OPENSHIFT MEETUP

ROMA

Application Lifecycle Management with OpenShift

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15 min

okd

RED HAT OPENSHIFT Container Platform

redhat.

CONFIGURATION AS CODE

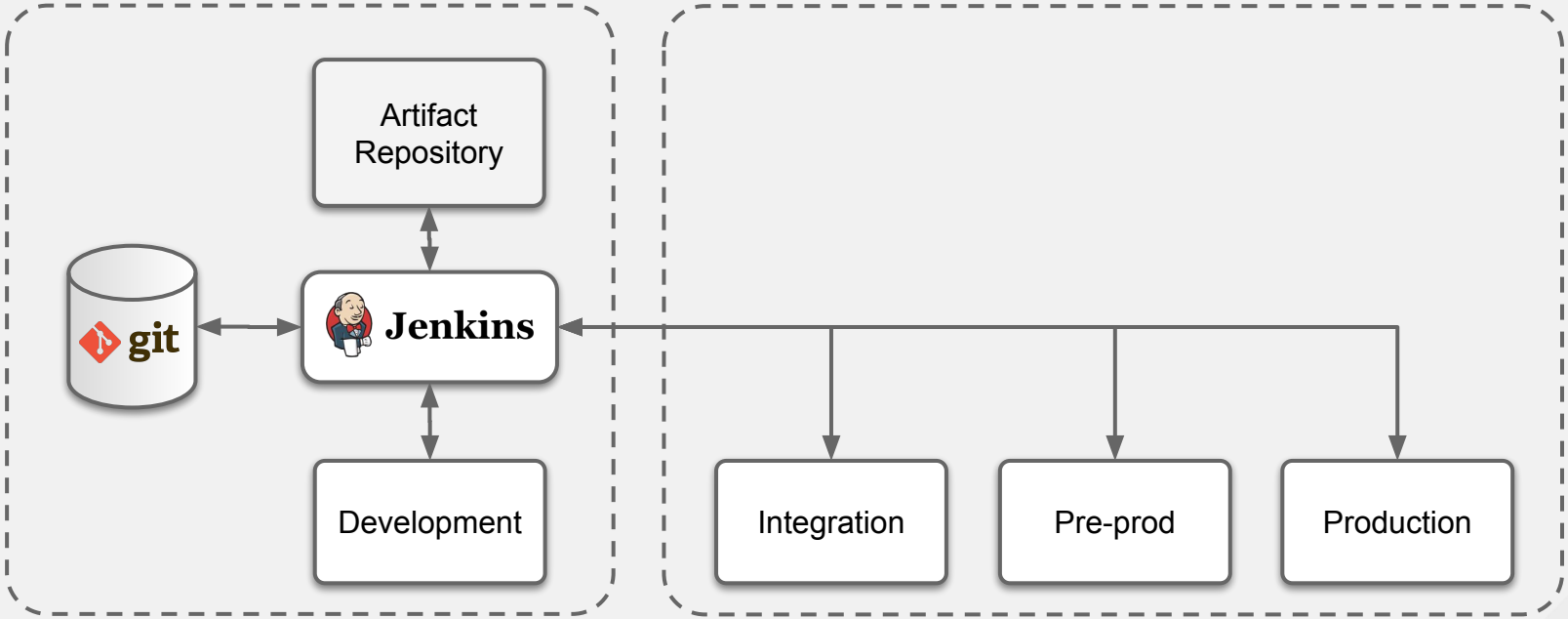
A core concept is that the container is agnostic with respect to configuration.

All the relevant configurations that point other services (3rd party service, Web service etc. etc.) and persistence services (eg, RDBMS) have to be provided as external configurations, and must not be baked into container.

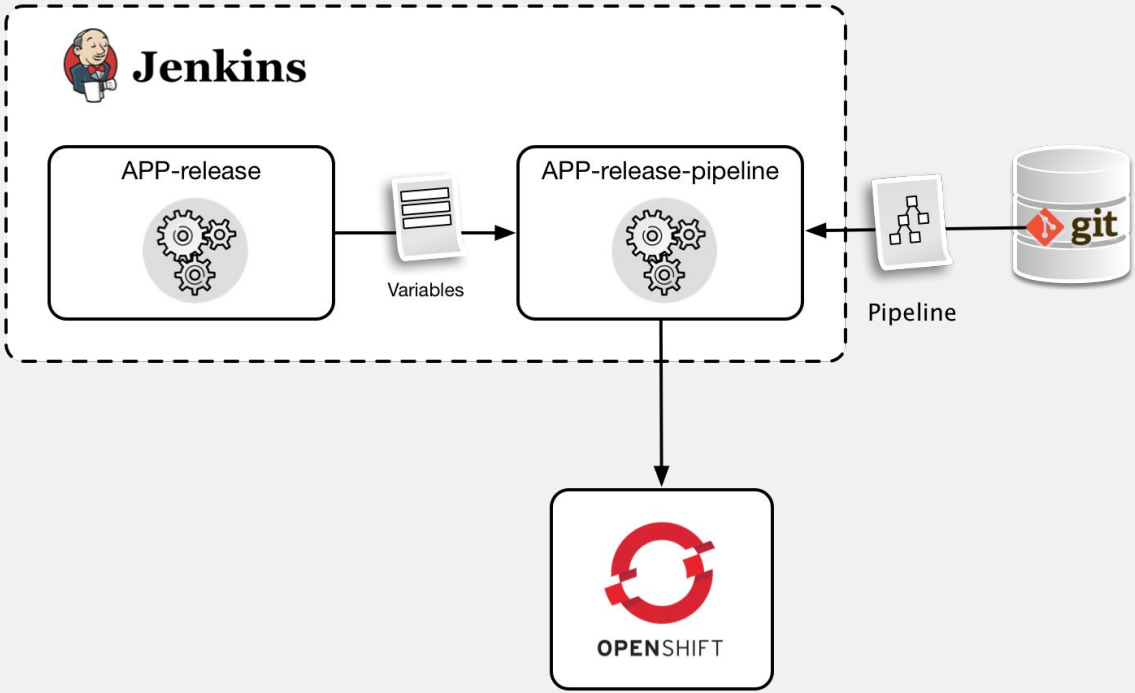
Every configuration, including the application deployment strategy and execution strategy should be managed through declarative config files and managed with automation processes.

This addresses the whole configuration management, and in the phase of definition will cover the security aspect of information segregation

Deal with environments

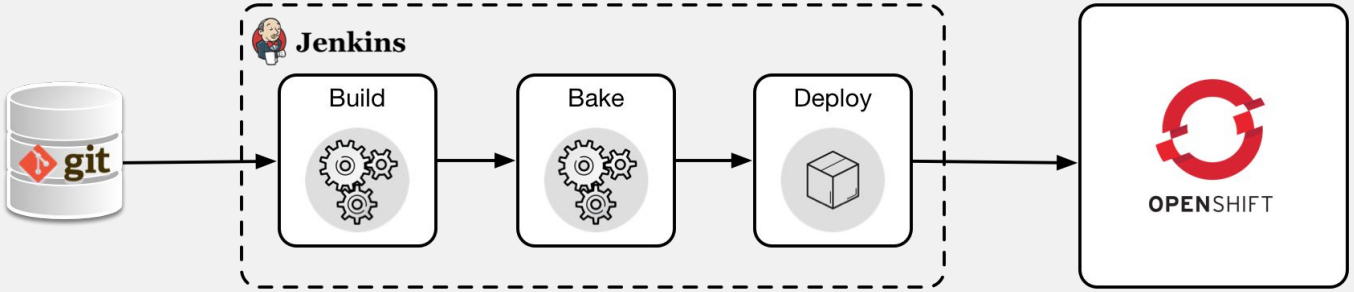


Jenkins Jobs

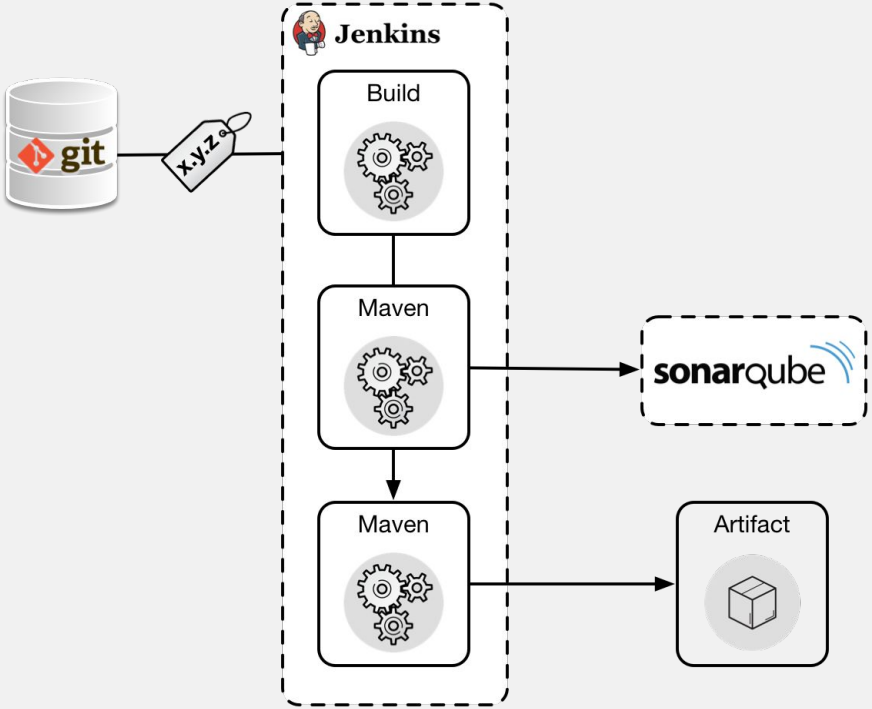


Release phases

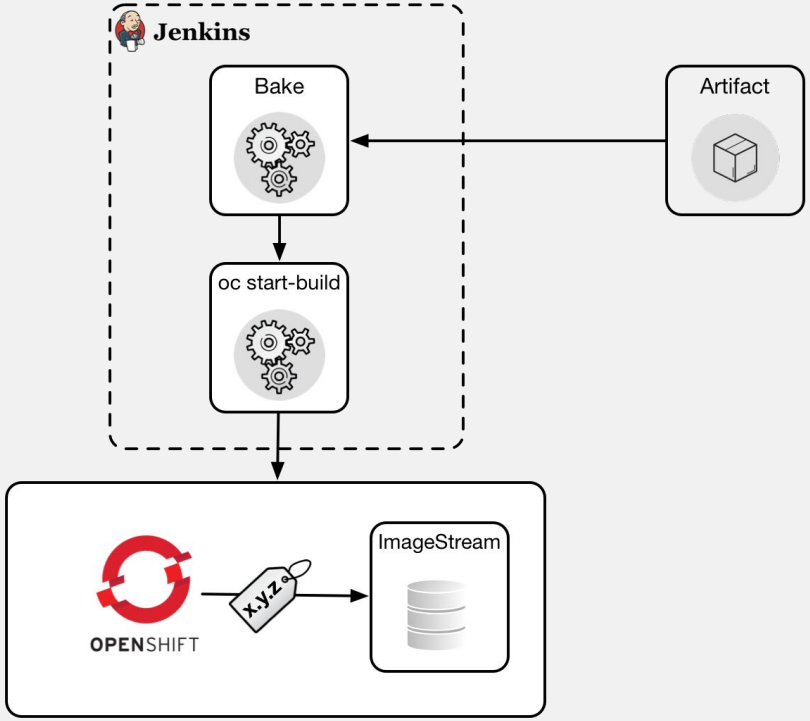
Phases



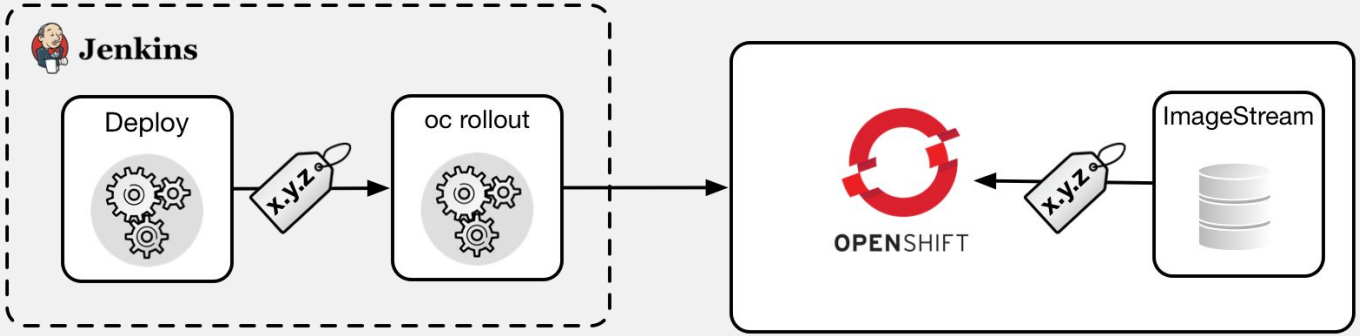
Phases: Build



Phases: Bake

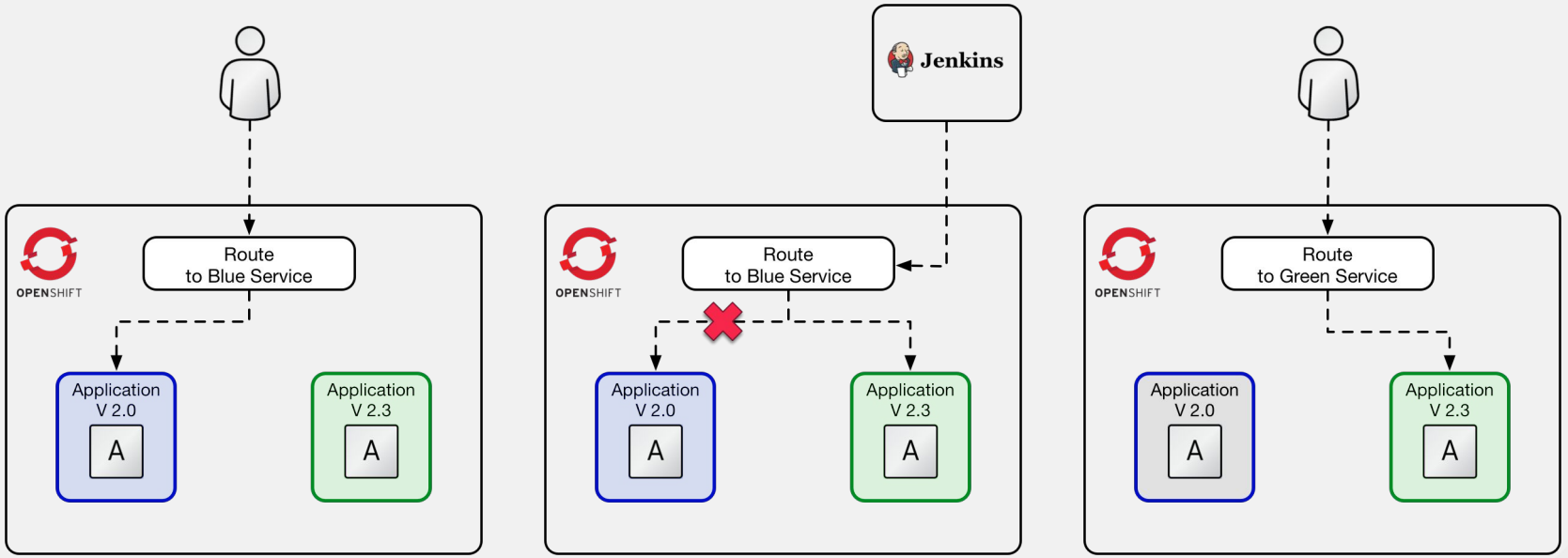

Jenkins
Bake
Artifact
oc start-build
OPENSHIFT
x.y.z
ImageStream

Phases: deploy



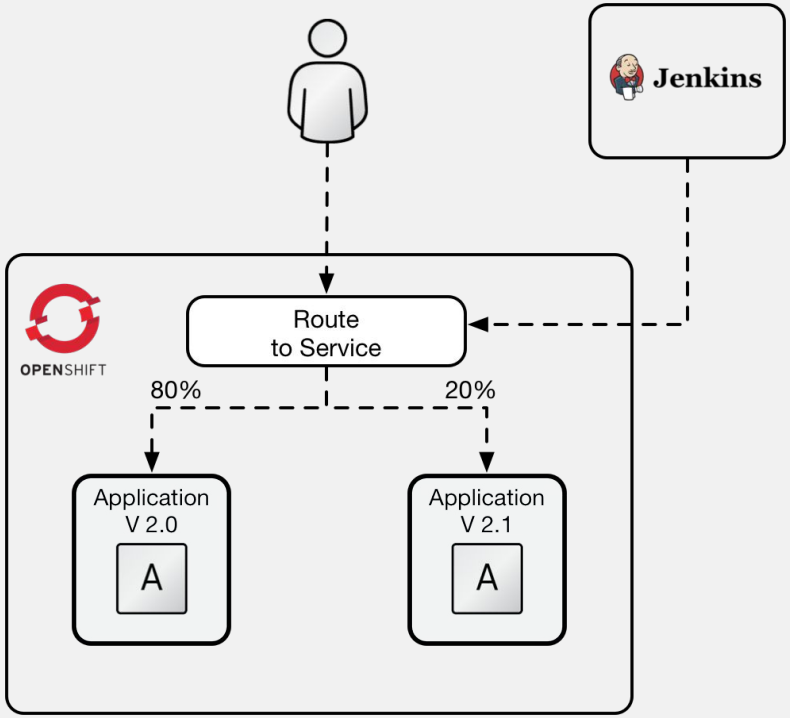
Rollout strategies

Rollout: Blue Green

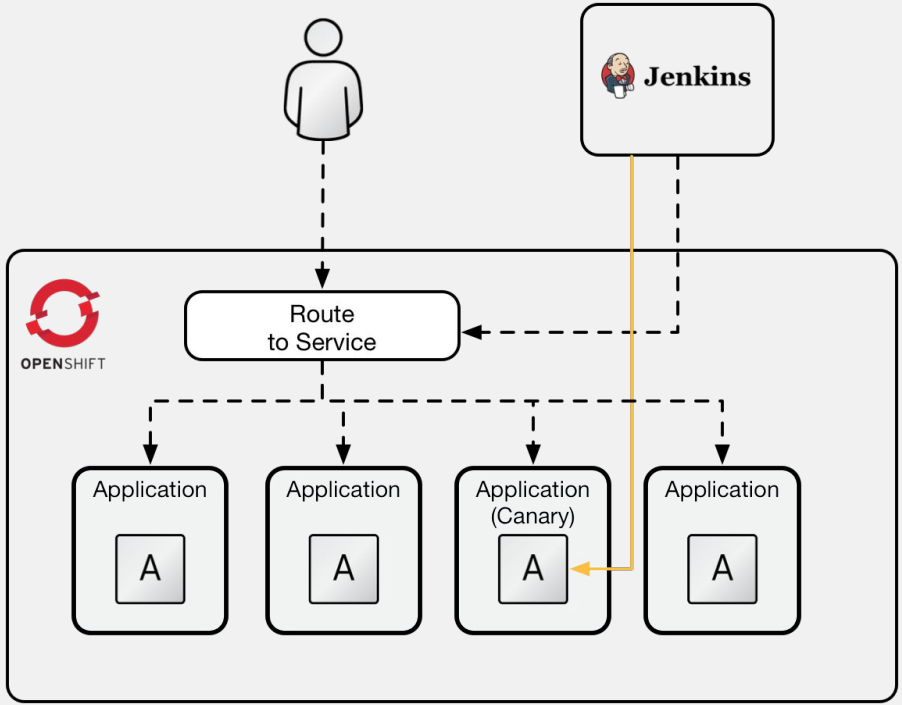


redhat.

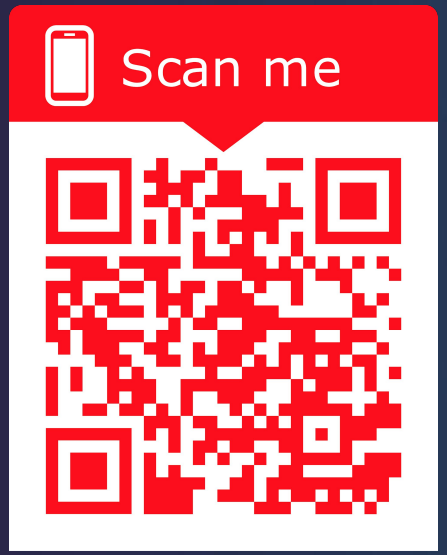
Rollout: A/B


Jenkins
OPENSHIFT
Route
to Service
80%
20%
Application
V 2.0
A
Application
V 2.1
A

Rollout: Canary



ALM demo



- Jenkins
  https://jenkins.io/
- Jenkins pipelines
  https://jenkins.io/doc/book/pipeline/
- SonarQube
  https://www.sonarqube.org/
- Red Hat Container Catalog
  https://access.redhat.com/containers