

Red Hat and Hyperscalers

Red Hat Academy 2024

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Senior Ecosystem Solution Architect





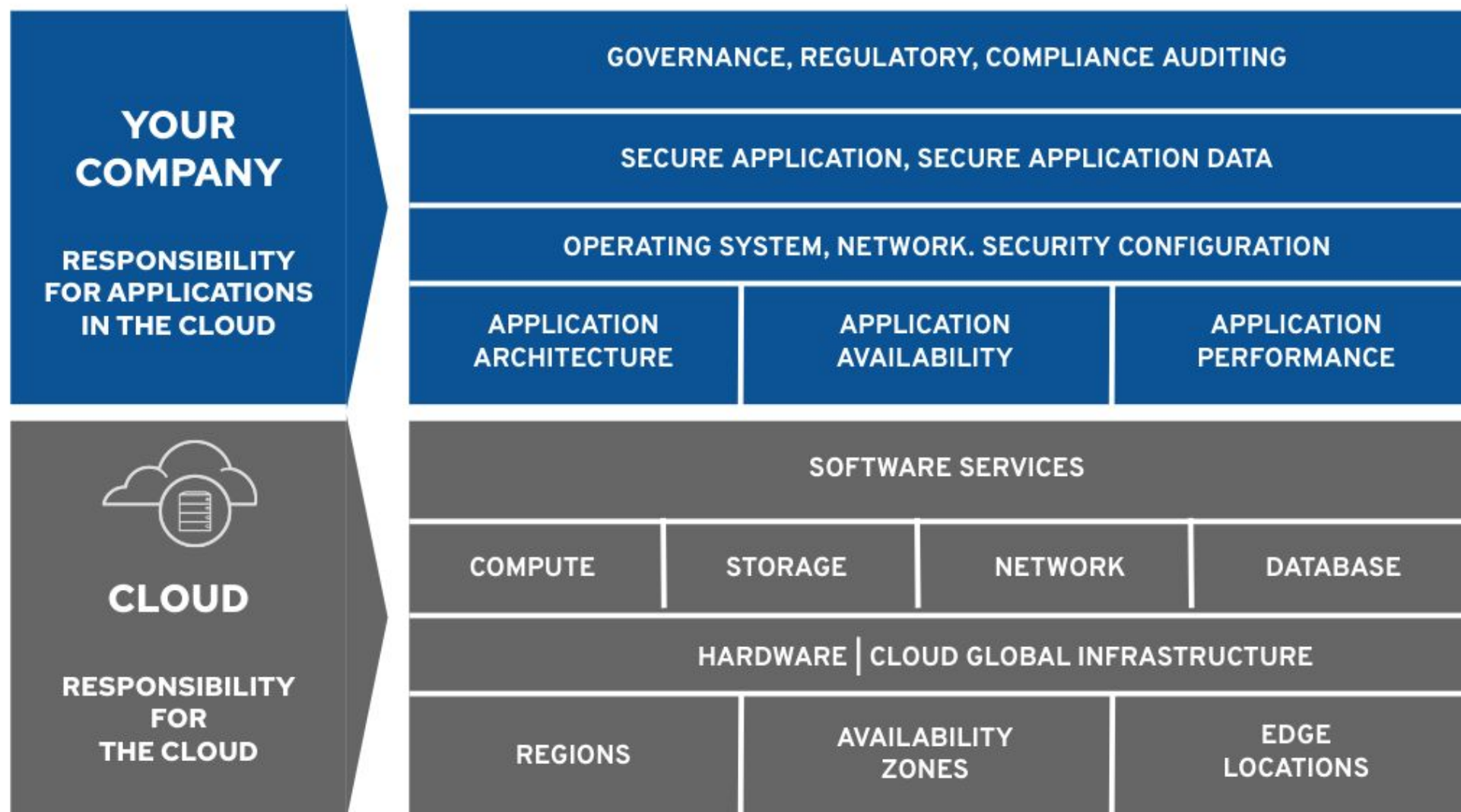
Which Red Hat product hides behind
this logo?

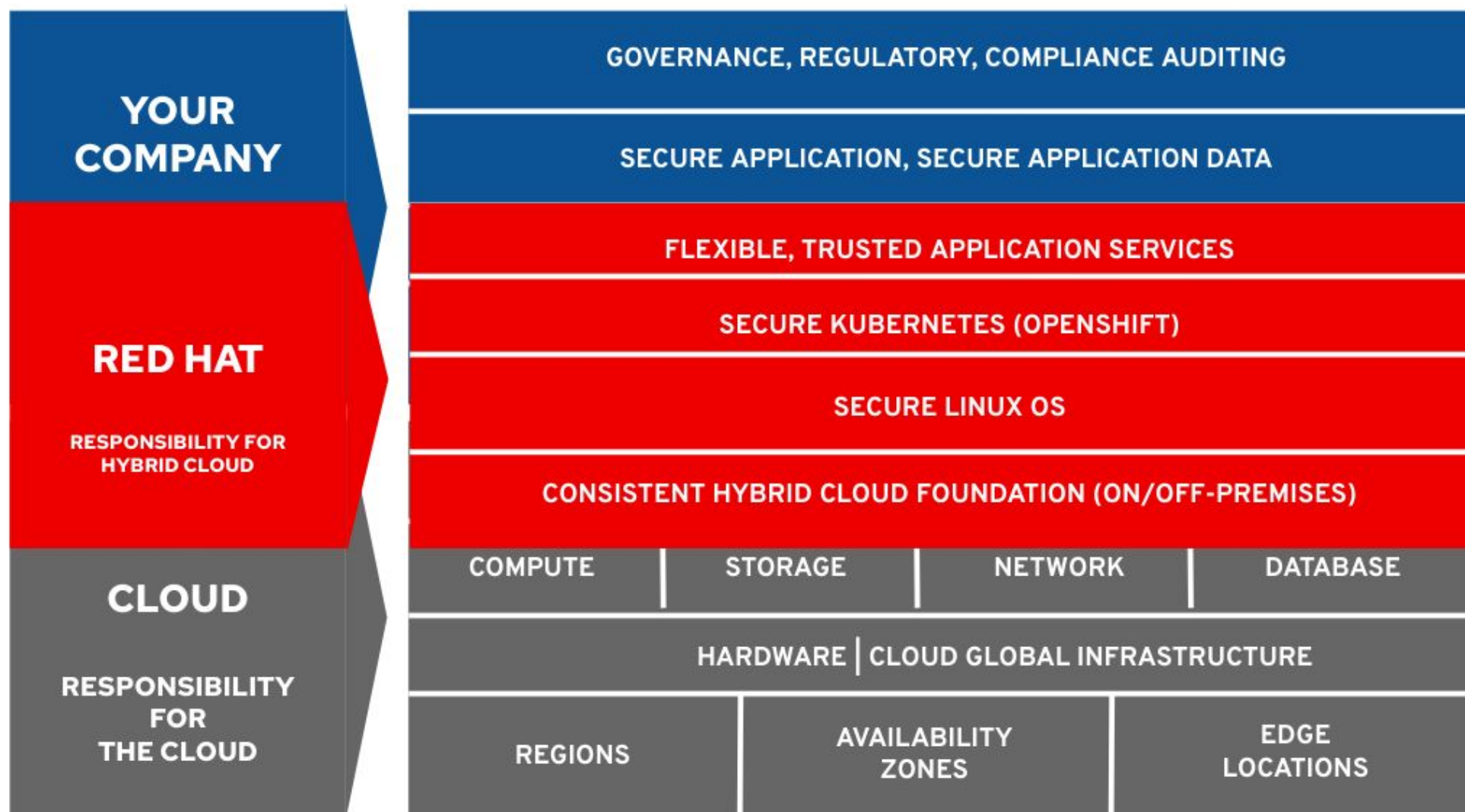
Red Hat Ansible Lightspeed with
IBM watsonx Code Assistant

Red Hat and the Hyperscalers

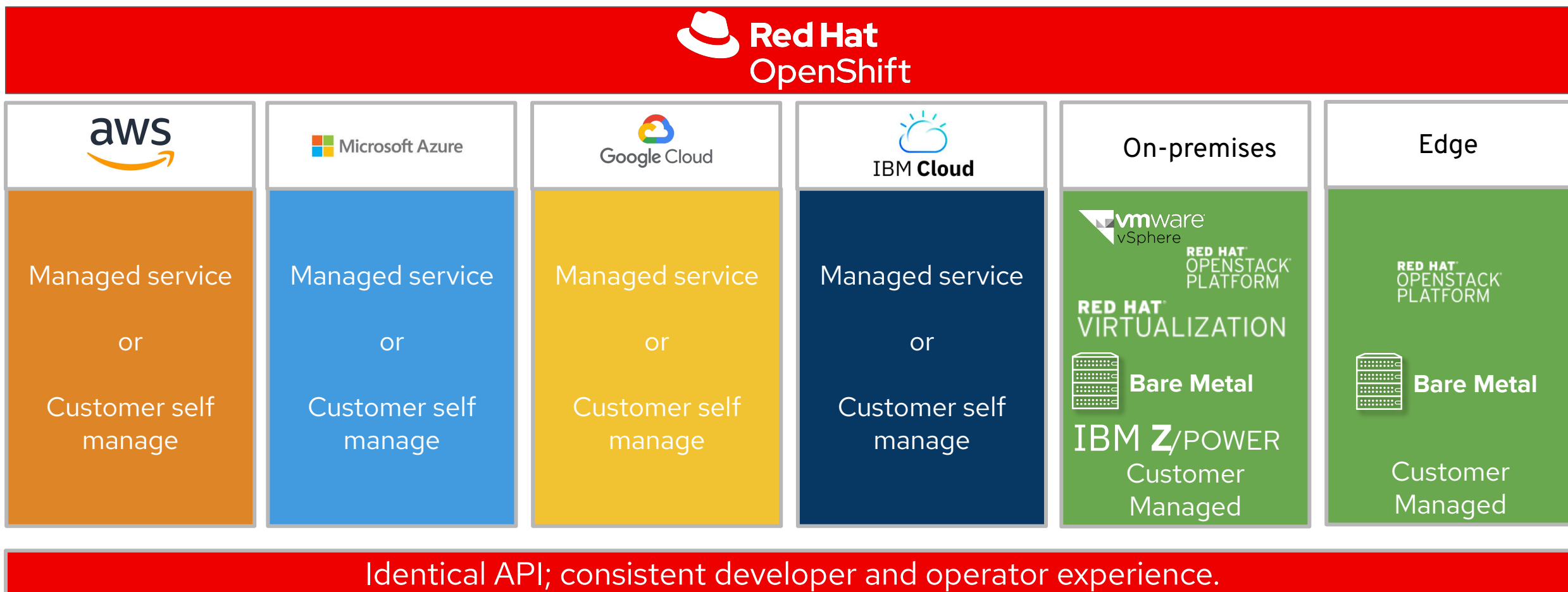
Competition or collaboration?



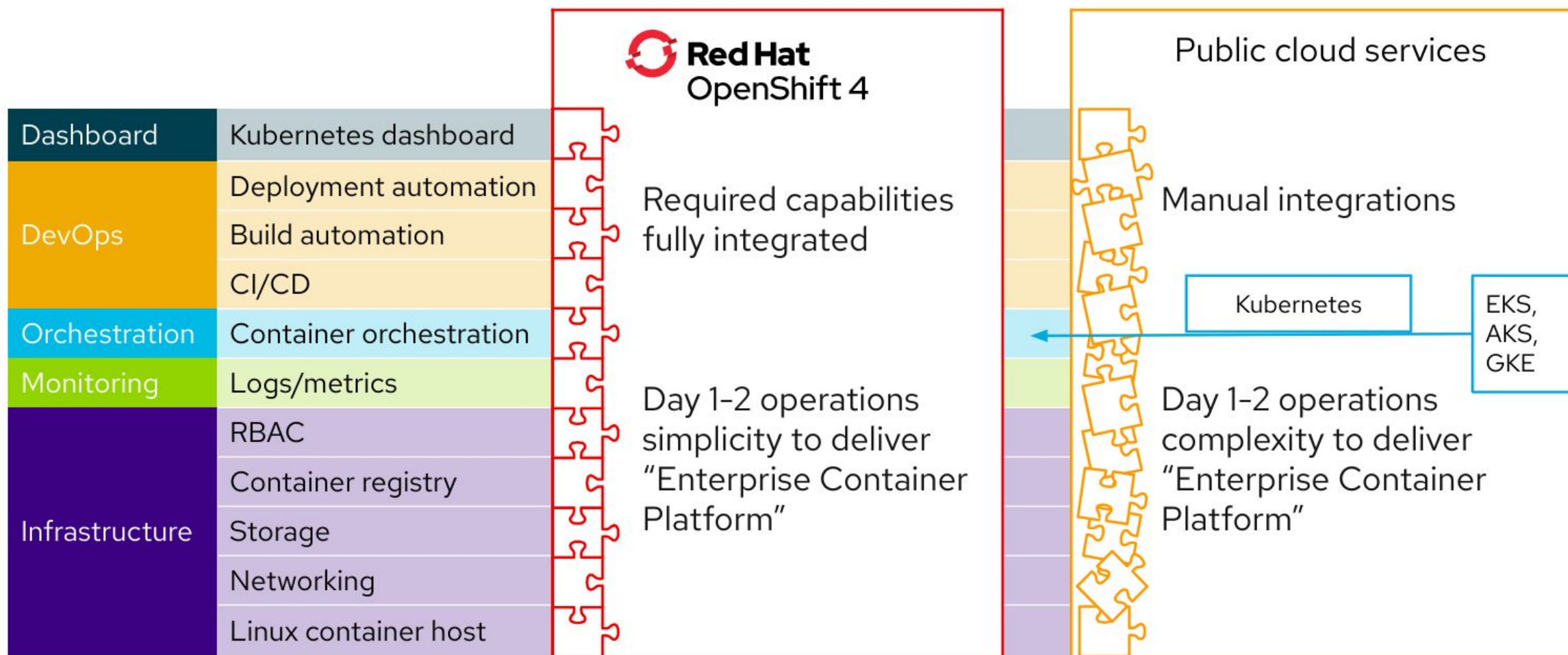




Red Hat offers the broadest set of Open Hybrid Cloud service



Openshift is a complete cloud native platform





Red Hat



Microsoft

Red Hat Solutions on Azure

Use Red Hat solutions with your Microsoft Azure consumption commitment

Hybrid cloud infrastructure solutions

Red Hat OpenShift on Microsoft Azure

Red Hat Enterprise Linux on Microsoft Azure

Azure Red Hat OpenShift (ARO)

SQL Server on Red Hat Enterprise Linux

Red Hat Enterprise Linux for SAP on Azure

Red Hat cloud access for Microsoft Azure customers

Microsoft Azure Hybrid benefits for Red Hat Enterprise Linux

Cloud-native development solutions

Red Hat OpenShift on Microsoft Azure

Azure Red Hat OpenShift (ARO)

Red Hat JBoss Application Platform (EAP) on Azure App Service

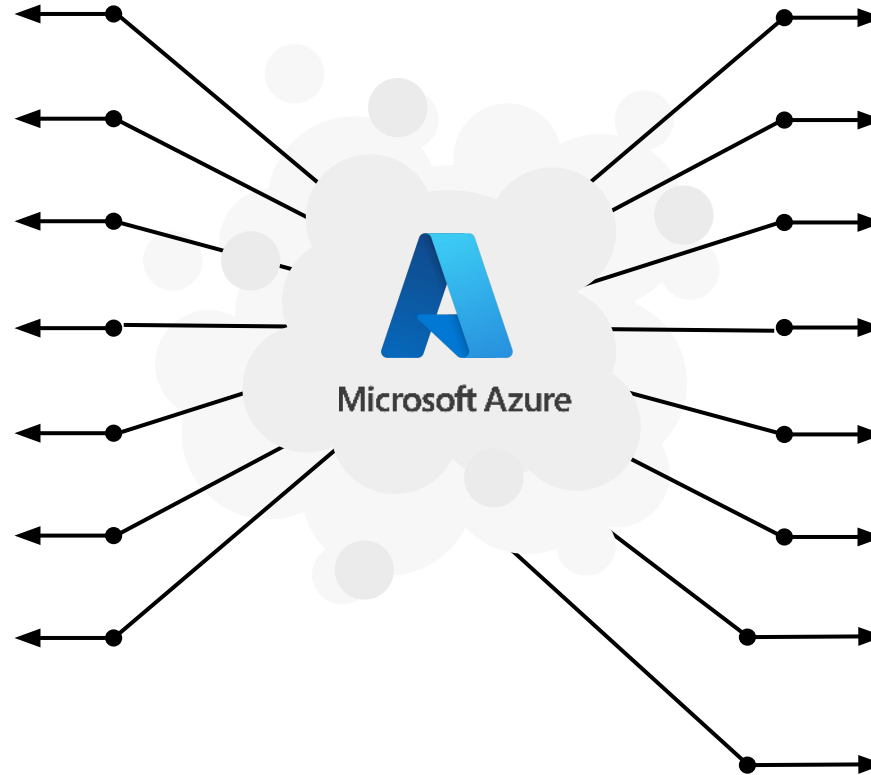
Ansible and Microsoft Azure

OpenShift with Azure Arc for Kubernetes

OpenShift with Azure Arc for data

Red Hat Ansible Automation Platform on Microsoft Azure

Red Hat JBoss EAP and OpenJDK on RHEL on Azure



= Available as a managed service

Azure Red Hat OpenShift

A jointly supported, turnkey application platform native to Azure.



Focus on innovation

Simplify operations so your teams can refocus on innovation, not managing infrastructure.

Accelerate time to value

Quickly build, deploy, and manage applications that scale as needed.

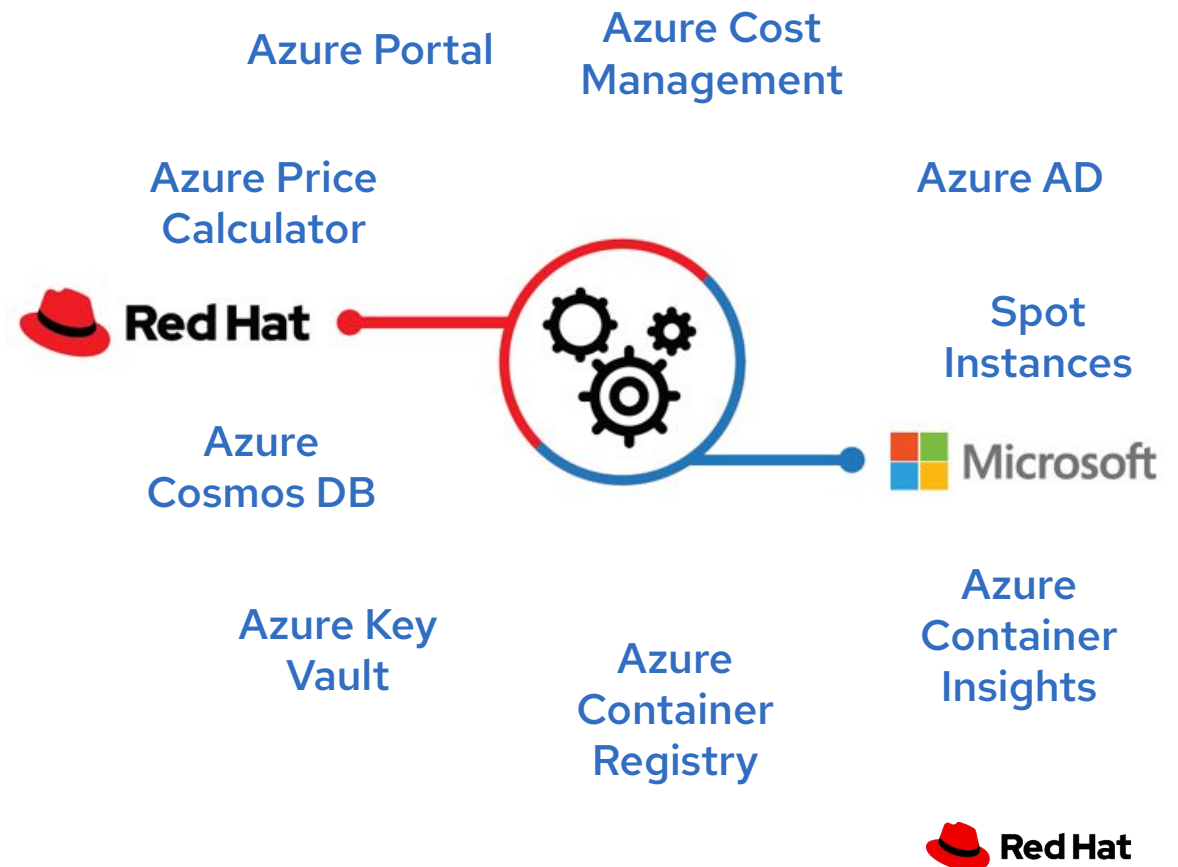
Hybrid cloud flexibility

Deliver a consistent experience on premises and in the cloud.

Operational efficiency

Enhance operational consistency, efficiency and security by proactive management and support

- Fully Managed Red Hat OpenShift service on Azure.
- Native and seamlessly integrated Azure service (see reference architecture).
- Service Level Agreement up to 99,95% availability (multi AZ deployment).
- Contributes to Microsoft Azure Consumption Commitments.
- Jointly managed and supported by Microsoft and Red Hat, including a Red Hat Site Reliability Engineering (SRE) Team.
- 60+% (PAYG) cost savings compared to self managed Red Hat OpenShift.



Reduce complexity with Azure Red Hat OpenShift

Responsibilities

User management



Project and quota management



Application lifecycle



Cluster creation



Cluster management



Monitoring and logging



Network configuration



Software and security updates

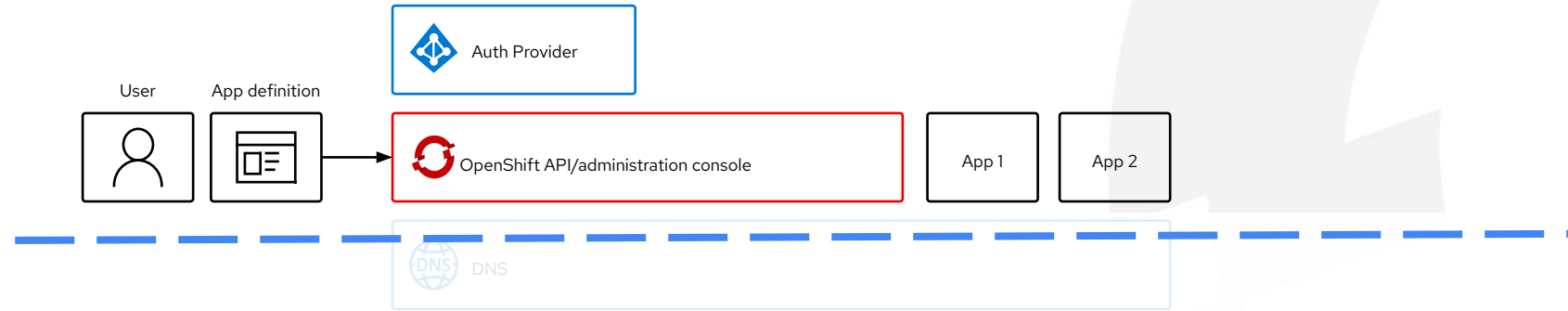


Platform support



 Customer

 Red Hat/Microsoft



Let **Microsoft** and **Red Hat**...
Manage Day 1 and Day 2 Operations

Virtual network

VMs (Master)
Scale sets

Node 1

api-server · cor

Storage

- ▶ Provisioning and managing of clusters and platform
- ▶ Automated patching and upgrade process
- ▶ Monitoring the core cluster infrastructure for security and availability
- ▶ Cluster services such as logging, metrics, monitoring and cluster portal
- ▶ Premium (24x7) Red Hat support on 'full-stack', 99.95% SLA uptime

NSG

Application
Scale sets

Node N

What do you get with ARO or AKS?

| | Azure Red Hat OpenShift (ARO) | Azure Kubernetes Service (AKS) |
|-----------------------------------|-------------------------------------|---|
| User management | ✗ Managed by customer's teams | ✗ Managed by customer's teams |
| Project and quota management | ✗ Managed by customer's teams | ✗ Managed by customer's teams |
| Application lifecycle | ✗ Managed by customer's teams | ✗ Managed by customer's teams |
| Cluster creation | ✓ Automated by Microsoft | ✗ Managed by customer's teams |
| Cluster management | ✓ Automated by Microsoft | ✗ Managed by customer's teams |
| Monitoring | ✓ Integrated into ARO | ✗ Managed by customer's teams |
| Network configuration | ✓ Integrated into ARO | ✗ Managed by customer's teams |
| Updates and upgrades of all nodes | ✓ Managed by customer and Microsoft | ✓ Control nodes managed by Azure ✗ App nodes managed by customer |
| Platform support | ✓ Managed by Microsoft SRE teams | ✓ Managed by Azure |

| | Public cloud | Azure Stack HCI | Azure Stack Hub | Single node | VMware | Open Stack |
|------------------|-------------------------------|-----------------|-----------------|---------------------|--------|------------|
| OpenShift | AWS, Azure, IBM, GCP, Alibaba | ⊗ | ✓ | RHEL Linux | ✓ | ✓ |
| AKS | Azure | ✓ | ⊗ | Windows Server 2019 | ⊗ | ⊗ |



Red Hat Services on AWS

Use Red Hat solutions with your AWS consumption commitment

Hybrid cloud infrastructure solutions

Red Hat Enterprise Linux on AWS

Red Hat Enterprise Linux with Microsoft SQL Server

Red Hat OpenShift Service on AWS (ROSA)

Red Hat Enterprise Linux for SAP

Red Hat OpenShift Container Platform

Cloud-native development solutions

Red Hat OpenShift Service on AWS (ROSA)



= Available as a managed service

Red Hat OpenShift Service on AWS

A turnkey application platform native to AWS



Focus on innovation

Simplify operations so your teams can refocus on innovation, not managing infrastructure.










Accelerate time to value

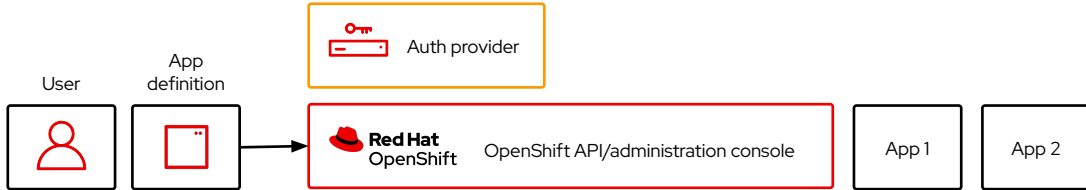
Quickly build, deploy, and manage applications that scale as needed.

Hybrid cloud flexibility

Deliver a consistent experience on premises and in the cloud.

Simplify cluster operations with ROSA

| 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 |  |



Let AWS and Red Hat...

Manage all your clusters.
Secure your nodes.

Monitor and operate your VMs.
Manage environment patches.

Get quick access to ROSA

- ▶ First-party AWS solution.
- ▶ Access directly from AWS Console.
- ▶ Sign up, deploy, and pay only for what you use.

The screenshot displays the AWS console interface for the Red Hat OpenShift Service on AWS. The top navigation bar includes the AWS logo, a search bar, and user account information. The main content area features the service title and a large orange button labeled 'Enable OpenShift', which is pointed to by a red arrow. Below the main heading, a 'How it works' section outlines the deployment process in four steps: Configure permissions, Download CLI, Provision cluster, and Deploy your applications. To the right, a 'Pricing (US)' section indicates a control plane cost of \$0.03/hour. The bottom right corner contains a 'Getting started' section with links to the AWS Product Page and the Installation Guide.



Red Hat Services on Google Cloud

Use Red Hat solutions with your Google consumption commitment

Hybrid cloud infrastructure solutions

Red Hat Enterprise Linux on Google Cloud

Red Hat Ansible Automation Platform on Google Cloud

Red Hat OpenShift Dedicated on Google Cloud

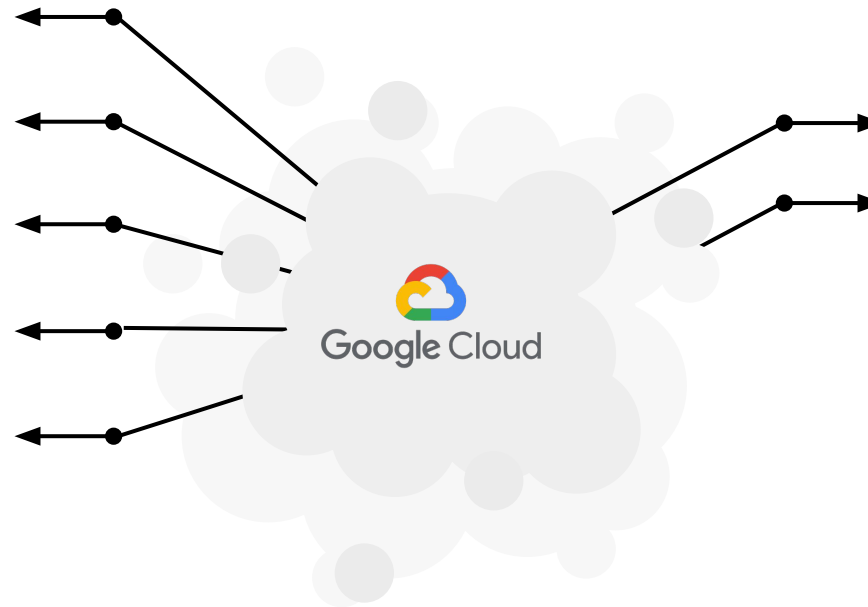
Red Hat Enterprise Linux for SAP Solutions on Google Cloud

Red Hat OpenShift on Google Cloud

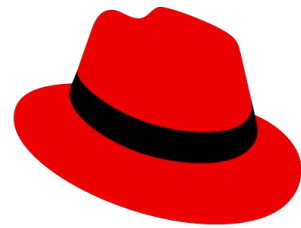
Cloud-native development solutions

Red Hat OpenShift on Google Cloud

Red Hat OpenShift Dedicated on Google Cloud



= Available as a managed service



Red Hat

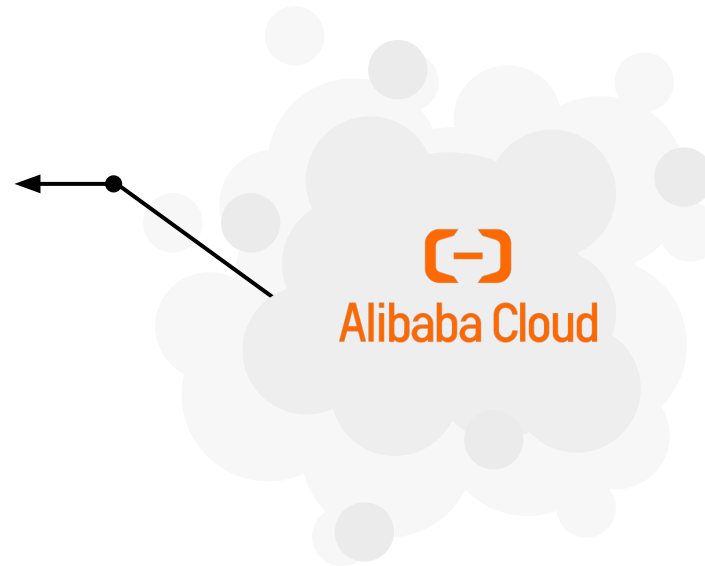
Alibaba Cloud

Red Hat Services on Alibaba Cloud

Hybrid cloud infrastructure solutions

Cloud-native development solutions

Red Hat Enterprise Linux on Alibaba Cloud



= Available as a managed service

Red Hat and the Hyperscalers

Competition and collaboration!



Thank you

Red Hat is the world's leading provider of enterprise open source software solutions. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500.



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