From legacy to leadership

A cloud transformation journey

Diamond sponsor

Microsoft

René Räber

CTO, Microsoft

Anton Nesterov

Sr. Azure Solution Engineer
(Global Black Belt), Microsoft

Red Hat

A proven history of collaboration to help customers optimize technology investments
Celebrating 10 Years of partnership excellence

a decade of innovation together

Red Hat + Microsoft Azure

November 2015

Partnership
Announcement

September 2017

SQL Server 2017 and
Red
Hat Enterprise Linux

January 2020

Red Hat Enterprise Linux
BYOS Gold Images now

Generally Available in Azure

January 2022

Ansible as a
managed app

May 2024

OpenShift
Virtualization on ARO

Public Preview

February 2016

Red Hat Enterprise Linux Available
in the Azure Marketplace

Integrated Support

May 2019

Azure Red Hat
OpenShift (ARO)

General Availability

May 2021

JBoss EAP as an
Azure app Service

February 2023

Azure Red Hat
OpenShift (ARO) Azure Gov

General Availability

Nov 2025

Confidential Containers &
OpenShift Virtualization on
ARO

General Availability

Open source is at the core of Microsoft!

Microsoft enables developers to achieve more

Largest developer community on the planet

The top-ranked open source code editor

.NET
#1 most-loved framework with >5M developers[1]

Java
2.5 M+ Java developers on Visual Studio Code

Consistently one of the top open source contributors

60K+
Microsoft developers active in GitHub

Top 3
Contributor to Kubernetes and CNCF ecosystem

Microsoft is active in a broad range of open-source projects and communities

Linux
Linux Integration Services
Azure Linux (Mariner)
systemd · IPE
LISA testing framework
SMB3/CIFS · NFS

Cloud Native
Kubernetes · Moby
containerd · Dapr
CNAB · Akri · Cilium
Helm · Headlamp
Copacetic · Radius
KEDA · Eraser · Istio
OPA Gatekeeper

Data + AI
Spark & YARN
PostgreSQL
Pandas
TensorFlow
ONNX
Phi
Feathr

Languages
Node.js
Python
Rust
Go
PHP
OpenJDK (Java)

Web
TypeScript
Webpack
Babel
Vue.js
Bootstrap
Svelte

Microsoft Sovereign Cloud

Most comprehensive set of sovereignty solutions across AI, productivity, security and cloud platform

Sovereign Public Cloud

Data stays in Europe, under European law

Operations and access controlled by European personnel

AI model choice and AI processing that stays in Europe

Sovereign Private Cloud

Continuous operations across hybrid or disconnected environments

Integrated cloud and productivity with Microsoft 365 Local

AI capabilities and advanced GPU support with Azure Local

National Partner Clouds

Access in-country expertise and nationally owned organizations

Germany: Delos Cloud designed to meet BSI Cloud requirements

France: Bleu designed to meet SecNumCloud requirements

Consistent infrastructure management and development platform

Sovereign Public Cloud

- Customer data stays in Europe, under European Law
- Operations and access controlled by European personnel
- Encryption is under full customer control
- Benefits customers using European datacenter regions, requiring no migration

Sovereign controls available today

Using Microsoft's *Advanced Data Residency for M365* and *Azure Sovereign Landing Zones* you can

Meet regulatory data store and process needs with **advanced protection, data residency, and exclusive control**

European digital commitments – European operations governed by a separate board

New innovations

Data Guardian: Ensure all operations and access to European Microsoft Cloud services are **controlled entirely by residents of Europe**, tracked by an tamper-evident ledger

External Key Management: Manage and bring your own keys stored on Hardware Security Modules (HSM), giving an additional layer of **encryption key control and protection** over your data in Azure

Regulated Environment Management: Configure and monitor all sovereignty and policy controls in **one unified portal**

Sovereignty tradeoffs
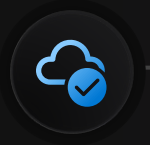
Cloud value

Scalability,
Innovation,
Cybersecurity,
Reliability, Cost
savings, Agility,
Redundancy
and Resiliency

Cloud value

Hyperscale cloud

Sovereign controls

Red Hat

On-premises/Private clouds

Level and Cost of Control
Sovereignty, Residency, and Operations
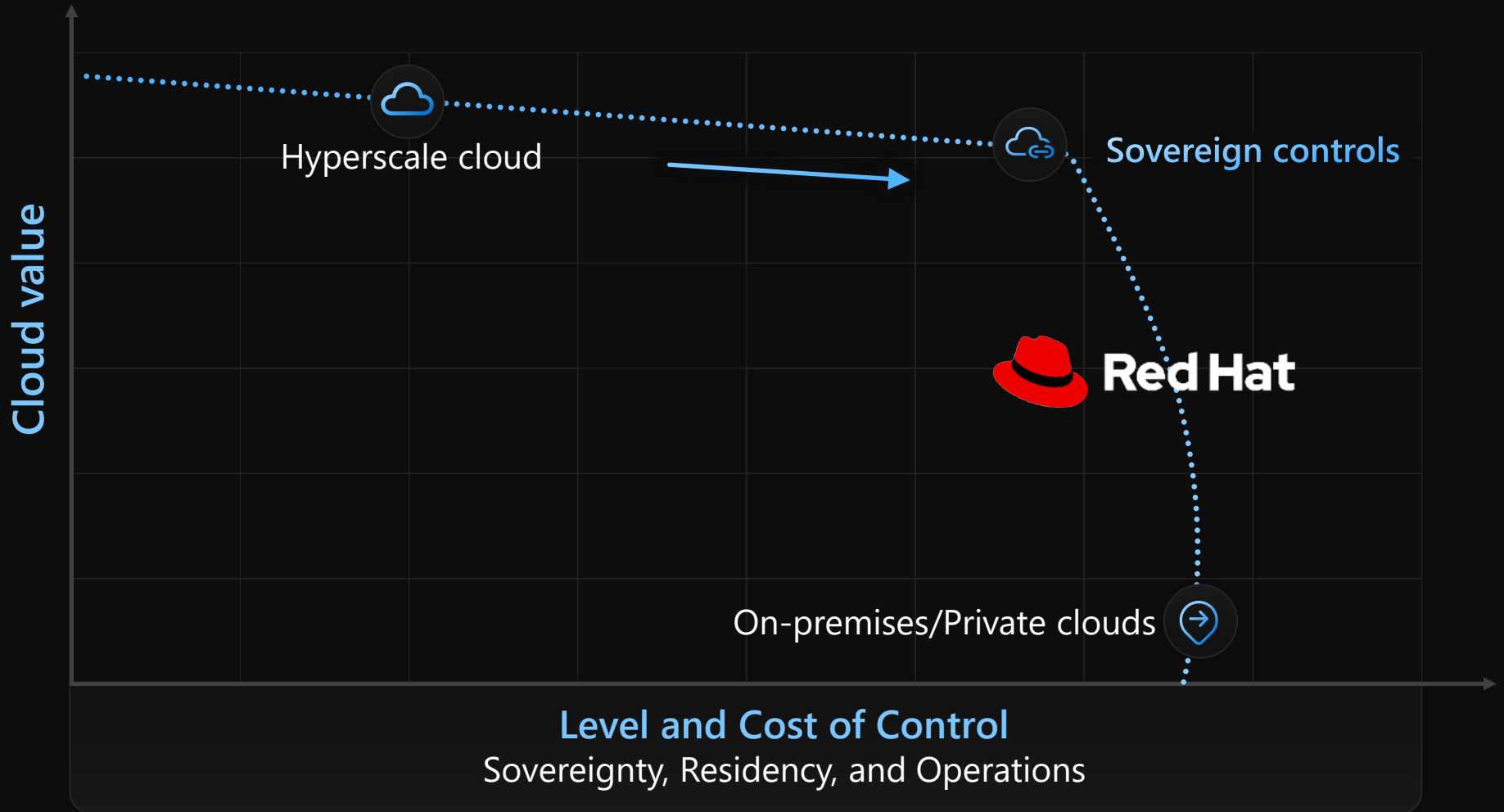
What are we talking about?

Openshift *

Azure Red Hat OpenShift - ARO
(and OpenShift on Azure)

RHEL *

Red Hat® Enterprise Linux®
on Microsoft Azure

Ansible

Red Hat Ansible Automation Platform on
Microsoft Azure

*available as <u>native</u> Azure service

Running your own Kubernetes cluster

Responsibilities

User management	☐
Project and quota management	☐
Application life cycle	☐
Cluster creation	☐
Cluster management	☐
Monitoring and logging	☐
Network configuration	☐
Software and security updates	☐
Platform support	◩

☐ Customer   ◩ Microsoft and Red Hat

User

App definition

Azure Active Directory

OpenShift API/administration console

App 1   App 2

Azure DNS

Public IP   Public IP   Public IP

Azure Load Balancer (Master)

Azure Load Balancer (Router)

Virtual network

NSG

OpenShift SDN

Azure VMs (Master)
Scale sets

Node 1   Node 2   Node 3

api-server · controller-manager · etcd

Azure Premium SSD Managed Disks

Azure VMs (Infrastructure)
Scale sets

Node 1   Node 2   Node 3

registry · router

Azure Premium SSD Managed Disks   Azure Blob Storage

Azure VMs (Application)
Scale sets

Node 1   Node 2   • • •   Node N

application pods

Azure Premium SSD Managed Disks

Red Hat | Microsoft
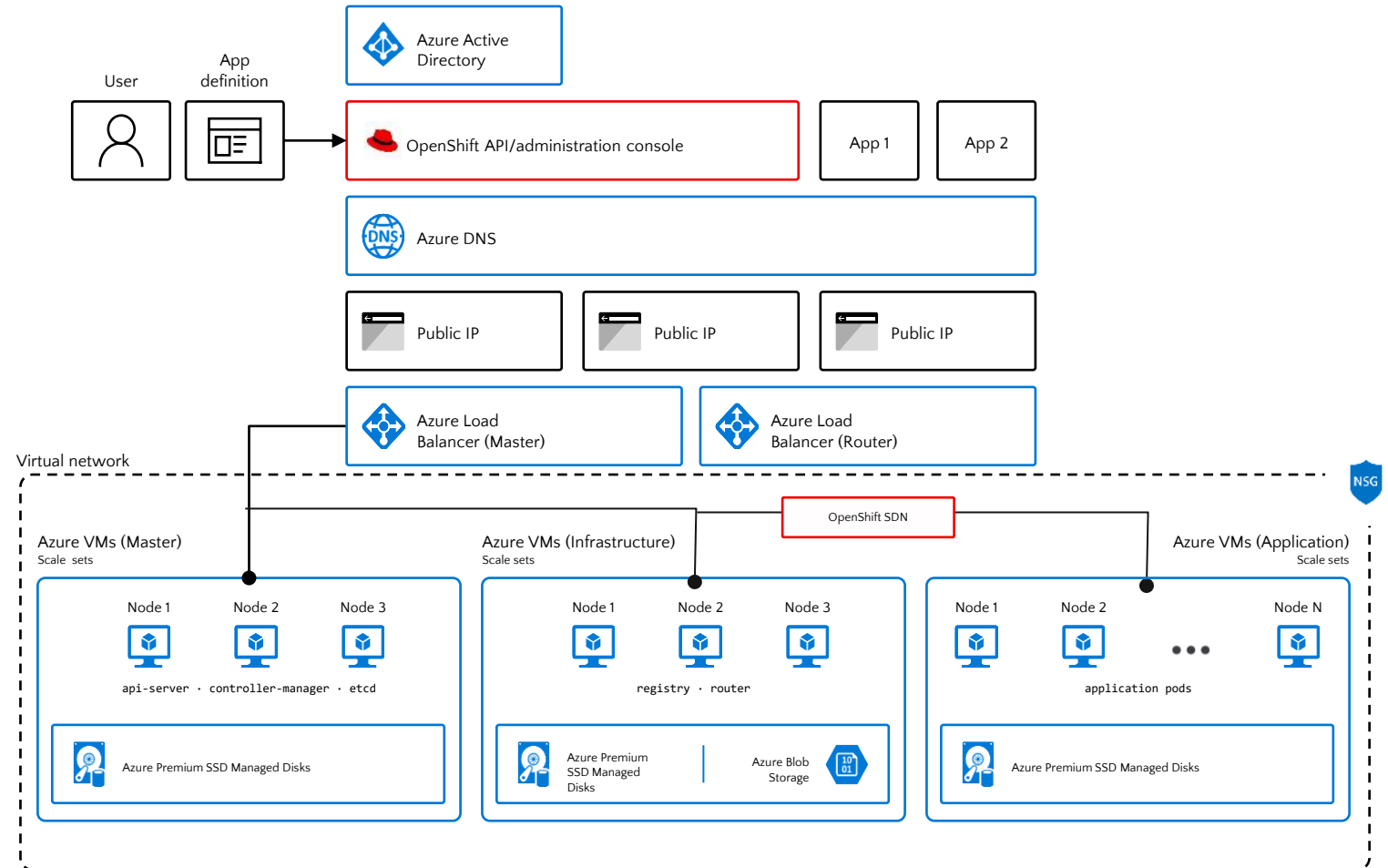
Fully managed clusters with Azure Red Hat OpenShift - ARO

Responsibilities

User management	⬜
Project and quota management	⬜
Application life cycle	⬜
Cluster creation	🔷🔺
Cluster management	🔷🔺
Monitoring and logging	🔷🔺
Network configuration	🔷🔺
Software and security updates	🔷🔺
Platform support	🔷🔺

⬜ Customer   🔷🔺 Microsoft and Red Hat

User   App definition   Azure Active Directory

OpenShift API/administration console

App 1   App 2
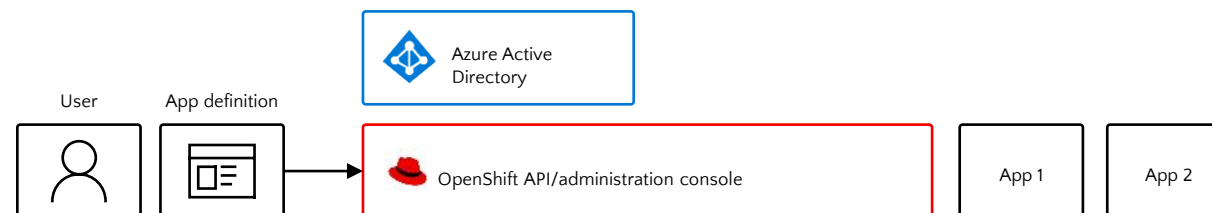
Let **Microsoft** and **Red Hat**...

Manage all your clusters.   Monitor and operate your VMs.

Secure your nodes.   Manage environment patches.

The Adaptive Cloud is not Black&White
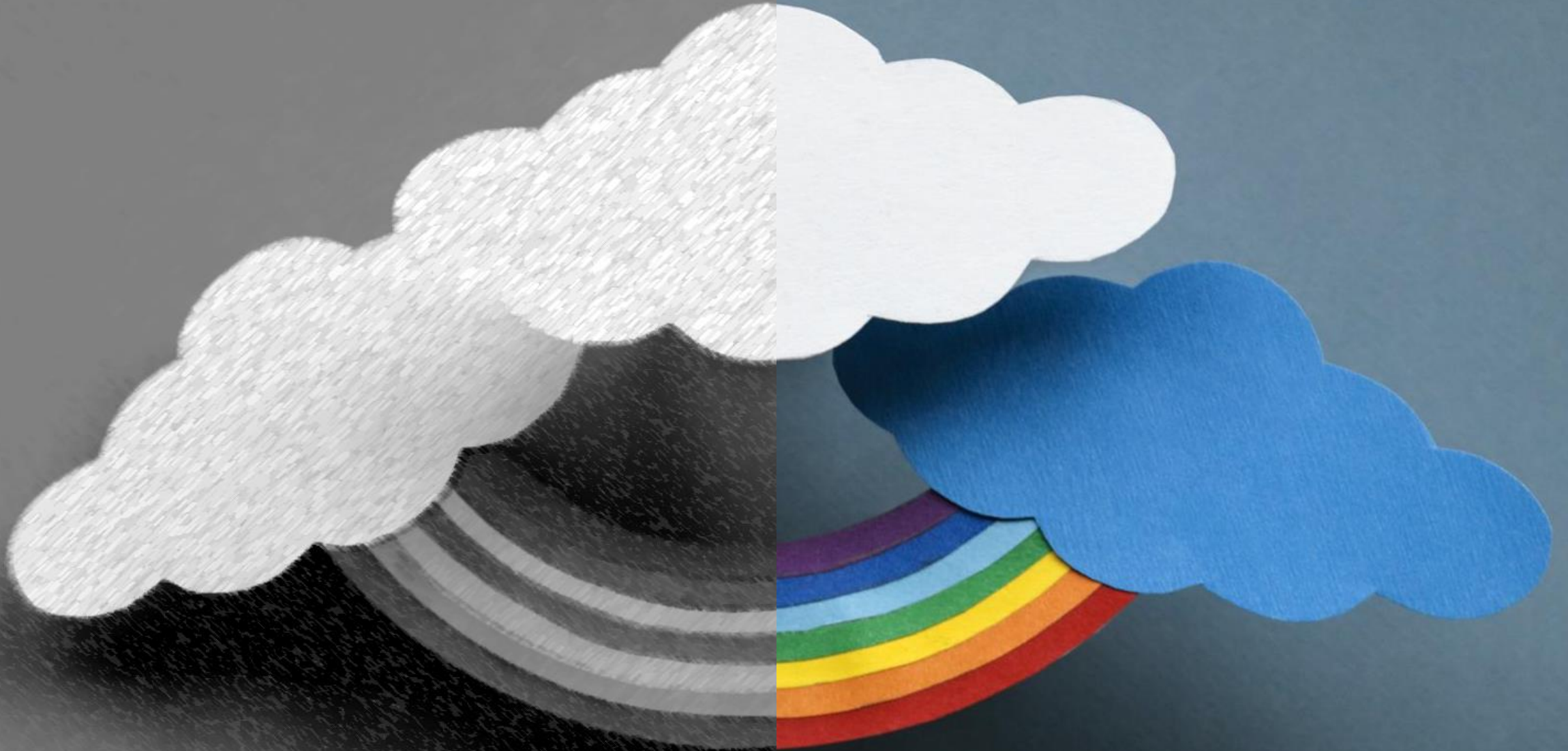
Adaptive Cloud with Azure and Red Hat

Microsoft Azure

Red Hat

+

Azure Red Hat OpenShift (ARO)
+ OpenShift Virt
+ OpenShift AI
+ Operator Hub
+ Confidential Containers [1]
+ Customer Lockbox [2]

Ansible Automation Platform

RHEL
+ certified COTS

Sovereign Public Cloud

Data stays in Europe, under European law

Operations and access controlled by European personnel

AI model choice and AI processing that stays in Europe

Sovereign Private Cloud

Continuous operations across hybrid or disconnected environments

AI capabilities and advanced GPU on-premise

Red Hat

OpenShift
+ OpenShift Virt
+ OpenShift AI
+ Operator Hub

Ansible Automation Platform

RHEL
+ certified COTS

+

Microsoft Azure

Azure Arc
+ policy, defender, RBAC, monitoring, inventory, tags
+ Azure ML (OpenShift)
AI Foundry disconnected containers (OpenShift)

- **Same platform skills, same platform engineers (OpenShift)**
- **Same DevOps, same modernization effort**
- **True Adaptive cloud – deploy to the fitting environment**
- **Unlock both Red Hat and Azure ecosystems**

1- Confidential Containers with Azure Red Hat OpenShift (Preview) - Azure Red Hat OpenShift | Microsoft Learn
2- Customer Lockbox for Microsoft Azure | Microsoft Learn

Governance and Management options

Microsoft Control Plane
with Azure Arc

Microsoft Azure

Red Hat +

Azure Red Hat OpenShift (ARO)
+ OpenShift Virt
+ OpenShift AI
+ Operator Hub
+ Confidential Containers [1]
+ Customer Lockbox [2]

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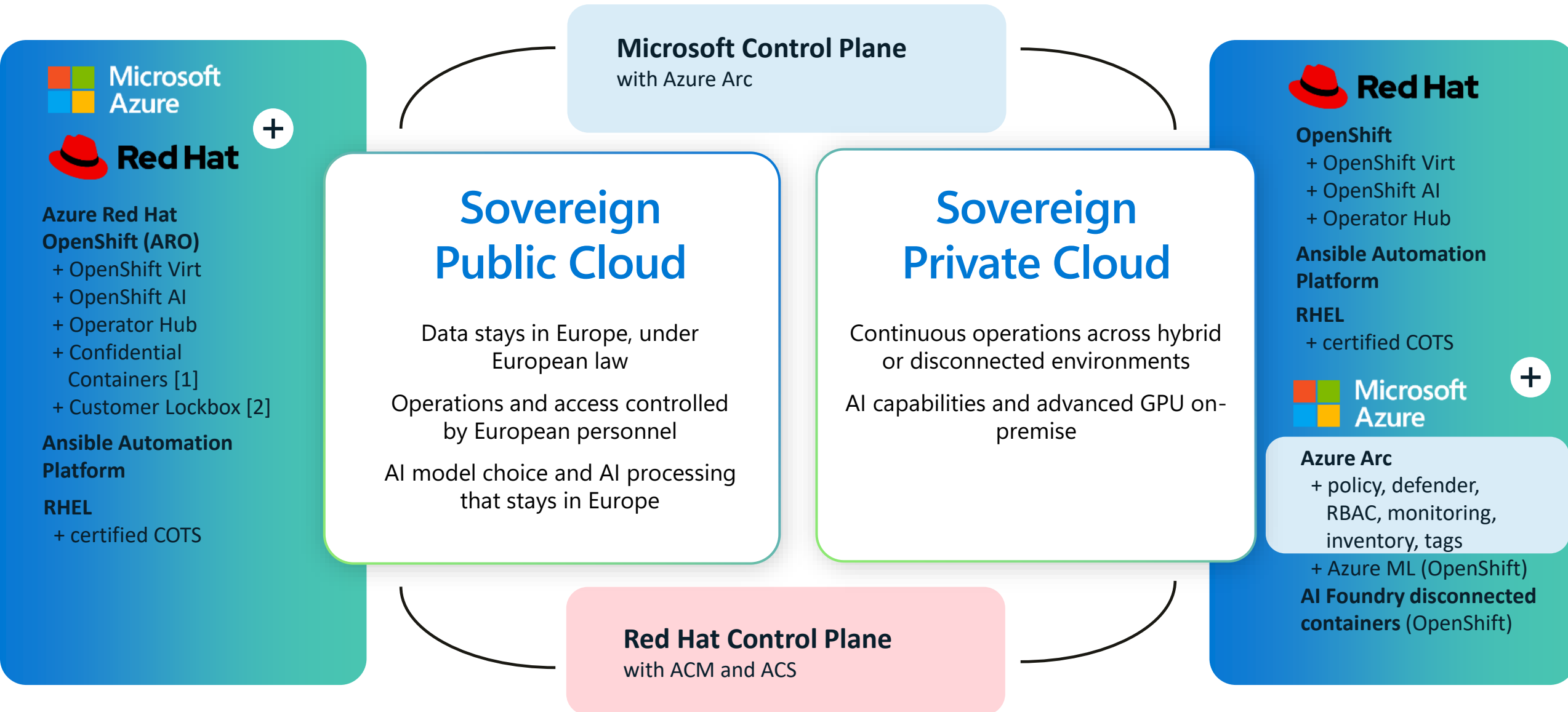**Microsoft Azure** +

Azure Arc
+ policy, defender, RBAC, monitoring, inventory, tags
+ Azure ML (OpenShift)
AI Foundry disconnected containers (OpenShift)

Red Hat Control Plane
with ACM and ACS

1- Confidential Containers with Azure Red Hat OpenShift (Preview) - Azure Red Hat OpenShift | Microsoft Learn
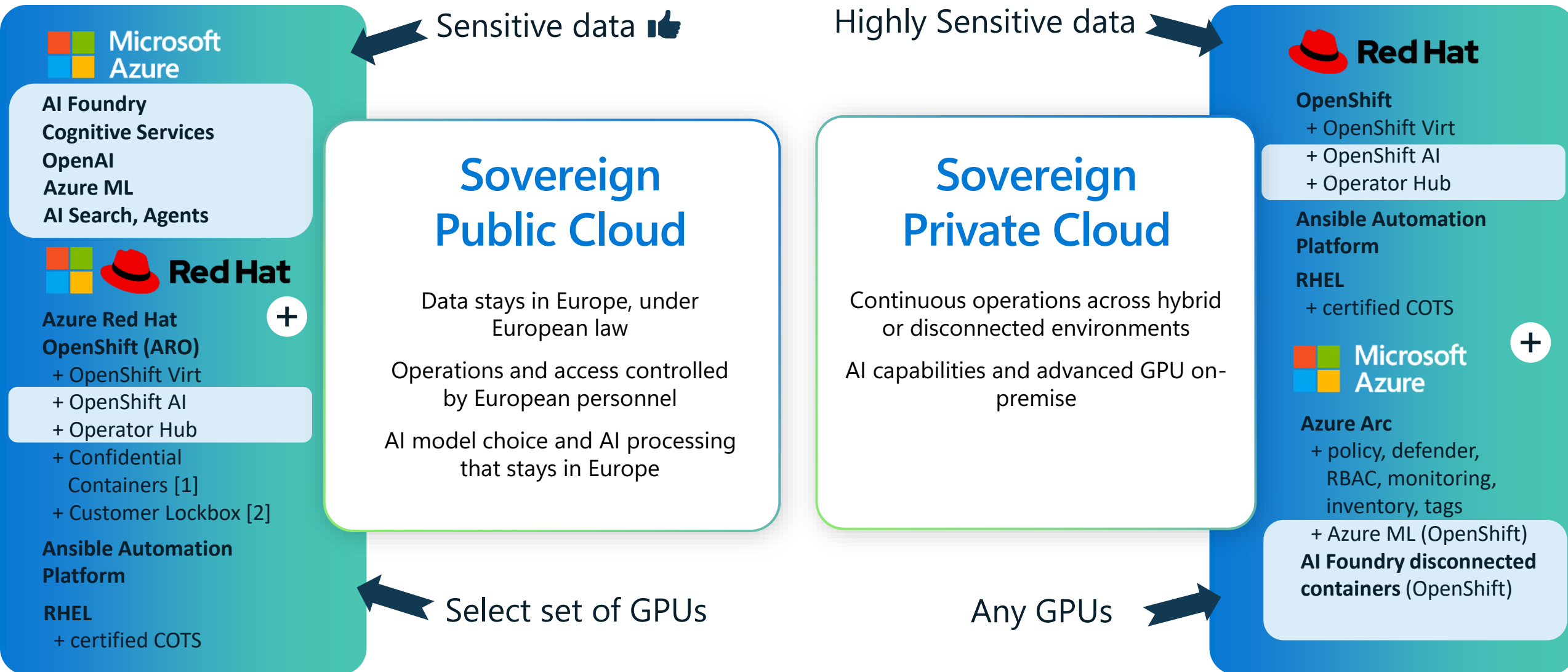2- Customer Lockbox for Microsoft Azure | Microsoft Learn

Innovate with AI optimized for the task

Microsoft Azure

AI Foundry
Cognitive Services
OpenAI
Azure ML
AI Search, Agents

Microsoft + Red Hat

Azure Red Hat
OpenShift (ARO)
+ OpenShift Virt
+ OpenShift AI
+ Operator Hub
+ Confidential
  Containers [1]
+ Customer Lockbox [2]

Ansible Automation
Platform

RHEL
+ certified COTS

Sensitive data 👍

Highly Sensitive data

Red Hat

OpenShift
+ OpenShift Virt
+ OpenShift AI
+ Operator Hub

Ansible Automation
Platform

RHEL
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Select set of GPUs

Any GPUs

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15.00 - 15.30

EFG Bank's Blueprint for Modern and Secure Operations

Join EFG Bank and Microsoft as they share their journey to the cloud powered by Azure Red Hat OpenShift. The session explores how this collaboration enabled digital transformation, modernized workloads, and streamlined operations across hybrid environments. It also highlights how Azure Red Hat OpenShift integrates seamlessly with the broader Azure ecosystem to deliver enhanced scalability, security, and operational efficiency. Attendees gain insights into the strategic impact of leveraging Azure Red Hat OpenShift in a real-world enterprise context.

Dmytro Zadorozhnyi, Senior DevOps Engineer, EFG Bank
Fabrice Krebs, Senior Solution Engineer, Microsoft
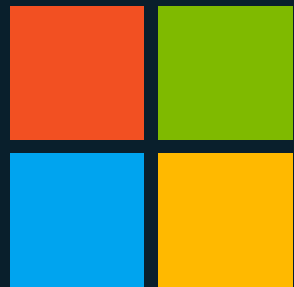
Microsoft

Empower every person
and every organization
on the planet
to achieve more