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RedHat Openshift on Azure Briefing

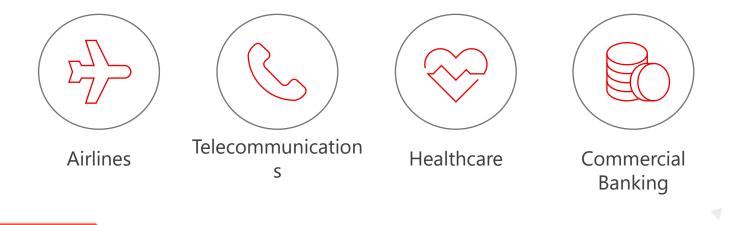
Presented by MetaAge

Agenda

- What is RedHat OpenShift
- RedHat OpenShift on Azure
 - Architecture
 - Features
 - Benefits

100%

of the Fortune Global 500 companies in these industries rely on Red Hat



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Creating value by delivering applications faster



Containers, Kubernetes, and hybrid cloud are key ingredients



Kubernetes done right is hard

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of enterprise users say the complexity of implementation and operations are the top blockers to adoption

15%

Kubernetes done right is hard



Cluster & App Elasticity Monitor, Alert, Remediate

Log Aggregation

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Containers come with their own challenges



Container security Image scanning, patching, and compliance



Day 2 management

Install, upgrade, and maintain Integrate existing enterprise technology

Application delivery

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Monitoring, metering, and management Integrate existing developer tools



A cloud-like experience, everywhere

Full-stack and automated operations on a consistent foundation for on-premises or hybrid cloud infrastructures

Continuous security, world-class support and services and deep expertise to confidently run any application

Empowering developers to innovate

Trusted enterprise Kubernetes

Get applications to production sooner with a wide range of technologies and streamlined workflows

There are two ways to run OpenShift on Azure

OpenShift Container Platform on Virtual Machines

Deploy through <u>cloud.redhat.com/openshift</u> Self-managed on infrastructure as a service (laaS) Bring your own license

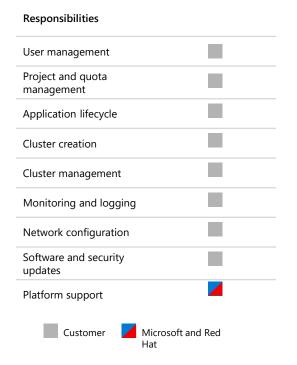
Azure Red Hat OpenShift

Deployed through the Azure Portal or the Azure CLI Fully-managed and supported Red Hat OpenShift platform Billing integrated in your Azure subscription

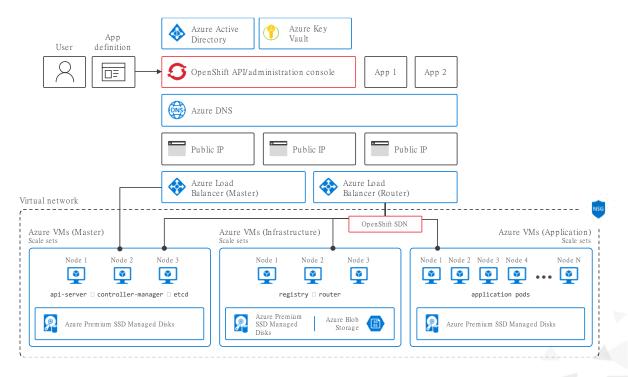


OpenShift Container Platform on Virtual Machines

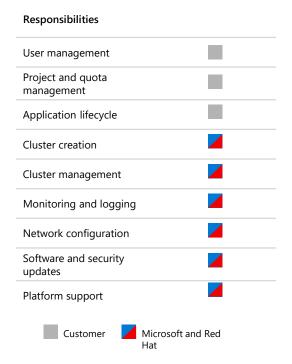
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Fully-managed clusters with Azure Red Hat OpenShift



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Let Microsoft and Red Manage all your clusters Hat....Monitor and operate your Secure your nodes VMs Manage environment patches

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Azure Red Hat OpenShift

Jointly engineered, operated, and supported by both **Microsoft** and **Red Hat** with an integrated support experience

Build, deploy and scale apps with confidence

In just minutes, deploy enterprise-grade Red Hat OpenShift clusters on Azure



Enterprise-grade operations, security and compliance Deploy your business-critical apps with confidence with an industryleading SLA of 99.9% availability, with PCI DSS, HITRUST and FedRAMP certifications.

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Empowering developers to innovate

Promote developer productivity with built-in CI/CD pipelines, then easily connect your applications to hundreds of Azure services such as MySQL, PostgreSQL, Redis, Cosmos DB, and more.

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Scale on your terms

Start a highly available cluster in a few minutes, then scale as your application demand changes; plus, get your choice of standard, high-memory, or high-CPU application nodes. Pay through your Azure subscription.

Azure Red Hat OpenShift running on OpenShift 4



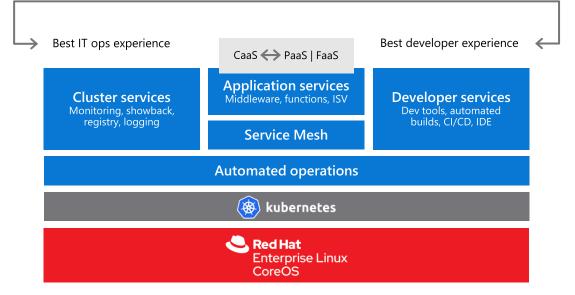
OpenShift 4 – a smarter Kubernetes platform

Up and running in minutes from the container host to application services.

Scales with your needs from 10 containers to thousands.

One-click updates for platform, services, and applications

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What's new when running on OpenShift 4.5

Kubernetes 1.18 on Red Hat Enterprise Linux CoreOS

An immutable, container optimized, Linux OS host that is delivered and installed as a component of OpenShift.

Private cluster management and ingress endpoints

Choose between public and private endpoints.

Cluster-admin role

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Full cluster administrator capabilities enabling running privileged containers and installing Custom Resource Definitions (CRDs).

Bring your own Virtual Network

Create clusters into your own Virtual Network and connect to onpremises environments using Azure Express Route.

Multi-Availability Zones clusters

To ensure the highest resiliency, cluster components are deployed across 3 Azure Availability Zones in supported Azure regions.

Bring your own identity provider

In addition to Azure Active Directory, configure supported OpenShift identity providers, for example using OpenID Connect.

Industry compliance certifications

Certified for PCI DSS, HITRUST and FedRAMP.

FIPS 140-2 Level 1 compliant encryption

Strong encryption controls to protect sensitive data including platform secrets and application configuration data.

Operator Framework

Support for community and certified operators with developer self-service as well as Custom Resource Definitions (CRDs).

OpenShift Service Mesh

Integrated Service Mesh for enhanced security and network segmentation of microservices applications, based on Istio, Jaeger and Kiali.

OpenShift Serverless (Tech Preview)

Build functions based applications that can scale to zero, based on the Knative framework.

OpenShift Do (odo)

A fast, iterative, and straightforward CLI tool for developers who write, build, and deploy applications on OpenShift.

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Thank You

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