

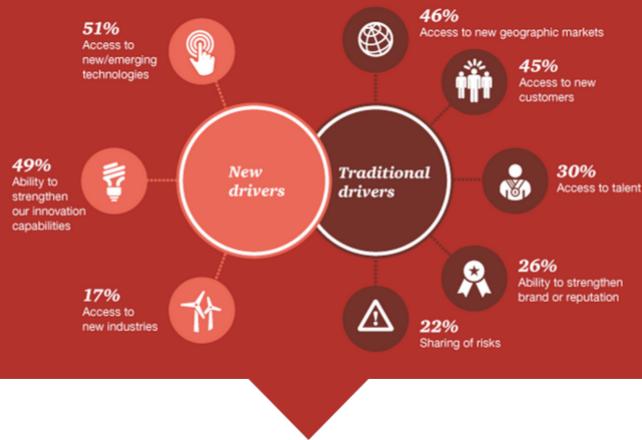


# Using the tools you know with OpenShift 3

**Steve Speicher**  
**Ben Parees**

# Impact of Technology

*US CEOs want innovation as much as new markets and customers from future alliances*



PwC - 2015 US CEO Survey

<http://www.pwc.com/us/en/ceo-survey/index.html>

36%

of US CEOs say they entered or considered entering a different industry at some point over the past three years

Half

Half of US CEOs believe a significant competitor is emerging or could emerge from technology sector versus 32% of CEOs globally.

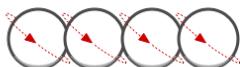
61%

Think it's likely competitors will compete in industries other than their own over the next three years

# IT Must Evolve to Stay Ahead of Demands

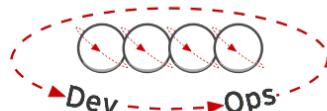
## Development Process

Waterfall



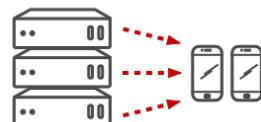
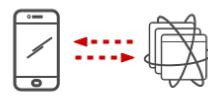
Agile

**DevOps**



## Application Architecture

Monolithic



N-Tier

**Microservices**



## Deployment & Packaging

Physical Servers



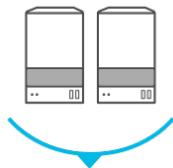
Virtual Servers

**Containers**



## Application Infrastructure

Datacenter



Hosted

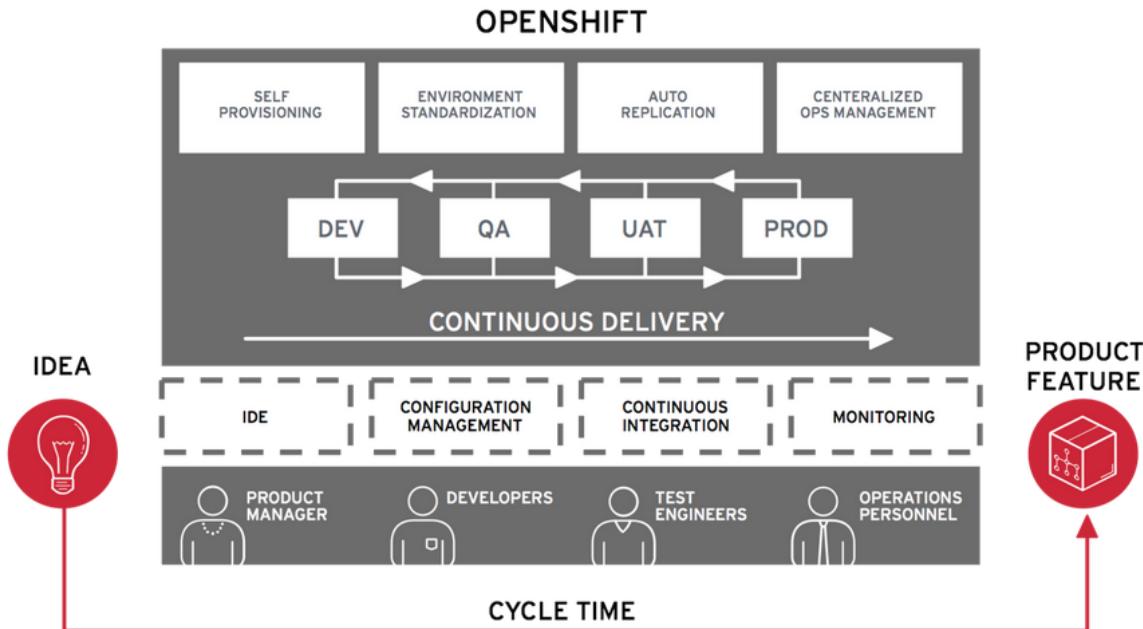


**Cloud**

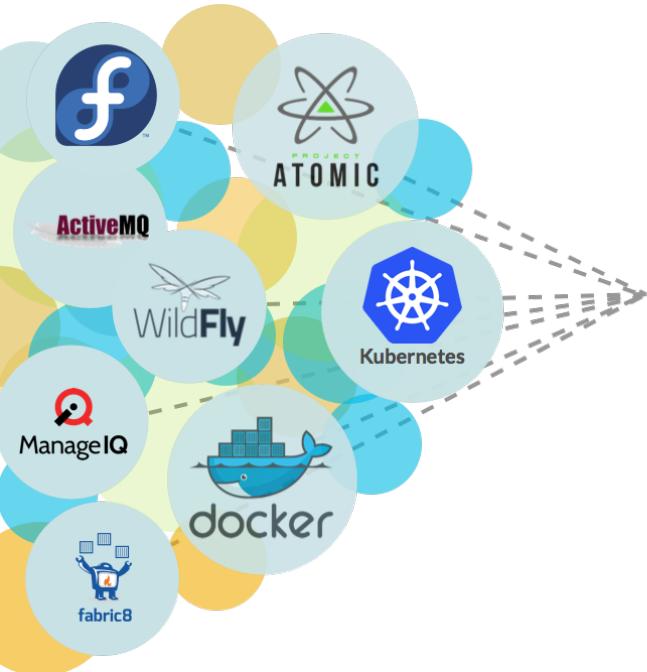


[openshift.com](http://openshift.com)

# Safe experimentation. Transition to production



# Community Powered Innovation



OPENSHIFT  
**origin**



# OpenShift 3



DEVOPS TOOLS & USER EXPERIENCE

LANGUAGE RUNTIMES, MIDDLEWARE,  
DATABASES AND OTHER SERVICES

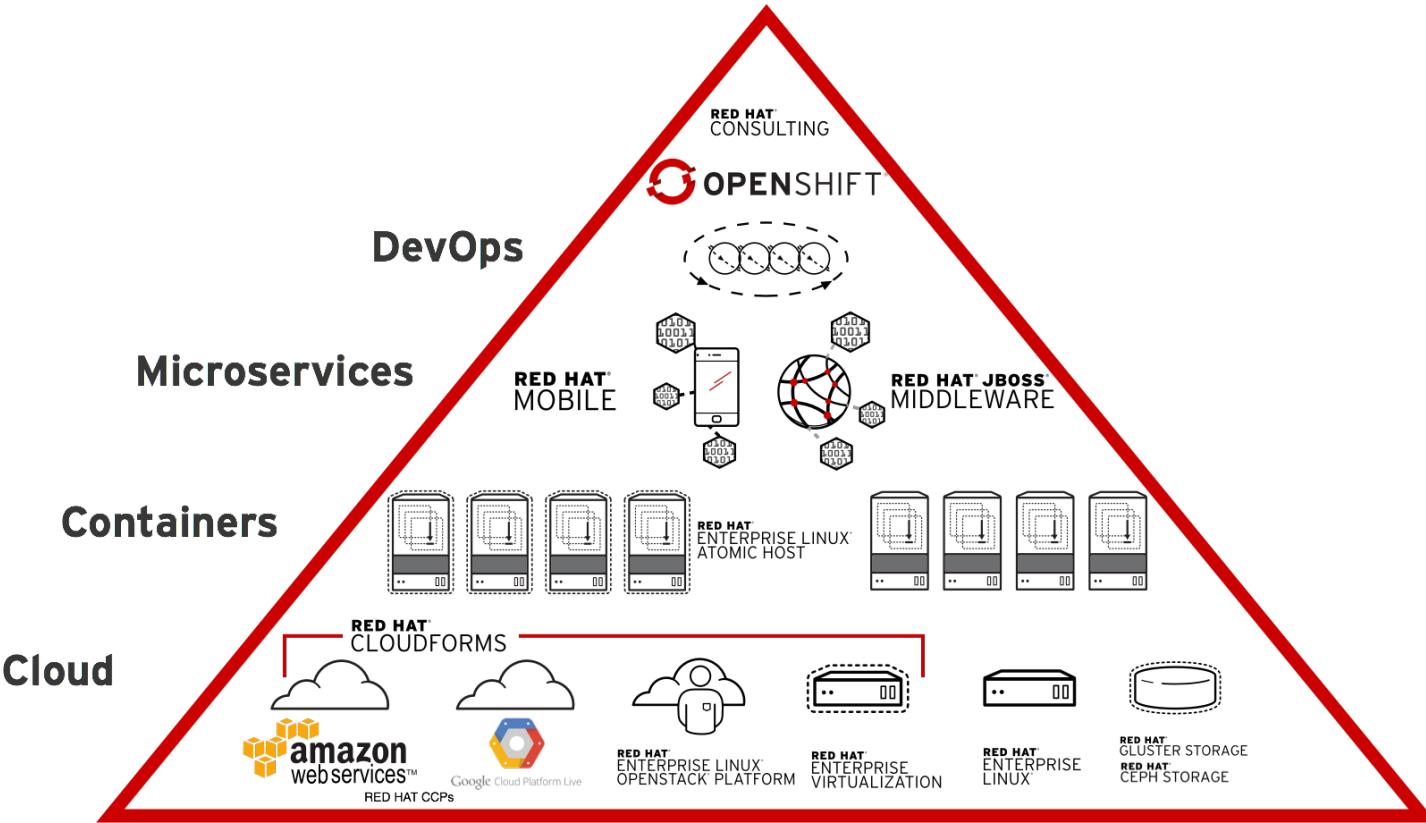
CONTAINER ORCHESTRATION & MANAGEMENT

CONTAINER API

CONTAINER HOST

- Standard containers API
- Web-scale container orchestration & management
- Container-optimized OS
- Largest selection of supported application runtimes & services
- Robust tools and UX for Development & Operations
- Industry standard, web scale distributed application platform

# Red Hat Brings It All Together



# OpenShift Application Services



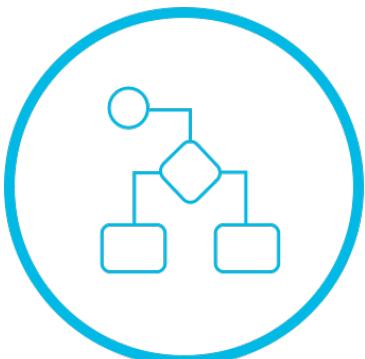
- From Red Hat
- From ISV Partners
- From the Community

# JBoss Middleware Services on OpenShift



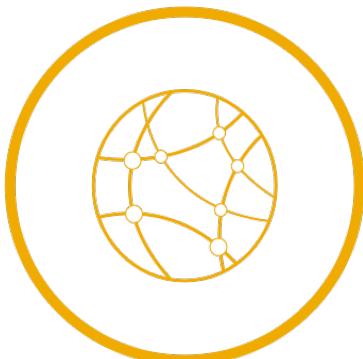
## Application Container Services

- JBoss Enterprise Application Platform
- JBoss Web Server / Tomcat
- JBoss Developer Studio



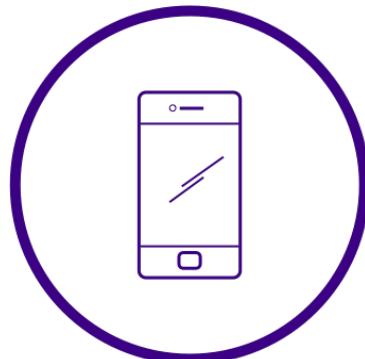
## Business Process Services

- Business Process Management \*
- Business Rules Management System \*



## Integration Services

- Fuse
- A-MQ
- Data Virtualization



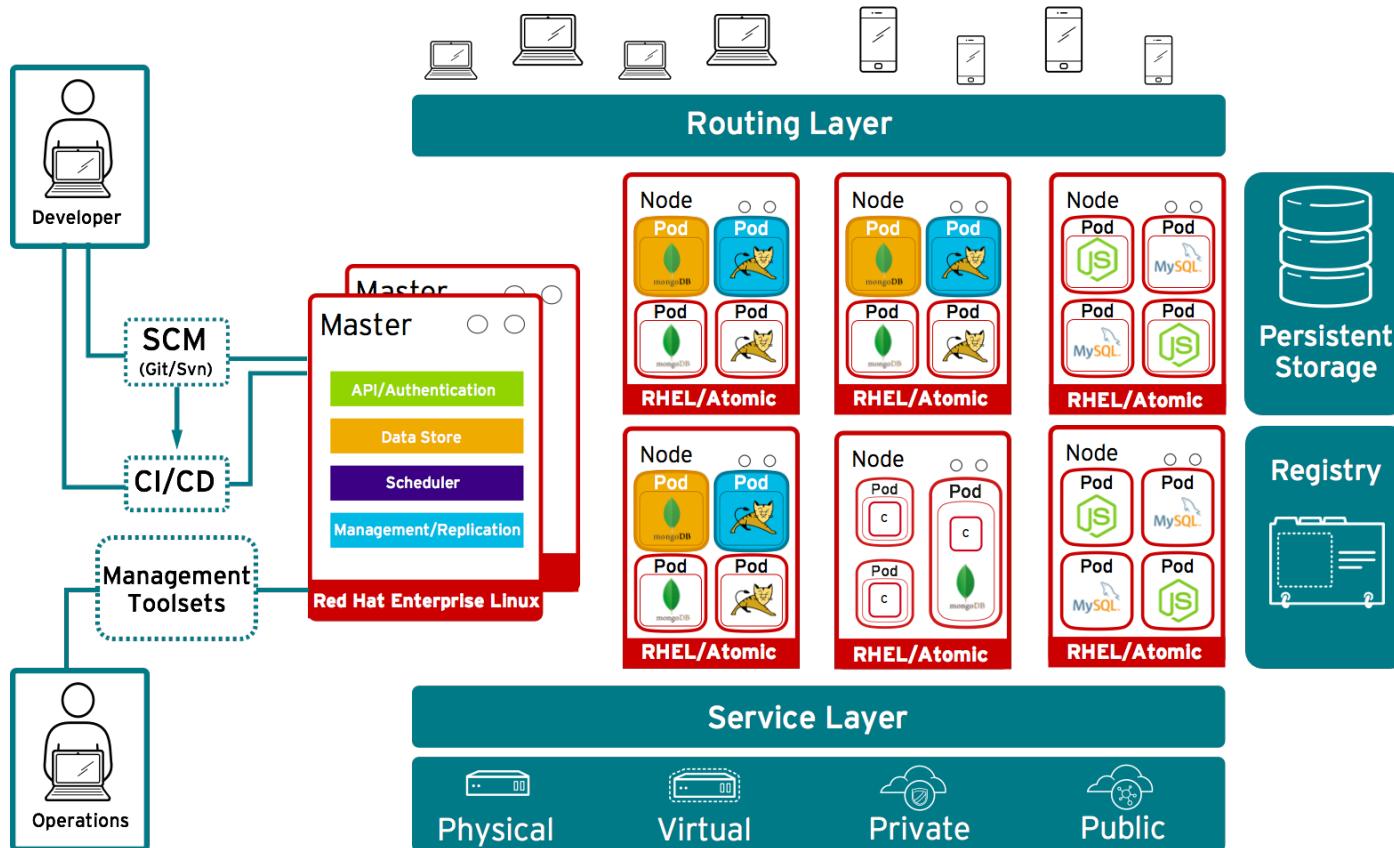
## Mobile Services

- Red Hat Mobile / FeedHenry \*

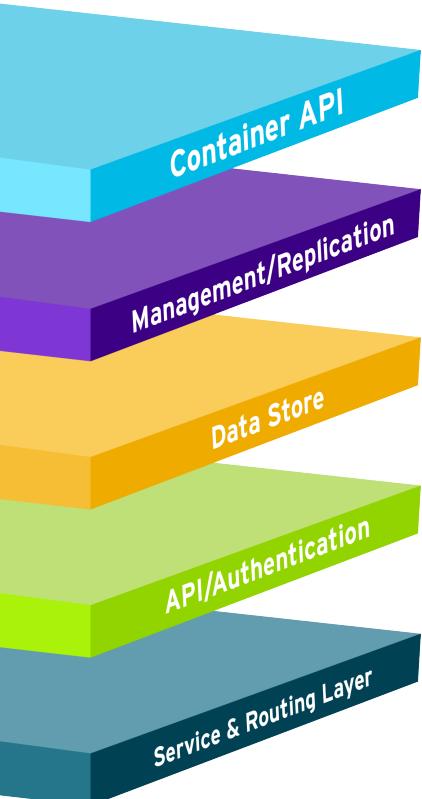
\* = Coming Soon

[openshift.com](http://openshift.com)

# Developers access openShift via web, CLI or IDE



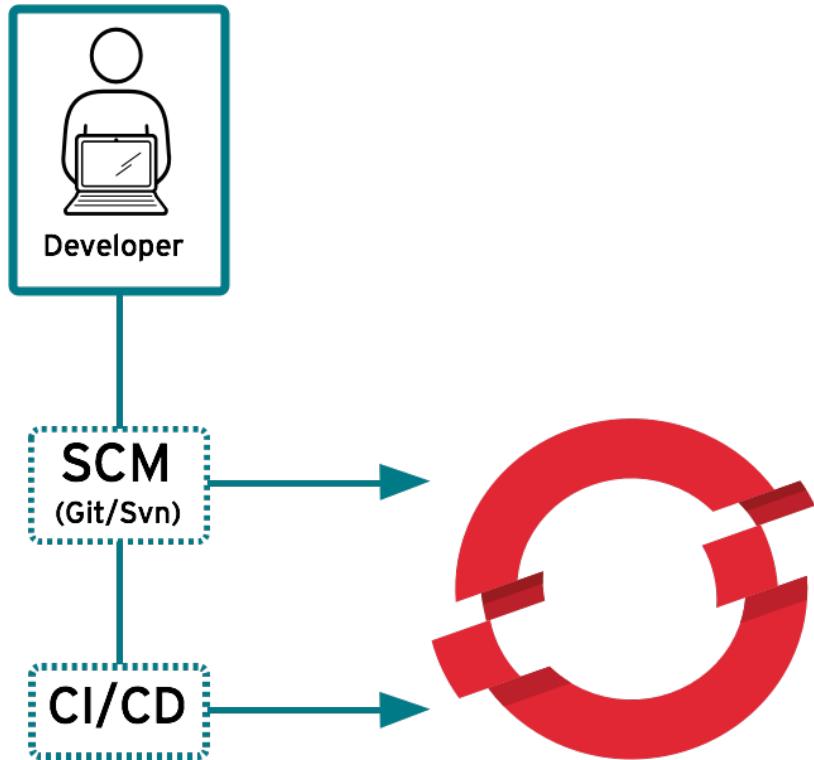
# Benefits for IT Operations



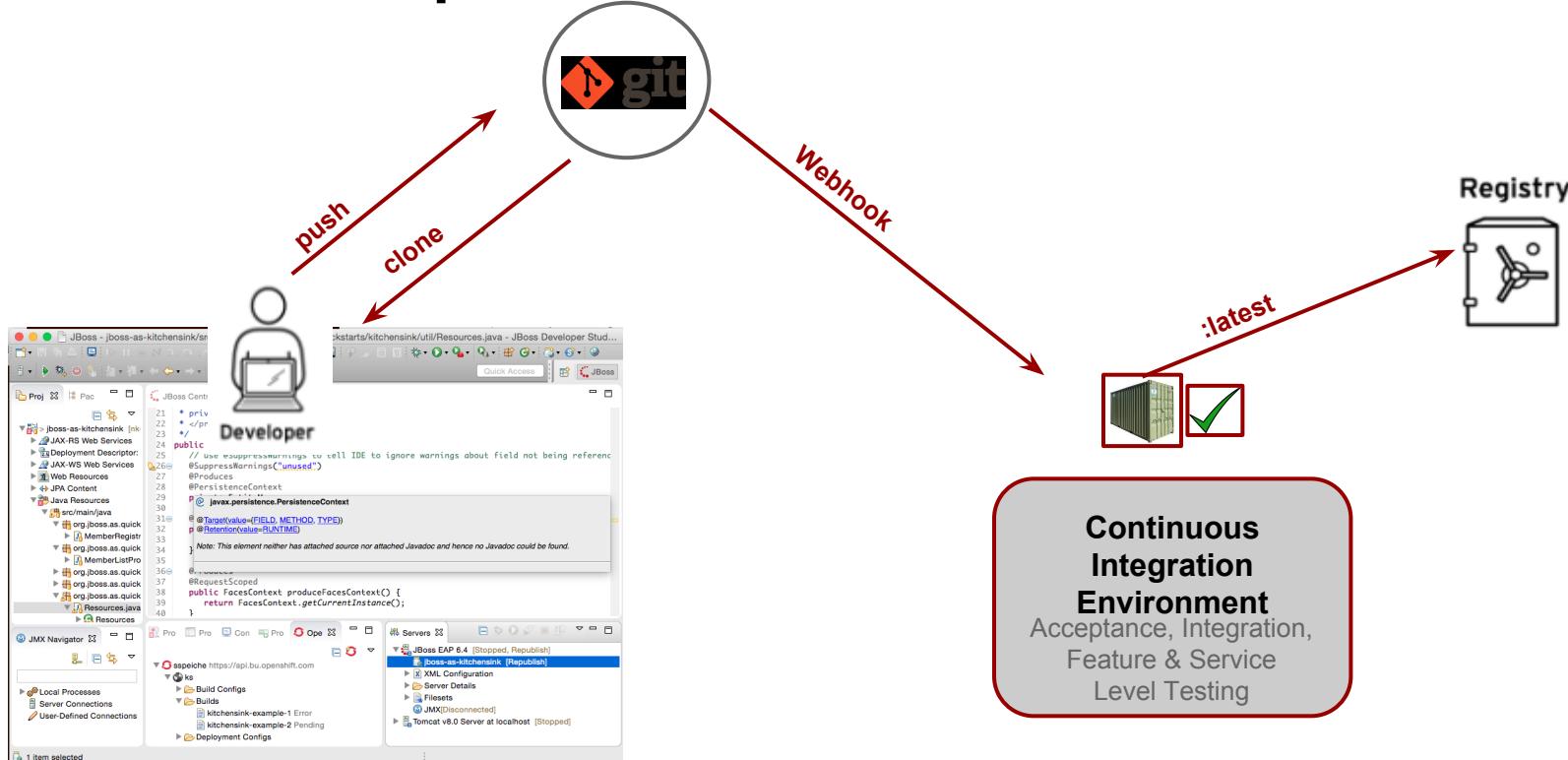
- Deploy a secure, enterprise-grade container-based application platform
- Enable application developers while improving operational efficiency & infrastructure utilization
- Utilize advanced scheduling and automated placement with regions and zones for HA
- Leverage powerful declarative management for application services
- Manage user & team access and integrate with enterprise authentication systems

# Benefits for Developers

- Access a broad selection of application components
- Deploy application environments on-demand
- Leverage your choice of interface & integrate with existing tools
- Automate application deployments, builds and source-to-image
- Enable collaboration across users, teams & projects



# Local Development



# JBoss Developer Studio demo 1

- Start with local Eclipse project
- Dev/test locally
- Create project on OpenShift
- Import project with template
- See app built on OpenShift



# JBoss demo 1

- demo1-jbds.mp4

# JBoss Developer Studio demo 2

- Start with fresh IDE
- Connect to OpenShift
- Import app
- Do local fix
- Git push
- Watch it get updated

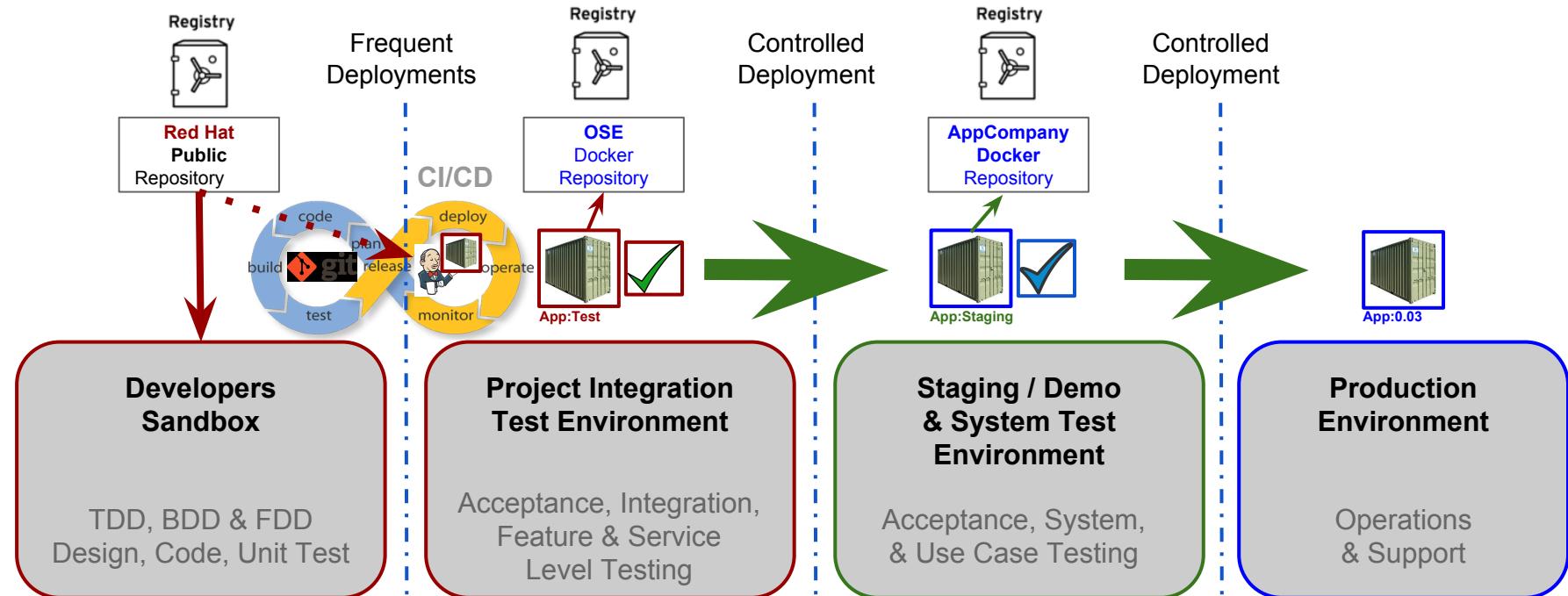


# JBoss demo 2

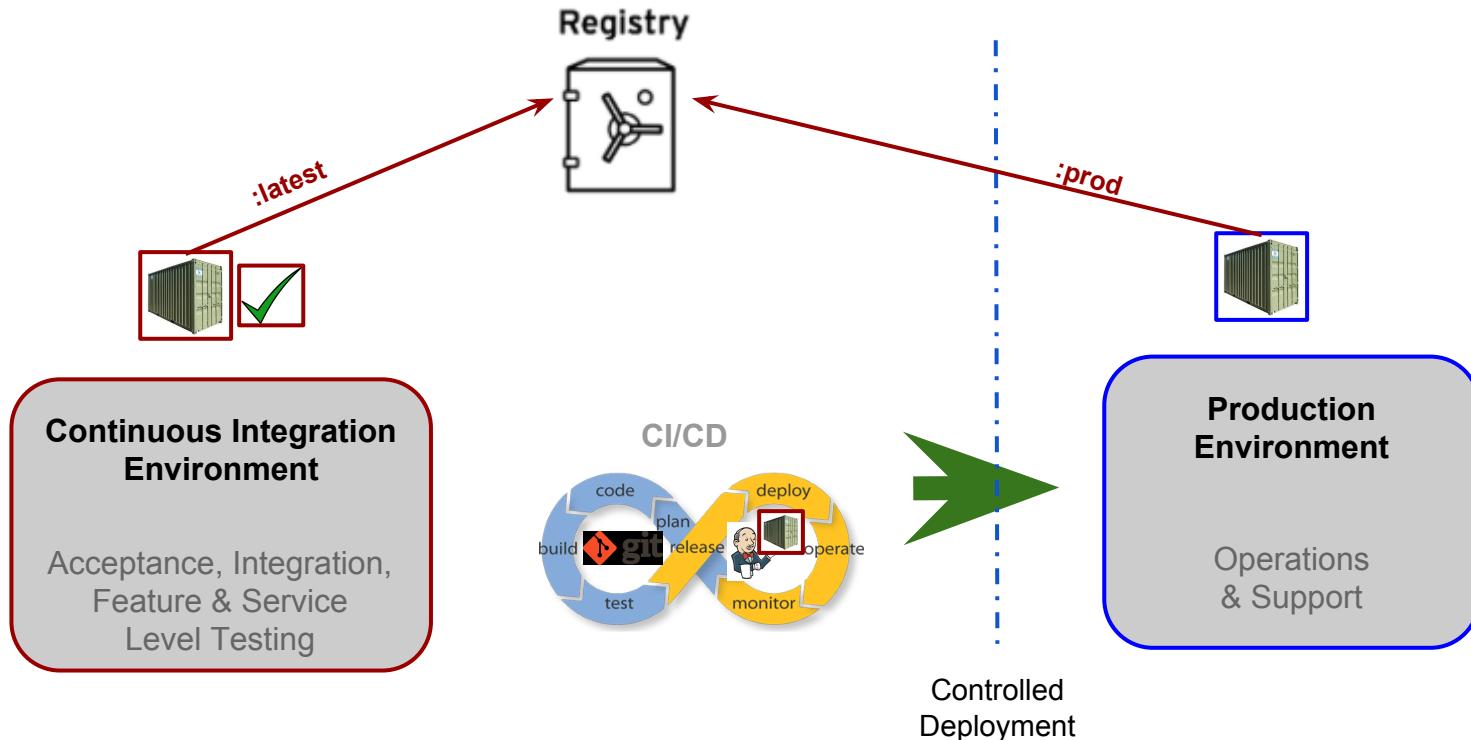
- demo2-jbds.mp4

# Delivery Pipeline - Stages

*Utilizing OpenShift Enterprise Environments*



# CI/CD Pipeline - Jenkins Demo



# Jenkins demo 1

- Start with a template, kitchensink-example
- Contains definitions for two services: dev and prod
- Two deployment configs (test, prod)
  - based on different image tags
- One build config (test)
- Add Jenkins instance to project



# Jenkins

# Jenkins demo 1

- demo3-jenkins.mp4

# Jenkins demo 2

- Notice dev instance is up, nothing in prod service
- Review Jenkins settings
  - review scripts
- Manually kick off Jenkins build



# Jenkins

# Jenkins demo 2

- demo4-jenkins.mp4

# Jenkins demo 3

- Observe Web Console and build running, no prod service running
- Manually kick off build
- Observe image being tagged
- Observe prod deploy triggered based on tag
- Launch prod service to see it running



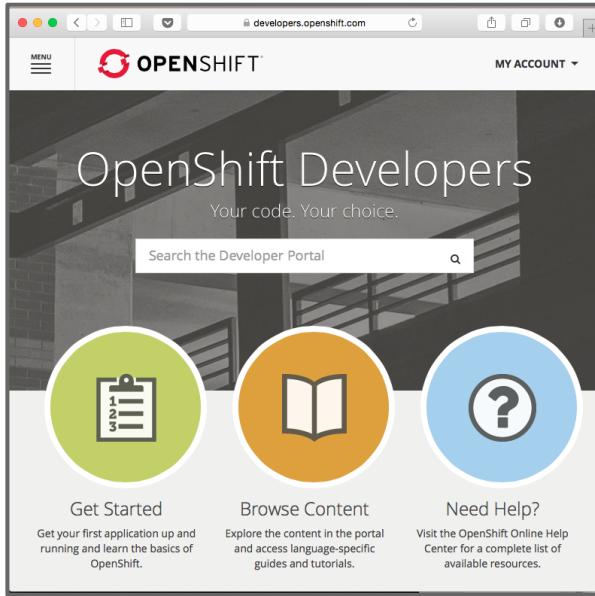
# Jenkins

# Jenkins demo 3

- demo5-jenkins.mp4

# What next?

[developers.openshift.com](http://developers.openshift.com)



[blogs.openshift.com](http://blogs.openshift.com)

A screenshot of the OpenShift blog. The header includes the OpenShift logo and "MY ACCOUNT". The main content area has a heading "Blog" and a post titled "OpenShift Demo Part 12: Using Persistent Storage" by Veer Muchandi from August 27, 2015. The post includes a thumbnail for "OPENSHIFT 3 DEMO", a summary about persistent storage, and a "Read More..." link. To the right is a sidebar with a search bar and a "CATEGORIES" section listing: Educators (16), Events (347), News (423), Products (561), OpenShift Dedicated (17), OpenShift Enterprise (169), OpenShift Online (416), OpenShift Origin (179), and Technologies (382).

All things OpenShift <http://openshift.com>

# Roadshow - coming to a city near you

SEATTLE



Tuesday, September 15

AUCKLAND



Thursday, October 8

MADRID



Thursday, October 8

GENEVA



Thursday, October 22

ATLANTA



Tuesday, November 10

Check [openshift.com](http://openshift.com)  
for a location near  
you...