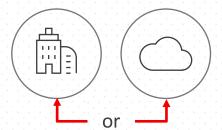


## Why customers choose OpenShift

Trusted enterprise Kubernetes



One platform hybrid choice



Empower developers



Open source innovation









Azure Red Hat OpenShift

### Azure Red Hat OpenShift

Fully managed Red Hat OpenShift service

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 enterprisegrade Red Hat OpenShift clusters on Azure



Enterprise-grade operations, security and compliance Deploy your business-critical apps with confidence with an industry-leading SLA of 99.9% availability



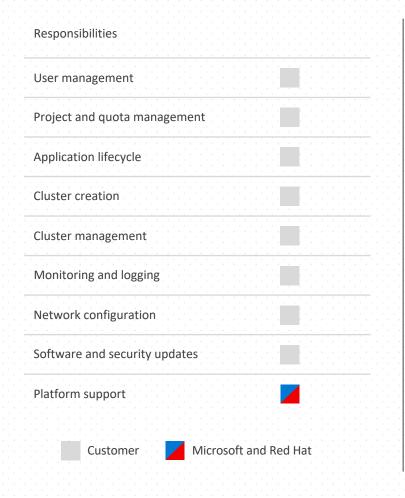
Empowering developers to innovate Promote developer productivity with built-in CI/CD pipelines, then easily connect your applications to hundreds of Azure services such as MySQL, PostgreSQL, Redis, Cosmos DB, and more

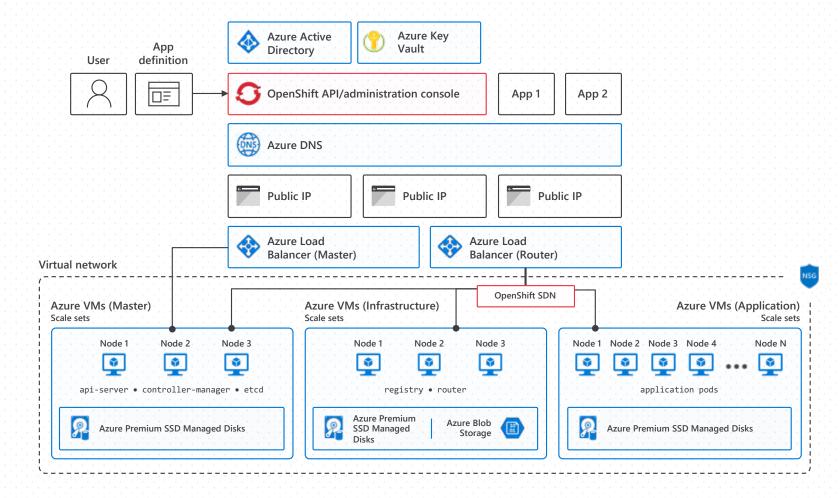


Scale on your terms

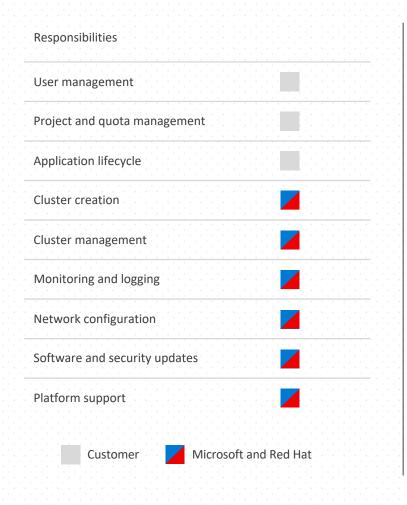
Start a highly available cluster with four application nodes in a few minutes, then scale as your application demand changes; plus, get your choice of standard, high-memory, or high-CPU application nodes

### Running your own Red Hat OpenShift cluster





## Simplify cluster operations with Azure Red Hat OpenShift





Secure your nodes

#### Let Microsoft and Red Hat...

Manage all your clusters Monitor and operate your VMs

Manage environment patches

#### Azure Red Hat OpenShift features

Flexible, self-service deployment

Create fully managed OpenShift clusters in minutes

Cluster node scaling

Easily add or remove compute nodes to match resource demand

Azure Active Directory integration
 Use Azure Active Directory to control access to your cluster with an integrated sign-on experience

Fully managed clusters

Master, infrastructure, and application nodes are managed by Microsoft and Red Hat; plus, no VMs to operate and no patching required

Virtual Network integration
Deploy your cluster into a new VNet, then use
VNet peering to connect to your existing VNet
and on-premises networks

High availability
Multiple masters and infrastructure nodes help ensure

your cluster has no single point of failure

First party Azure service
Clusters are deployed into your Azure subscription and included on your Azure bill

Persistent storage volumes
Azure Disk is pre-configured as the default storage class,
providing dynamically provisioned Premium SSD's ondemand

Unified support

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

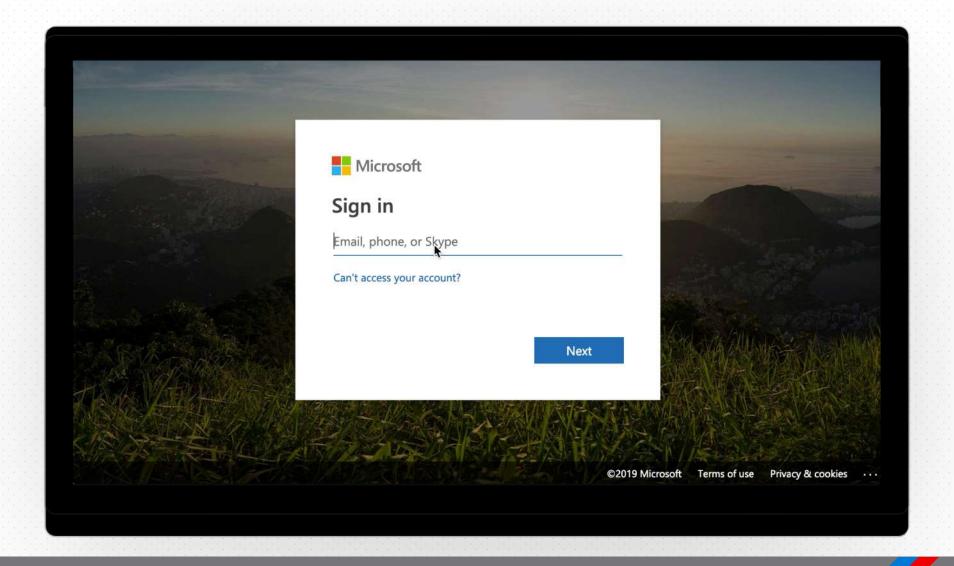


# Flexible, self-service deployment

Create fully managed OpenShift clusters in minutes using az openshift create



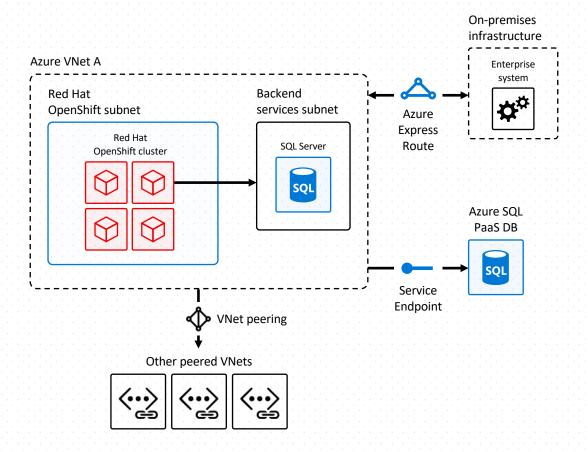
## Azure Active Directory integration—integrated sign-on



### Virtual Network integration

# Deploy clusters into Virtual Network, then use VNET peering to connect to your networks

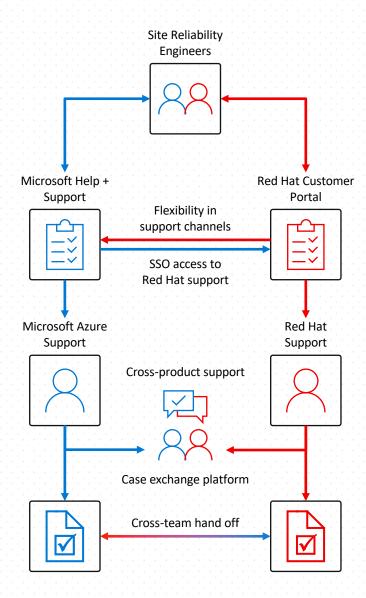
- Connect to-premises infrastructure
- Use Service Endpoints



#### Unified support and operations

# Jointly engineered, operated, and supported by Microsoft and Red Hat

- In-portal integrated support experience is available 24x7
- ISO 27001 compliant B2B communication channel
- Co-located support with Red Hat on-site team
- Integrated case systems
- Microsoft and Red Hat security response team collaboration



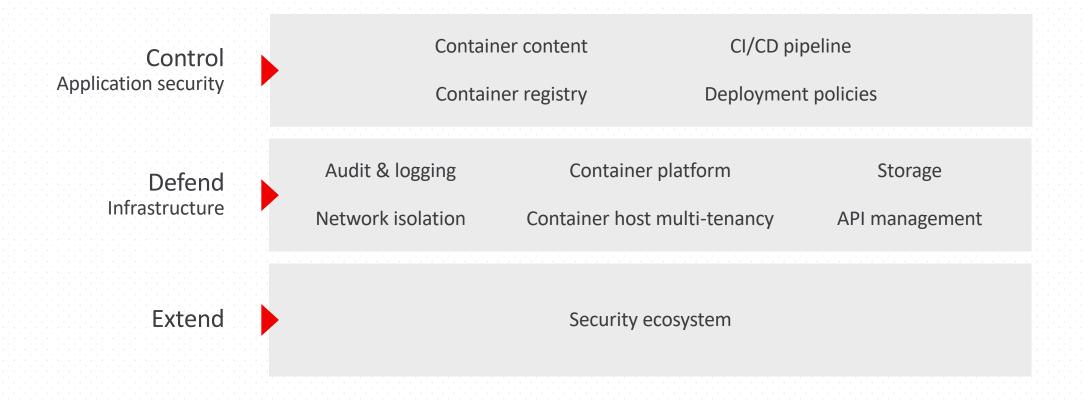
### Hardened enterprise security for Kubernetes

#### OpenShift is Kubernetes for the enterprise

- Authentication: Use Azure Active Directory to access the cluster
- TLS support: Strong encryption with TLS 1.2 by default
- Bring your own certificates and key rotation: Ability
  to bring your own certificates and rotate keys when necessary
- Virtual Network integration: Deploy your cluster into a new Virtual Network, then use VNET peering to connect to your existing Virtual Network and on-premises networks



## Comprehensive container security



Empowering developers to innovate

#### Familiar Red Hat OpenShift developer experience

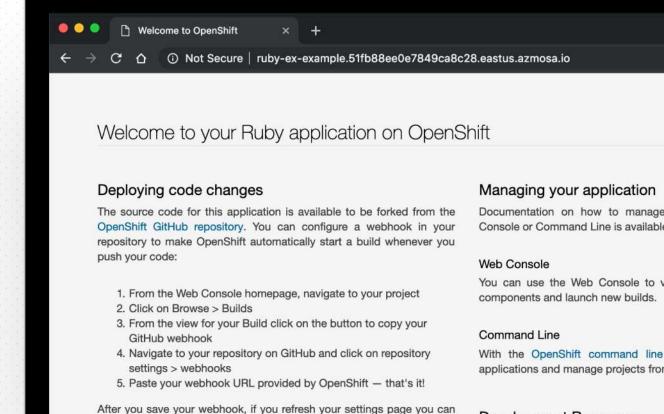
Use the tools and commands you already know

oc login <cluster endpoint> --token=<token>

oc new-project example

oc new-app <path to source code>

oc expose svc/ruby-ex



see the status of the ping that Github sent to OpenShift to verify it can

reach the server.

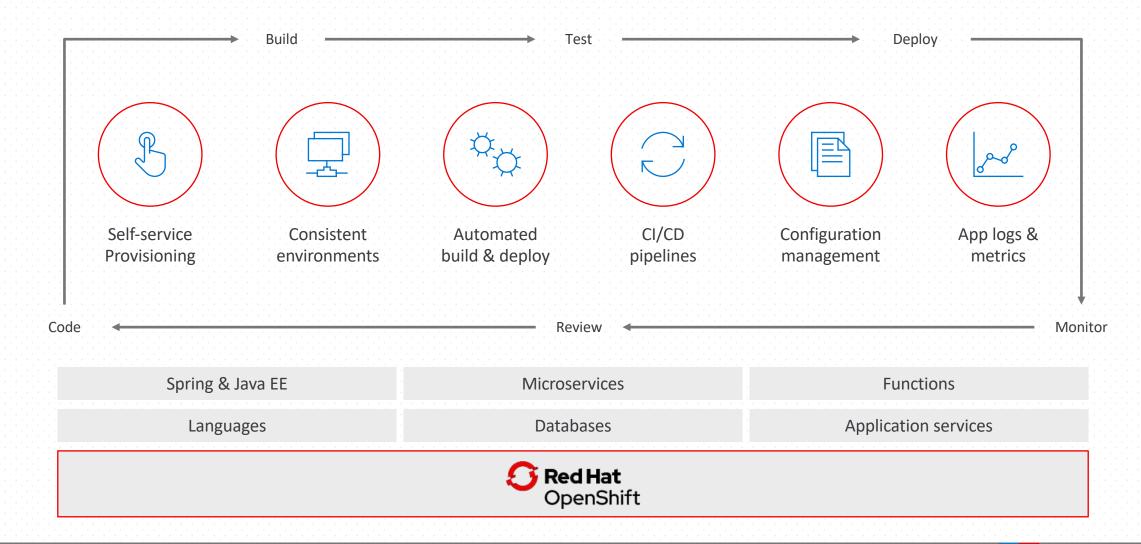
**Development Resources** 

OpenShift Documentation

Openshift Origin GitHubSource To Image GitHub

Microsoft

## Made for developer productivity

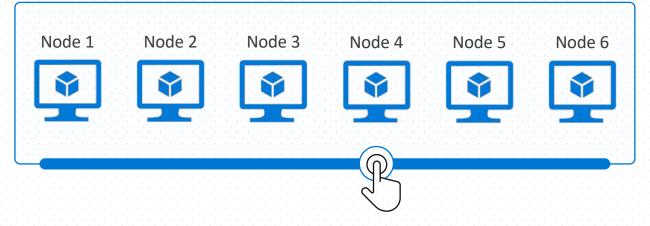


Scale on your terms

## Cluster node scaling

Easily add or remove compute nodes to match resource demand using az openshift scale

#### Application nodes



#### Azure Red Hat OpenShift roadmap

Regulatory compliance

Azure Red Hat OpenShift will be compliant with SOC, ISO, PCI DSS, HIPAA, and more

Private clusters

Create fully managed OpenShift clusters on your own private VNET with no public endpoints

BYOK for encryption at rest

- Bring your own encryption keys for encrypting data on the OS and Data Disks
- Certification rotation
  Support certificate rotation
- OpenShift 4.x support
  Ability to migrate from OpenShift 3.11

Windows Containers Integration

Customers will be able to deploy Windows Containers and manage them from the OpenShift control plane

Multi-AZ stretched clusters

- Support the ability to deploy OpenShift in multiple availability zones based on availability in Azure regions
  - Active Directory group sync
    Control access to your cluster using Azure
    Active Directory group membership
- Multiple node pool support Support for multiple node pools
- Cluster auto-scaling
   Ability to auto-scale the clusters on-demand
- Operator/CRD support
  Support for Operator and custom CRDs

