


## 07. Bitbucket cloud pipeline

백도운

Exported on 10/17/2019

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 Bitbucket pipeline enable 및 build 과정 확인, 그리고 Deployment 소개

# 1 Pipeline 수행

이후 아래와 같이 Pipelines 메뉴로 이동하여 "Enable" 버튼을 클릭하여 기존 추가되어 있는 pipeline을 실행가능한 환경으로 변경합니다.

The screenshot shows the Bitbucket Pipelines interface. On the left is a sidebar with a search icon and a list of navigation items: Source, Commits, Branches, Pull requests, Pipelines (highlighted), Deployments, Downloads, and Settings. The main content area has a header 'Build, test and deploy with Pipelines' and a sub-header 'Fast CI/CD in the cloud, quick and easy to get going.' Below this, it states 'Your current plan includes 50 free minutes per month.' and provides links for Windows and Mac/iOS builds. A section titled 'Choose a language template' indicates that an existing 'bitbucket-pipelines.yml' file was found in the repository. Below this is a code editor for 'bitbucket-pipelines.yml' with the following content:


```
1 image: maven:3.6.2
2
3 pipelines:
4   default:
5     - step:
6       name: maven build
7       caches:
8         - maven
9       script: # Modify the commands below to build your repository.
10        - mvn -B verify # -B batch mode makes Maven less verbose
11       artifacts:
12         - target/**.war
13
14
```

At the bottom of the interface, there is a green checkmark icon and the text 'Your configuration looks good! Simply enable Pipelines to kick off your CI/CD pipeline.' followed by an 'Enable' button.


아래와 같이 pipeline이 설정됨을 확인할 수 있습니다.





When your pipeline starts up you'll see the details here.


 #1

Stop


 8af962f Initial Bitbucket Pipelines configuration


 master

 a few seconds ago




Pipeline




 maven build

Running





agilekoreaconf


- Source
- Commits
- Branches
- Pull requests
- Pipelines**
- Deployments
- Downloads
- Settings


 #1


Rerun


 8af962f Initial Bitbucket Pipelines configuration


 master

 50 sec

 a minute ago

 D

Pipeline

 maven build

1 tests passed • 50s

```
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/ja
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/ja
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/jav
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/coo
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/jav
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/ja
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/aop
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/or
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/or
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/aop
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/aop
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/or
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org
```



## 2 Deployment

배포는 "Deployments" 메뉴로 이동하여 진행합니다.

**Deployment tracking with Bitbucket**

Enable deployment tracking to view the status of your deployments and key information about every commit you deploy to your environments.

```

bitbucket-pipelines.yml EDITABLE
1 image: maven:3.6.2
2
3 pipelines:
4   default:
5     - step:
6       name: maven build
7       caches:
8         - maven
9       script: # Modify the commands below to build your repository.
10              - mvn -B verify # -B batch mode makes Maven less verbose
11      artifacts:
12        - target/**.war
13
14
  
```

**Google App Engine deploy**  
Deploy an application to Google App E...

**Heroku deploy**  
Deploy an application to Heroku.

**Opsgenie send alert**  
Send an alert to Opsgenie.

**Slack notify**  
Send a notification to Slack.

**Snyk scan**  
Find, fix and monitor known vulnerabili...

**SonarCloud scan**  
Detect bugs & vulnerabilities in your re...

[Explore more pipes](#)

**Check your deployment configuration**  
We didn't find the `deployment` keyword in your bitbucket-pipelines.yml file. [Learn more](#) [Commit file](#)

⚠ 현재 Deployment는 실습에서는 제외되어 있습니다.  
필요시 위 그림상에서 비활성화 되어 있는 "Commit file" 버튼을 Deployments 내 sample pipe를 선택하고 이를 참고하여 작성한 pipeline을 통해 배포되어 지도록 할수 있습니다.

아래와 같이 Public Cloud 부터 Physical Machine까지 다양한 방식의 Deploy를 사용할 수 있습니다.

**Rsync Deploy**  
v0.3.2

Copy files to a remote server using Rsync.

**SCP deploy**  
v0.3.4

Copy files to a remote server using SCP.

**Serverless deploy**  
v0.1.2

Deploy your Serverless framework application using AWS, Google Cloud Platform or Microsoft Azure providers

**SFTP deploy**  
v0.5.2

Copy files to a remote server using SFTP.

**Slack notify**  
v0.3.2

Send a notification to Slack.

**Snyk scan**  
v0.2.0

Find, fix and monitor known vulnerabilities in your app dependencies and docker image.

**SonarCloud Quality Gate check**  
v0.1.3

Check if your repository has passed the quality gate check

**SonarCloud scan**  
v1.0.1

Detect bugs &amp; vulnerabilities in your repository.

**Sonatype Nexus publisher**  
v0.0.1

Publishes Artifacts to Nexus Repository Manager

**SSH run**  
v0.2.2

Run a command or a script on your server