



Connect

Modernize Everything: VMs and Containers on One Platform



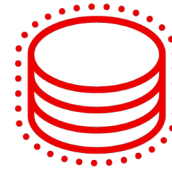
Why is now a good time to start (or accelerate) your app modernization?



Innovation drives opportunity. AI is changing the way we operate.



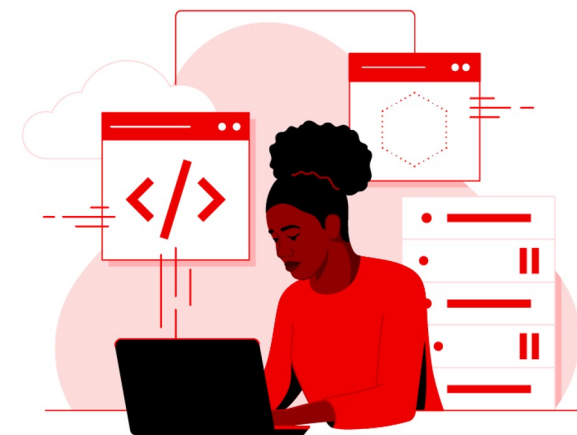
Increase reliability and mitigate risks.



Scale in the hybrid cloud.

76% of organizations say the **cognitive load is so high** that it is a **source of low productivity**.

74% of technology leaders are **outsourcing** the implementation, maintenance and optimization of their cloud platforms.



Source: [Salesforce](#)

Source: [Pulse](#)

The Red Hat and Microsoft partnership

Creating choice and flexibility.

- ▶ Trusted global partners
- ▶ Flexible hybrid cloud deployments
- ▶ Simplified container technologies
- ▶ Interoperable AppDev capabilities
- ▶ Collaborative engineering
- ▶ Rigorous security
- ▶ Unified management
- ▶ Integrated support

95%

of Fortune 500 companies
use Microsoft Azure

90%

of Fortune 500 companies
rely on Red Hat

Red Hat® Enterprise Linux® on Microsoft Azure
Azure Red Hat OpenShift®
Ansible on Microsoft Azure
Microsoft SQL Server on RHEL and Microsoft Azure
Microsoft SQL Server big data clusters on OpenShift
RHEL for SAP Solutions on Azure
JBoss EAP
Microsoft Azure Arc

Azure Red Hat OpenShift

A jointly supported, turnkey application platform native to Azure.



- Comprehensive application platform
- Hybrid cloud flexibility
- Fully managed Day 2 operations
- Integrate with Azure services
- Consistent updates and patches
- Single invoice and draw down on MACC

65%

Shortened dev cycle¹

50%

Improved operational efficiency¹

¹ "The Total Economic Impact™ of Red Hat OpenShift Cloud Services by Forrester, "Mar. 2024.

Fully managed clusters with Azure Red Hat OpenShift

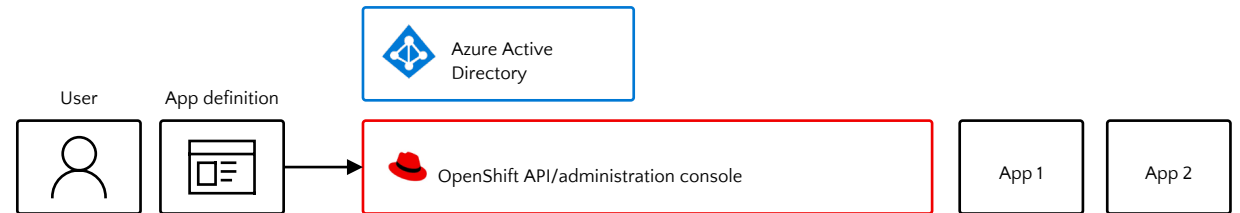
Responsibilities	
User management	■
Project and quota management	■
Application life cycle	■
Cluster creation	■
Cluster management	■
Monitoring and logging	■
Network configuration	■
Software and security updates	■
Platform support	■



Customer



Microsoft and Red Hat



Let Microsoft and Red Hat...

Manage all your clusters.

Secure your nodes.

Monitor and operate your VMs.

Manage environment patches.



Red Hat



Microsoft

Azure Red Hat OpenShift is a joint, 1st party Azure solution.



Integrated Dev tools and
cloud native services



Joint
Support & Engineering



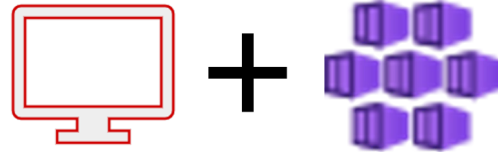
Security, resilience
and compliance



Single invoicing, utilize
cloud committed spend

New features

Public preview



OpenShift virtualization on Azure Red Hat OpenShift (ARO)

Run VMS and containers together. Simplify modernization. Accelerate cloud adoption.

Migrate Virtual Machines
Seamlessly

Modernize Applications at
Your Pace

Unified Management for
VMS and Containers

Virtualization on ARO accelerates the migration of VMs while offering the cloud flexibility to modernize

Use Cases

Migrate VMs as is to the cloud

Modernize apps with cloud-native tech

Why Virtualization on Azure Red Hat OpenShift

Public preview

- Migrate & modernize at **your own pace** on a **consistent** platform
- Traditional VM behavior & existing VM roles in a modern platform
- Built on a trusted platform
- **Accelerated migration** with a 1st party Azure solution
- Cloud flexibility with pay-as-you-go pricing and dynamic resource scaling

ARO Managed Identity and Workload Identity

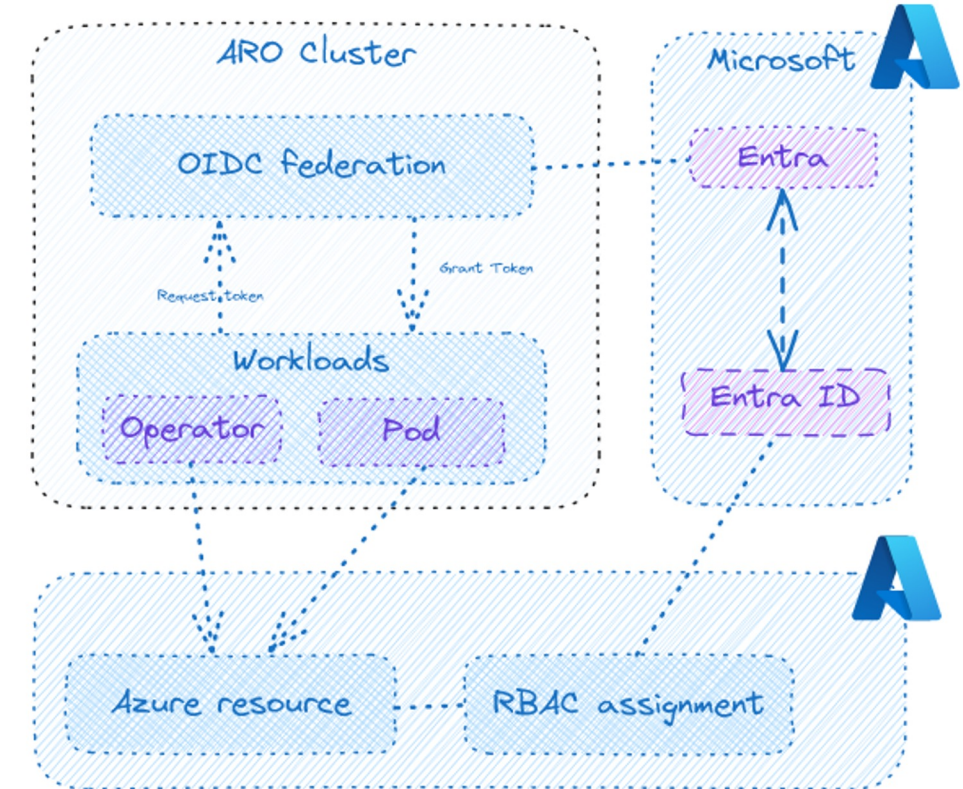
Public preview

Key Components

1. **Short-term** token based authentication
2. **Minimal set of permissions** - Abiding by the principle of least privilege

Benefits

- **Improved security with granular permissions** - each component only has the permissions it needs to complete its function
- **Reduced operational burden** - no need to manage and rotate long lived Service Principal credentials
- **Simplified access control** by using Azure RBAC role assignments

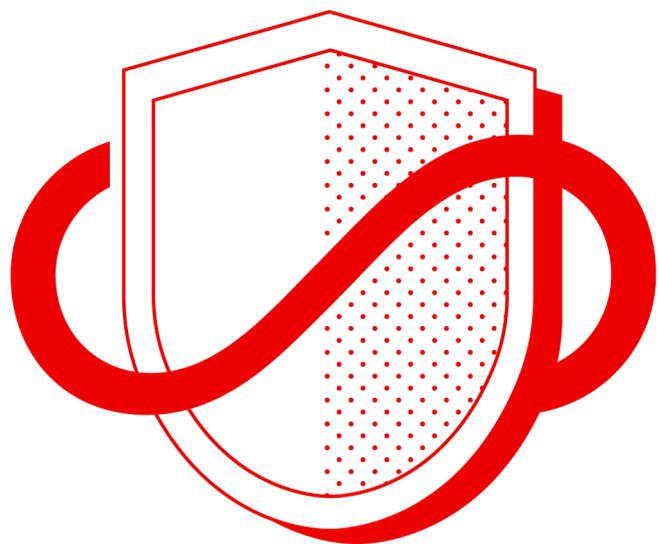


ARO Confidential Containers

Public preview

Key Components

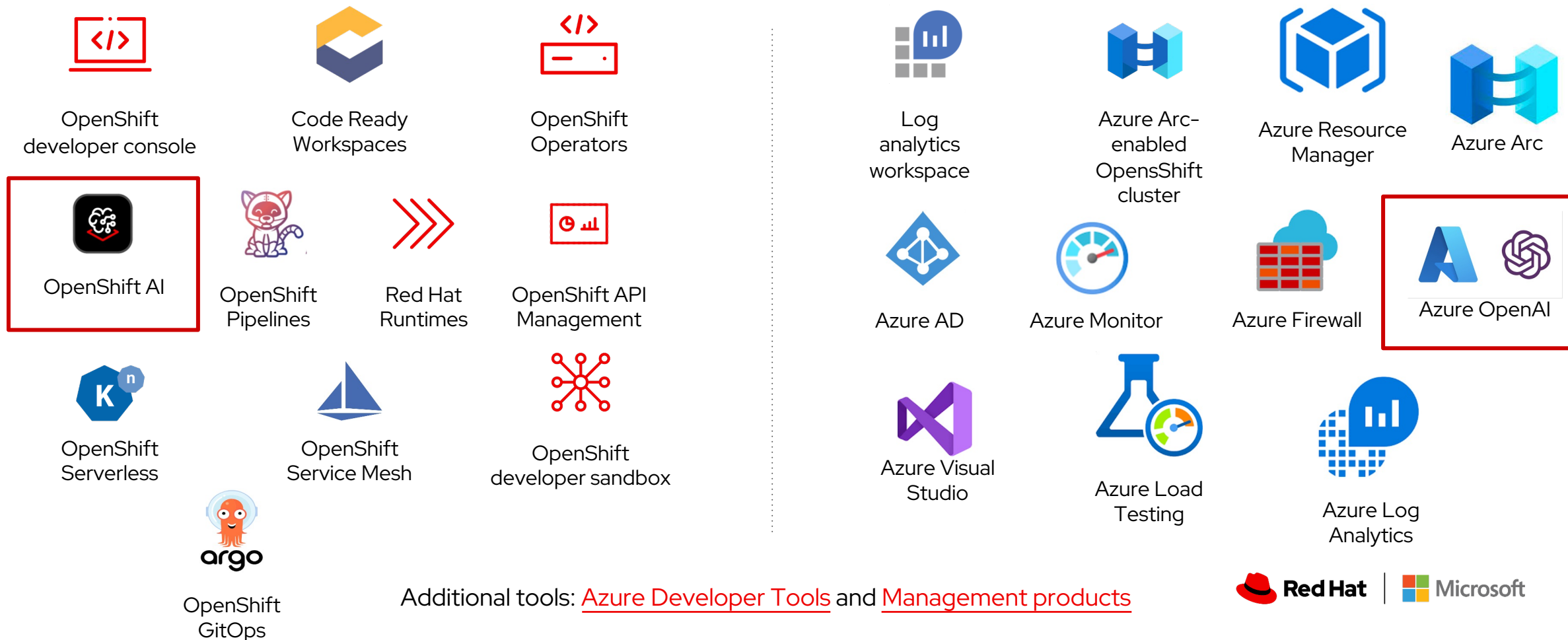
- **Separate confidential environment** – containers operate in a separate Confidential VM (CVM)
- **Trusted Execution Environment (TEE)** – provides encrypted memory enclaves to protect data



Benefits

- **Enhanced security** posture for container workloads with hardware-level isolation
- **Protects sensitive information** by encrypting data in use, at rest, and in transit
- **Zero-Trust security model** that strictly limits access from unauthorized individuals

Azure Red Hat OpenShift integrates with OpenShift and Azure Developer and Management Tools



Use Cases

A comprehensive platform for all of your workloads



App migration and
modernization on
Azure



AI enabled applications



Commercial off the
shelf software (COTS)

And more.



Connect

Thank you