



CoreOS and cri-o

# Red Hat Enterprise Linux

## RED HAT® ENTERPRISE LINUX®

General Purpose OS

## RED HAT® ENTERPRISE LINUX CoreOS

Immutable container host

### BENEFITS

- 10+ year enterprise life cycle
- Industry standard security
- High performance on any infrastructure
- Customizable and compatible with wide ecosystem of partner solutions

- Self-managing, over-the-air updates
- Immutable and tightly integrated with OpenShift
- Host isolation is enforced via Containers
- Optimized performance on popular infrastructure

### WHEN TO USE

When customization and integration with additional solutions is required

When cloud-native, hands-free operations are a top priority

# 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.

## Red Hat Enterprise Linux CoreOS is managed by the cluster

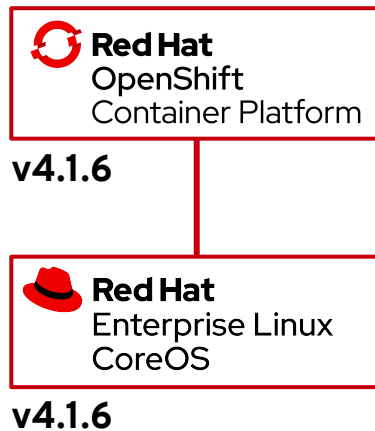
The Operating system is operated as part of the cluster, with the config for components managed by Machine Config

Operator:

- CRI-O config
- Kubelet config
- Authorized registries
- SSH config

RHEL CoreOS admins are responsible for:

Nothing. 😊 🙌





A lightweight, OCI-compliant container runtime

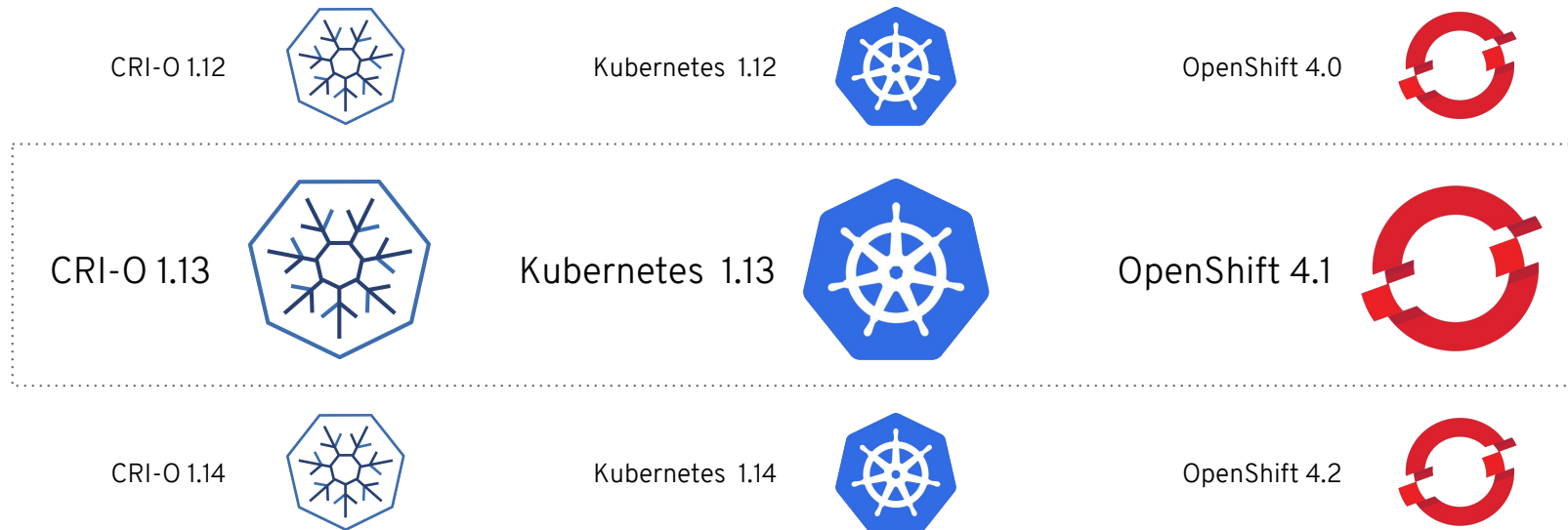
Minimal and Secure  
Architecture

Optimized for  
Kubernetes

Runs any  
OCI-compliant image  
(including docker)

# CRI-O Support in OpenShift

CRI-O tracks and versions identical to Kubernetes, simplifying support permutations



# podman



A docker-compatible CLI  
for containers

- Remote  
management API  
via Varlink
- Image/container  
tagging
- Advanced  
namespace  
isolation

buildah



**buildah**

Secure & flexible OCI container builds

- Integrated into OCP build pods
- Performance improvements for knative enablement
- Image signing improvements



# Red Hat OpenShift



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