

### Keywords

PaaS, OpenShift Origin,
OpenShift Enterprise, OpenShift Online,
Master, Node, OKD

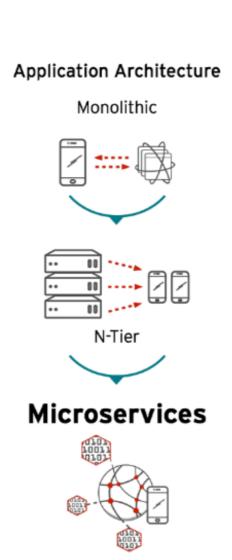
#### References

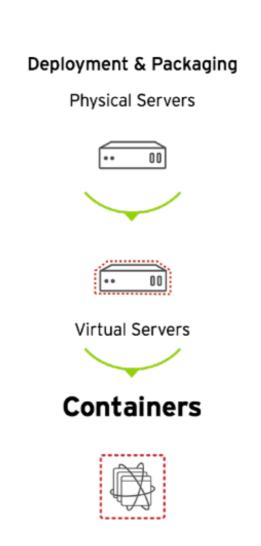
OpenShift Origin Documentation https://docs.openshift.org/

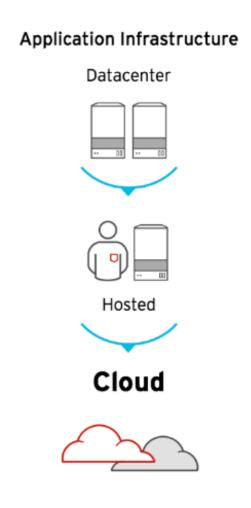
## Introduction

#### **IT Must Evolve to Stay Ahead of Demands**

# **Development Process** Waterfall Agile **DevOps**







#### **Kubernetes Distributions (1)**

- Community-supported distributions are the free and open source packages with which you can deploy the platform yourself and give it a go. Minikube is a genuine Kubernetes environment for local, experimental deployments on a single computer.
- Vendor distro (no value-add) shows companies that deliver so ware solutions, or cloud-based platforms, that include pure Kubernetes plus vendor-backed support.

#### **Kubernetes Distributions (2)**

- Vendor distro (with value-add) shows companies that offer more complete environments, including scheduling, development, and lifecycle management, featuring Kubernetes at the core of their systems.
- App Platforms / PaaS shows full-scale Platforms as a Service, including Red Hat OpenShift, that actively abstract away the management and maintenance of Kubernetes behind end-to-end, automated development and deployment environments.

#### **Kubernetes Distributions (3)**



#### **PaaS Software**



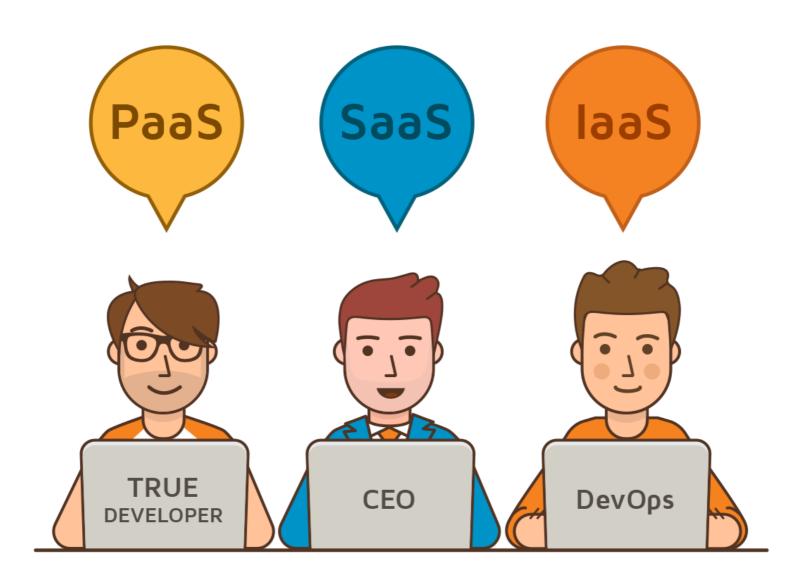








#### **Cloud Users**





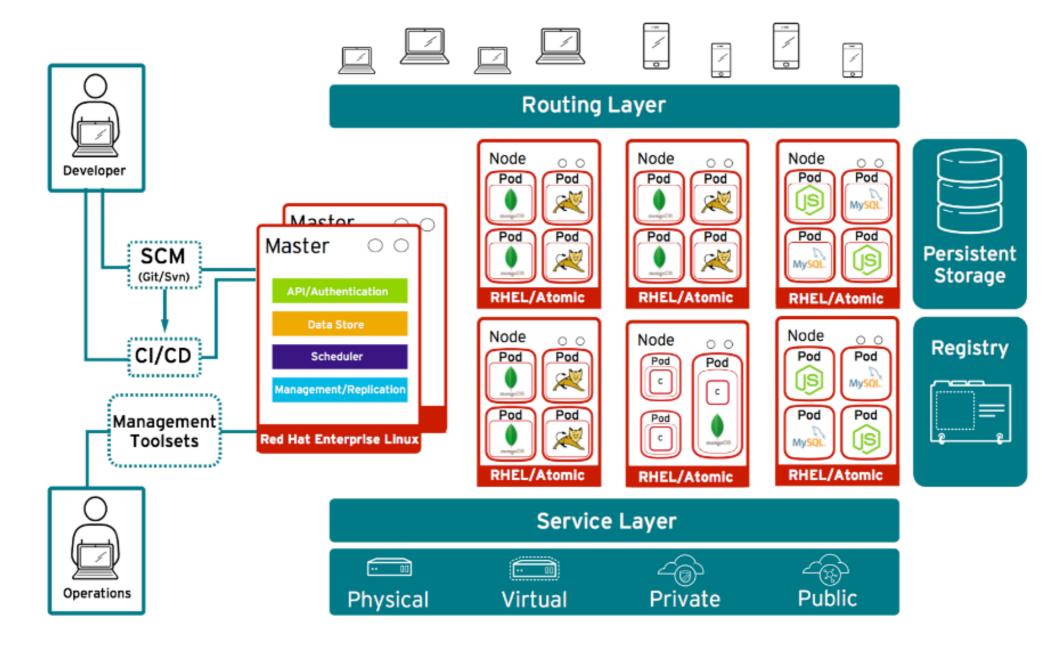
#### What is OpenShift Origin?

- OpenShift Origin is a distribution of Kubernetes optimized for continuous application development and multi-tenant deployment.
- OpenShift adds developer and operations-centric tools on top of Kubernetes to enable rapid application development, easy deployment and scaling, and long-term lifecycle maintenance for small and large teams.

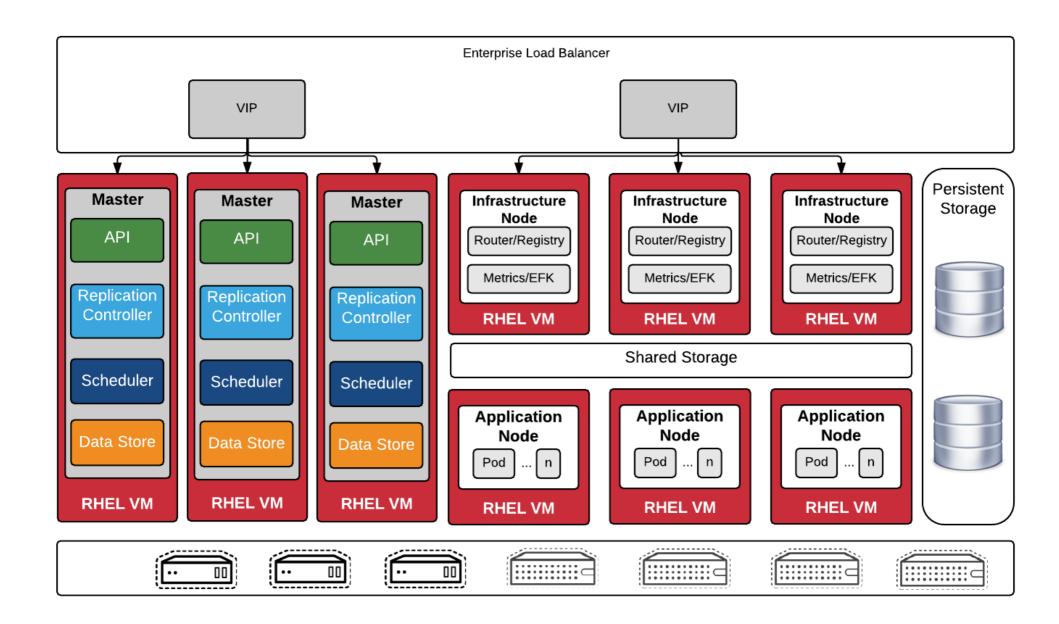
## Open Source Container Application Platform

- Origin is the upstream community project that powers OpenShift.
- Built around a core of Docker container packaging and Kubernetes container cluster management, Origin is also augmented by application lifecycle management functionality and DevOps tooling.
- Origin provides a complete open source container application platform.

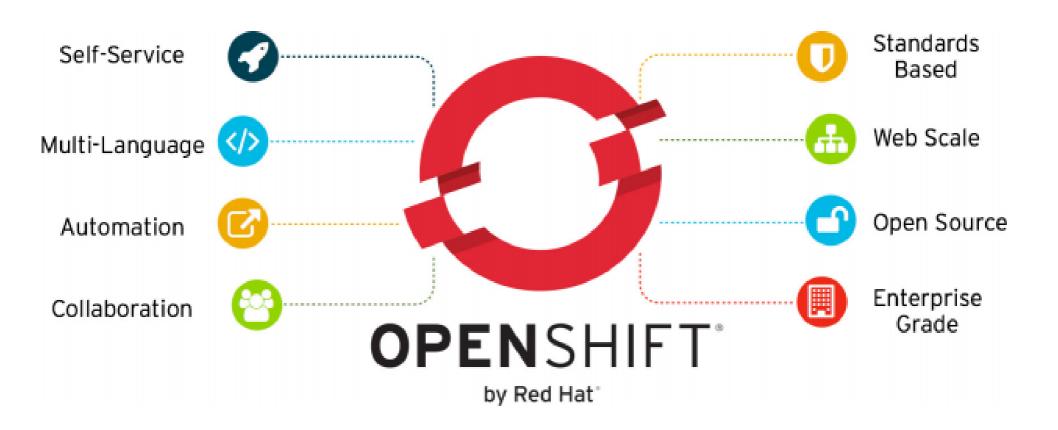
#### **OpenShift Architecture**



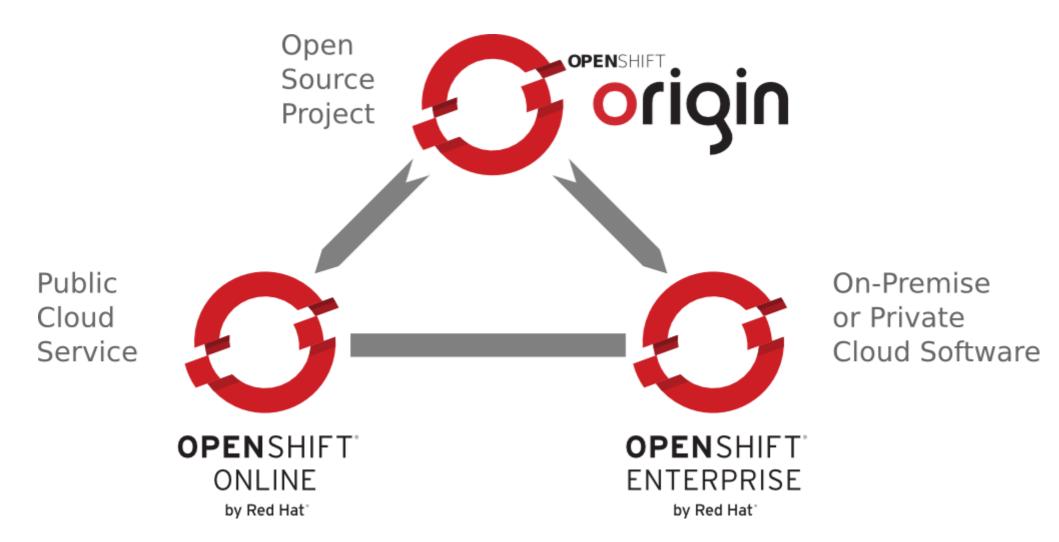
#### Highly-Available OpenShift Origin Cluster



## Why OpenShift



#### Flavors of OpenShift



#### Flavors of OpenShift (2)

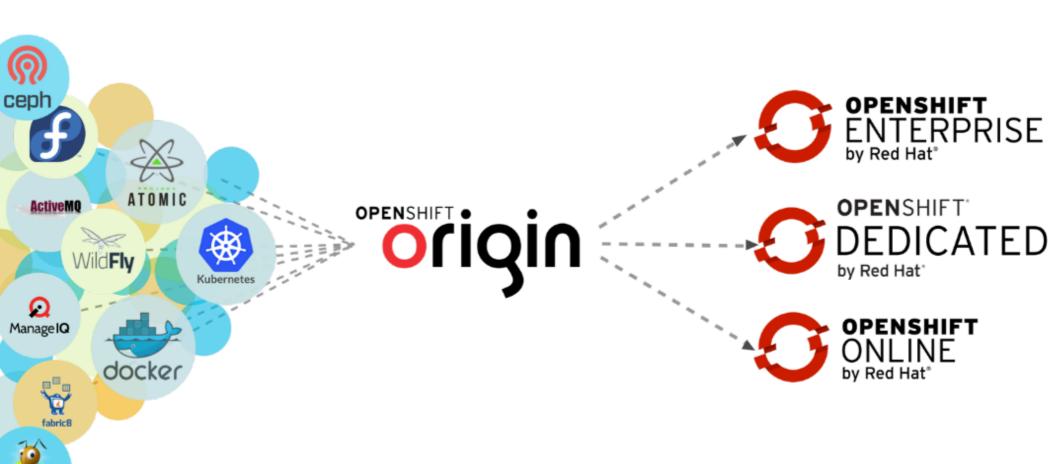
#### OpenShift Enterprise

It's the platform software to deploy and manage OpenShift on your own infrastructure of choice. It integrates with Red Hat Enterprise Linux 6 and is tested via Red Hat's QA process in order to offer a stable, supportable product with may be important for enterprises.

#### OpenShift Online

is managed by Red Hat's OpenShift operations team, and quickstart templates enable developers to push code with one click, helping to avoid the intricacies of application provisioning. You can view it as OpenShift delivered as a SaaS (Software as a Service)

#### **Community Powered Innovation**

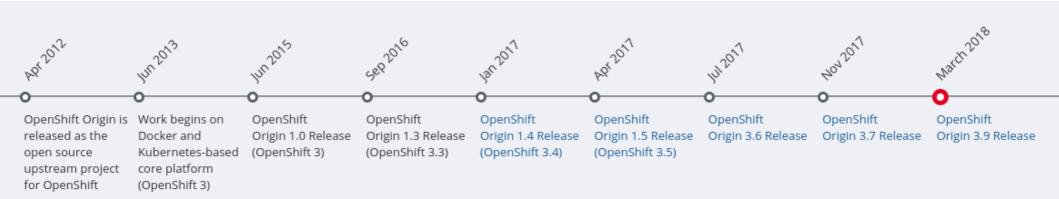




#### **Minishift**

- Minishift is a tool that helps you run OpenShift locally by launching a single-node OpenShift cluster inside a virtual machine. With Minishift you can try out OpenShift or develop with it, day-to-day, on your local machine.
- Minishift can run on Windows, macOS, and GNU/Linux operating systems.
- Minishift uses libmachine for provisioning virtual machines, and OpenShift Origin for running the cluster.

#### **OpenShift Releases**



#### OpenShift → OKD



 We're continuing that effort by introducing a naming change to OKD to better represent our project as a distribution of Kubernetes, align our terminology with the larger cloud-native community naming conventions, and clarifies how this upstream project functions within the Red Hat OpenShift product line.

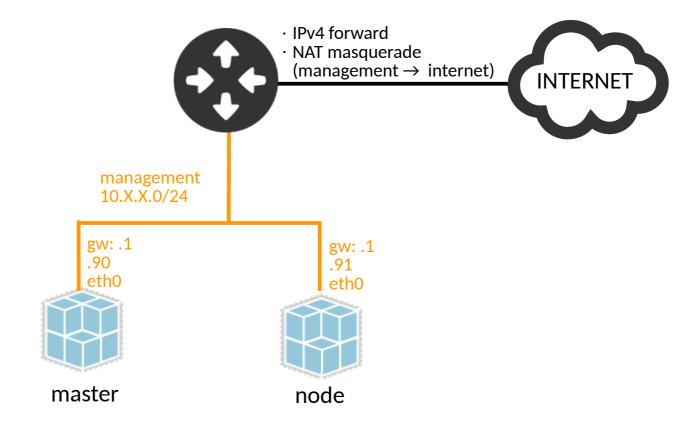
#### **OKD**

• OKD is here as of today (Aug. 3, 2018) as we release our next version (3.10). Beyond the great features in Kubernetes 1.10 and the user and customer focused stability, the most visible change in this release will be the introduction of the new name: OKD and the re-launch of the community website as OKD.io. You'll also see the new logo appear in the web console, on the documentation and on our new website: https://okd.io

## Lab

**OpenShift Installation** 

## **Lab Topology**



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