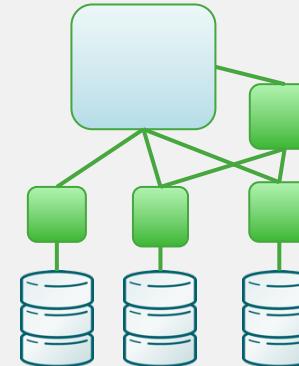
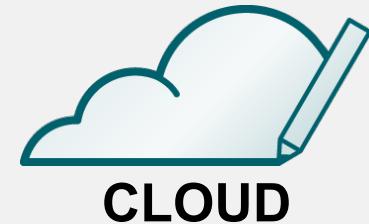
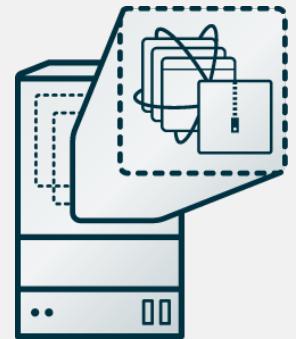
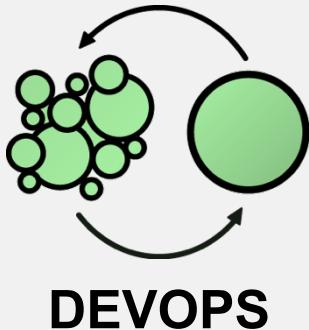
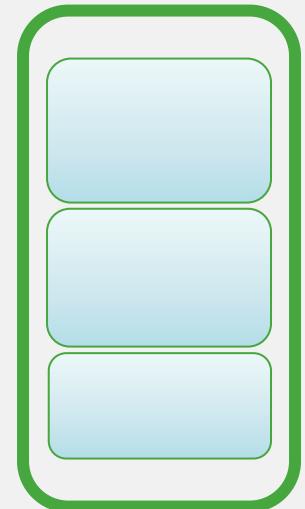




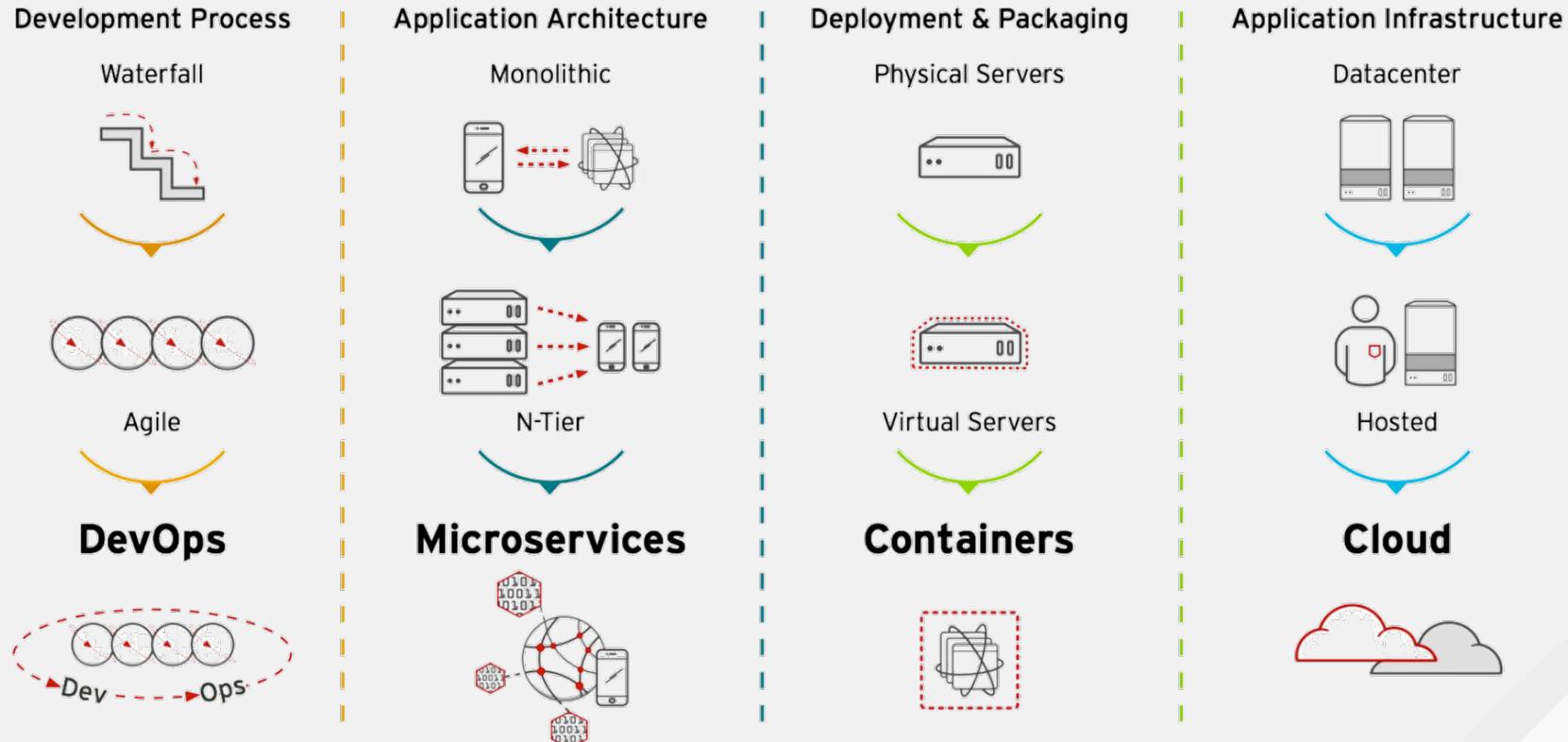
JENKINS @ RED HAT

James Falkner
Senior Principal Technical Marketing Manager
Middleware Marketing – Technical, Global

IT IS STRUGGLING TO EVOLVE



IT'S ABOUT MORE THAN CONTAINERS



DEVOPS @ RED HAT



OPEN SOURCE CULTURE



AUTOMATE TO ACCELERATE

ANSIBLE
by Red Hat®

ANSIBLE TOWER
by Red Hat®



DEVOPS NATIVE PLATFORMS

RED HAT® JBOSS® MIDDLEWARE





redhat®



Jenkins

JENKINS PLUGINS: WILDFLY / JBOSS EAP

Source Code Management

- None
 - [Create OpenShift Resource\(s\)](#)
 - [Delete OpenShift Resource\(s\) by Key](#)
 - [Delete OpenShift Resource\(s\) from JSON/YAML](#)
 - [Delete OpenShift Resource\(s\) using Labels](#)
 - [Deploy WAR/EAR to WildFly](#)**
 - [Execute Windows batch command](#)
 - [Execute shell](#)
 - [Invoke Ant](#)
 - [Invoke top-level Maven targets](#)
 - [OpenShift: Delete Application](#)
 - [OpenShift: Deploy Application](#)
 - [Scale OpenShift Deployment](#)
 - [Set build status to "pending" on GitHub commit](#)
 - [Tag OpenShift Image](#)
 - [Trigger OpenShift Build](#)
 - [Trigger OpenShift Deployment](#)
 - [Verify OpenShift Build](#)
 - [Verify OpenShift Deployment](#)
 - [Verify OpenShift Service](#)
- [Add build step ▾](#)



Build

Deploy WAR/EAR to WildFly

WAR/EAR files	<input type="text" value="target/my-service-1.0.SNAPSHOT.war"/>	?
Hostname	<input type="text" value="localhost"/>	?
Port	<input type="text" value="9990"/>	?
User Name	<input type="text" value="sa"/>	?
Password	<input type="text" value="*****"/>	?
Server Group	<input type="text" value="backend-servers"/>	?

Delete

JENKINS PLUGINS: ANSIBLE



Build

Invoke Ansible Playbook
Playbook path: \${WORKSPACE}/playbook.yml

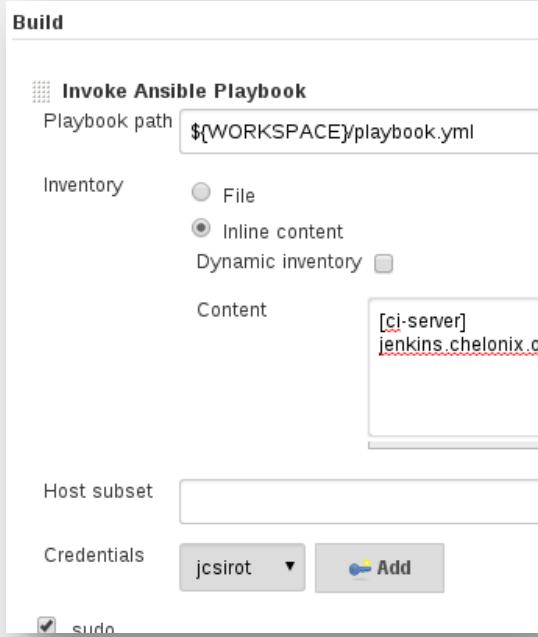
Inventory
 File
 Inline content
Dynamic inventory

Content
[ci-server]
jenkins chelonix or

Host subset

Credentials

sudo

A screenshot of the Jenkins 'Build' configuration page for an Ansible plugin. It shows the 'Invoke Ansible Playbook' section with a playbook path of \${WORKSPACE}/playbook.yml. Under 'Inventory', 'Inline content' is selected, showing a dynamic inventory configuration. The 'Content' section displays a snippet of YAML code for a host group named [ci-server]. Below it, there's a 'Host subset' input field and a 'Credentials' dropdown set to 'jcsirot' with an 'Add' button. A 'sudo' checkbox is also present.

```
node {  
    ansiblePlaybook(  
        playbook: 'path/to/playbook.yml',  
        inventory: 'path/to/inventory.ini',  
        credentialsId: 'jcsirot',  
        extras: '-e parameter="some value"'  
    )  
}
```

JENKINS PLUGINS: KUBERNETES

Kubernetes

Name: My Kubernetes cluster

Kubernetes URL: https://kubernetes.default.svc.cluster.local

Kubernetes server certificate key:

Disable https certificate check:

Kubernetes Namespace: kubernetes-plugin

Credentials: 598980c4-2090-4ce2-bc18-5f57432669c9 (My Kubernetes cluster)

Jenkins URL: http://10.175.249.78

Jenkins tunnel:

Connection Timeout: 5

Read Timeout: 15

Container Cap: 10

Images

Kubernetes Pod Template

Name: jnlp slave

Labels:

Docker image: jenkinsci/jnlp-slave

Jenkins slave root directory: /home/jenkins

Command to run slave agent:

Arguments to pass to the command:

Max number of instances:



- Dynamically deploys Jenkins slaves to Kubernetes cluster
- Automatic setup/teardown
- Supports k8s service accounts, k8s API, OpenShift OAuth token credentials
- Customizable slave pod templates

JENKINS PLUGINS: OPENSIFT

OpenShift Jenkins Sync

Enabled Check if we should sync OpenShift builds with Jenkins jobs

Server

Namespace ci
The namespace to sync BuildConfigs with - leave blank to sync with all namespaces. Environment variables in the form will be expanded.

Build

Trigger OpenShift Build URL of the OpenShift api endpoint https://openshift.redhat.com:8443/oapi/v1

The name of the BuildConfig to trigger pricing-service

The name of the project the BuildConfig is stored in staging

The authorization token for interacting with OpenShift dIAo76N-W-GXK3S_w_KsC6DmH3MzP

Specify the commit hash the build should be run from

Allow for verbose logging during this build step plug-in Yes No

Specify the name of a build which should be re-run

Build wait time 60000

Pipe the build logs from OpenShift to the Jenkins console Yes No

Verify whether any deployments triggered by this build's output fired Yes No

Delete



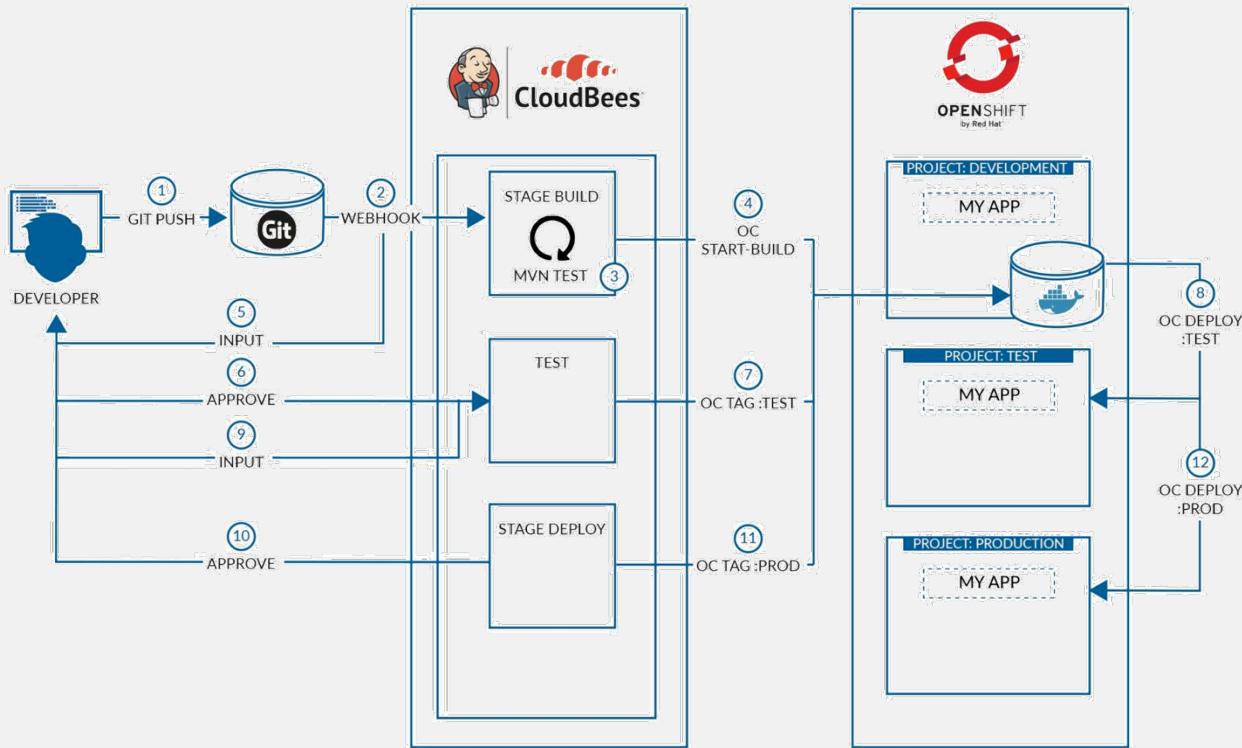
OpenShift Sync Plugin

- Syncs OpenShift Builds <-> Jenkins Jobs

OpenShift Pipeline Plugin

- Provides Build Steps, Pipeline DSL
- ImageStreams-as-SCM
- Build promotion via tagging

JENKINS WITH OPENSOURCE



Provides

- Official S2I Images
- Label-based slave deployment
- Sample Pipelines
- red.ht/2bXNbQJ

Use Cases

- Elastic runtime for Jenkins
- Deployment target for Jenkins



Overview



Applications >



Builds >



Resources >



Storage



Monitoring

MOBILEPAYMENTS

pipeline



Build #6

a minute ago

[Jenkins Build](#) | [View Log](#)

Validate PR

6s

Build

1m 1s

<http://mobilepayments-incubator-project.54.197.214.19.xip.io>

Service: mobilepayments

Deployment: mobilepayments

an hour ago

#12



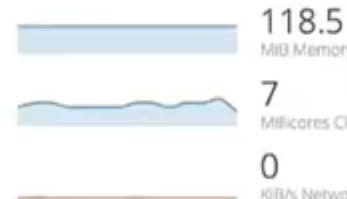
Autoscaled: min: 1, max: 4

Service: mongodb

Deployment: mongodb

3 hours ago

#1

<https://jenkins-incubator-project.54.197.214.19.xip.io>

OPENShift 3.3 PIPELINES red.ht/2cIAifi

fabric8-console X James

fabric8.vagrant.t8/workspaces/default/projects/awesome

fabric8 Teams default Apps awesome Dashboard

Environments

Testing Staging Production

awesome : 1.0.1 Build #1 P 1945c04 Docs

awesome : 1.0.1 Build #1 P 1945c04 Docs

Active Pipelines View All Pipelines >

Build #2 Started 2 seconds ago

Logs View Full Log

```
Checking out Revision 378f7b6ba017b7bc84ae15a8cd6025cf78d9fc6 (refs/remotes/origin/master)
[Pipeline] node
Started by user anonymous
Fetching changes from the remote Git repository
Checking out Revision 378f7b6ba017b7bc84ae15a8cd6025cf78d9fc6 (refs/remotes/origin/master)
[Pipeline] node
Running on 2c41ea9e85 in /home/jenkins/workspace/workspace/awesome
[Pipeline] {
[Pipeline] git
Fetching changes from the remote Git repository
Checking out Revision 378f7b6ba017b7bc84ae15a8cd6025cf78d9fc6 (refs/remotes/origin/master)
```

JENKINS WITH FABRIC8
“OPINIONATED OPEN SOURCE MICROSERVICES PLATFORM
BASED ON DOCKER, KUBERNETES AND JENKINS”
fabric8.io

Commits View All Commits >

Updated page src/main/java/org/example/Controller.java
gogsadmin committed 378f7b6

devops-edit --copyPipelineToProject=true --pipeline=workflows/maven/CanaryReleaseStageAndApprovePromote/jenkinsfile 1945c04

fabric8.vagrant.t8/workspaces/default/projects/awesome

JENKINS WITH ANSIBLE TOWER



**ANSIBLE
TOWER**
by Red Hat®



Jenkins

MARK YOUR CALENDARS



DEVOPS NATIVE (BoF)

DAVID CODELLI, RED HAT

WEDNESDAY 5:00pm EXHIBIT HALL A-2



CI/CD WITH JENKINS AND ANSIBLE TOWER

DYLAN SILVA, RED HAT

THURSDAY 1:30pm EXHIBIT HALL A-3



HOW TO DO CONTINUOUS DELIVERY WITH JENKINS PIPELINE, DOCKER AND KUBERNETES

JAMES STRACHAN, RED HAT

THURSDAY 2:30PM GREAT AMERICA J





redhat.

THANK YOU



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