

# Bitbucket

# Continuous Integration

(2017 봄학기) 소프트웨어 개발의 원리 및 실제  
2017. 05.02 (화)

# Bitbucket의 Continuous Integration?

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- Continuous Integration?
  - Major한 수정이 일어날 때 테스트를 자동으로 수행하는 것
- BitBucket에서 CI : “Bitbucket Pipelines”
  - Push를 하거나 Pull Request가 일어날 때 자동으로 동작
  - Bitbucket이 자신이 제공하는 클라우드에서 테스트해줌
  - “어떤 환경에서, 어떤 bash 명령어를 실행할 것인가?”

akdal / bitbucket-ci-test

swppexample / dddd /

Atlassian, Inc. [US]

https://bitbucket.org/akdal/bitbucket-ci-test/addon/pipelines/home#!/

bitbucket-ci-test

Overview

Source

Commits

Branches

Pull requests

Pipelines

Downloads

Settings

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juneyoung lee / bitbuc...i-test

Pipelines

What's new

Help and feedback

All branches

OTHER BRANCHES

master

anotherbr

MAIN BRANCH

Pipeline	Status	Started	Duration
<div>Malicious edit</div> <div>juneyoung lee 61a9215 anotherbr</div>	Failed	11 hours ago	2 min 13 sec
<div>Merged in anotherbr (pull request #1) Add another branch</div> <div>juneyoung lee 44a0bb7 master</div>	Successful	11 hours ago	1 min 12 sec
<div>Add another branch</div> <div>juneyoung lee 7f69541 anotherbr</div>	Successful	11 hours ago	1 min 23 sec
<div>Update requirements.txt</div> <div>juneyoung lee 3eb0680 master</div>	Successful	11 hours ago	1 min 15 sec
<div>Update scripts</div> <div>juneyoung lee eeb7715 master</div>	Failed	11 hours ago	24 sec
<div>Test</div> <div>juneyoung lee a6cb155 master</div>	Failed	11 hours ago	18 sec
<div>bitbucket-pipelines.yml created online with Bitbucket</div> <div>juneyoung lee e10ef73 master</div>	Successful	12 hours ago	2 sec

akdal / bitbucket-ci-test x swppexample / dddd / x

Atlassian, Inc. [US] | https://bitbucket.org/akdal/bitbucket-ci-test/addon/pipelines/home#!/results/%7B11705df6-e745-4245-85b7-3b67f94b59ac%7D

bitbucket-ci-test

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- Give feedback
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juneyoung lee / bitbucket-ci-test / Pipelines

## Pipelines

**Failed** Rerun

2 min 13 sec • 11 hours ago

python:3.5.1

Push by juneyoung lee

[View configuration](#)

### Commit

- 61a9215  
Malicious edit
- anotherbr

### Logs

Build + Add service

- Build setup
- echo HI!
- cd debtpages
- pip install -r requirements.txt
- ./init.sh
- ./run.sh**

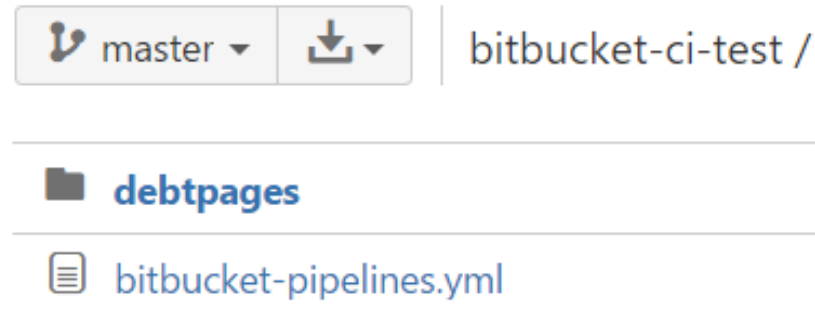
```
++ ./run.sh
Another branch!
[01/May/2017 20:23:39] "GET /users/ HTTP/1.1" 403 58
[01/May/2017 20:23:39] "GET /users/ HTTP/1.1" 403 39
[01/May/2017 20:23:39] "GET /users/ HTTP/1.1" 403 63
[01/May/2017 20:23:40] "GET /users/ HTTP/1.1" 403 63
[01/May/2017 20:23:40] "GET /users/ HTTP/1.1" 403 63
[01/May/2017 20:23:40] "GET /users/ HTTP/1.1" 403 63
[01/May/2017 20:23:40] "GET /users/ HTTP/1.1" 403 63
[01/May/2017 20:23:40] "GET /users/ HTTP/1.1" 403 63
[01/May/2017 20:23:41] "GET /users/ HTTP/1.1" 403 63
[01/May/2017 20:23:41] "GET /users/ HTTP/1.1" 403 63
[01/May/2017 20:23:41] "GET /users/ HTTP/1.1" 403 63
[01/May/2017 20:23:41] "GET /users/ HTTP/1.1" 403 39
[01/May/2017 20:23:42] "GET /users/ HTTP/1.1" 200 727
```

# BitBucket Pipelines

---

- 현재 Free trial 기간
- <https://confluence.atlassian.com/bitbucket/get-started-with-bitbucket-pipelines-792298921.html>
- 사용 제약조건
  - 한 유저당 최대 500분/month
  - 4GB of RAM, 5GB hard disk, 2 hours execution time

## Source



- “bitbucket-pipelines.yml” 파일에 어떤 테스트를 할 것인지를 명시
  - “.yml” 확장자 : YAML 파일 ; 데이터를 표현하기 위한 문법

[https://confluence.atlassian.com/bitbucket/configure-bitbucket-pipelines-yml-792298910.html#Configurebitbucket-pipelines.yml-ci\\_default](https://confluence.atlassian.com/bitbucket/configure-bitbucket-pipelines-yml-792298910.html#Configurebitbucket-pipelines.yml-ci_default)



44a0bb7 13 hours ago ▾

Full commit

```
1  # This is a sample build configuration for Python.
2  # Check our guides at https://confluence.atlassian.com/x/x4UWN for more examples.
3  # Only use spaces to indent your .yaml configuration.
4  # -----
5  # You can specify a custom docker image from Docker Hub as your build environment.
6  image: python:3.5.1
7
8  pipelines:
9    default:
10     - step:
11       script: # Modify the commands below to build your repository.
12         - echo HI!
13         - cd debtpages
14         - pip install -r requirements.txt
15         - ./init.sh
16         - ./run.sh
```

모든 branch에 대해 이 테스트를 수행

하나의 테스트 셋

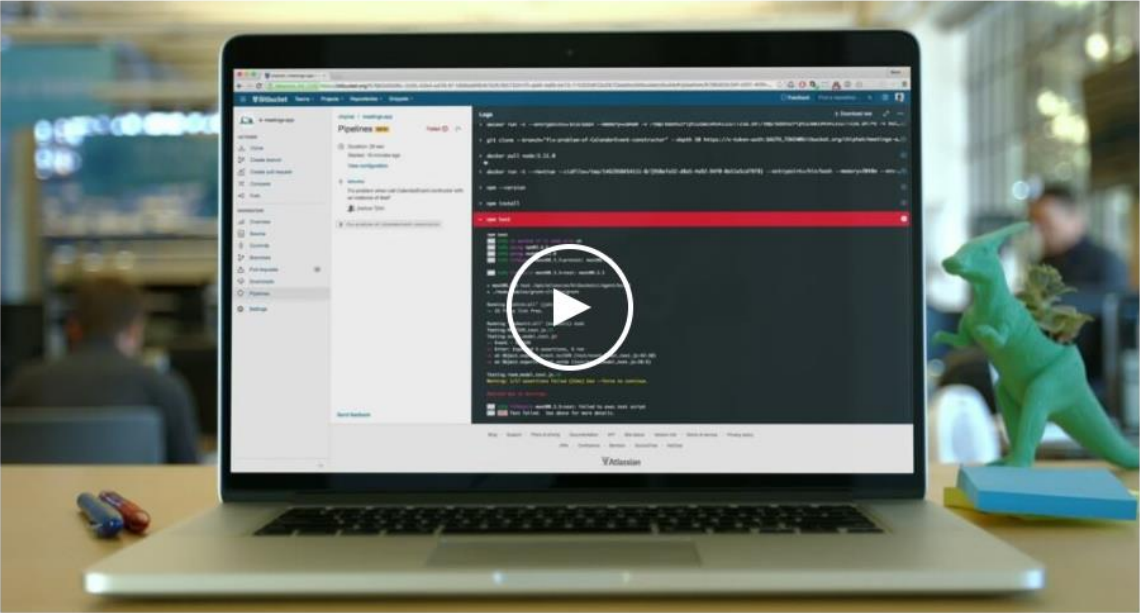
실행할 스크립트  
(한 줄에 한 명령어)

akdal / bitbucket-ci-test x swppexample / dddd / x

Atlassian, Inc. [US] | https://bitbucket.org/swppexample/dddd/addon/pipelines/home#!/getting-started

## Build, test and deploy with ease

Bring Continuous Delivery to your team, all within Bitbucket.  
Manage your configuration as code. Learn more about Bitbucket Pipelines.



**Pipelines**

**Enable Pipelines** Not now? Tell us why

FREE through early 2017.  
Windows, iOS, or OSX builds aren't supported yet.

(빨간색 버튼 클릭)



# Pipelines

● Pipelines is now **enabled**. You can disable Pipelines in the repository settings.

Python

[Configuration guide for Python](#)

bitbucket-pipelines.yml

TEMPLATE

```
1  # This is a sample build configuration for Python.
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4  # -----
5  # You can specify a custom docker image from Docker Hub as your build environment.
6  image: python:3.5.1
7
8  pipelines:
9    default:
10      - step:
11          script: # Modify the commands below to build your repository.
12              - pip install -r requirements.txt
```

Next

Template을 Python으로 선택

If you have issues getting your pipeline running, please refer to our [troubleshooting guide](#).



RustySQL



Overview



Source



Commits



Branches



Pull requests



Pipelines



Downloads



Settings

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juneyoung lee / RustySQL

## Source

RustySQL / bitbucket-pipelines.yml

### Creating bitbucket-pipelines.yml

```
1  # This is a sample build configuration for Python.
2  # Check our guides at https://confluence.atlassian.com/x/x4UWN for more examples.
3  # Only use spaces to indent your .yaml configuration.
4  # -----
5  # You can specify a custom docker image from Docker Hub as your build environment.
6  image: python:3.5.1
7
8  pipelines:
9    default:
10      - step:
11          script: # Modify the commands below to build your repository.
12              - pip install -r requirements.txt
```

Syntax mode: YAML

Indent mode: Spaces

Indent size: 2

Line wrap: Off

**Commit**



# init.sh

---

```
rm db.sqlite3  
python manage.py migrate  
python manage.py runscript inittest.py
```

# run.sh

---

```
# Start django server
python manage.py runserver 0.0.0.0:8000 &
sleep 10

# Get exit code of runtest.py
python runtest.py
res=$?

# Kill manage.py
ps -ef|awk 'BEGIN{}{if(match($8, /python/))system("kill -9 " $2)}END{}'

exit $res
```