers
 /Microsoft.Kubernetes/connectedClusters/AzureArcK8s2",
  "identity": {
    "principalId": null,
    "tenantId": null,
    "type": "None"
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  "location": "eastus",
  "name": "AzureArcK8s2",
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# GitOps – Definition & Principles





Git as the single place where we operate

(create, change, and delete)







System state described declaratively

State declaration versioned in source control

Approved changes are applied automatically

Agents enforce desired state

https://www.weave.works/technologies/gitops/

# **Azure Arc enabled Kubernetes GitOps Flow**



# **Azure Arc enabled Kubernetes**



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# **Azure Arc enabled Kubernetes**

Azure Policy (Gatekeeper)

Microsoft Azure

**Azure Policy Service** 



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With Azure Arc, we can centrally manage multiple edge locations and help our customers grow and expand across the continent, creating more jobs and economic opportunities along the way."

> Calvin Karundu Software engineer Africa's Talking





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### עע

Azure Arc is the key enabling technology for us to deliver software as a service to the edge within our customers' local onpremises networks."

#### Thomas Gossler Chief Architect for Teamplay Siemens

# The Azure Arc Jumpstart GitHub Repository

- 1. Provide a "zero to hero" scenarios for multiple environments and deployment type using as much automation as possible
- 2. Create a "supermarket" experience by being able to take "off the shelf" scenarios and implement it
- 3. Meeting Azure Arc customers where they are



### Get started

Azure Arc enabled servers is now generally available, get started today: <u>https://aka.ms/Azure-Arc</u> Try Azure Arc enabled Kubernetes, in preview: <u>https://aka.ms/Azure-Arc-Kubernetes</u> Try Azure Arc enabled data services, in preview: <u>https://aka.ms/hybrid-data-services</u>

### Learn more

Azure Arc Jumpstart: <u>https://aka.ms/AzureArcJumpstart</u> Technical documentation: <u>https://aka.ms/AzureArcDocs</u> Azure Arc Learning Path: <u>https://aka.ms/AzureArcLearn</u>



### Azure Arc roadmap



### Resources

Azure Arc all up overview

#### aka.ms/arc-introvideo

Introducing Azure Arc

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 other customers are implementing Azure Arc

https://aka.ms/arc-feedback

Public Q&A forum

#### AzureArcContact@microsoft.com

Ask to be added to a common Teams site and monthly call with engineering

### 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

#### aka.ms/AzureArcJumpstart

Azure Arc "Jumpstart" GitHub repository

### Azure Arc enabled data services

#### aka.ms/arc-datablog

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

#### aka.ms/arc-data-mechanicsvideo

Demos on Azure Arc enabled data services, including SQL and PostgreSQL

#### aka.ms/arc-data-ignitevideo

Ignite 2020 session—Bring Azure data services to on-premises, multi-cloud and edge

#### aka.ms/arc-datadocs

Documentation for Azure Arc enabled data services



# Thank you