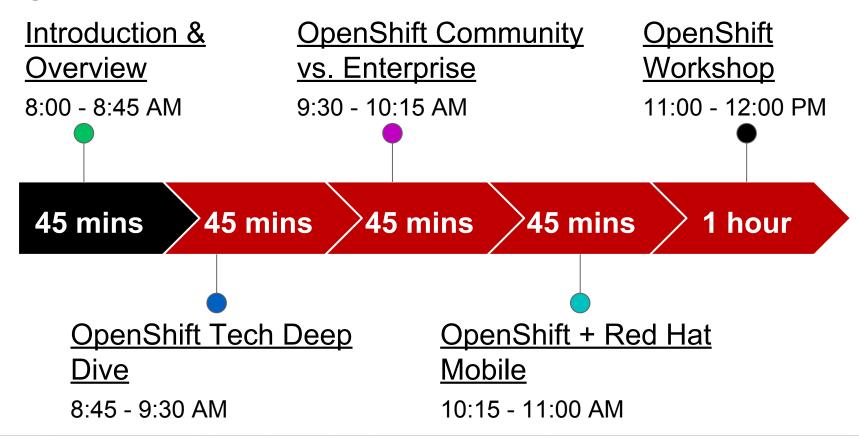


Michael Surbey Solutions Architect msurbey@redhat.com

August 2016



## **Agenda**

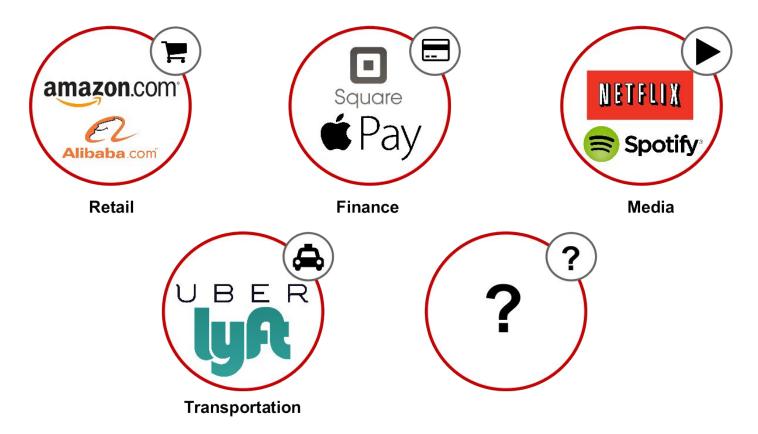




## **Software Disrupts Business**



## **Industry Shake-up**





## Impact Of Technology





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



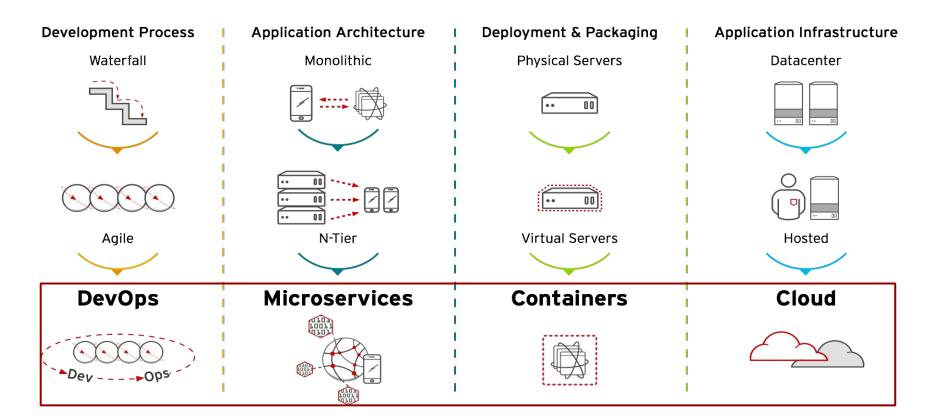
Half of US CEOs believe a significant competitor is emerging or could emerge from technology sector versus 32% of CEOs globally.

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





### **IT Must Evolve**





## **What Are Containers?**



## **Containers**



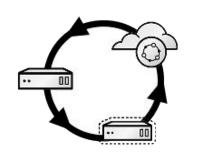


## Why Hype Containers?



### **The Value of Containers**









FASTER APP DELIVERY

DEPLOYMENT FLEXIBILITY

OPERATIONAL EFFICIENCY

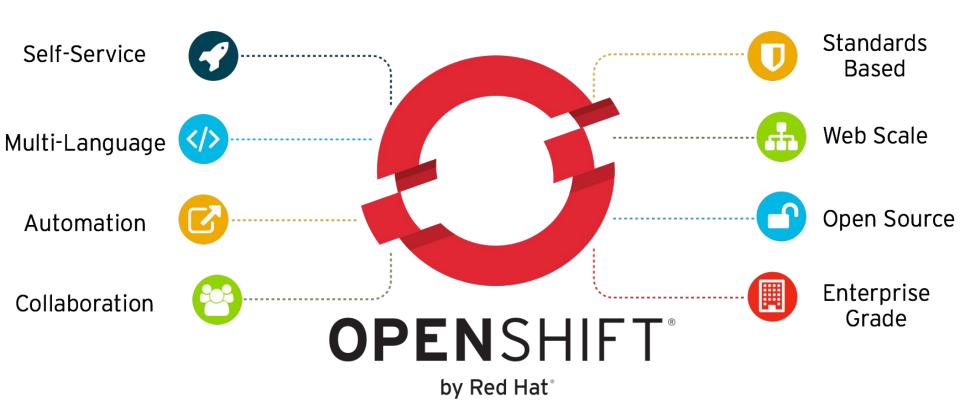
LOWERED DEPLOYMENT COSTS



## What Is OpenShift?



## **Red Hat's Container Application Platform**





## **OpenShift 3.2**

- Standard containers API
- Web-scale orchestration
- Container optimized OS
- Expanded choice of frameworks and services
- Improved developer & operator experience



#### **USER EXPERIENCE**

CONTAINERIZED SERVICES
(xPaaS + Docker Hub + Marketplace)

#### ORCHESTRATION

(Kubernetes)

CONTAINER API (Docker)

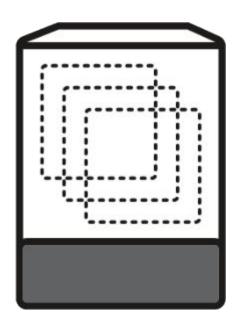
(RHEL + Atomic)



## Why Select OpenShift?



### **Trusted Container Host**



 Enterprise-grade security, stability & reliability with Red Hat Enterprise Linux 7

Minimal footprint, container optimized, auto updated
 OS with Atomic Host

 Certified to run Linux containers at scale





**Products & Services** 

Tools

Security

Community

CVE > CVE-2016-3697

### CVE-2016-3697

It was found that Docker would launch containers under the specified UID instead of a username. An attacker able to launch a container could use this flaw to escalate their privileges to root within the launched container.

Find out more about CVE-2016-3697 from the MITRE CVE dictionary dictionary and NISTNVD.

#### CVSS v2 metrics

Base Metrics

Access Vector

Authentication

Integrity Impact

Availability Impact

Access Complexity

Confidentiality Impact

**red**hat.

Security >

Partial

Partial

Partial

NOTE: The following CVS	SS v2 metrics and	score provided	are preliminary an	d subject to review.

Base Score	6

6			

AV.NI./AC.N./AC./C.D./I.D./A.D	AV:N/AC:M/Au:S/C:P/I:P/A:P		

Visit link for more: <a href="http://red.ht/202eyw3">http://red.ht/202eyw3</a>

Impact:

Bugzilla:

Public Date:

2016-04-22









Moderate









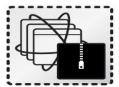
## **Driving & Adopting Standards**

#### Isolation with Linux Containers



- Isolating applications on host operating systems
- Security
- Portability across host systems

### Container format with Docker



- Interface for communication, configuration, data persistence & provisioning
- Content agnostic
- Infrastructure agnostic

#### Orchestration With Kubernetes



- Orchestrate containers at scale
- Define application topologies
- Handle container networking
- Manage container state
- Schedule across hosts

#### Registry/Container Discovery



- Easily find and consume trusted container images
- Federate consumption libraries
- Promote consistency and reuse



## **Application Services**

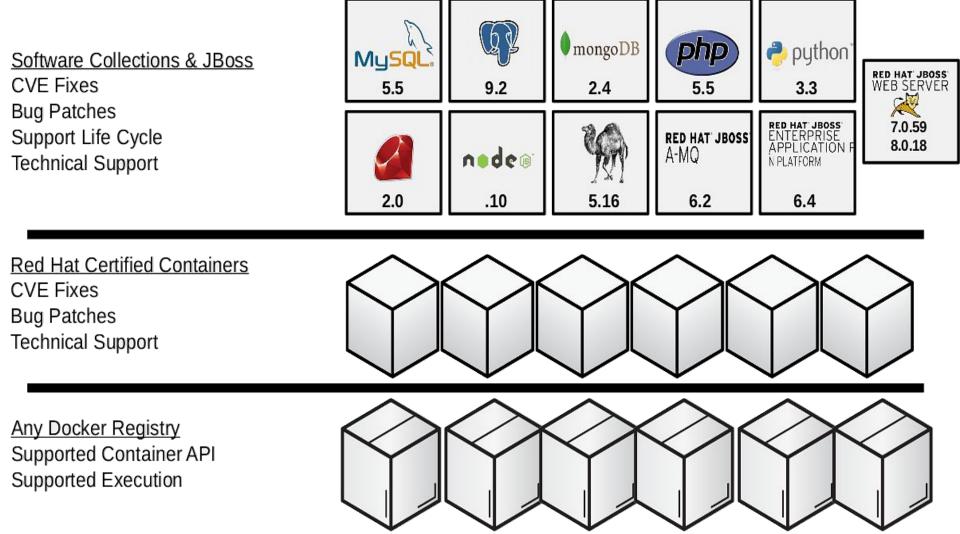


 Access certified container images from Red Hat & ISVs

 Choice of language runtimes, databases, etc.

 xPaaS application & integration services powered by JBoss





## **OpenShift Short Story**

















You Tube

# Thank You!

 $g_{ ext{+}}$  plus.google.com/+RedHat

in linkedin.com/company/red-hat

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