

RED HAT FORUMS

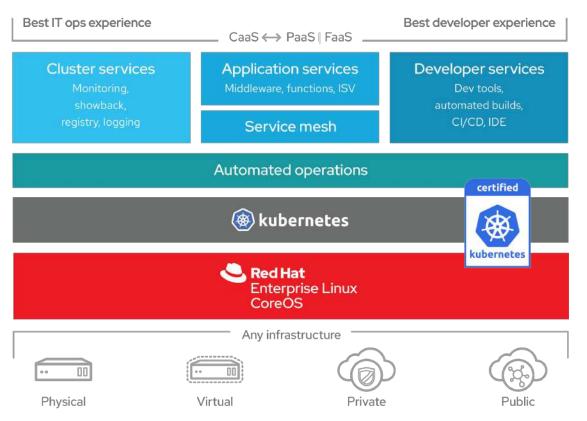
KUBERNETES + ENTERPRISE + AUTOMAZIONE = OPENSHIFT 4

Rinaldo Bergamini - Senior Solution Architect

November 20th 2019 - Roma December 3rd 2019 - Milano



OpenShift - 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







Hybrid Cloud Experience: cloud.redhat.com

Trusted enterprise Kubernetes

- 100% Kubernetes *
- Full Stack Automated Install
- Over the Air Updates & Day 2 Operations

A cloud-like experience, everywhere

- **Hybrid**, Multi-Cluster Management
- Operator Framework
- Operator Hub & Certified ISVs

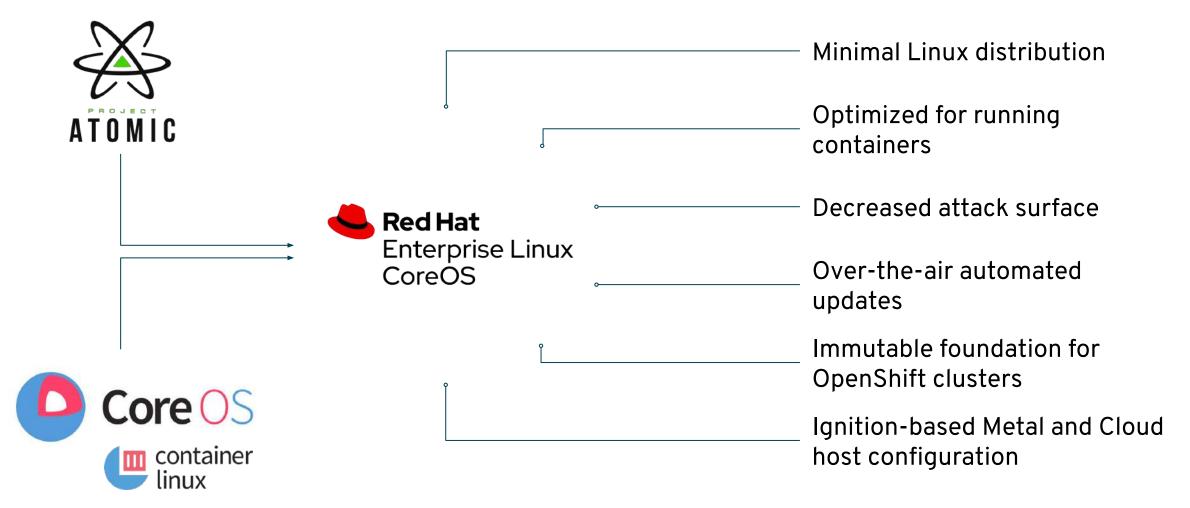
Empowering developers to innovate

- Service Mesh (Istio)
- Serverless (Knative)
- CodeReady Workspaces (Eclipse Che)

^{*} Check out and repeat the conformance test on your own OpenShift install at https://github.com/cncf/k8s-conformance/tree/master/v1.11/openshift



RHEL CoreOS





Immutable Operating System

Red Hat Enterprise Linux CoreOS is versioned with OpenShift

CoreOS is tested and shipped in conjunction with the platform. Red Hat runs thousands of tests against these configurations.

kubelet cri-o podman

Ignition systemd SELinux

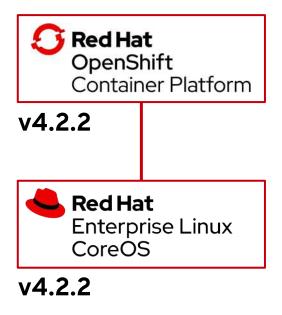
RHEL
CoreOS*

RHEL CoreOS admins are responsible for:

Nothing.

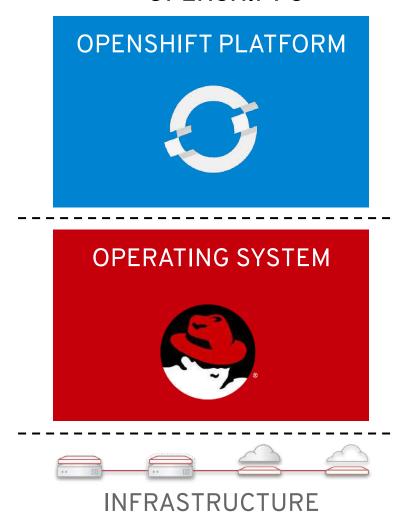




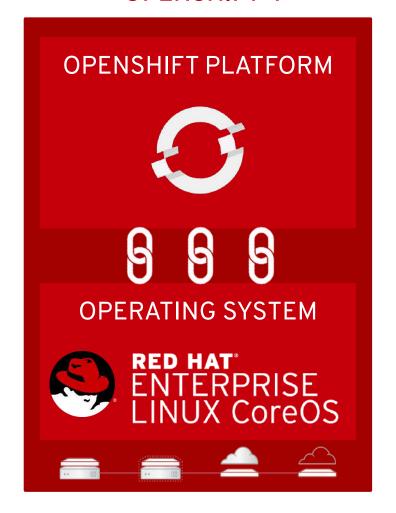




OPENSHIFT 3



OPENSHIFT 4





Installation Experiences

OPENSHIFT CONTAINER PLATFORM

Full Stack Automated

Simplified opinionated "Best Practices" for cluster provisioning

Fully automated installation and updates including host container OS.

Red Hat
Enterprise Linux
CoreOS

Pre-existing Infrastructure

Customer managed resources & infrastructure provisioning

Plug into existing DNS and security boundaries





HOSTED OPENSHIFT

Azure Red Hat OpenShift

Deploy directly from the Azure console. Jointly managed by Red Hat and Microsoft Azure engineers.

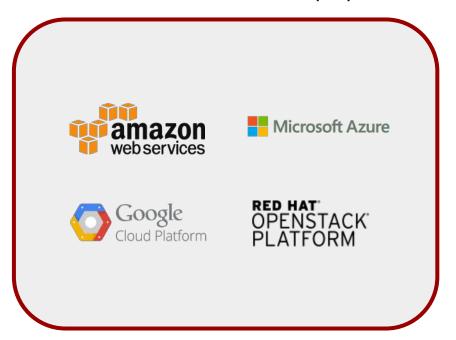
OpenShift Dedicated

Get a powerful cluster, fully Managed by Red Hat engineers and support.

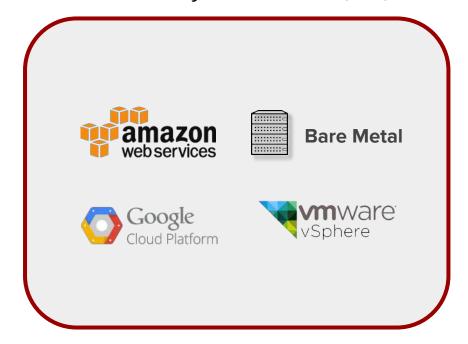


4.2 Supported Providers

Full Stack Automation (IPI)



Pre-existing Infrastructure (UPI)

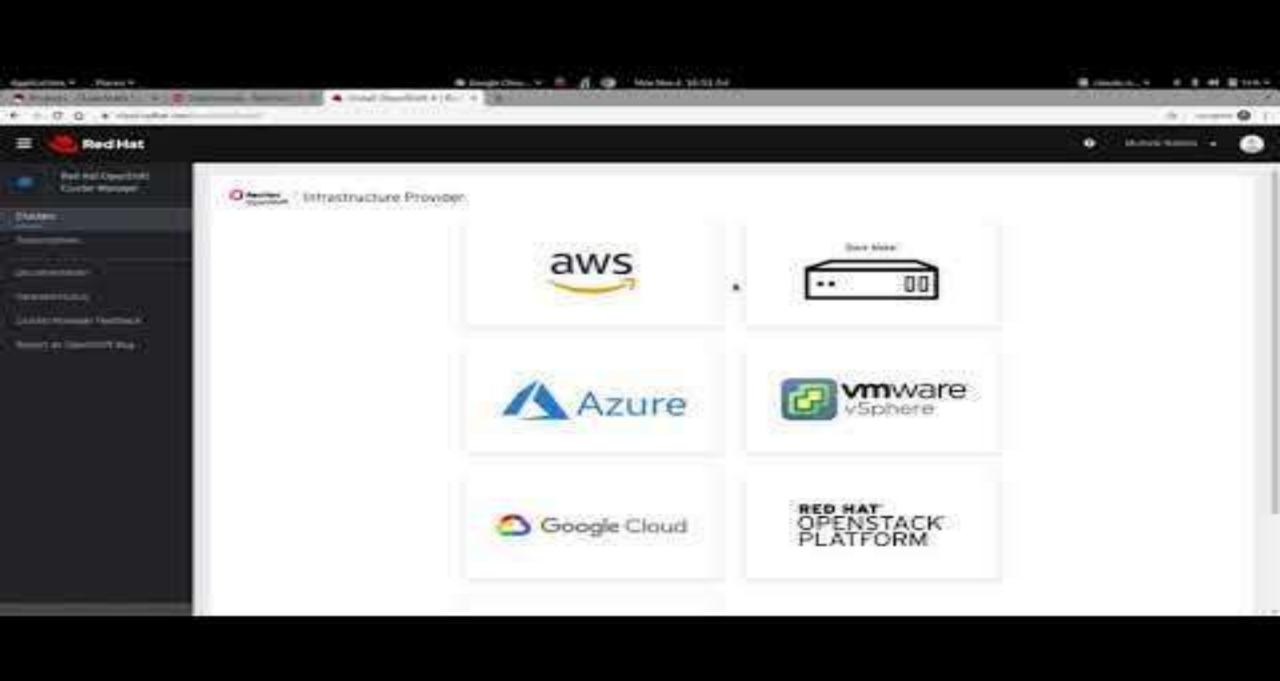






INSTALLATION

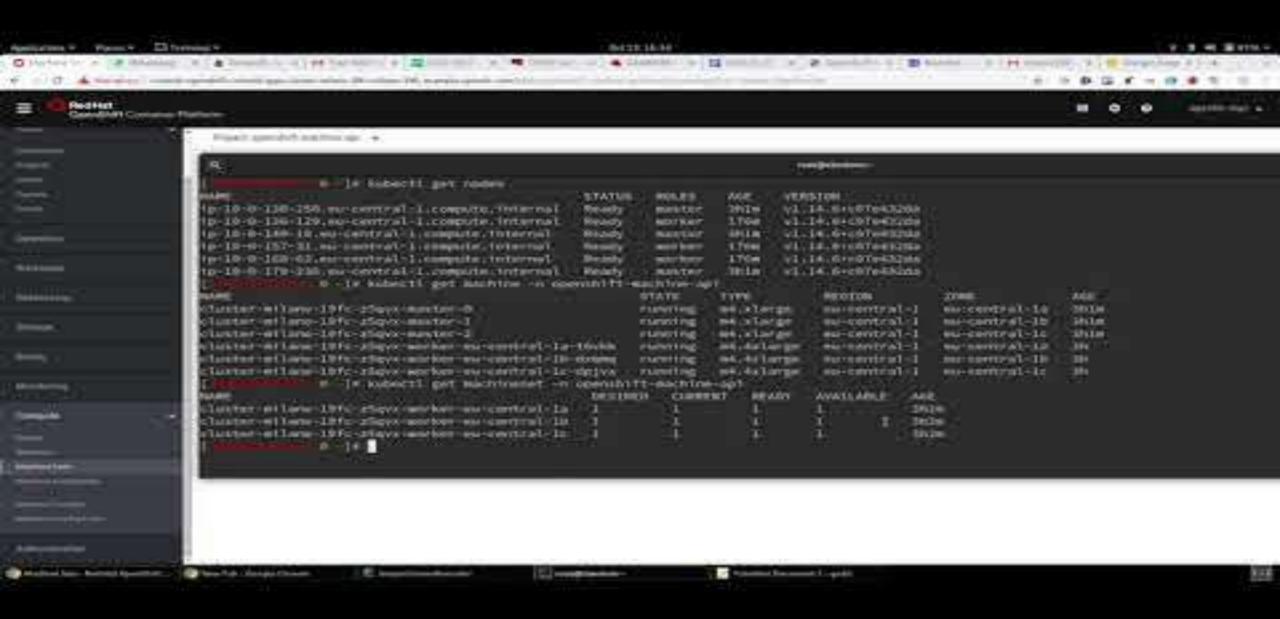






RESOURCES SCALING DEMO

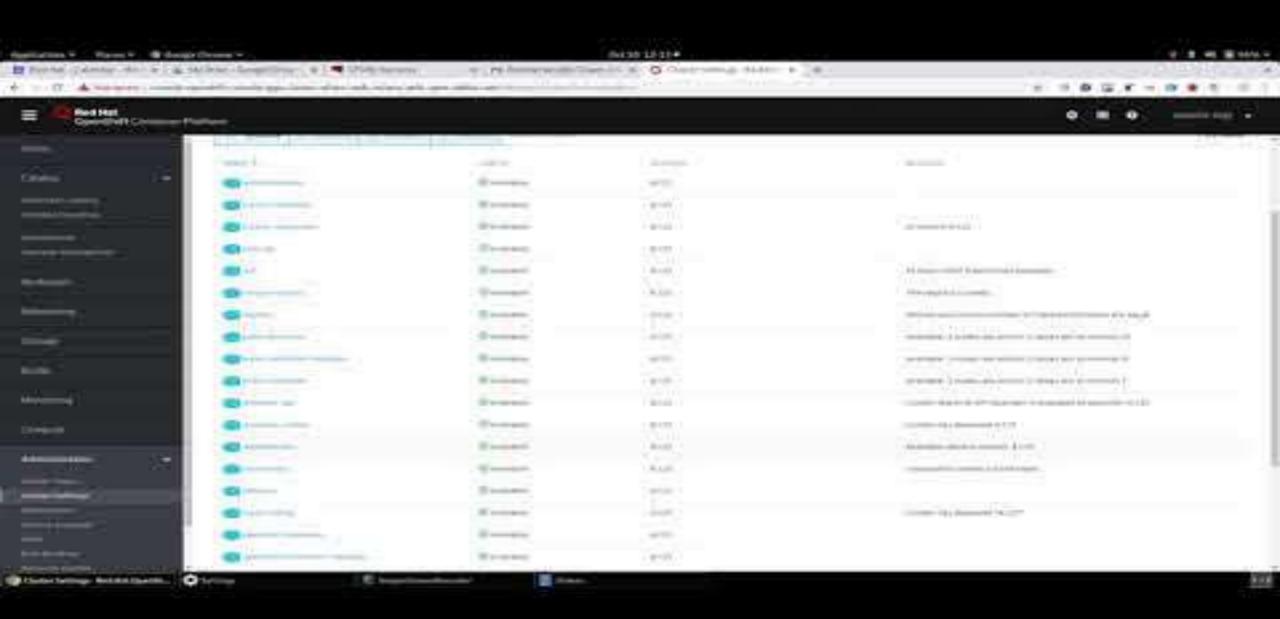






UPGRADE DEMO

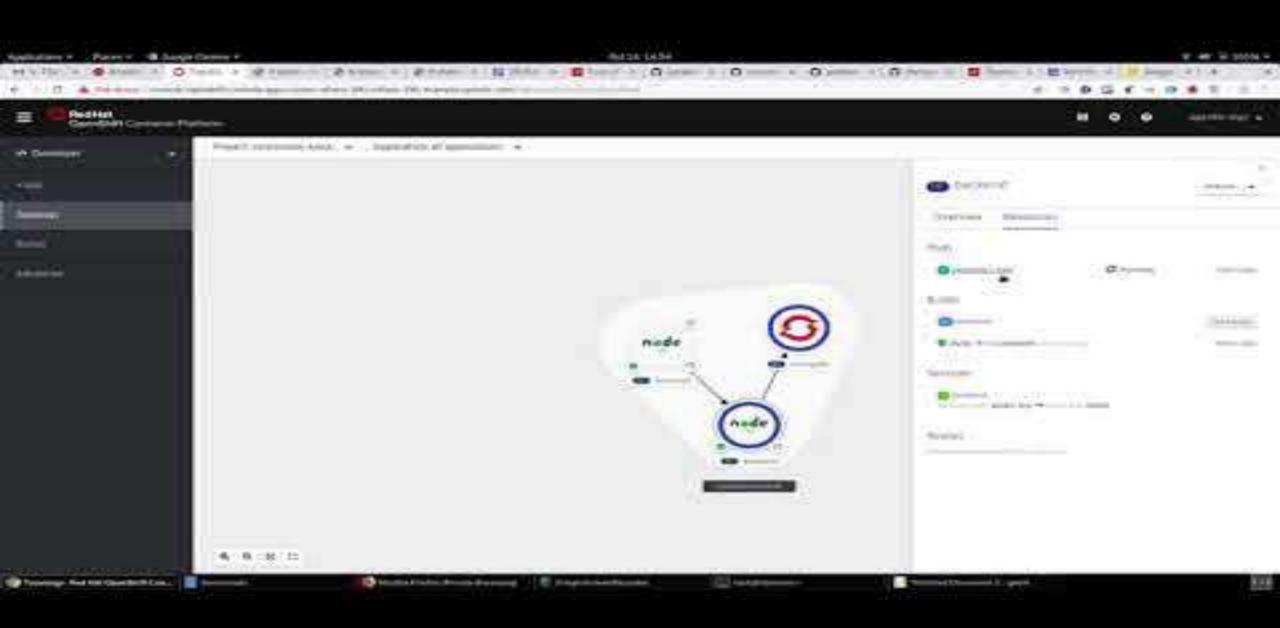






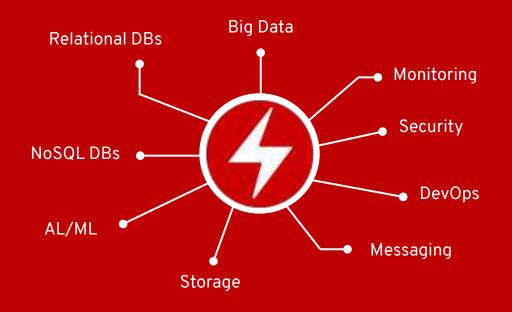
NEW DEVELOPER PORTAL DEMO





A broad ecosystem of workloads

Operator-backed services allow for a SaaS experience on your own infrastructure



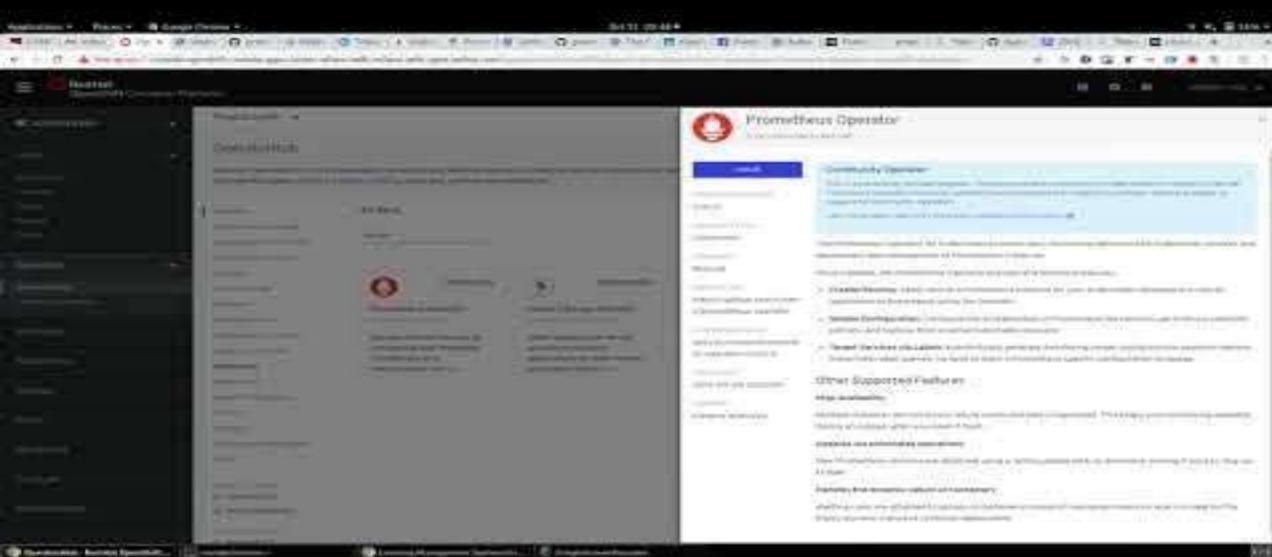






OPERATORS DEMO





Red Hat Certified Operators



