Convergence of Communities:
The Connected Community Model

OKD = f(Kubernetes++)

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The Art Of Community Management
The Science Of Community Management
The Science Of Community Development
Agenda

- Origin to OKD - how the Project Shifted
  - OKD = f(Kubernetes++)
- Reality Check
  - A Short History Lesson
- Dynamic Community Personas
- Adapting the Model and the Tools
  - OpenShift Commons Model
OPEN SOURCE IS THE SOURCE
OF TECHNOLOGICAL INNOVATION

1M+ projects

Linux® kernel

KVM

Fedora

OpenStack®

KVM

GNOME

Apache Project

Kubernetes

OpenJDK

Hyperledger

node.js

TensorFlow

OpenShift Origin

96M* REPOSITORIES
31M* DEVELOPERS
2.1M* BUSINESSES

*GitHub Oct 2018
OPEN SOURCE
OPEN COMMUNITIES
OPEN COLLABORATION

making connections that drive continuous innovation
OKD = f(Kubernetes++)
The Origin Community Distribution of Kubernetes that powers Red Hat OpenShift.

Built around a core of OCI container packaging and Kubernetes container cluster management, OKD is also augmented by application lifecycle management functionality and DevOps tooling. OKD provides a complete open source container application platform.

Try Out The Latest OKD Release

$ oc cluster up

GET STARTED  DOWNLOAD OC
OKD: The Origin Community Distribution of Kubernetes

OKD is the Origin community distribution of Kubernetes optimized for continuous application development and multi-tenant deployment. OKD adds developer and operations-centric tools on top of Kubernetes to enable rapid application development, easy deployment and scaling, and long-term lifecycle maintenance for small and large teams. OKD is also referred to as Origin in github and in the documentation.

- Installing router ... OK
- Importing image streams ... OK
- Importing Templates ... OK
- Login to server ... OK
- Creating initial project "myproject" ... OK
- Server Information ...
  OpenShift server started.
The server is accessible via web console at:
https://10.1.2.2:8443

You are logged in as:
  User: developer
  Password: developer

To login as administrator:
  oc login -u system:admin

oc new-project example
Now using project "example" on server "https://10.1.2.2:8443".

You can add applications to this project with the 'new-app' command. For example, try:
  oc new-app centos/ruby-22-centos7https://github.com/openshift/ruby-ex.git
  to build a new example application in Ruby.

Features:

https://github.com/openshift/origin
This slide is General Distribution/customer facing
OKD’s Open Source #RealityCheck

Contributions still dominated by Red Hat

70+ Contributing External Organizations

- Red Hat
- Google, Inc.
- Microsoft
- IBM
- VSH/HERAG
- Amadeus
- Cisco
- Canonical, Ltd.
- TOSCA
- ZTE Corporation
- Atlassian
- Independent
- Aditya
- CERN
- Google
- Cloudmark
- Converged
- Group Cloud
- Ticketly
- Novell
- CoreOS Inc.
- Gruppo WP
- Node.js
- Rackspace
- Booking.com
- Newspaper
- Huawei
- NTT
- SourceCloud Ltd
- Tisco
- University of Michigan
- Panasonic
- Fiber
- IP Australia
- Nuage Networks
- Samsung
- Schaeffer Technology...
Research Dataset

git

openstack

OPENSHIFT

Bitergia
Tooling

https://chaoss.github.io/grimoirelab/
Chart Details Example

- Dots are contributors
- Blue Rectangles are projects or repositories
- Dot size = # repos
- Edge thick = # commits
- Coloured dots are organizations

Bitergia
OKD Personas

okd.io
Project Lead Persona: SmarterClayton

How he shows up: Kubernetes, OKD, Prometheus, Knative, Project Atomic, Solum (OpenStack)
Organizational Persona: CERN

How they show up: OKD, Kubernetes, OpenStack and more contributors
Organizational Persona: CERN
Individual Persona: Rackspace’s Greg Swift

How they show up: OKD, Kubernetes, OpenStack contributors plus Slack, Commons, and more
CNCF + OpenShift
Kubernetes + OpenShift + Jaeger
Kubernetes + OpenShift + Jaeger
Tangential Persona: Uber’s Yuri Shkuro

OKD Community Contribution: https://youtu.be/fjYAU3jayVo

How they show up: Jaeger, OpenTracing, Operators, M3DB contributors
Tangential Persona: Uber

OpenShift

Kubernetes

Jaeger, OpenTracing

LEGEND OF COLORS:
- Red Hat
- Uber
- Rackspace
- Chris Murphy
- Jaeger, OpenTracing
Tangential Persona: Uber
Operator Persona(s): Uber & M3DB

M3DB Operator

Project Status: Alpha

The M3DB Operator is a project dedicated to setting up M3DB on Kubernetes. It aims to automate everyday tasks around managing M3DB. Specifically, it aims to automate:

- Creating M3DB clusters
- Destroying M3DB clusters
- Expanding clusters (adding instances)
- Shrinking clusters (removing instances)
- Replacing failed instances

https://github.com/m3db/m3db-operator
Corporate Persona: Amadeus’ Lénaïc Huard

Amadeus Deploys OpenShift by Red Hat as Foundation for Cloud...
https://www.redhat.com/us/.../amadeus-deploys-openshift-red-hat-foundation-cloud-base...
Jun 24, 2015 - Strong interest in application containers and automation leads Amadeus to choose Red Hat’s cloud application platform offering. (NYSE: RHT), the world's leading provider of open source solutions, today announced that global travel technology provider Amadeus is building its own ...

Videos
- OCG Berlin 2017 - OpenShift at Amadeus
- Amadeus innovates customer service with OpenShift Enterprise by ...
- OpenShift Commons Briefing #76: Security Practices in OpenShift ...

How they show up: Kubernetes, OKD, OCP on Azure, OCP on OpenStack
Corporate Persona: Amadeus
Upstream Persona: Alipay’s Kim Min

How they show up: Kubernetes, OKD, Saltstack, Spinaker
Commons Model for Cross-Community Collaboration

New Community Model

- Commons Briefings & Gatherings
- SIGs
- Code Contributions
- Mailing Lists
- Slack

Promote Peer-to-Peer Interactions

https://commons.openshift.org/#join
Convergence of Conclusions

- No Company is Working on ‘Just One’ Thing
- Upstream Coordination is Essential
- Relationships Matter
- Domain knowledge
- Community Development vs. Community Management
- Data Matters (clean, curated data and good tools!)
- Anonymity is Dead

What’s Up Next? Predictive Analysis (perhaps using IBM Watson ;-)

IBM Watson
“Skate to where the puck is going, not where it has been.”