

Framework

OpenShift
Openshift Day 2 - Continuous
Delivery, Service Mesh, and the
Magic of the Operator



Let's just get this out there...

Kubernetes done right is hard

INSTALL

- Templating
- Validation
- OS setup

275%

of enterprise users identify complexity of implementation and operations as the top blocker to adoption

Source: The New Stack. The State of the Kubernetes Ecosystem, August 2017.

DEPLOY

- Identity & security access
- App monitoring & alerts
- Storage & persistence
- Egress, ingress, & integration
- Host container images
- Build/Deploy methodology

HARDEN

- Platform monitoring & alerts
- Metering & chargeback
- Platform security hardening
- Image hardening
- Security certifications
- Network policy
- Disaster recovery
- Resource segmentation

OPERATE

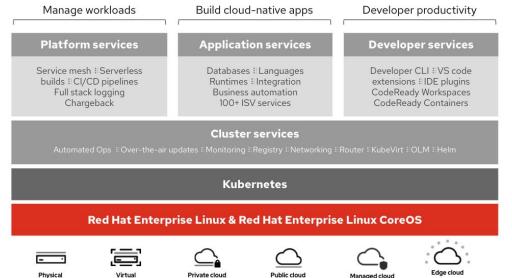
- OS upgrade & patch
- Platform upgrade & patch
- Image upgrade & patch
- App upgrade & patch
- Security patches
- Continuous security scanning
- Multi-environment rollout
- Enterprise container registry
- Cluster & app elasticity
- Monitor, alert, remediate
- Log aggregation



How can Openshift help?

OpenShift Container Platform

A smarter Kubernetes platform



Automated, full-stack installation

from the container host to application services

Seamless Kubernetes deployment

to any cloud or on-premises environment

Autoscaling of cloud resources

One-click updates for platform, services, and applications



A consistent container application platform

FROM YOUR DATACENTER TO THE CLOUD



operations













Multi-tenant default

traffic control

Over-the-air updates

Monitoring & chargeback

Pluggable architecture



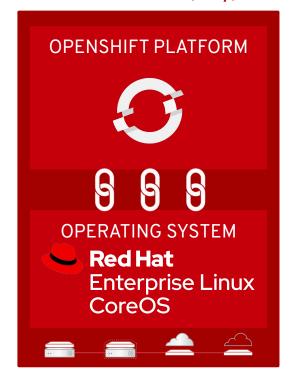
Bare metal, VMware vSphere, Red Hat Virtualization, Red Hat OpenStack Platform, Amazon Web Services, Microsoft Azure, Google, IBM Cloud



Full-stack automated install

OPENSHIFT 3 & 4 OPENSHIFT PLATFORM OPERATING SYSTEM INFRASTRUCTURE

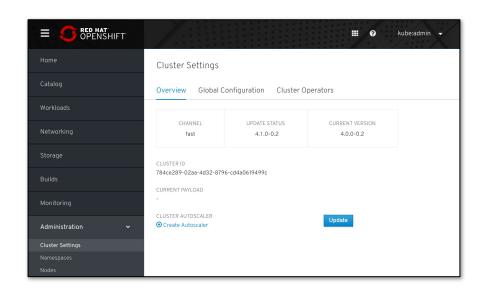
OPENSHIFT 4 (only)





Over the Air (OTA) Updates

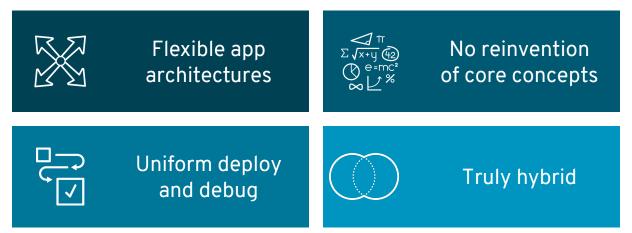
- OpenShift retrieves the list of available updates
- Admin selects the target version
- OpenShift is updated over the air
- Auto-update support





Kubernetes-native day 2 management

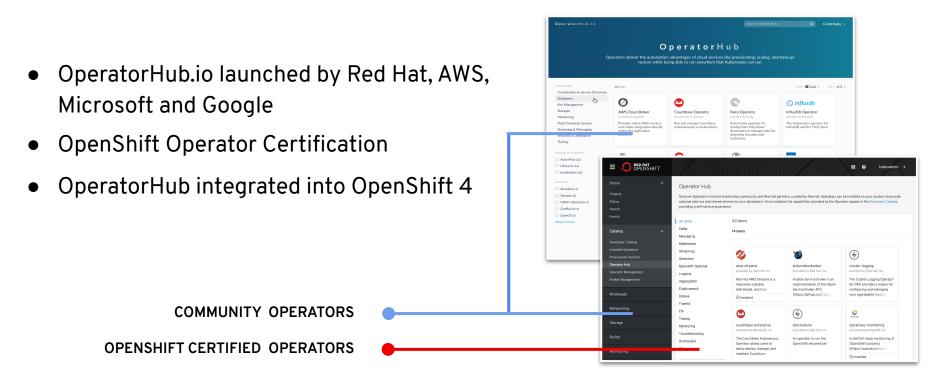




Operators codify operational knowledge and workflows to automate life-cycle management of containerized applications with Kubernetes

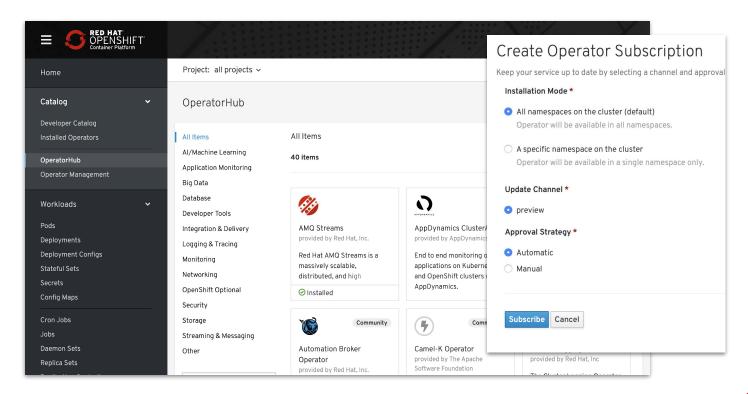


OperatorHub and certified Operators



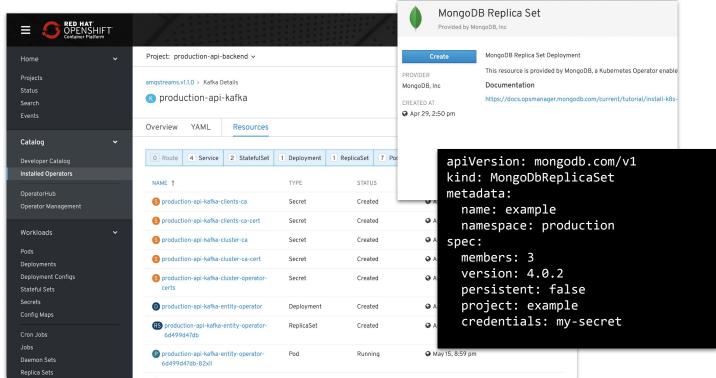


Full control for administrators





Self-service for developers





Okay cool... show me.