如何透過Travis CI與Heroku達成CI/CD(以JAVA為例)

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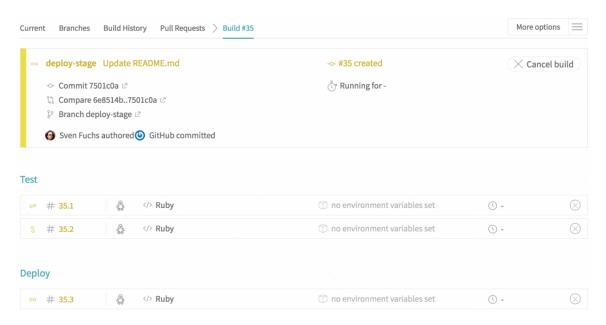
CI/CD

Continuous Integration
Continuous Delivery
Continuous Deployment

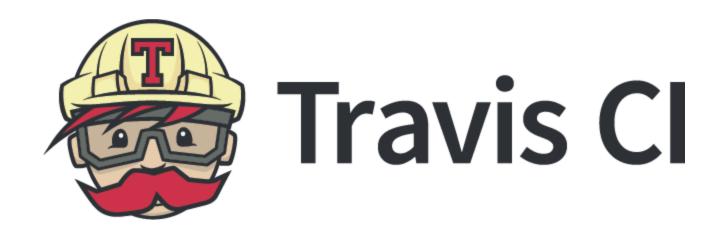
持續驗證系統開發結果整合自動化發佈或部署

Build Stages

一個階段做完後才做下一個階段



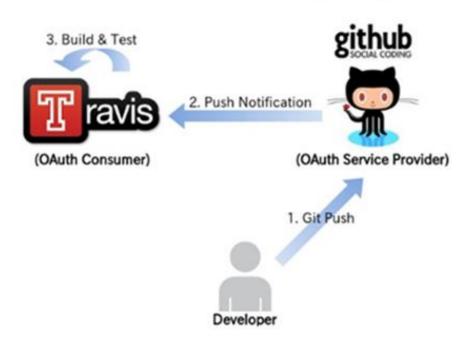
CI with Github



流程圖

Travis CI





<u>教學</u>-1

- ▶ 用Github帳號註冊Travis CI
- ▷ 和Github同步,並選擇你的專案



教學-2

- ▷ 新增並設定.travis.yml 到專案中(使用不同script)
- ▷ push後他會自動執行Travis專案

```
junit4/2.12.4/surefire-junit4-2.12.4.pom
    [INFO] Downloaded from google-maven-central: https://maven-central.storage-download.googleapis.com/maven2/org/apache/maven/surefire/surefire-
     junit4/2.12.4/surefire-junit4-2.12.4.pom (2.4 kB at 5.5 kB/s)
    [INFO] Downloading from google-maven-central: https://maven-central.storage-download.googleapis.com/maven2/org/apache/maven/surefire/surefire-
    providers/2.12.4/surefire-providers-2.12.4.pom
    [INFO] Downloaded from google-maven-central: https://maven-central.storage-download.googleapis.com/maven2/org/apache/maven/surefire/surefire-
    providers/2.12.4/surefire-providers-2.12.4.pom (2.3 kB at 23 kB/s)
1030 [INFO] Downloading from google-maven-central: https://maven-central.storage-download.googleapis.com/maven2/org/apache/maven/surefire/surefire-
     junit4/2.12.4/surefire-junit4-2.12.4.jar
1031 [INFO] Downloaded from google-maven-central: https://maven-central.storage-download.googleapis.com/maven2/org/apache/maven/surefire/surefire-
     junit4/2.12.4/surefire-junit4-2.12.4.jar (37 kB at 336 kB/s)
     TESTS
    Running ntou.cs.SimpleTest
    Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.161 sec
    Results :
    Tests run: 4, Failures: 0, Errors: 0, Skipped: 0
    [INFO] ------
     [INFO] BUILD SUCCESS
     [INFO] -----
    [INFO] Total time: 3.165 s
    [INFO] Finished at: 2020-11-05T02:18:49Z
     [INFO] -----
     The command "mvn test -B" exited with \theta.
    Done. Your build exited with 0.
```



gn01868184 / JavaClCD



build passing



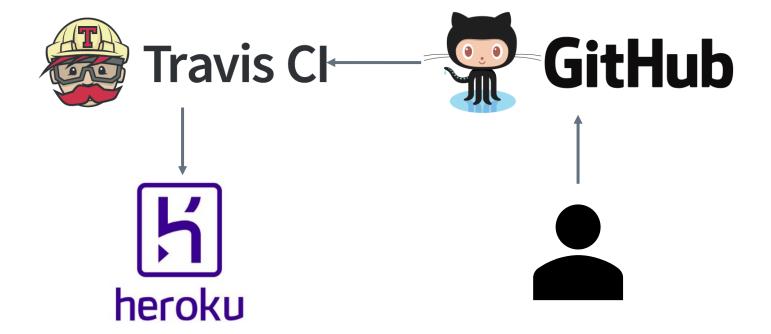
Job log

View config.

一個每天可以用18小時的免費雲端



流程圖

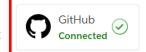


教學-1

- ▷ 註冊Heroku
- ▷ 在Heroku上建立一個新的App
- ▷ 在App設定_Deploy裡連結Github帳戶、Github repo和啟動CI等待功能。

Deployment method







連結GitHub

App connected to GitHub

Code diffs, manual and auto deploys are available for this app.

Connected to gn01868184/JavaCICD by gn01868184

Disconnect...

- Releases in the activity feed link to GitHub to view commit diffs
- Automatically deploys from property master

Automatic deploys

Enables a chosen branch to be automatically deployed to this app.

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You can now change your main deploy branch from "master" to "main" for both manual and automatic deploys, please follow the instructions here.

Automatic deploys from 🎉 master are enabled

Every push to master will deploy a new version of this app. **Deploys happen automatically**: be sure that this branch in GitHub is always in a deployable state and any tests have passed before you push. <u>Learn more</u>.

✓ Wait for CI to pass before deploy

Only enable this option if you have a Continuous Integration service configured on your repo.

打勾等待CI通過後才部署

Disable Automatic Deploys

教學-2

- ▷ 創建並設定Heroku的資訊檔 Procfile
- > push



成功畫面

