“OpenShift and DevOps: Lessons Learned”

RED HAT OPENSHIFT ANWENDERTAGUNG
FRANKFURT, GERMANY
SEPTEMBER 22, 2016

AGENDA

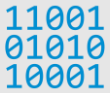
- About smartShift
- Background and Project Motivation
- The Solution
- Lessons Learned

ABOUT SMARTSHIFT

smartShift Technologies

GLOBAL LEADER IN AUTOMATED ENTERPRISE CUSTOM CODE TRANSFORMATIONS

- Global presence (US, Europe, Asia)
  - Headquartered in NYC



- 1 Billion+ lines of code migrated since 1993

- Automated transformation & modernization services portfolio

- Identified by Gartner as a “Cool vendor in the SAP Ecosystem”

Our customers include:

McKESSON

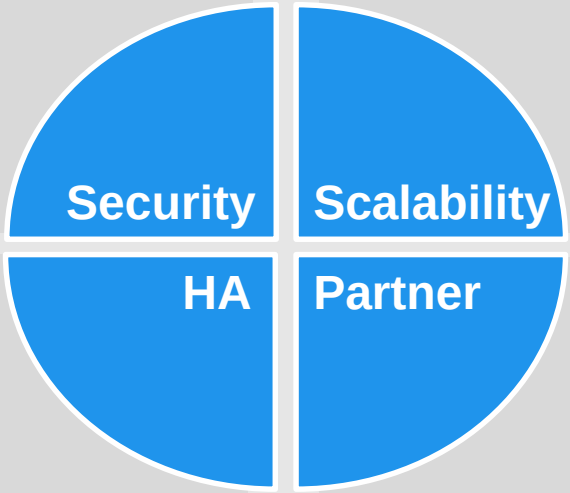
J.CREW

Kimberly-Clark

BACKGROUND & MOTIVATION

Drivers for the new Service Platform

- Improved Fraud Prevention
- Revision Security
- Information Security
- 24x7 Support



- Higher Flexibility
- Align to new requirements
- Customizing of GUIs

- Cluster capability

- More flexible rule set
- Opportunity of improved Reports
- High Acceptance

Project Structure

- Project begin in January 2016
- GoLive end of September 2016
- smartShift operates OpenShift
- Underlying/supporting infrastructure (RHEL, firewall, hardware) by third party

SOLUTION

Architecture and Rationale

DESIGN PRINCIPLES

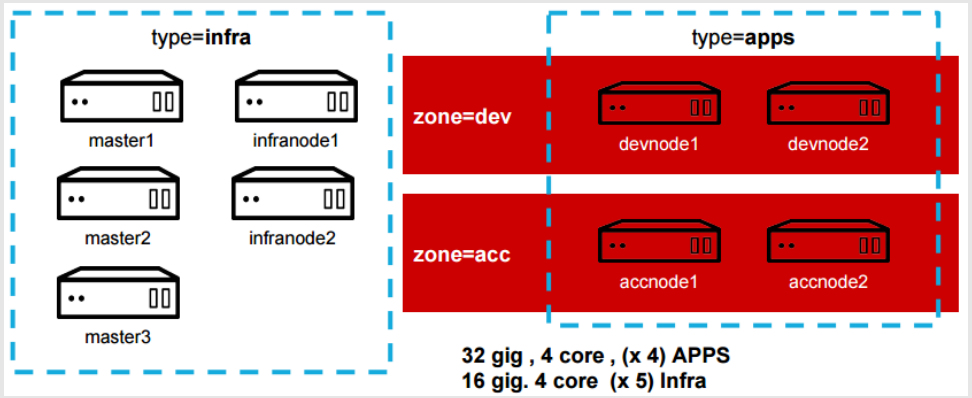
- MicroServices based architecture
  - ☺ Modularity
  - ☺ Independent scaling
  - ☺ Technology agnostic
  - ☺ Effective ownership
- Run independently in containers
- Deployment in private Platform as a Service (PaaS)

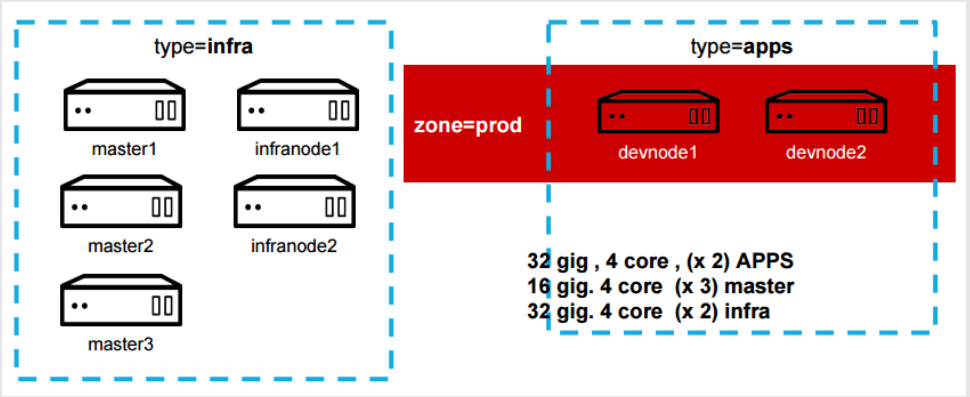
OpenShift

FEATURES AND ADVANTAGES

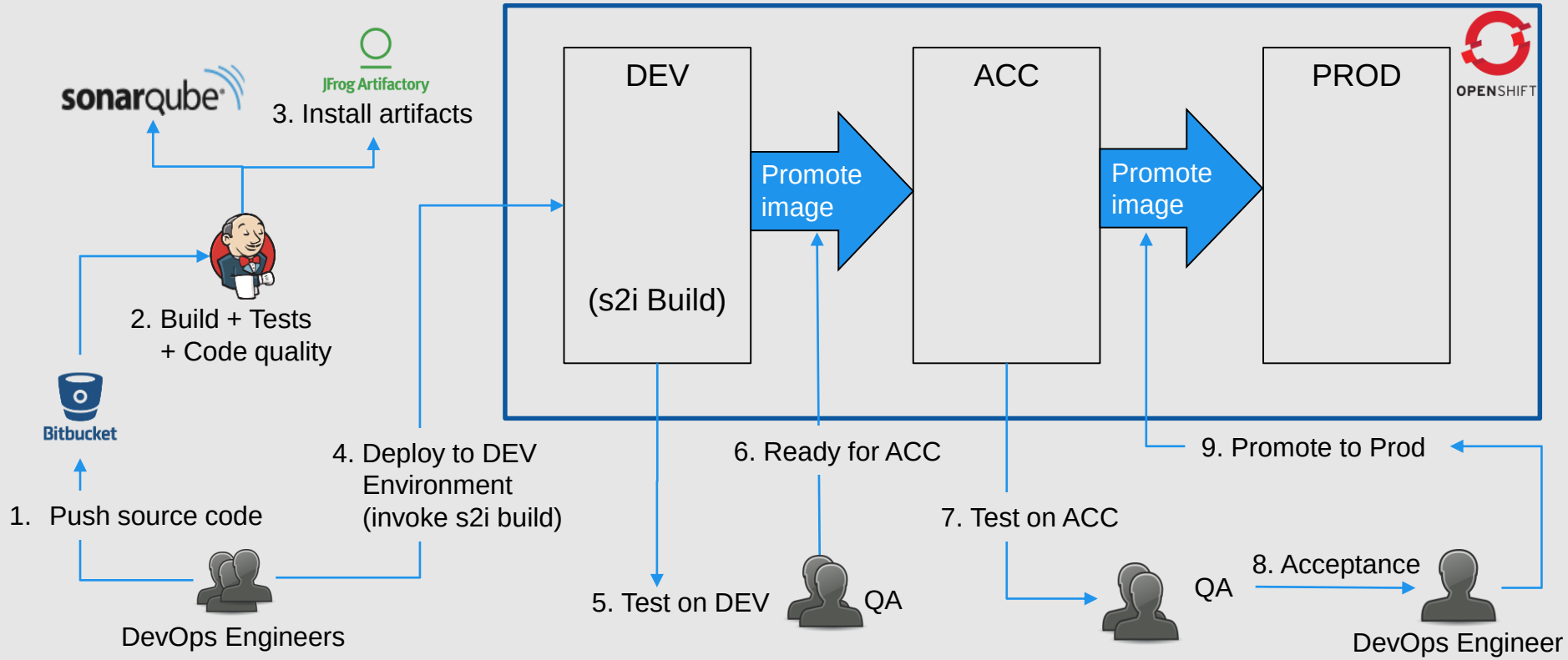
- Very good support structures
- Source2Image builds
- CI/CD pipelines
- Team / User tracking
- xPaaS Containers - Jboss Fuse Integration Service, ActiveMQ…
- Supported Base Images (RHEL)
- Support for libraries (eg. Apache Camel, CXF …)
- Logging and Metrics

Clusters





Development Process



LESSONS LEARNED

Lessons Learned

OPENSHIFT AND DEVOPS

- Rethinking release planning (fine granular releases vs. big bang milestones)
- Short feedback cycles vs. customer resources availability
- Red Hat consultants
- Think big

- Developers'/Ops team's mindset: need to do ops/understand dev
- Start with OpenShift integration from the beginning
- Always use RHEL images
- Know what is supported
- Isolate infra and app nodes

Q&A