Michael Surbey
Solutions Architect
msurbey@redhat.com

August 2016

redhat.

Agenda

Introduction & Overview

8:00 - 8:45 AM

OpenShift Community vs. Enterprise

9:30 - 10:15 AM

OpenShift Workshop

11:00 - 12:00 PM

OpenShift Tech Deep Dive

8:45 - 9:30 AM

OpenShift + Red Hat Mobile

10:15 - 11:00 AM

Open source leader for enterprise IT.

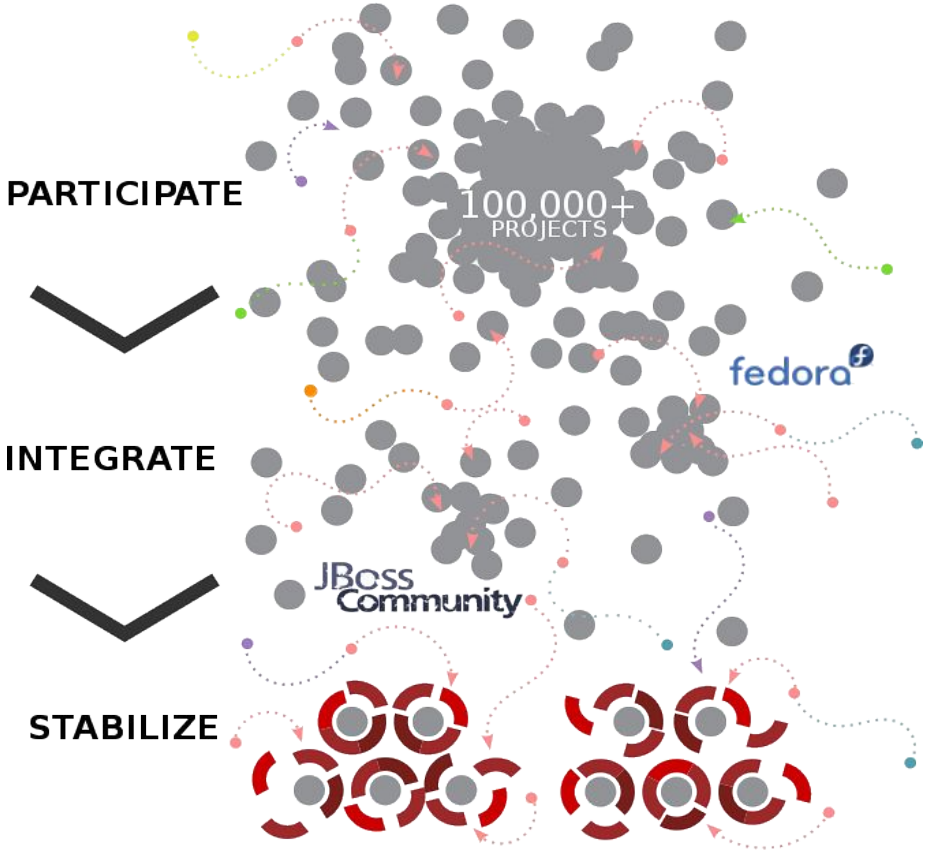
S&P 500 index company.

WE ARE RED HAT

Globally active in all major vertical markets.

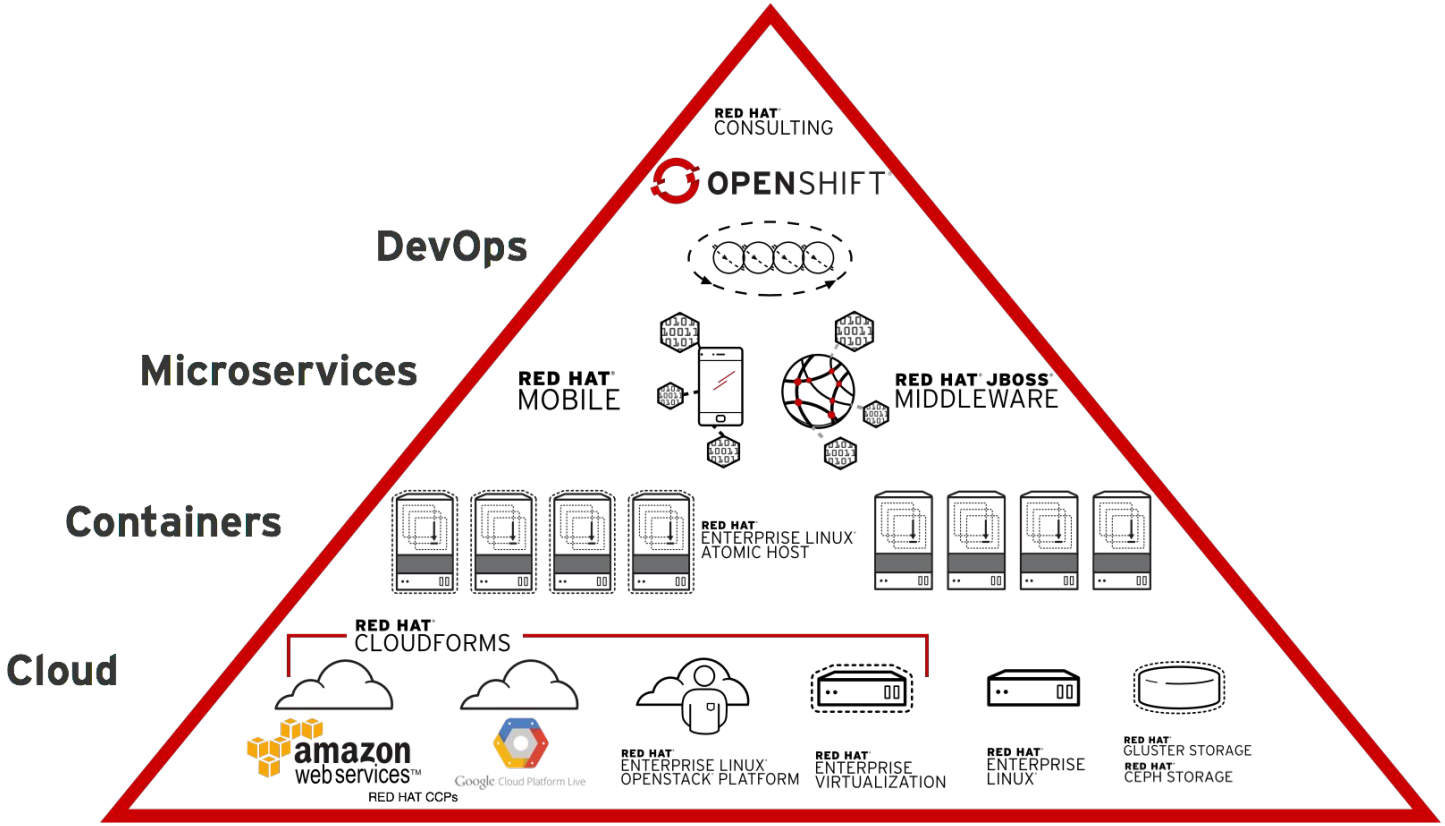
Comprehensive portfolio.

Product Process



- We build & support open communities around integrated projects.
- We enable software & hardware partners to participate at every stage of development.
- We commercialize these innovations together with a rich ecosystem of services & certifications.

Extensive Product Portfolio



RED HAT & YOUR BUSINESS: SUBSCRIPTION MODEL

redhat

TECHNICAL SUPPORT

- 24 HOURS / 7 DAYS A WEEK
- UNLIMITED INCIDENTS
- MULTI-LINGUAL
- MULTI-VENDOR CASE OWNERSHIP
- MULTI-CHANNEL

ONGOING DELIVERY

- STABILITY WITH A PRODUCT LIFE CYCLE OF UP TO 10 YEARS
- PATCHES
- UPDATES
- UPGRADES
- SECURITY RESPONSE TEAM

EXPERTISE

- CUSTOMER PORTAL & FORUMS
- KNOWLEDGEBASE
- ACCESS LABS
- TRAINING CURRICULA (OPTIONAL)

COMMITMENTS

- HARDWARE CERTIFICATION
- SOFTWARE CERTIFICATION
- CLOUD PROVIDER CERTIFICATION
- SOFTWARE ASSURANCE

AWARD-WINNING SUPPORT

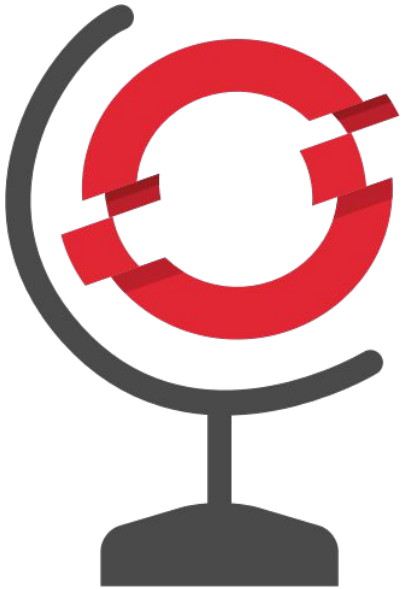
HDI
Leading IT Service & Support

The Association of Support Professionals
Award Winner
The Year's Ten Best Web Support Sites

YEARS AWARDED:
2011 2013 2015
2012 2014

ComputerWorld Customer Care Awards

Client References



Visit link for more: http://red.ht/1QOfnSR

Customer Wins

openshift.com/customers

Business Challenges

- Leading financial analytics software provider, with solutions to calculate risk such as FICO credit score
- Wanted to expand their business by diversifying their offerings and serving new markets
- Decided to build a new FICO Analytics Cloud to enable online access to FICO tools & services

Key Benefits

- On-demand platform allows FICO clients to build the applications they need and get faster time to value
- OpenShift automates provisioning and systems management of the FICO platform stack to improve IT operational efficiency
- OpenShift also provides an embedded solution for on-premise platform delivery

Customer Wins

Supporting Space and Naval Warfare Systems Center Pacific

openshift.com/customers

Business Challenges

- Provide a consistent and controlled hosting environment to test and deploy applications across multiple environments.
- Reduce time and cost to develop and sustain an expanding portfolio
- Comply with strict United States Department of Defense application security requirements

Key Benefits

- Can now prototype 4-5 times more application scenarios per day
- Ability to provide new capabilities to users, including faster application deployment at a lower cost.
- Increased interoperability of products
- Better scalability between datacenter and laptop environments

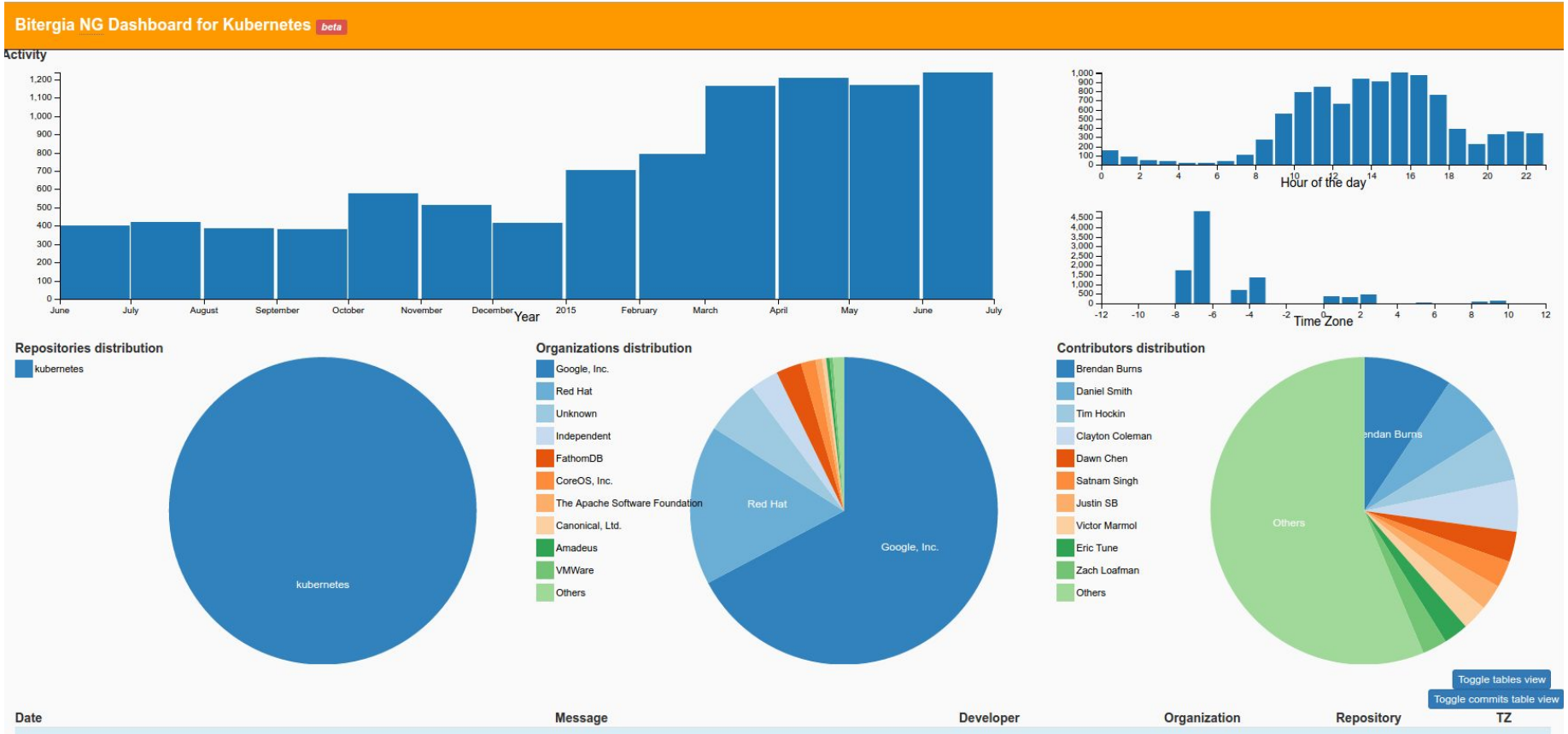
Community Backed Innovation

Upstream Community Involvement

Dedicated OpenShift Origin (Upstream) Red Hatters

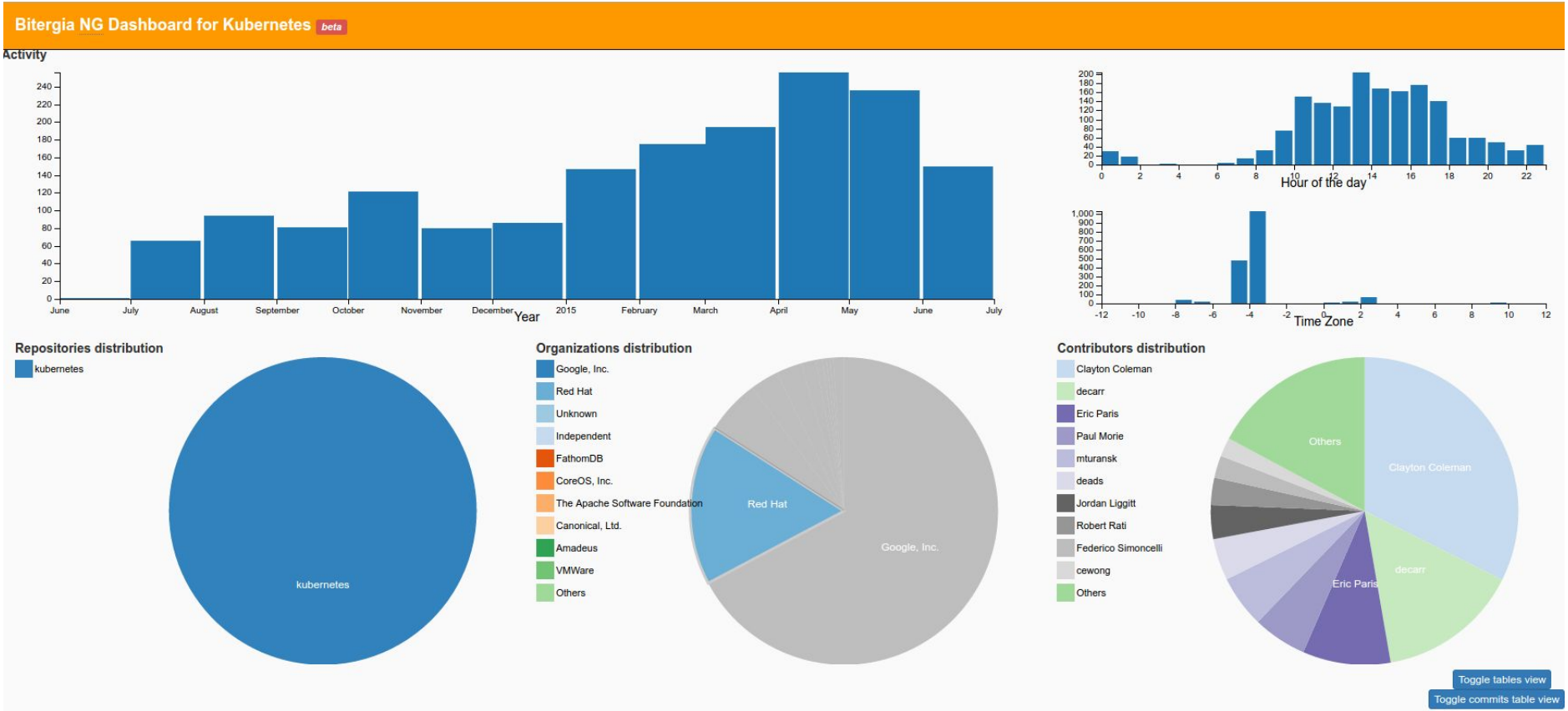
redhat.

Contributors by Organization

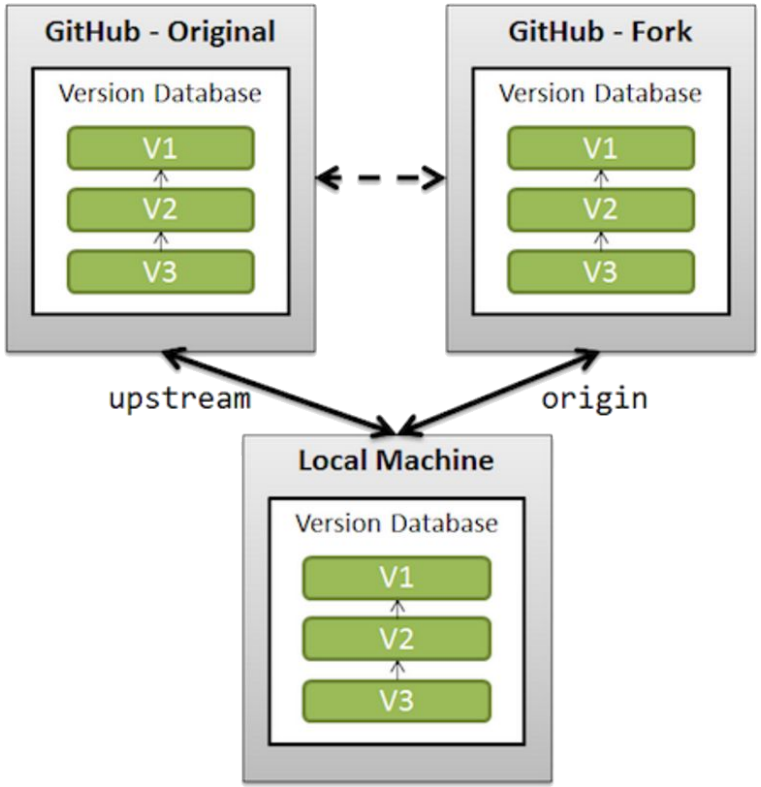


redhat.

Contributors by Organization (cont.)



GitHub Fork vs. Clone vs. Pull

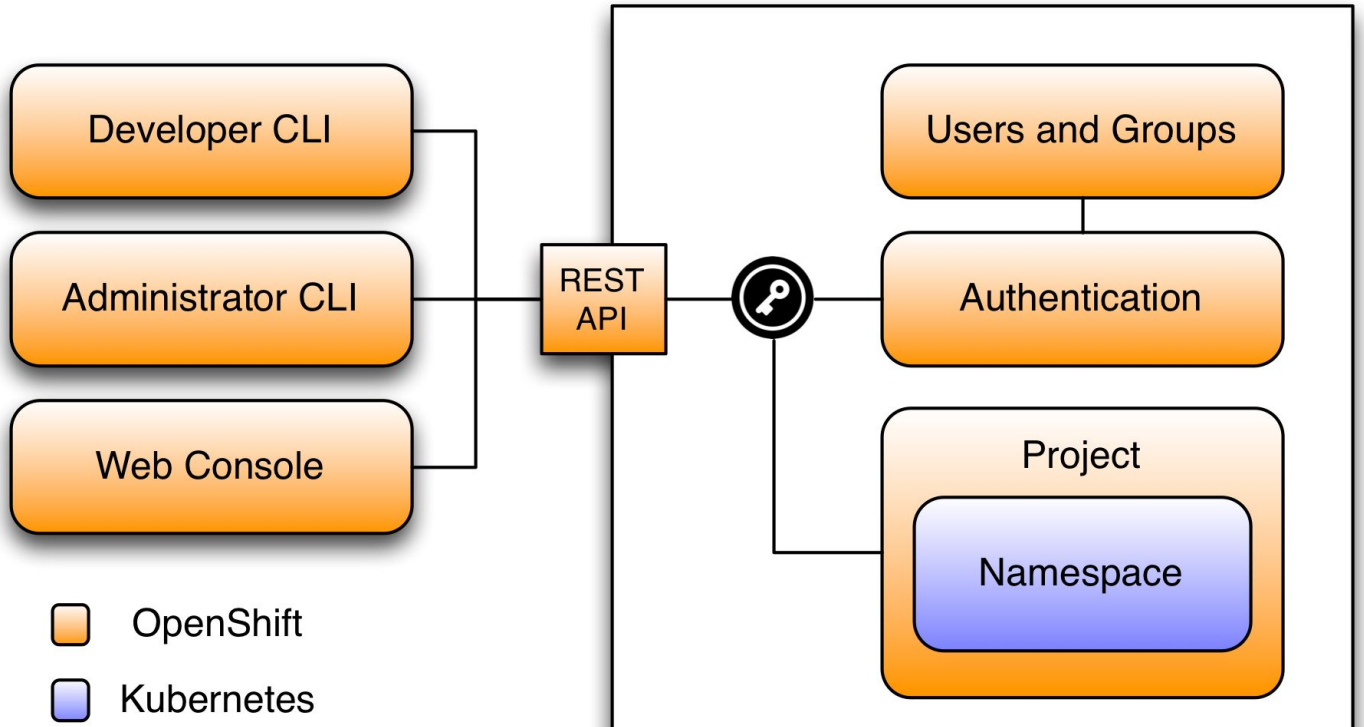


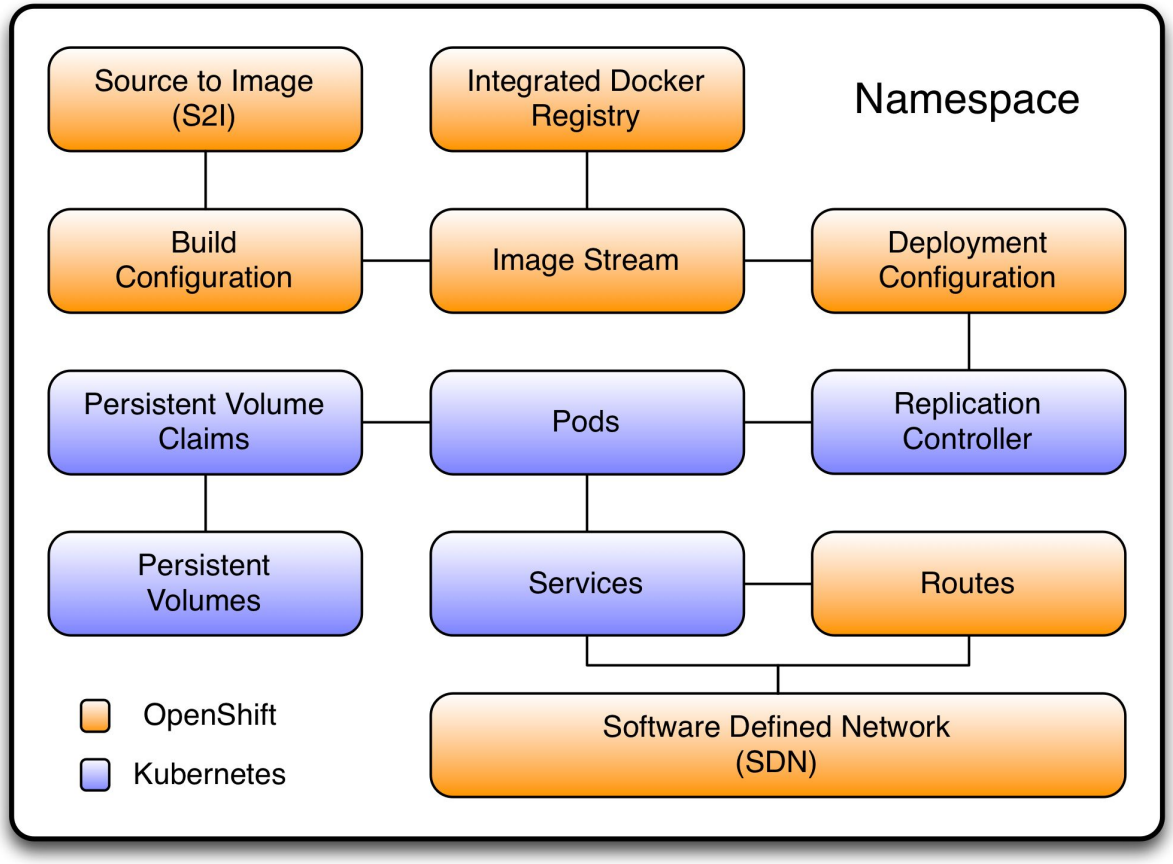
redhat.

Kubernetes Contributions from Red Hat/OpenShift

- Significant contributions to the API Server
- Jobs
- Secrets
- Config maps
- Pod security policy
- Service accounts
- Graceful deletion of pods
- Pod active deadline, lifecycle hooks
- Evicting pods when nodes get low on resources
- Persistent volume framework
- Ceph volume plugin
- Gluster volume plugin

- Contributed heavily to Deployments
- Helped design Ingress
- kubectl create
- kubectl edit
- kubectl exec
- kubectl port-forward
- A lot of kubectl infrastructure
- Node stability
- Authorization and authentication framework in Kubernetes, most of the core code
- Quota and Limits


Developer CLI
Administrator CLI
Web Console
REST API
Users and Groups
Authentication
Project
Namespace
OpenShift
Kubernetes


Source to Image (S2I)
Integrated Docker Registry
Namespace
Build Configuration
Image Stream
Deployment Configuration
Persistent Volume Claims
Pods
Replication Controller
Persistent Volumes
Services
Routes
OpenShift
Kubernetes
Software Defined Network (SDN)

redhat.

Thank You!

plus.google.com/+RedHat

facebook.com/redhatinc

linkedin.com/company/red-hat

twitter.com/RedHatNews

youtube.com/user/RedHatVideos