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MONOLITHS TO MICROSERVICES: APP TRANSFORMATION

Hands-on Technical Workshop

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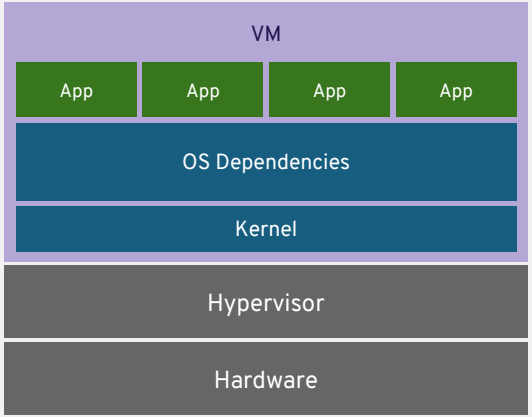
Red Hat Australia and New Zealand

A DEVELOPER INTRODUCTION TO OPENSHIFT

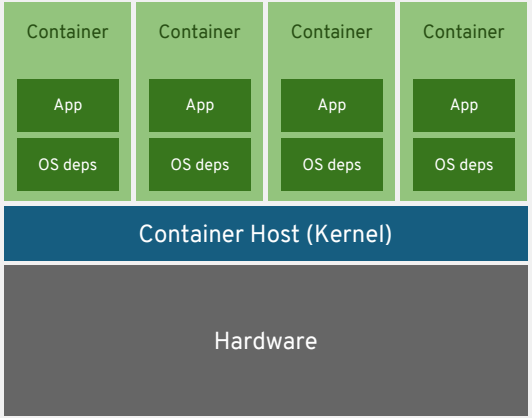
CONTAINERS

VIRTUAL MACHINES

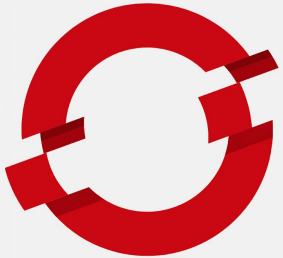


virtual machines are isolated
apps are not

CONTAINERS



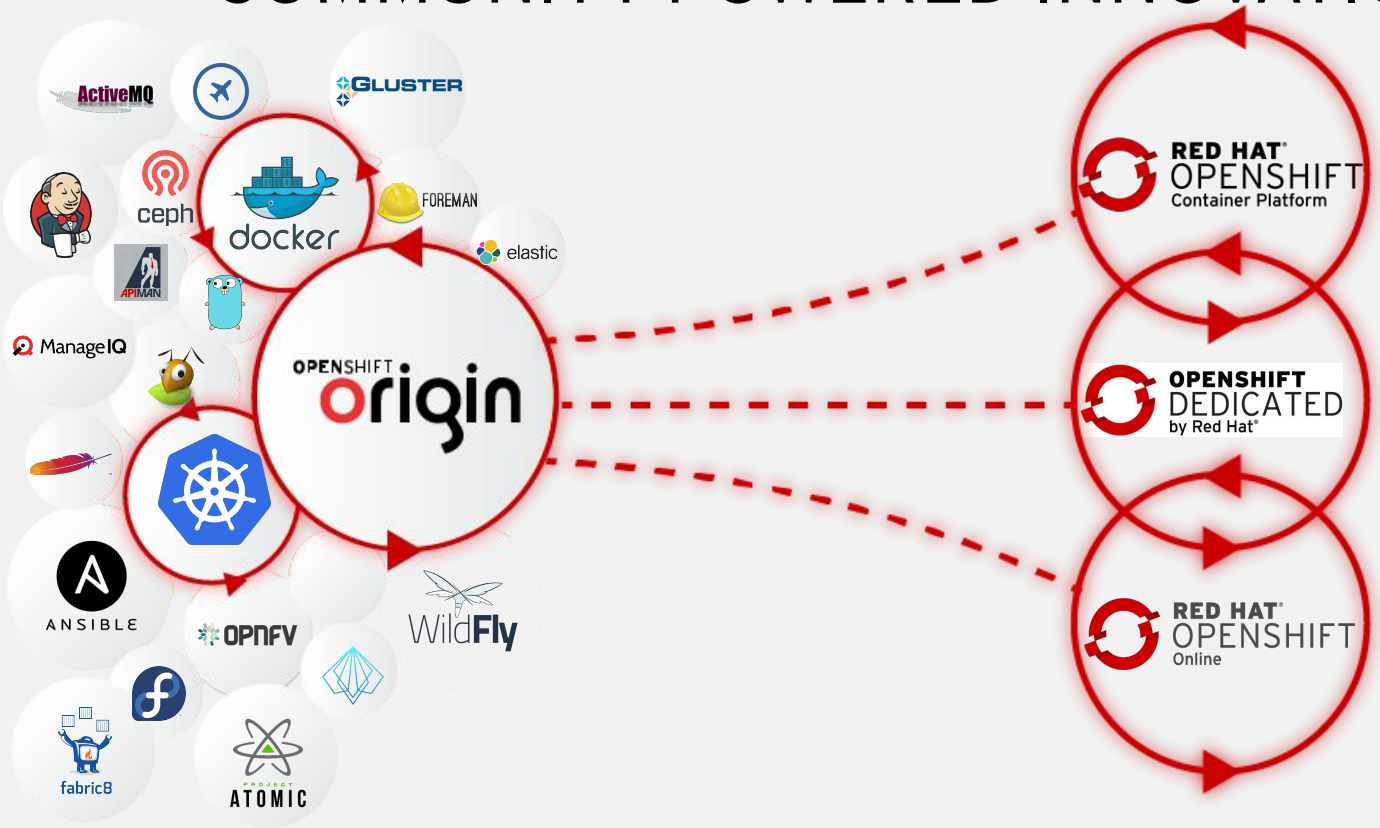
containers are isolated
so are the apps



RED HAT® OPENSHIFT

A secure and enterprise-grade container application platform based on Kubernetes for traditional and cloud-native applications

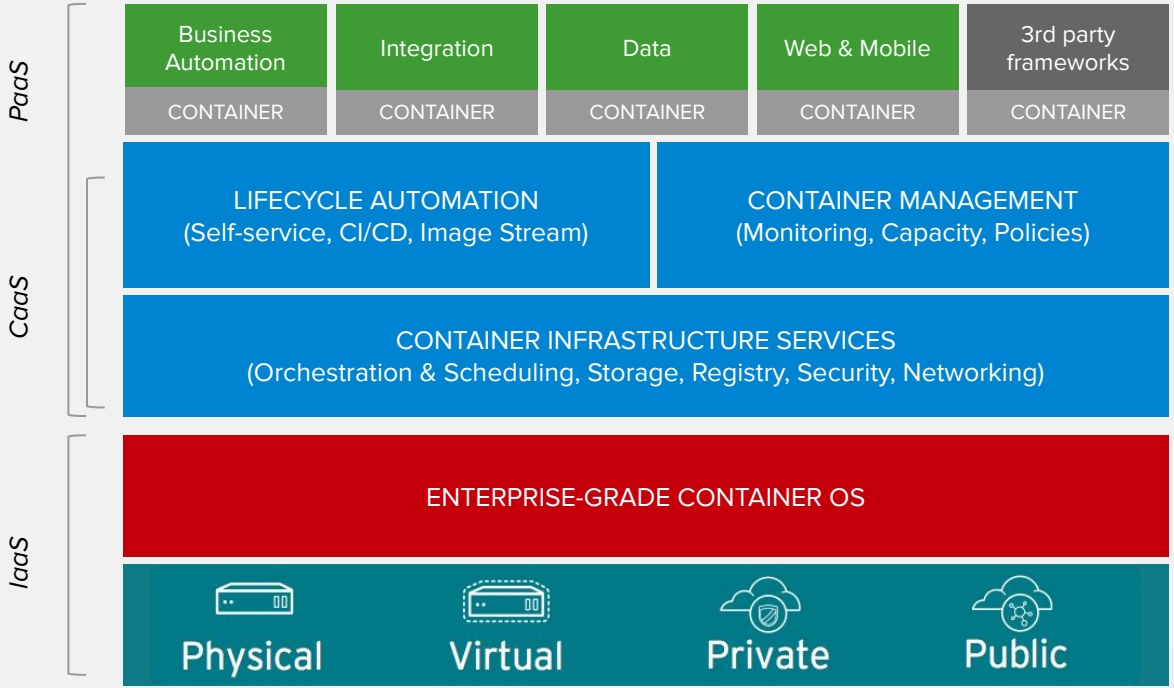
COMMUNITY POWERED INNOVATION



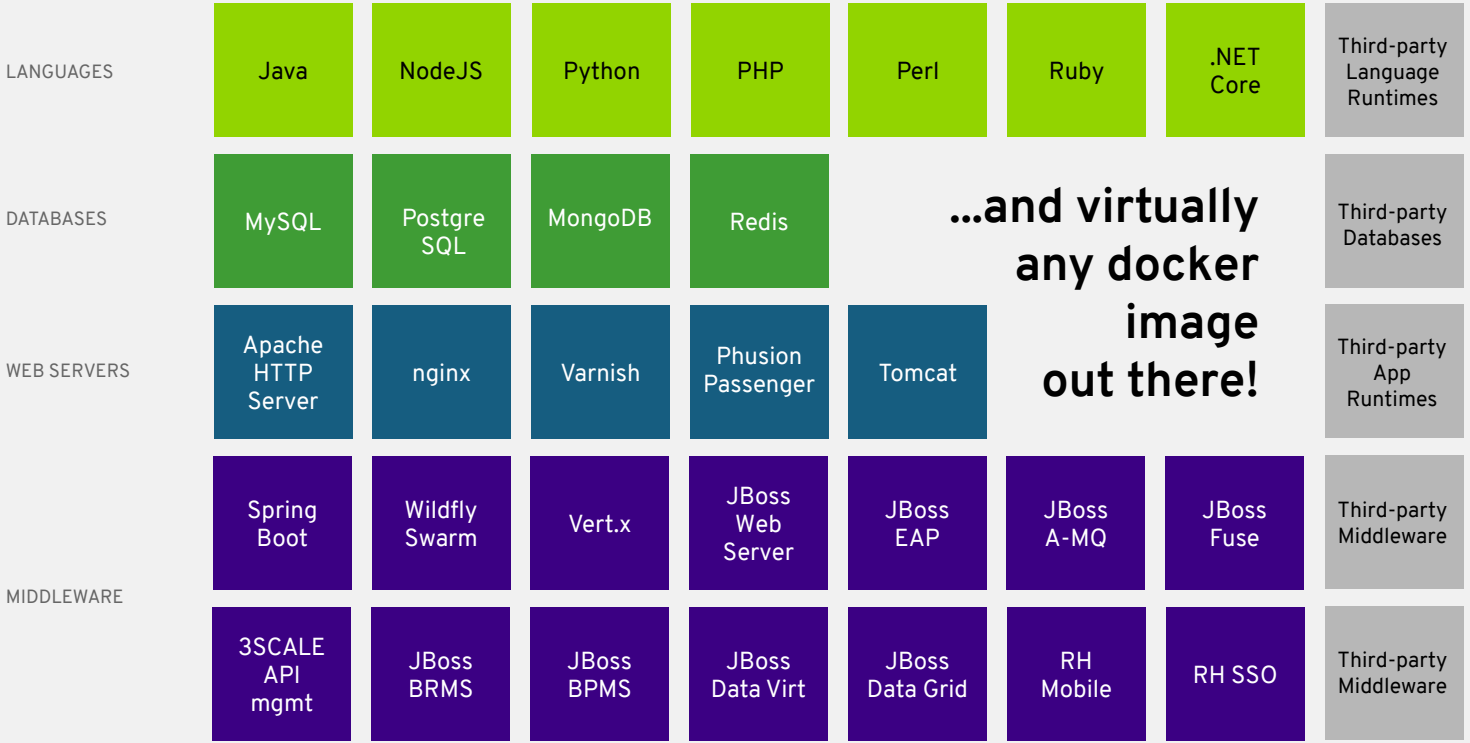
OPENSHIFT OVERVIEW

Red Hat OpenShift Container Platform

Red Hat Enterprise Linux & Atomic Host



SUPPORTED IMAGES



CrunchyData

GitLab

Iron.io

Couchbase

Sonatype

EnterpriseDB

NuoDB

Fujitsu

and many more

redhat.

ENTERPRISE JAVA

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ENTERPRISE
APPLICATION PLATFORM

SERVLET APPS

JAVA MICROSERVICES

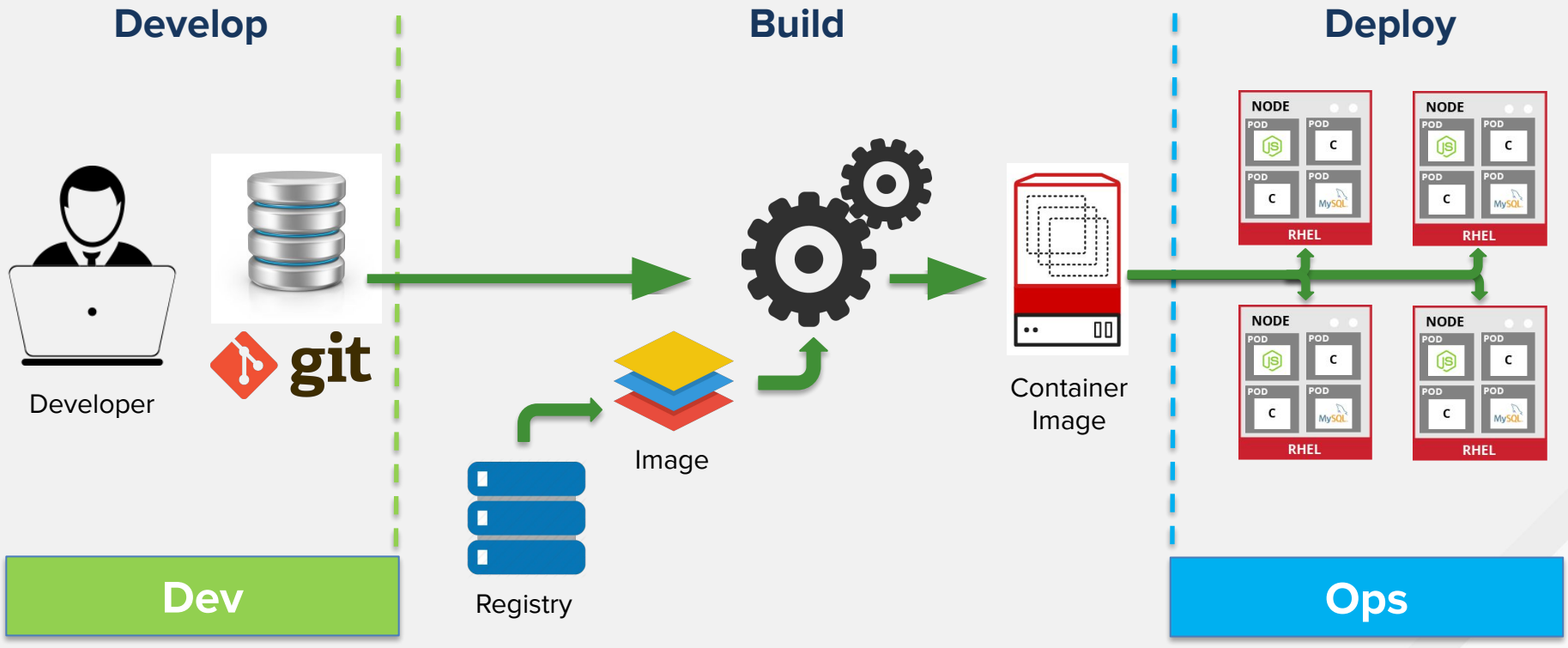
JAVASCRIPT FLEXIBILITY

REACTIVE SYSTEMS

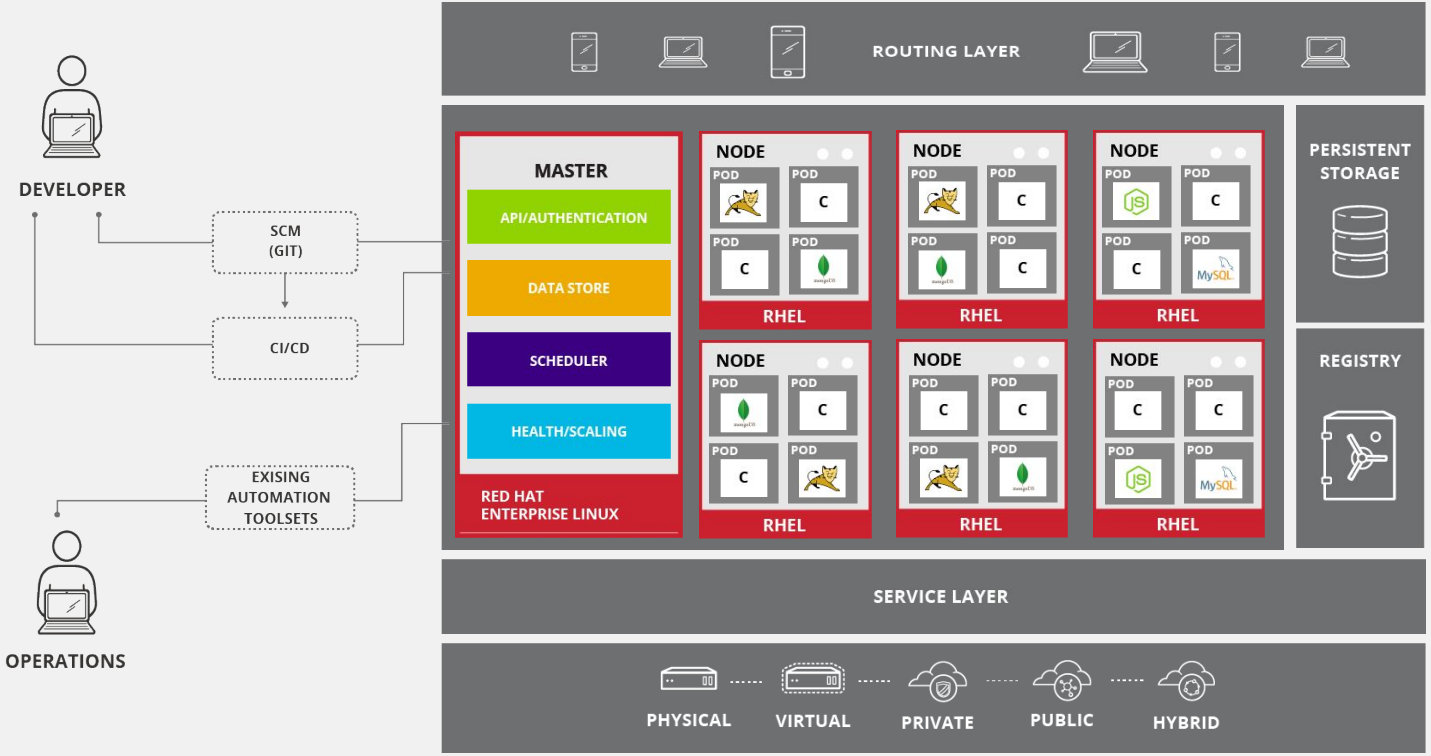
TOMCAT SIMPLICITY

RED HAT® JBOSS®
WEB SERVER

SOURCE TO IMAGE



OPENSHIFT ARCHITECTURE



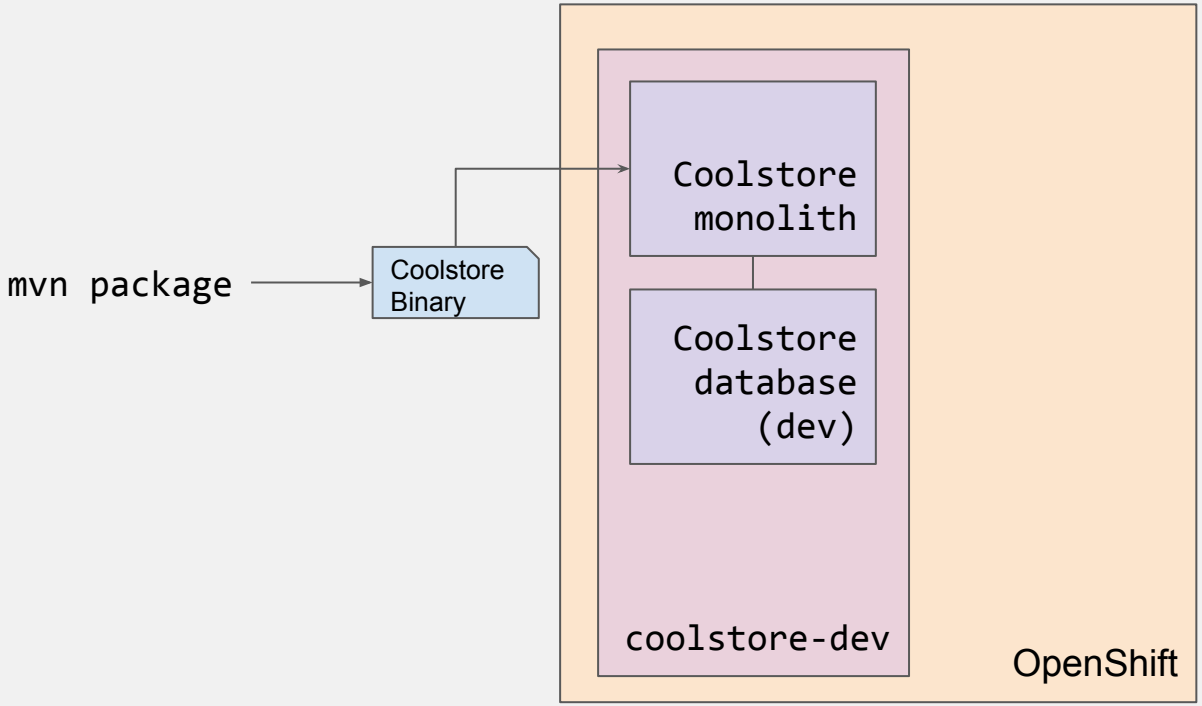
LAB: DEVELOPER INTRODUCTION TO OPENSHIFT

GOAL FOR LAB

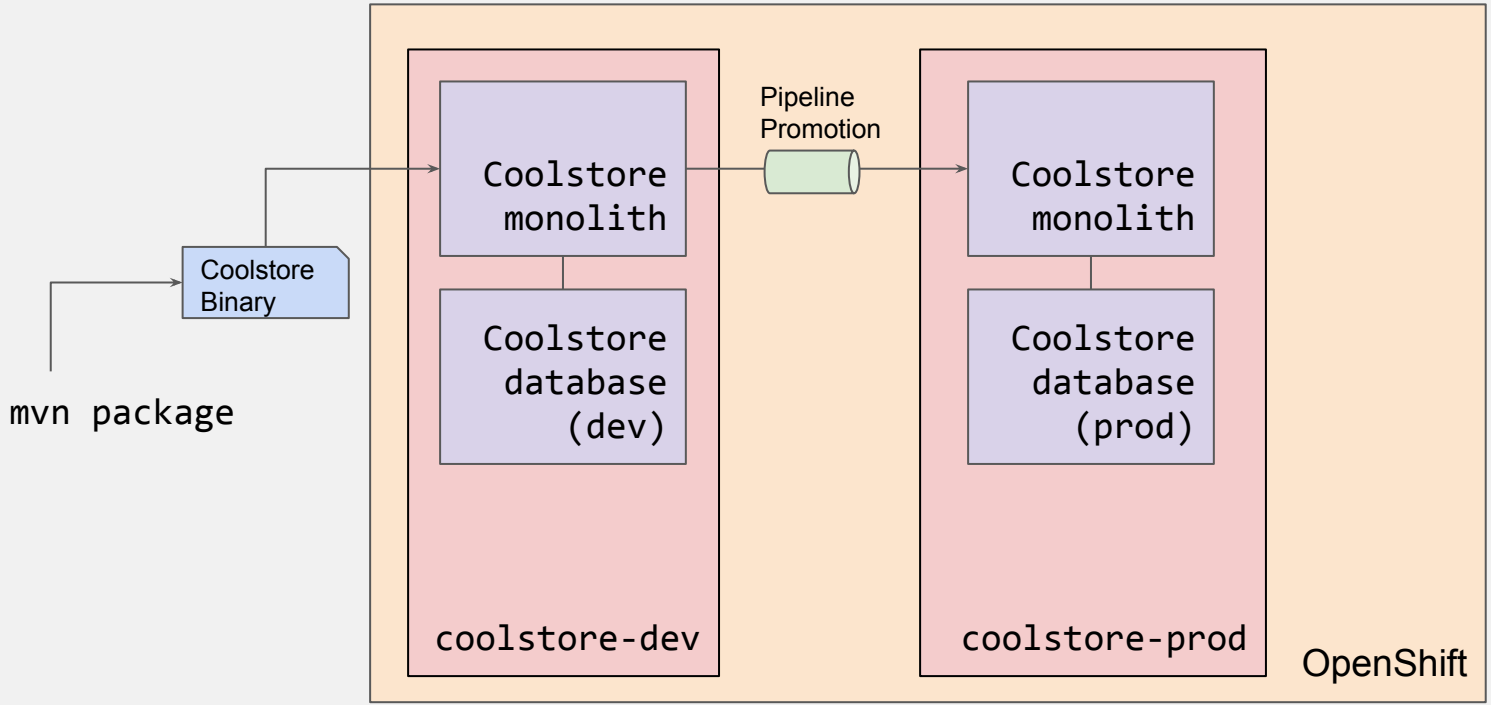
In this lab you will learn:

- Important OpenShift concepts for developers
- How OpenShift makes developers and architects happier
- How to do efficient round-trip development:
  - Separate **dev** from **prod** environments
  - Quick deployments using **rsync** / port-forwarding
  - Promoting apps using **CI/CD Pipelines**

CURRENT STATE



DESIRED RESULT OF SCENARIO 3



LAB: DEVELOPER INTRO TO OPENSHIFT

WEB: openshift-modernize-apps.katacoda.com
SLIDES (PDF): bit.ly/m2m-slides

SCENARIO 3 A DEVELOPER INTRODUCTION TO OPENSHIFT

WRAP-UP AND DISCUSSION

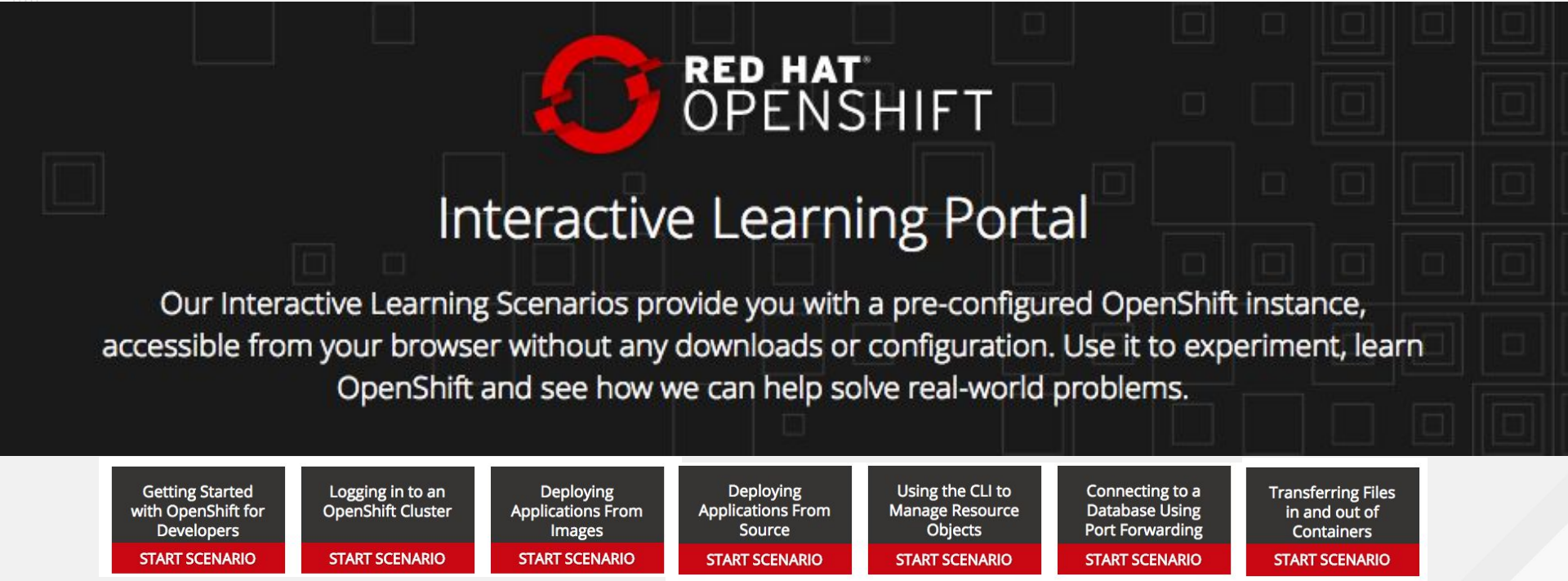
RESULT OF LAB

In this lab you learned how to:

- Do quick deployments with **`oc rsync`**
- Create a production environment separate from dev
- Promote tested/verified builds between environments using OpenShift pipeline builds

You should now have two projects (dev and prod) running the same CoolStore app! In the next lab we will begin the process of breaking the monolith up into microservices.

LEARN MORE: learn.openshift.com



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