

Bamboo에서 Openshift 배포하기

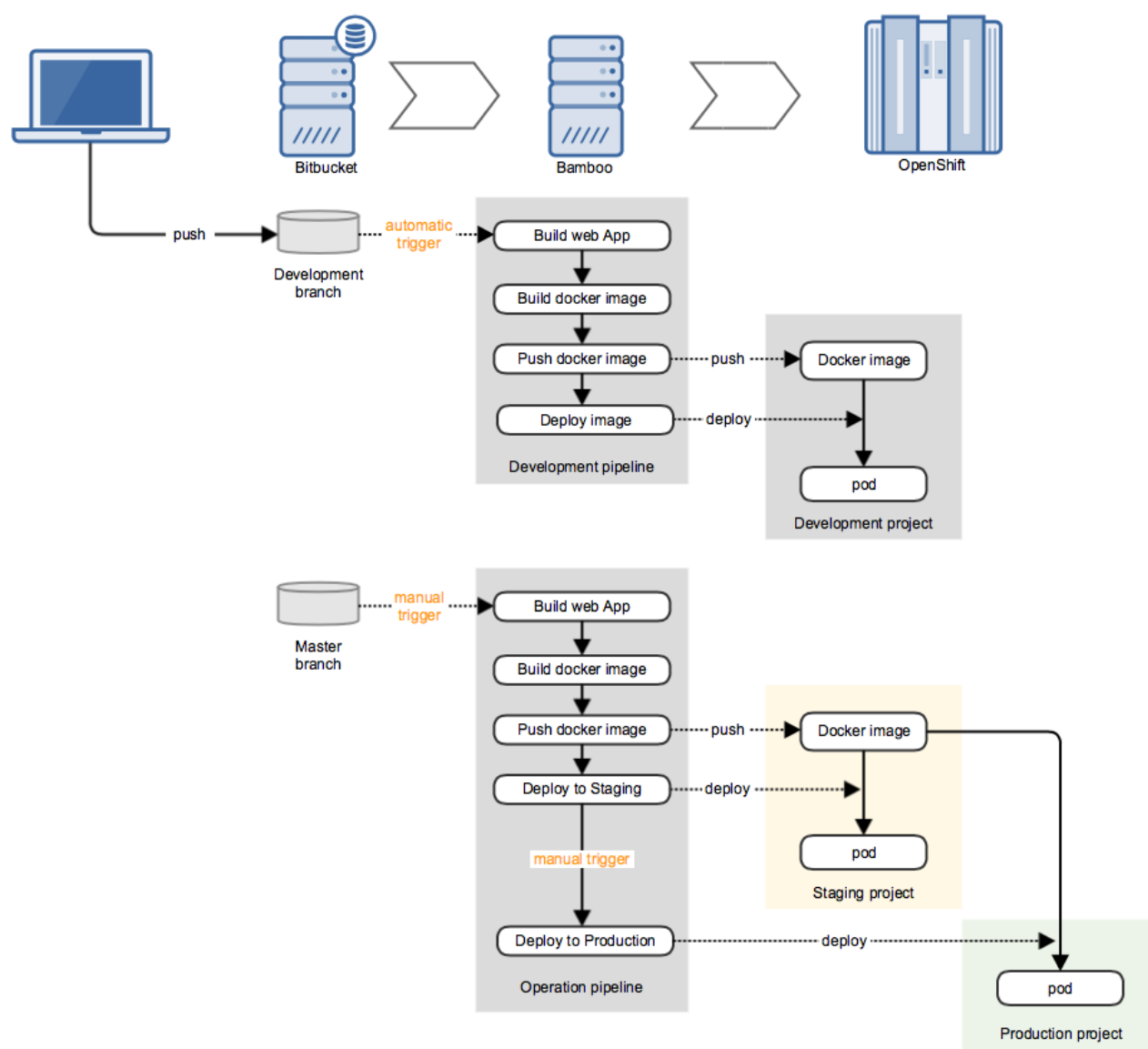
이 문서는 Bamboo에서 Openshift 배포에 대한 예제를 공유하기 위해 작성되었다.

- [개요](#)
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 - [Staging and production build pipeline](#)
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개요

OpenShift 자체적으로 제공되는 Jenkins pipeline과 대비되는 외부의 Bamboo pipeline 구성은 소스코드 개발 및 빌드 그리고 테스트 절차 구성의 자유도가 있다는 장점이 있다.

구성 예



파이프 라인 구성

Staging and production build pipeline

Master branch를 기준으로 스테이징 서버 배포와 운영서버 배포를 위한 pipeline

- Build App: 소스코드 빌드
- Build and push docker image: docker 이미지 생성 및 개발 스테이징 환경에 등록
- Deploy to staging: 등록된 docker 이미지를 스테이징 서버에 배포

Plan details	Stages	Repositories	Triggers	Branches	Dependencies	Permissions	Notifications	Variables	Miscellaneous	Audit log
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Plan contents

Create stage

Each stage within a plan represents a step within your build process. A stage may contain one or more jobs which Bamboo can execute in parallel. For example, you might have a stage for compilation jobs, followed by one or more stages for various testing jobs, followed by a stage for deployment jobs.

Build App

- Build Job [Disable](#) | [Delete](#)
- + Add job

↓

Build and push docker image

- Build and push docker image [Disable](#) | [Delete](#)
- + Add job

↓

Deploy to production

- Deploy docker image to pod [Disable](#) | [Delete](#)
- + Add job

Build App stage

다음 Stage에서 필요한 artifaction 정의 및 공유

- Dockerfile
- 앱

Plan Configuration

Stages & jobs
4

Build App

- Build Job
- Build and push docker image
- Build and push docker image
- Deploy to staging
 - Deploy docker image to staging server
- Deploy to production
 - Deploy docker image to production server

Branches
0

Create plan branch

Job details
Tasks
Requirements
Artifacts
Miscellaneous

Tasks

A task is a piece of work that is being executed as part of the build. The execution of a script, a shell command, an Ant Task or a Maven goal are only few examples of Tasks. [Learn more about tasks.](#)

You can use [runtime](#), [plan](#) and [global variables](#) to parameterize your tasks.

1 agent has the [capabilities](#) to run this job

Source Code Checkout
Checkout Default Repository

Script
Build script

Final tasks Are always executed even if a previous task fails

Drag tasks here to make them final

Add task

No task selected

Select a task from the list on the left to configure it.

Build and push docker image stage

이전 단계에서 공유된 artifact를 다운로드하여 Docker image 생성하고 OpenShift 스테이징 프로젝트에 등록

Plan Configuration

Stages & jobs 4

Build App

Build Job
Build and push docker image

Build and push docker image
Deploy to staging

Deploy docker image to staging server
Deploy to production 11

Deploy docker image to production server
Branches 0

Create plan branch

Job details Tasks Requirements Artifacts Miscellaneous

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Artifact download
Download docker sources
Script
Change artifact name
Docker
Build docker image
Script
Push docker image
Final tasks Are always executed even if a previous task fails

Drag tasks here to make them final
Add task

Docker configuration

Task description

☐ Disable this task

Command

The Docker command to execute

Repository*

Repository name (and optionally a tag) to be applied to the resulting image (e.g. 'registry.address:port/namespace/repository:tag')

Dockerfile

☒ Use an existing Dockerfile located in the task's working directory

☐ Specify the Dockerfile contents

☐ Do not use cache when building the image

☐ Save the image as a file

Deploy to stage server stage

OpenShift registry에 등록된 docker image를 스테이징 서버에 배포

Plan Configuration

Stages & jobs 4

Build App

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Build and push docker image
Deploy to staging

Deploy docker image to staging server
Deploy to production 11

Deploy docker image to production server
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Create plan branch

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Script
Deployment task
Final tasks Are always executed even if a previous task fails

Drag tasks here to make them final
Add task

Script configuration

Task description

☐ Disable this task

Interpreter

An interpreter is chosen based on the shebang line of your script.

Script location

Script body*

```

1 #!/bin/bash
2
3 oc login -u=curvc -p=[REDACTED] --server=https://openshift.curvc.com:8
4 docker login -u curvc -p $(oc whoami -t) registry.openshift.curvc.com
5
6 oc project spring-boot
7
8 oc rollout latest dc/spring-boot -n spring-boot
9

```

Deploy to stage production stage

OpenShift registry에 등록된 docker image를 운영 서버에 배포

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Plan Configuration
Stages & jobs 4
Build App
Build Job
Build and push docker image
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Deploy to staging
Deploy docker image to staging server
Deploy to production
Deploy docker image to production server
Branches 0
Create plan branch

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Script
Deployment task
Final tasks Are always executed even if a previous task fails
Drag tasks here to make them final
Add task

Script configuration

Task description

☐ Disable this task

Interpreter

Shell

An interpreter is chosen based on the shebang line of your script.

Script location

Inline

Script body*

```

1 #!/bin/bash
2
3 oc login -u=curvc -p=
4
5 docker login -u curvc -p $(oc whoami -t) registry.openshift.curvc.com
6
7 oc project spring-boot
8
9 oc rollout latest dc/spring-boot -n spring-boot

```

OpenShift 프로젝트 운영 화면

Project Spring Boot
Add to Project
CURVC Corp.

Name Filter by name
List by Application

Other Resources

DEPLOYMENT
spring-boot, #2

CONTAINER: DEFAULT-CONTAINER
Image: spring-boot-staging/spring-boot

280 MiB Memory
0 Cores CPU
0 KIB/s Network
Average Usage Last 15 Minutes

1 pod