OpenShift Multicloud / Multicluster Management

Optional subheading

Presenter's Name

Title

Presenter's Name

Title



Installation Paradigms

OPENSHIFT CONTAINER PLATFORM

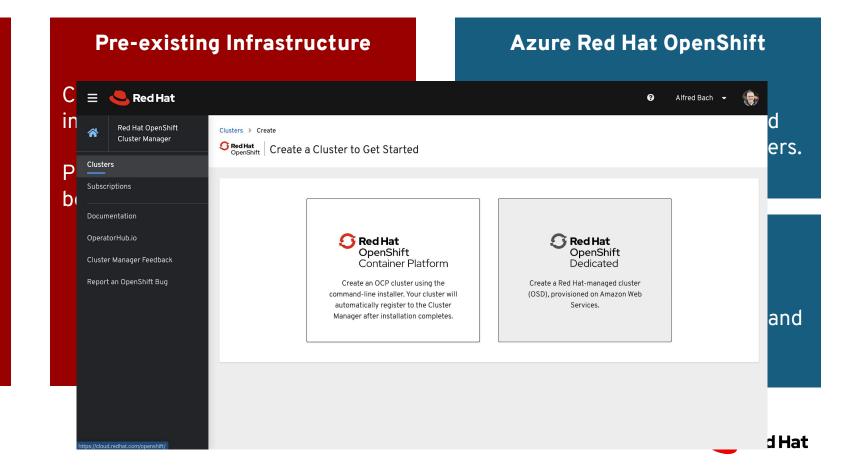
HOSTED OPENSHIFT

Full Stack Automated

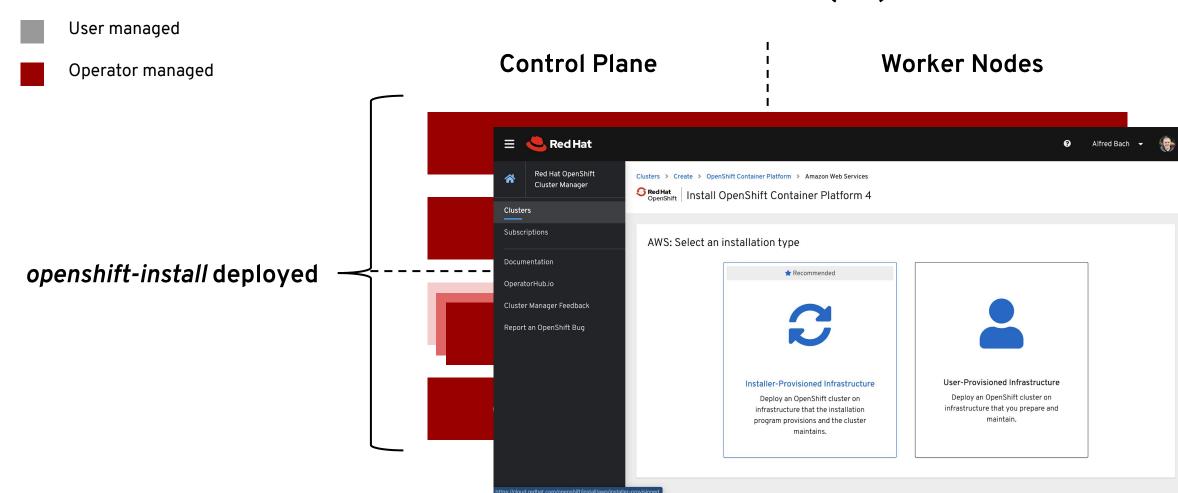
Simplified opinionated "Best Practices" for cluster provisioning

Fully automated installation and updates including host container OS.

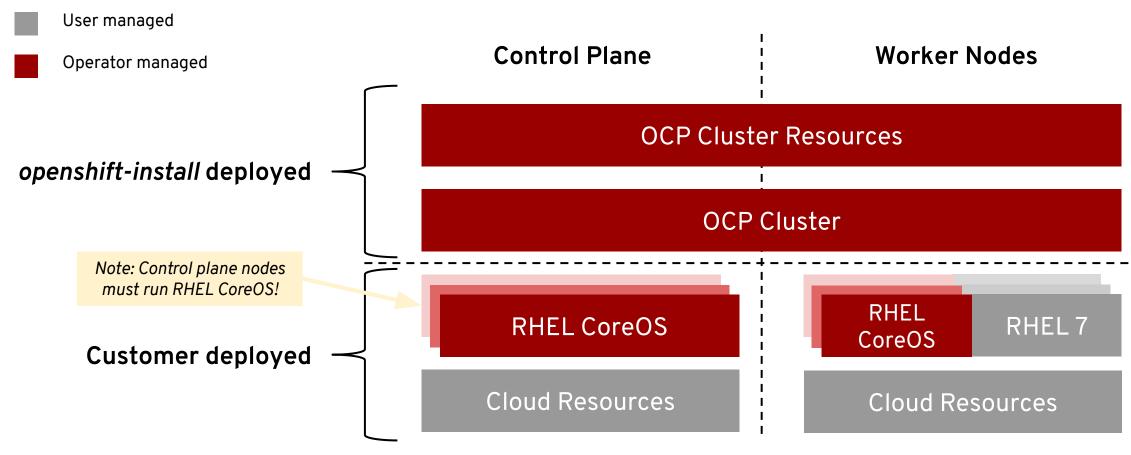




Full-stack Automated Installation Installer Provisioned Infrastructure (IPI)



Pre-existing Infrastructure Installation User Provisioned Infrastructure (UPI)



Comparison of Paradigms

Full Stack Automation

Pre-existing Infrastructure

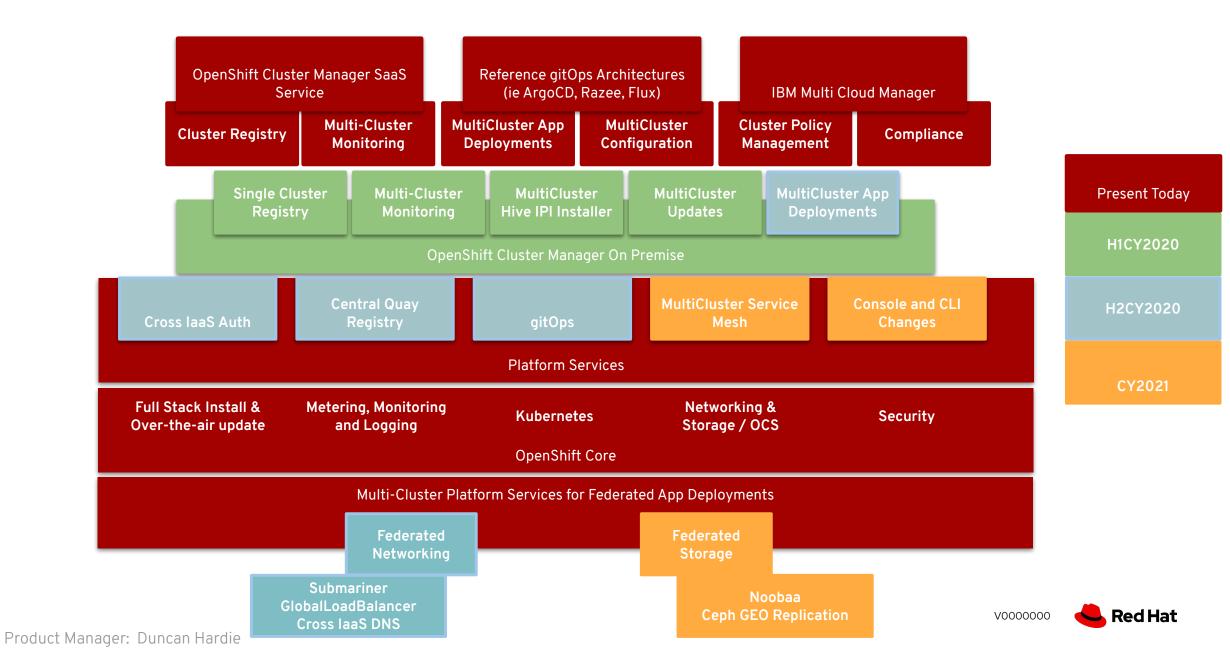
Build Network	Installer	User
Setup Load Balancers	Installer	User
Configure DNS	Installer	User
Hardware/VM Provisioning	Installer	User
OS Installation	Installer	User
Generate Ignition Configs	Installer	Installer
OS Support	Installer: RHEL CoreOS	User: RHEL CoreOS + RHEL 7
Node Provisioning / Autoscaling	Yes	Only for providers with OpenShift Machine API support

Provider Roadmap & Minimum Supported Version

Provider	Full Stack Automation (Installer provisioned infra)	Pre-existing Infrastructure (User provisioned infra)
amazon web services	4.1	4.1
Microsoft Azure	4.2	4.3+ (z-stream)
Bare Metal	4.4	4.1
Google Cloud Platform	4.2	4.2
RED HAT' OPENSTACK' PLATFORM	4.2	4.4
RED HAT. VIRTUALIZATION	4.4	4.4
vmware vSphere	4.4	4.1
IBM Z	-	4.2+ (z-stream)
IBM Power Systems 🧿	-	4.3+ (z-stream)
C-) Alibaba Cloud	4.5	-



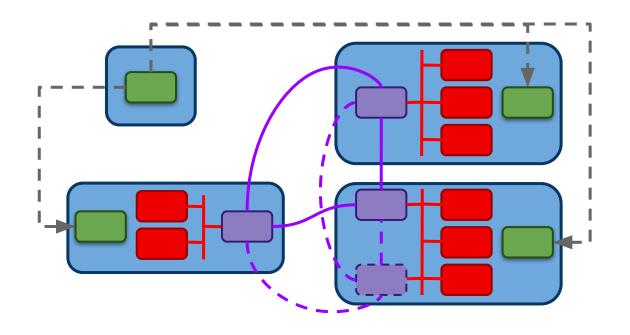
Multi-Cluster Platform Services



MULTI-CLUSTER NETWORK



- Submariner project
 - Controlled, secure communication between clusters
 - Agents and controller run on nodes which are connected in a mesh
 - Dev preview available from OCP catalog
- Lighthouse and Coastguard are projects that provide multi cluster DNS and network policy accordingly on top of Submariner



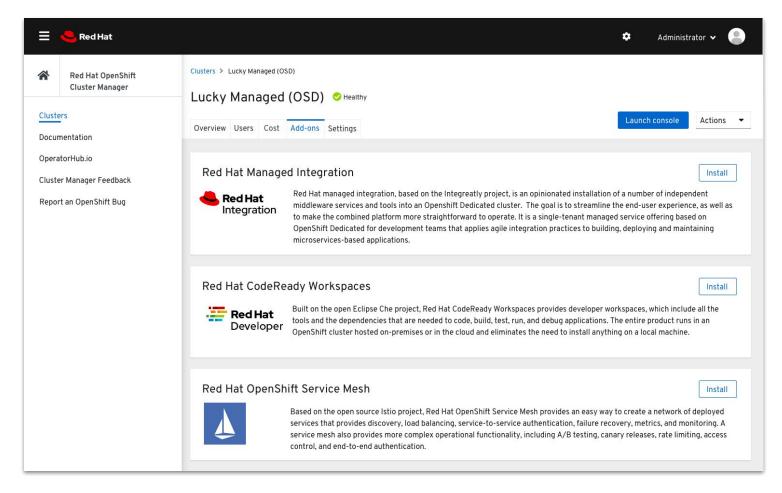


cloud.redhat.com/openshift

OpenShift Cluster Manager

Enablement for OpenShift Dedicated and Red Hat services

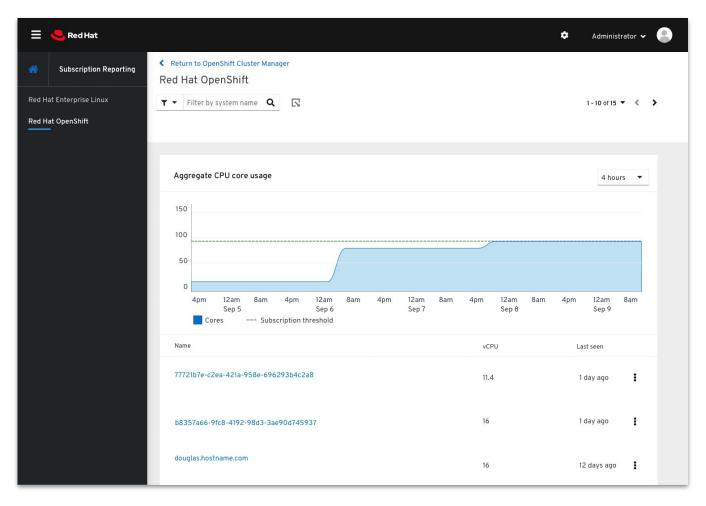
- OpenShift Dedicated support for add-on services (Service Mesh, CodeReady workspaces, and more), advanced network configuration, and bring your own cloud (BYOC)
- Data upload/import for disconnected OCP clusters
- Integration with cloud.redhat.com
 Cost Management service
- Core operator health status reported on monitoring tab



Subscription Management

Delivering improvements to the current system, and transitioning to the new cloud.redhat.com Subscription Watch

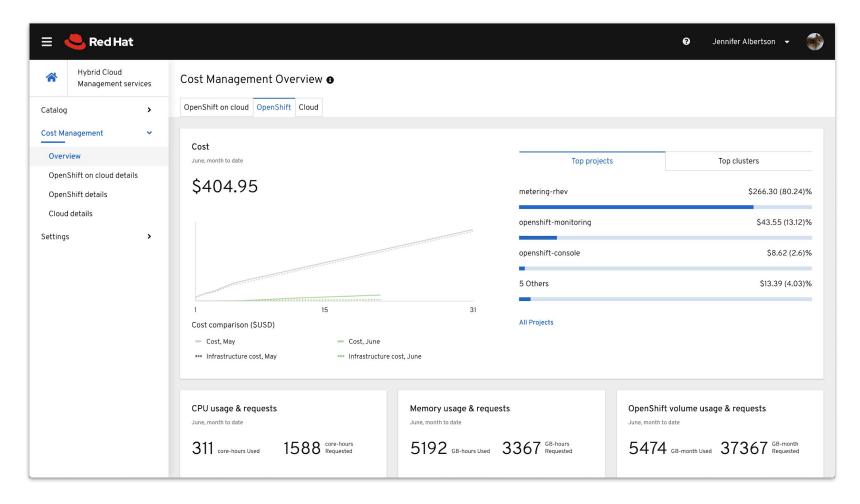
- Socket and hyperthreading data captured for all clusters through telemetry
- Improved documentation along with KCS articles highlighting current attach-based system
- Transitioning to the new cloud.redhat.com
 Subscription Watch service in early 2020
 - Removes need to attach subscriptions to hosts or clusters
 - Total OpenShift usage vs total subscriptions
 - Reporting includes OpenShift v3 hosts



Cost Management Tech Preview

See all of your OpenShift related costs across clouds and clusters

- Break down costs and usage based on projects, clusters, nodes, AWS accounts, or use your own custom tags
- Associate the costs of AWS services, like RDS databases, with your cluster
- Add markups or discounts to your cost models, create your own custom costs, use metadata to modify charges, and more
- Optional install for OCP 4.3+, included with OpenShift subscription

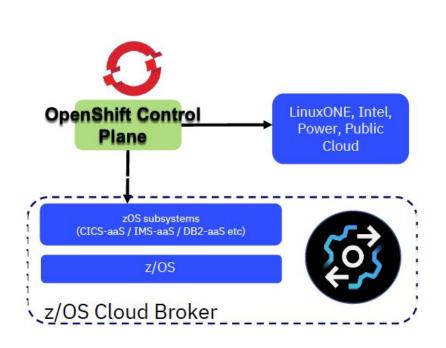


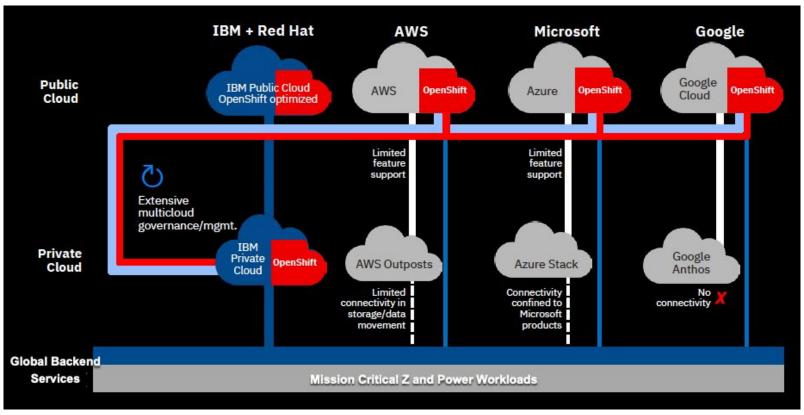


Multi-Arch



OpenShift 4 on IBM Z and Power Deliver the Industry's Only True Hybrid Multi-Cloud Platform for all Datacenter Services





Thank you

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