

**Optimize OpenShift 3 Deployments
on Red Hat Enterprise Linux 7 & Atomic:**

OPENSIFT FOR OPERATORS

redhat.slides.com/nhr/openshift-for-operators

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DEVELOPERS:

I can't hear you over how awesome my app is!

OPERATORS:

A high-angle photograph of a vast parking lot filled with hundreds of cars, mostly sedans, parked in neat rows. The ground is wet and reflective. In the center of the lot, a person in a dark jacket and jeans is walking away from the camera. A large yellow circle is drawn around the entire scene. In the foreground, a specific dark-colored car is circled in yellow. An arrow points from the text 'Developer Problem' to this circled car, and another arrow points from the text 'My Problem' to the same car.

Developer Problem →

← My Problem

OPENSIFT FOR OPERATORS

AGENDA

TECH OVERVIEW

What is OpenShift?

What is RHEL Atomic?

LAB OVERVIEW

A quick look at the lab

environment

LABS

Learn how to *get* OpenShift running -
and *keep* it running.

WRAP-UP

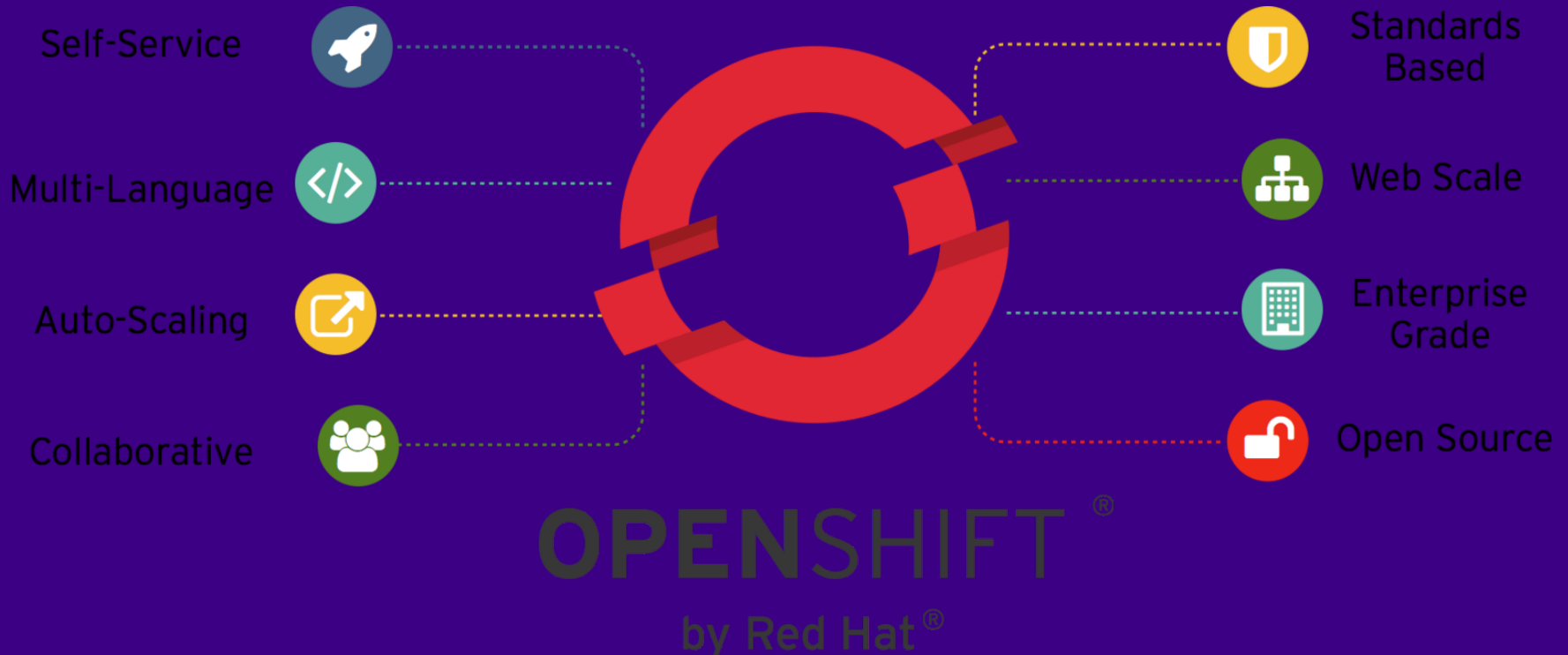
Where to continue your quest for learning

Don't forget to rate our lab!

TECHNOLOGY OVERVIEW

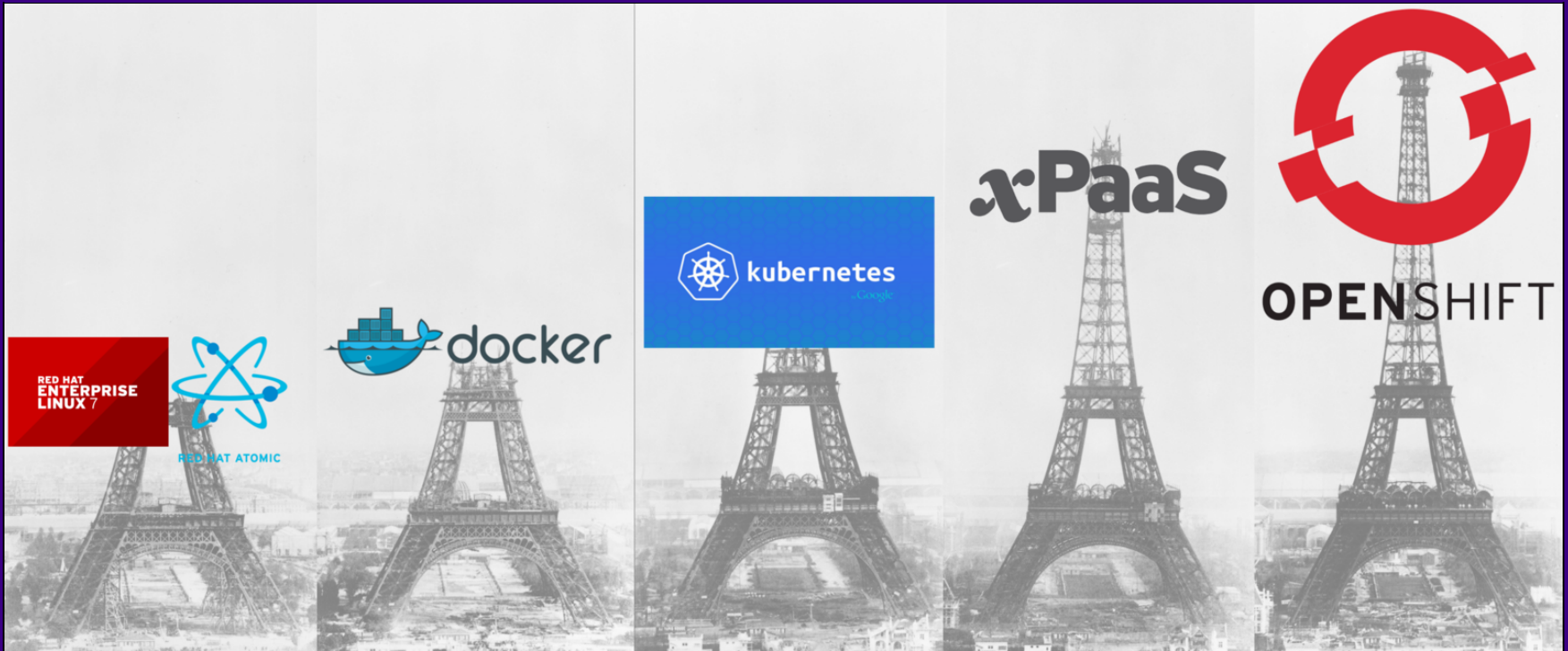
OVERVIEW: OPENSIFT 3

The Next-Generation PaaS



OVERVIEW: OPENSIFT 3

Components:



Container

Host

Container

API

Orchestration

Middleware

& Services

Lifecycle,

Project Mgt.

User Experience

OVERVIEW: RHEL ATOMIC

Run and orchestrate container-based apps at scale

What is Atomic?

- A variation of Red Hat Enterprise Linux 7
- Components:
 - systemd
 - Docker
 - SELinux
- Just enough OS for Containers
- OSTree delivers yum + RPM as an *atomic* operation



RED HAT ATOMIC

LAB OVERVIEW

([Download the Lab Guide](#))

LAB OVERVIEW

What can I expect?

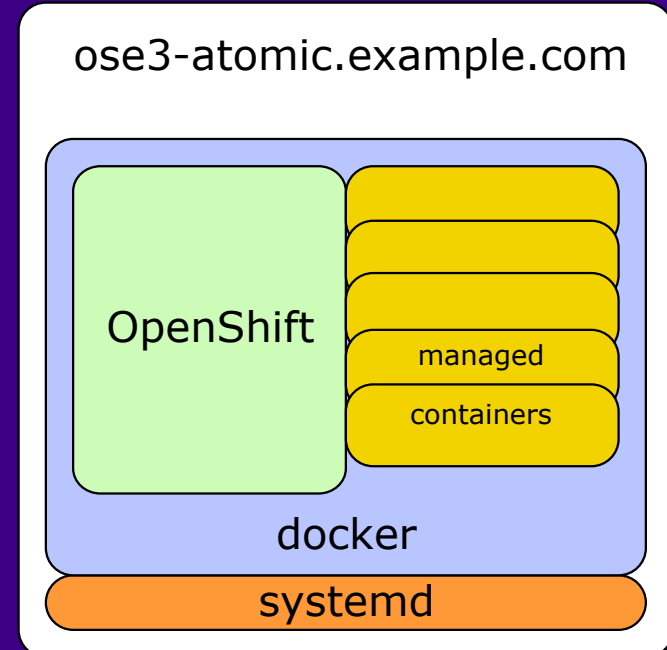
This lab is about learning how to get OpenShift running - and *keep* it running.

- "The POC": OpenShift v3 Test Drive on RHEL Atomic
- "The Rollout": Deploying OpenShift v3 Using Ansible
- "Maintenance Mode": Components, Apps and Users
- "Cluster Party Tricks": Node Maintenance

LAB ENVIRONMENT:

Test Driving OpenShift on RHEL Atomic

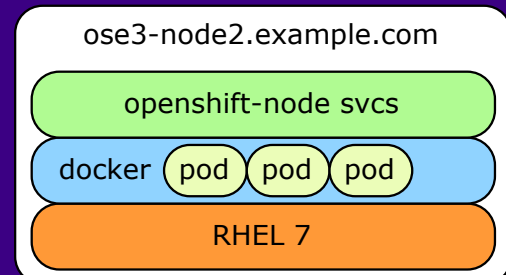
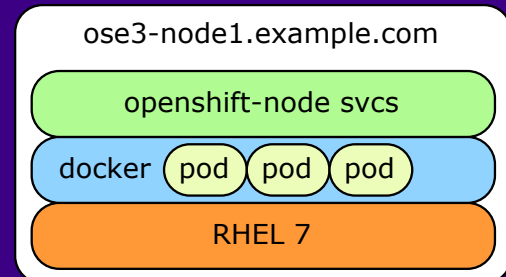
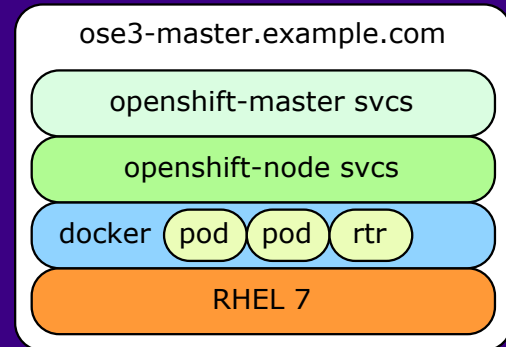
- ose3-atomic.example.com
- 192.168.133.10
- User / Password: **cloud-user** / **redhat**
- Start and interact with a completely containerized OpenShift instance
- Perform some basic CLI and web console tasks



LAB ENVIRONMENT:

OpenShift v3 in 3-Host Cluster

- ose3-master.example.com
- ose3-node1.example.com
- ose3-node2.redhat.com
- User / Password: **root** / **redhat**
- Deploy and manage OpenShift 3 in a model
production environment



LAB TIME!

REVIEW

- Overviews

 - OpenShift

 - RHEL Atomic

- Labs

 - "The POC"

 - "The Rollout"

 - "Maintenance Mode"

 - "Cluster Party Tricks"

TAKEAWAY?

TAKE IT WITH YOU:

```
$ docker pull openshift/origin
```

LOOKING FOR MORE?

Check out these resources in a web browser near you:

- OpenShift Blog: blog.openshift.com
- OpenShift Upstream: openshift.org
- Project Atomic: projectatomic.io



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**THANK
YOU!**