OpenShift Storage

Presenter's Name
Title

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Red Hat

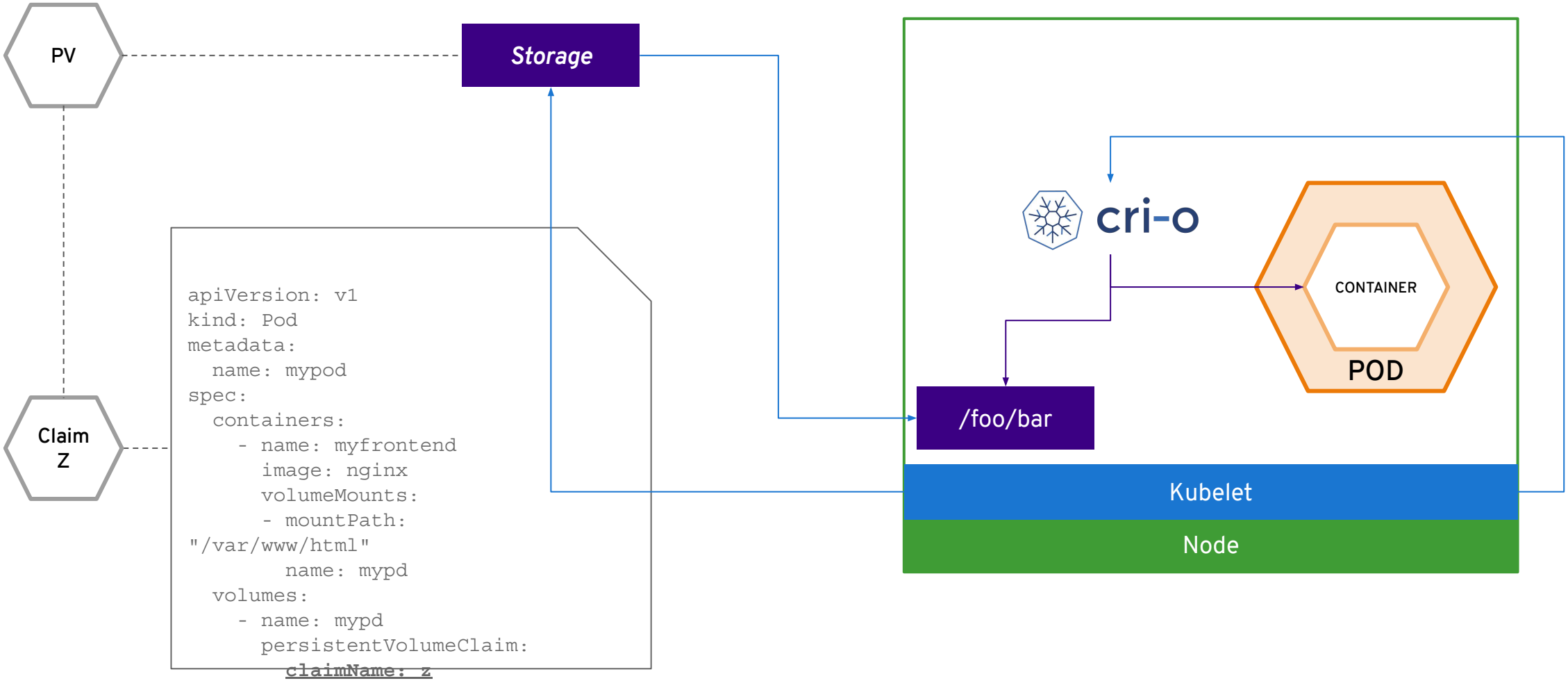
Persistent Storage

Connecting real-world storage to your containers to enable stateful applications

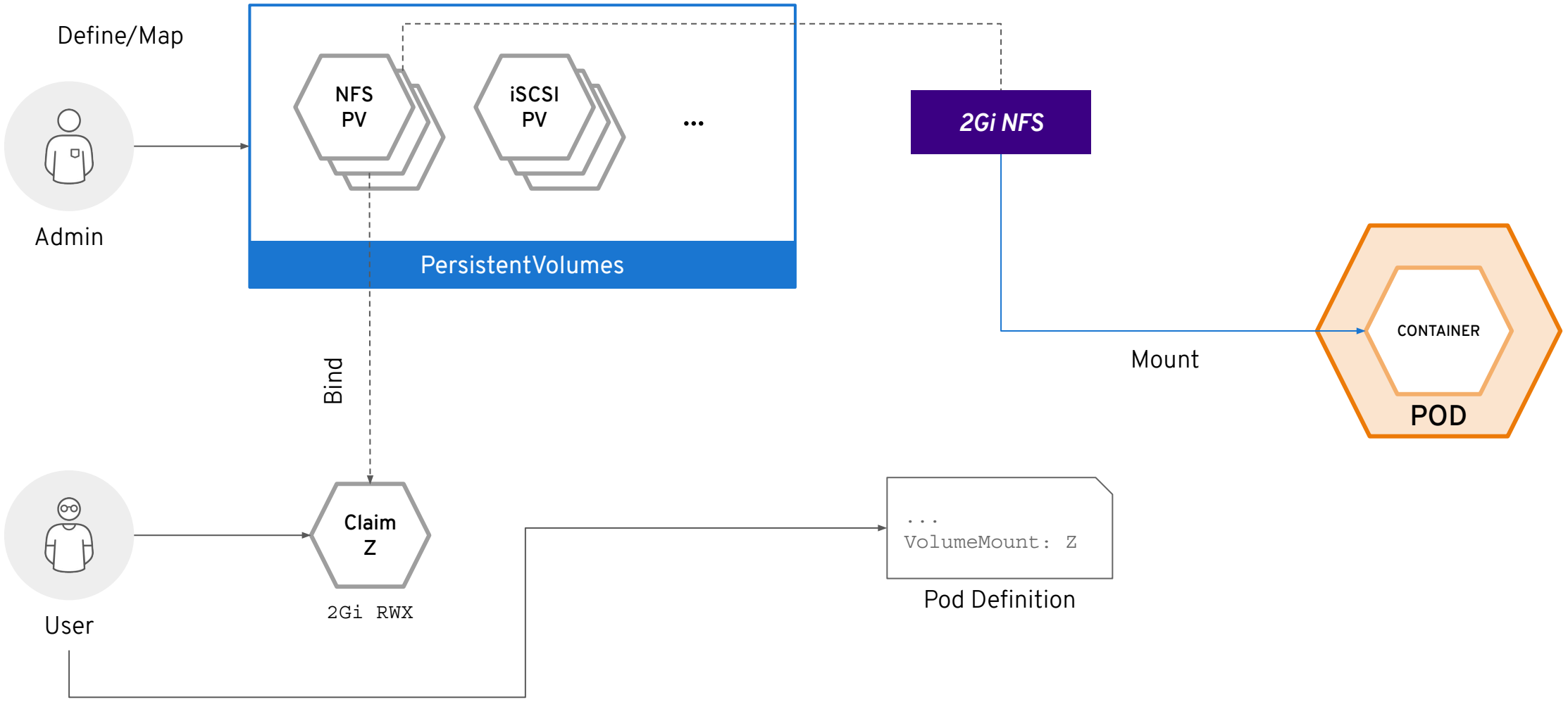
A broad spectrum of static and dynamic storage endpoints

NFS	OpenStack Cinder	iSCSI	Azure Disk	AWS EBS	FlexVolume
GlusterFS	Ceph RBD	Fiber Channel	Azure File	GCE Persistent Disk	VMWare vSphere VMDK
		NetApp Trident*	Container Storage Interface (CSI)**		

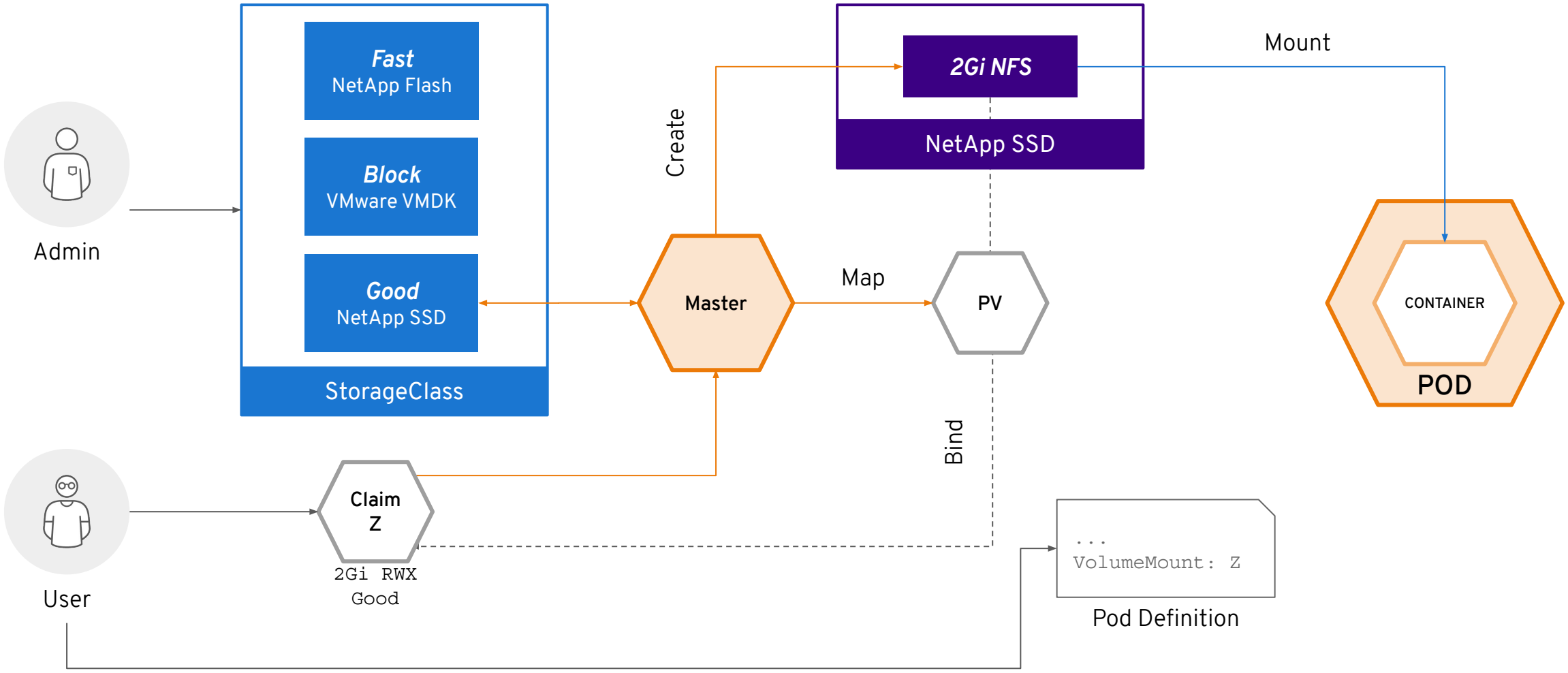
PV Consumption



Static Storage Provisioning



Dynamic Storage Provisioning



Red Hat OpenShift Container Storage

What & Why

Red Hat

RED HAT®
OPENSHIFT
Container Storage

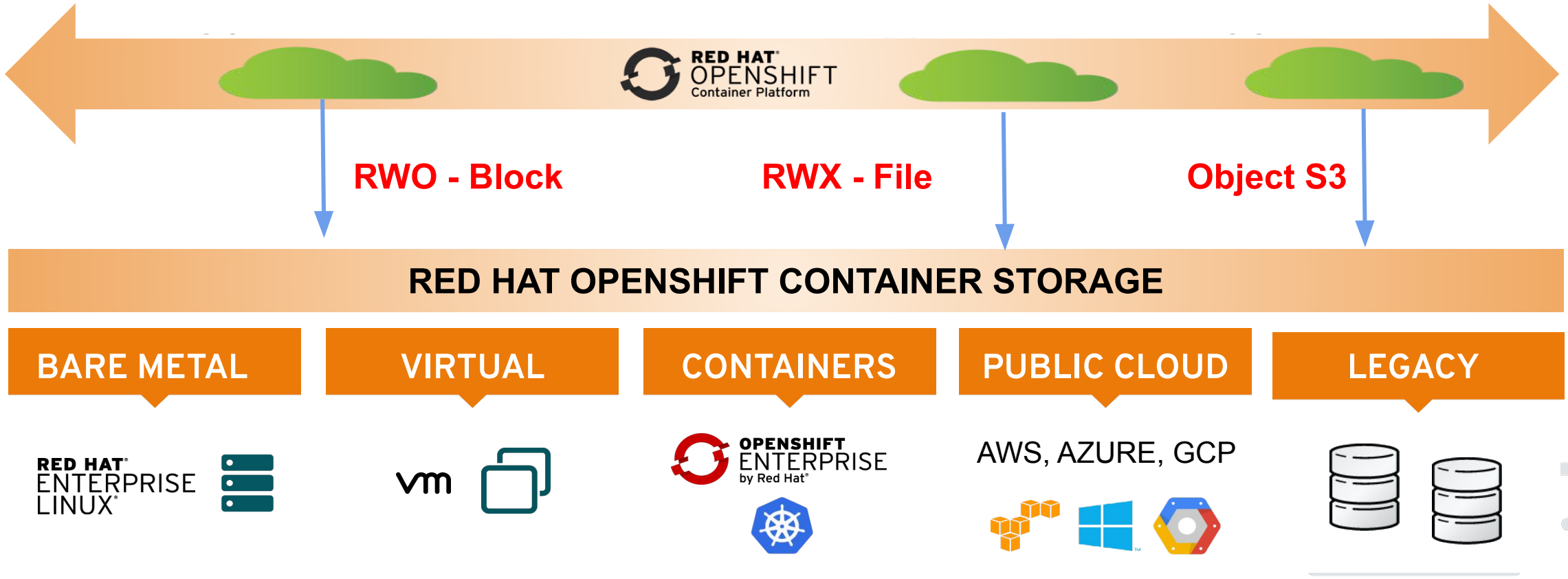
What is it?

Add-On for OpenShift for running stateful apps

Highly scalable, production-grade persistent storage

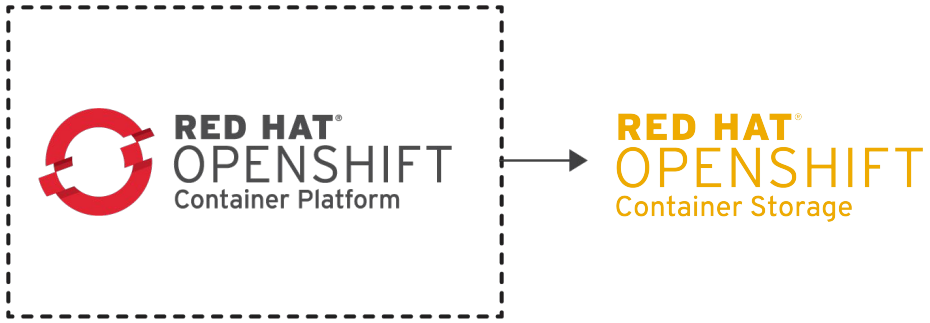
- For **stateful applications** running in Red Hat® OpenShift
- Optimized for Red Hat **OpenShift Infrastructure services**
- Developed, released and deployed in synch with Red Hat OpenShift
- Supported via a single contract with Red Hat OpenShift
- Complete persistent storage fabric across hybrid cloud for OCP

Complete Storage for Container Platform



Provides Storage for All Apps and infrastructure Services
in their native interfaces

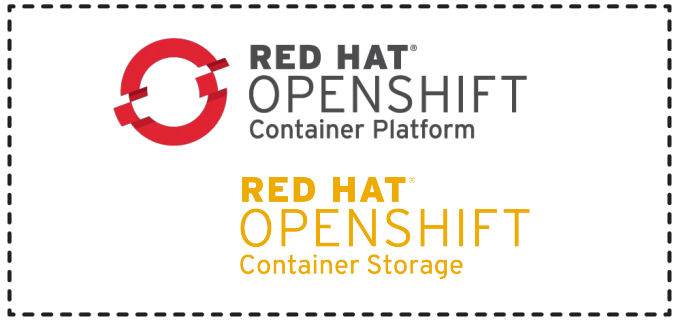
TWO FLAVORS OF CONTAINER STORAGE
Flexibility in Deployment



OPENSHIFT CONTAINER STORAGE
INDEPENDENT MODE

Use existing investment in traditional storage, managed by storage admin – attach to standalone storage

OCS 4.3



OPENSHIFT CONTAINER STORAGE
CONVERGED MODE

Highly scalable, enterprise-grade storage, fully integrated into OpenShift Container Platform

OCS 4.2

OCS 4.X - Focus Areas

EASE OF USE

HYBRID CLOUD
& DATA SERVICES

STORAGE
ENHANCEMENTS

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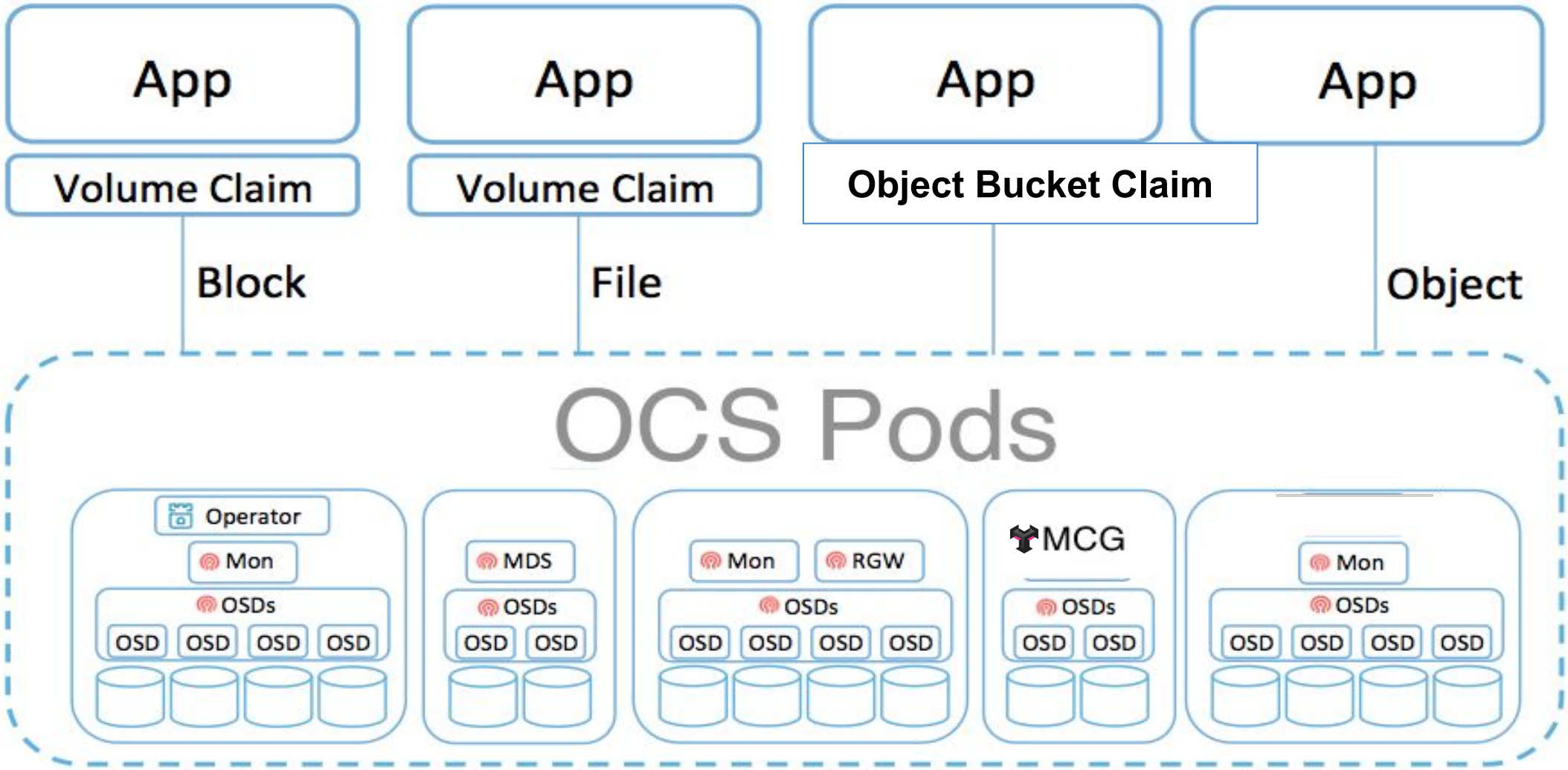
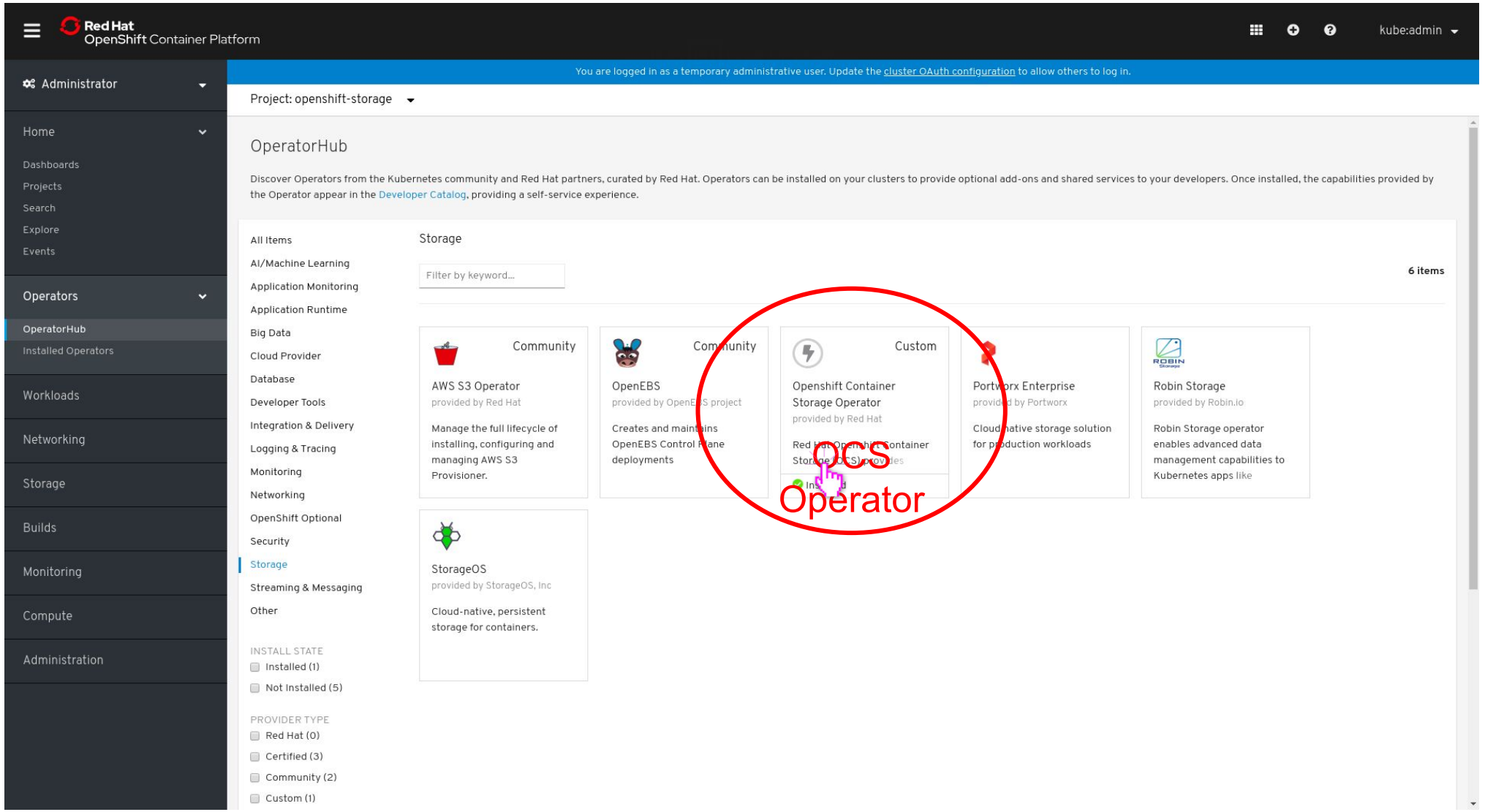
Ease of Use
Hybrid Cloud
Kubernetes Storage

OCS 4.x Operator Install, Upgrade, Expansion

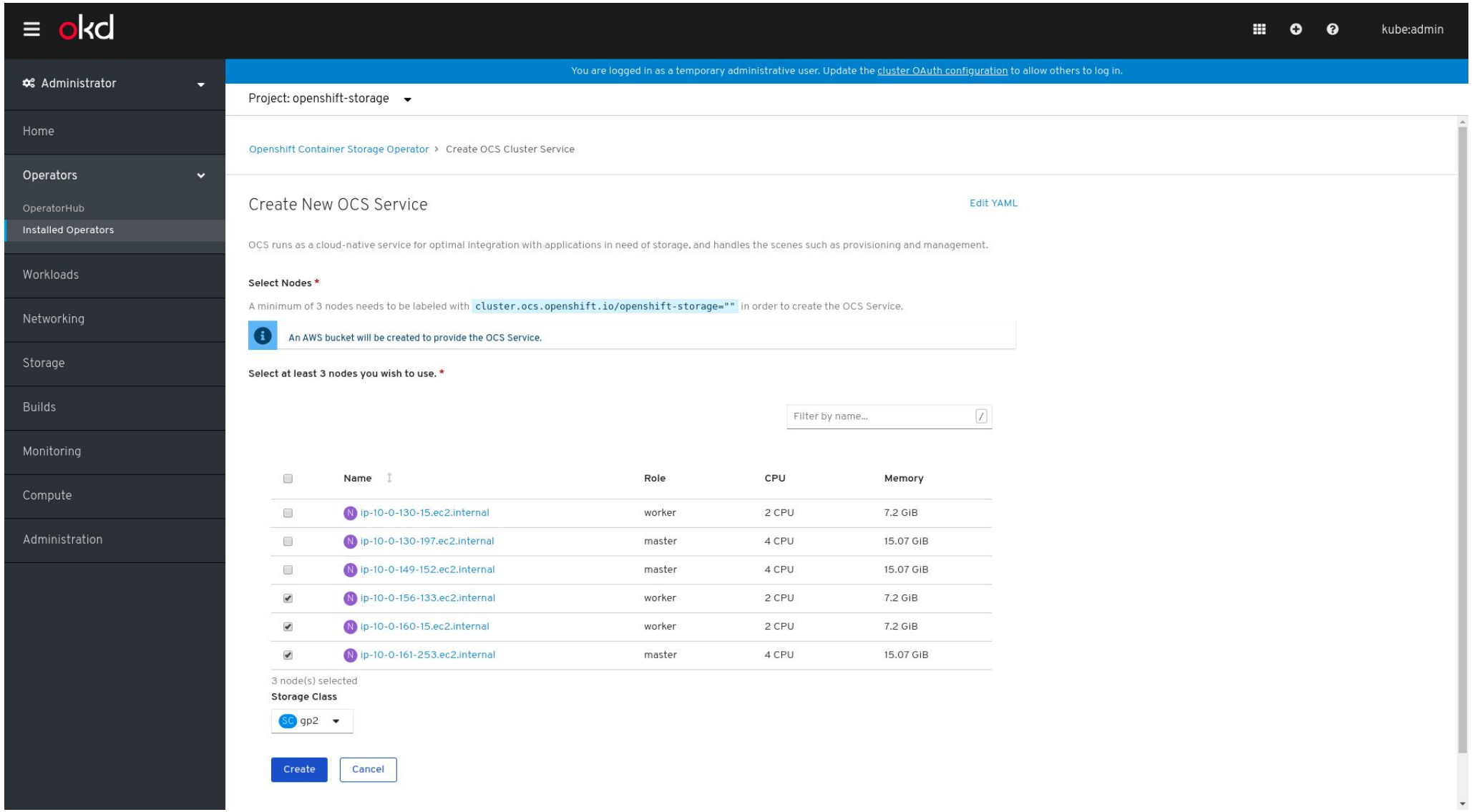
OCS Operator based on Rook.io with Operator Lifecycle Manager (OLM)



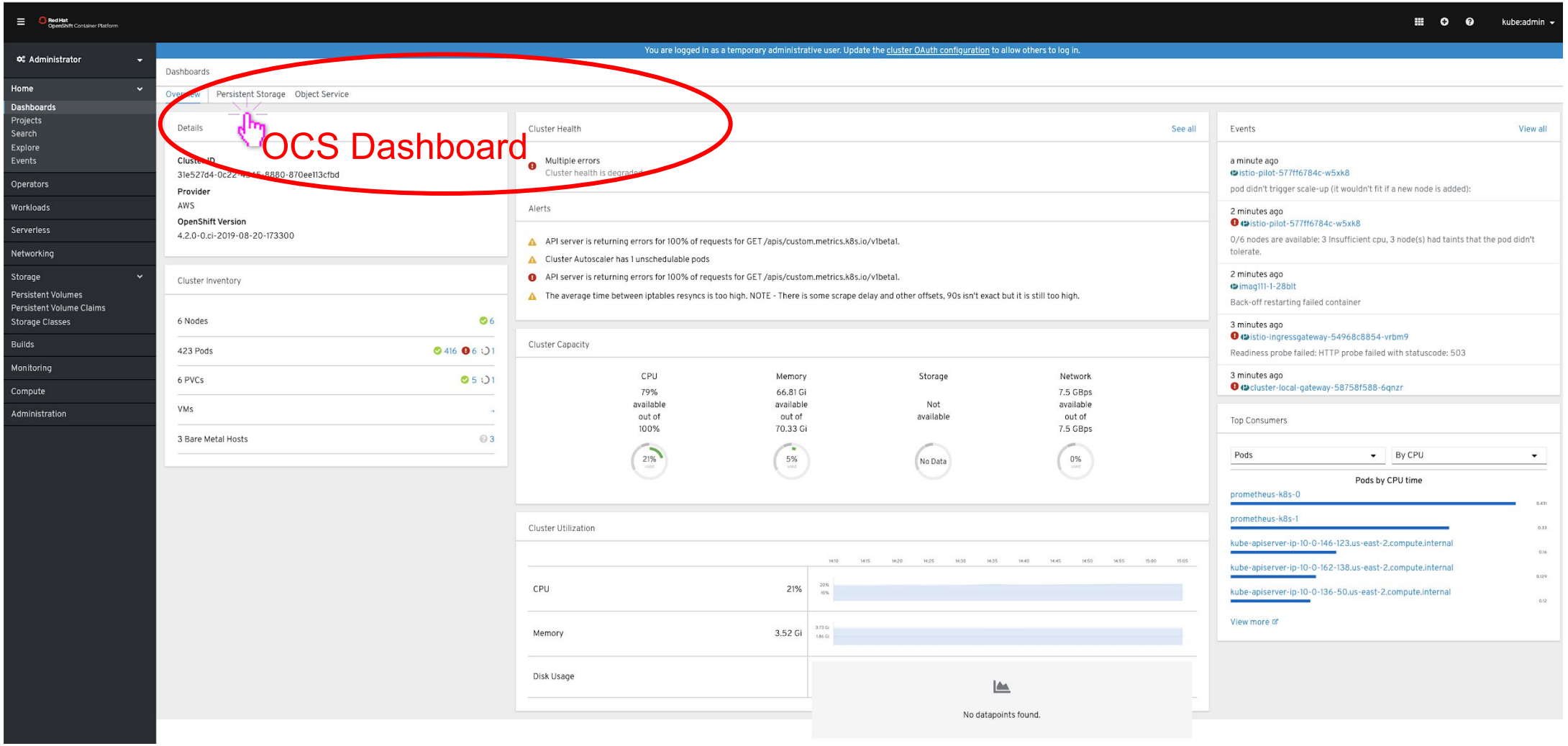
OCS 4.x Operator Driven Install from OLM



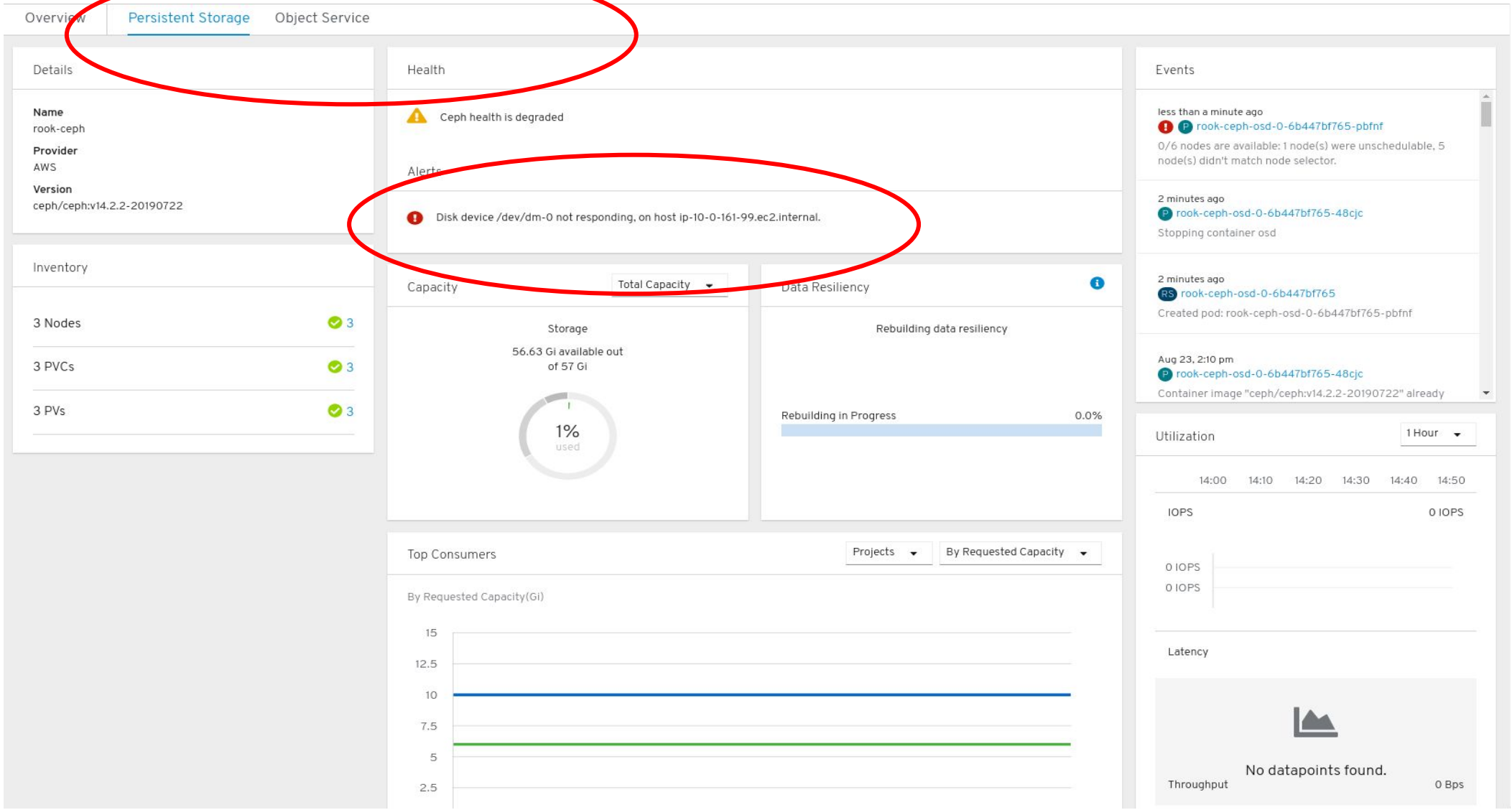
OCS 4.x Simple Install



OCP + OCS Integrated Monitoring and Management

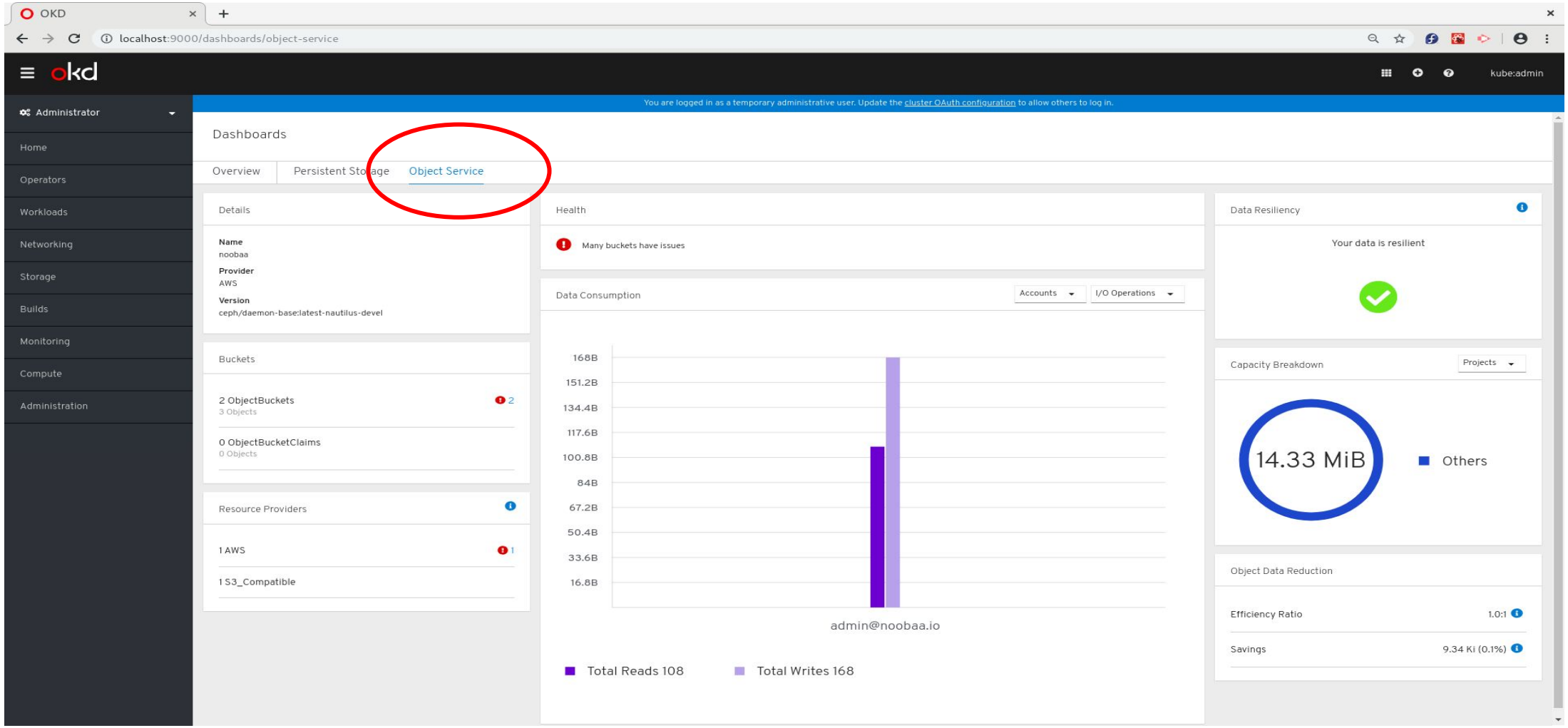


OCS Integrated Dashboard



Health, Capacity, Performance, Configuration, Alerts

OCS Integrated Dashboard - Object Storage



Monitoring and Alerts

Ease of Use
Hybrid Cloud
Kubernetes Storage

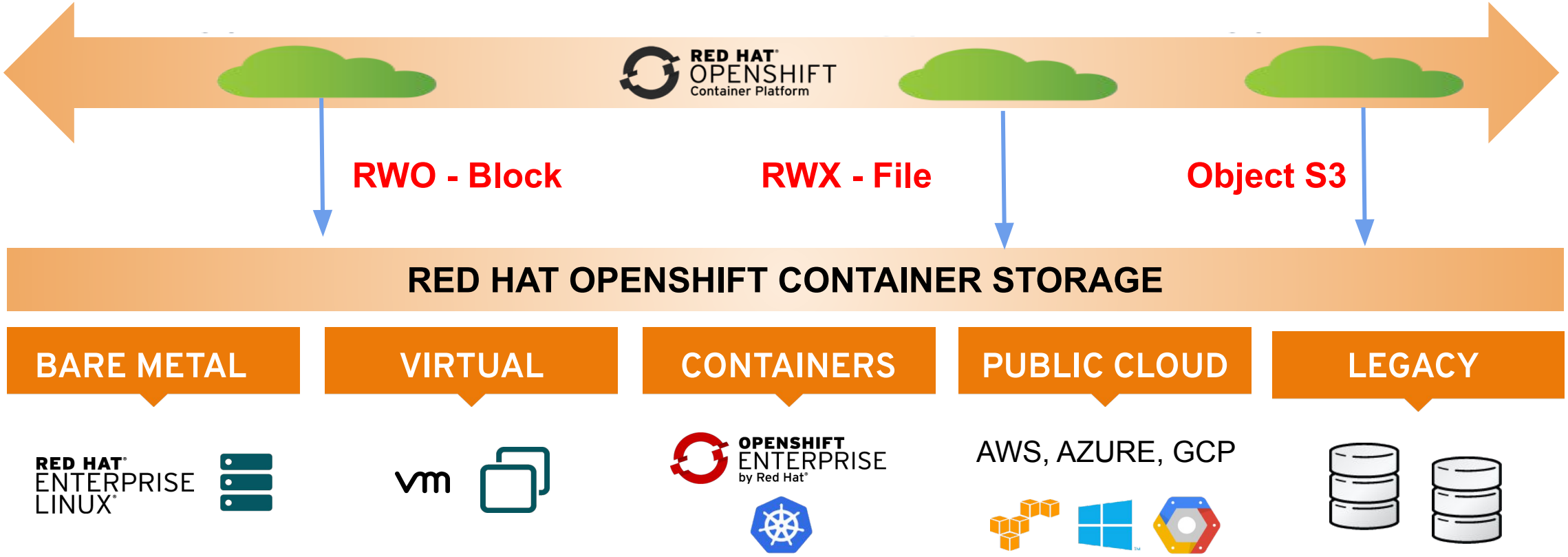
Red Hat OpenShift Container Storage
Consistent Set of OpenShift Stateful Service

OPEN HYBRID CLOUD IMPERATIVES

Application Portability | Platform Independence | Elastic

Red Hat

Complete Storage for Container Platform



Addition of Object S3 completes the storage stack
OCS- MCG (Noobaa) backed by RGW or cloud native S3

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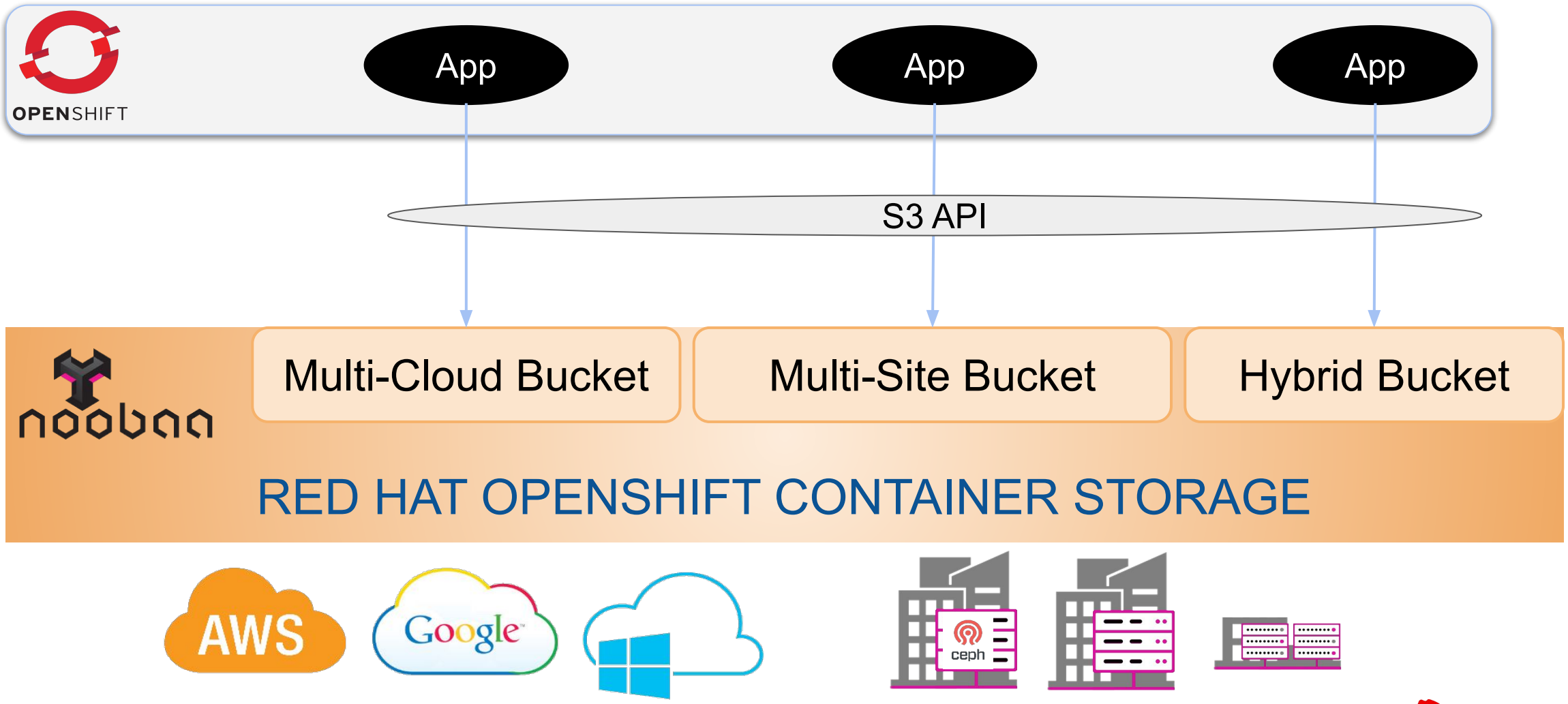
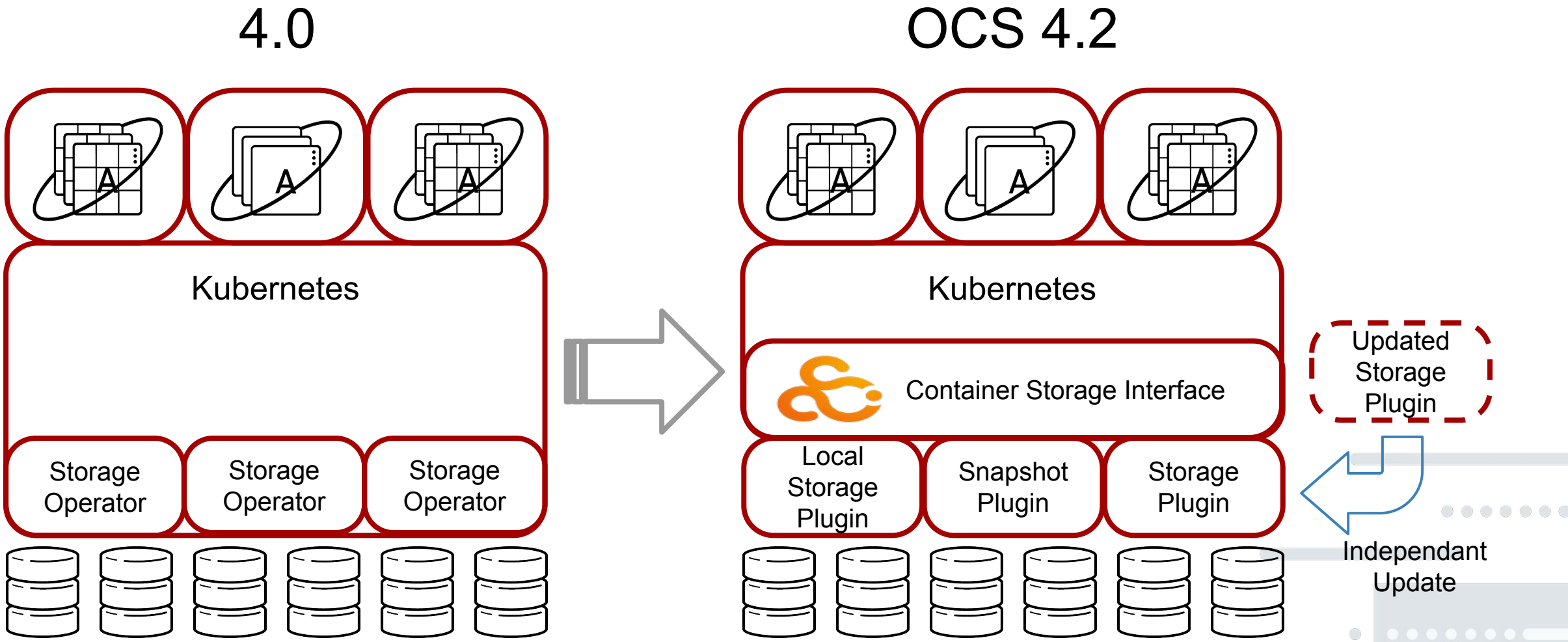
Multi-Cloud Object Gateway (NooBaa)



Active - Active Multi Cloud Read /Write, First Iteration

Ease of Use
Hybrid Cloud
OpenShift/Kubernetes Storage

OpenShift Storage - CSI



Thank you

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