
UNIVERSITY
OF APPLIED SCIENCES
UPPER AUSTRIA

# Continuous Delivery in agile Software Development

**Exercise 03 (accompanying Chapter „Continuous Integration“)**

FH-Prof. DI Dr. Marc Kurz

HAGENBERG | LINZ | STEYR | WELS

# Continuous Integration Workflow

- In this exercise you will setup a CI workflow to your project from the second exercise
  - GitHub will be the VCS
  - Travis CI or GitHub Actions will be the build tool
  - Sonarcloud will be used for static code analysis

- This workflow will execute the unit tests of the source code and build the code.

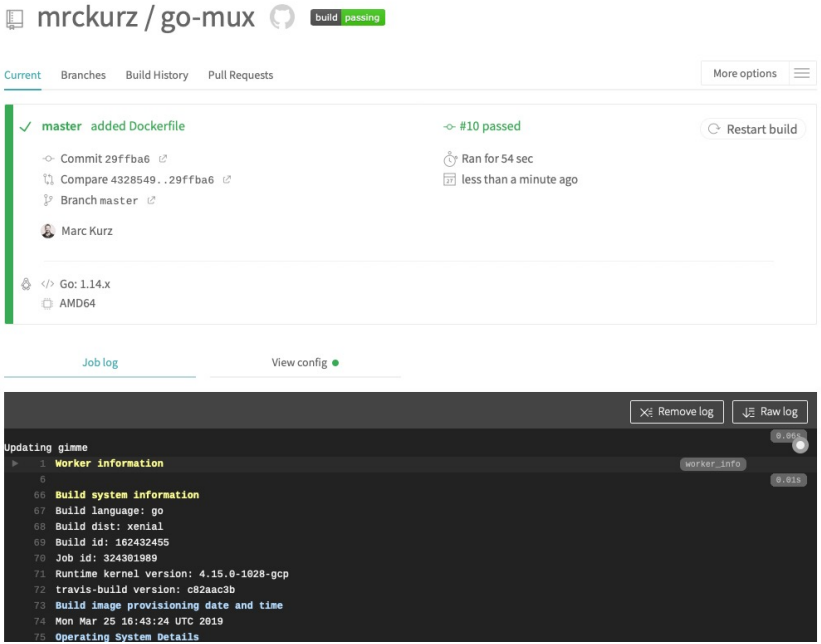
- To trigger it, a change of the codebase has to be performed

# Instructions

- Activate Travis CI for your GitHub repository
  - > Follow instructions on: https://docs.travis-ci.com/user/tutorial/#to-get-started-with-travis-ci
- Create a file .travis.yml in your repository and add the required elements
- make sure everything runs properly
  - > if so you should see an output similar to the example on the next slide

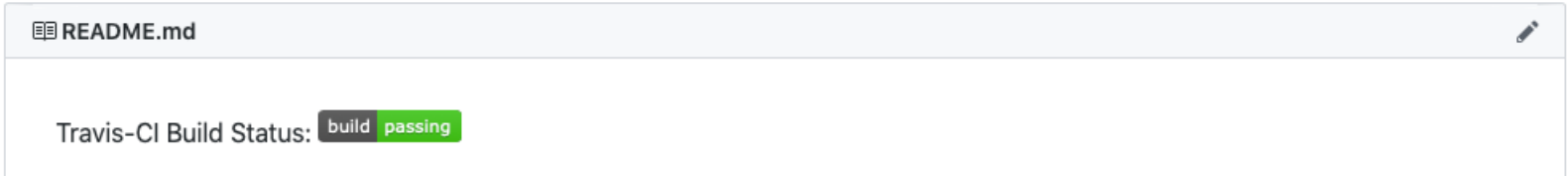
```
os: linux

language: go

go:
  - 1.14.x

services:
  - postgresql
  - docker

script:
  # Test the code
  - go test -v ./...
```

# Example of a successful Travis CI Build



# Instructions

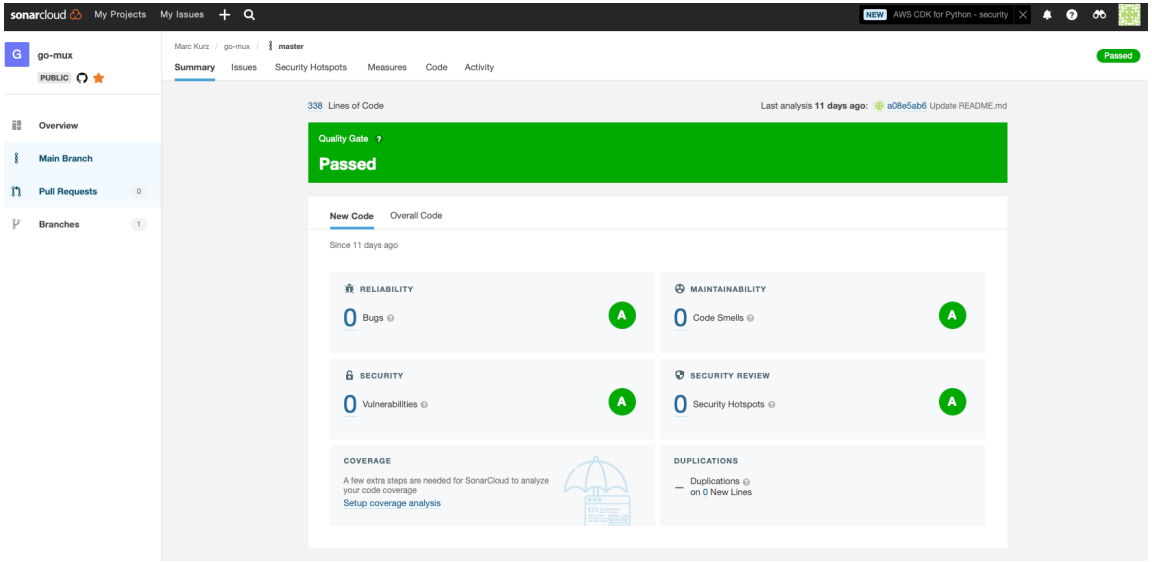
- Trigger a Travis build by a code change and commit to the repo
- Watch Travis executing your tests and building the artefact
  > 🔍 What is your observation?
- Add Travis CI status to the README.md
  > follow instructions on: https://docs.travis-ci.com/user/status-images/




- For help and inspiration, check out the repo https://github.com/mrckurz/go-mux

# SonarCloud Integration

- Integrate SonarCloud (https://sonarcloud.io) in your process - everytime a new commit is done into the repo, a new Sonar-run should be triggered…



# Exercise Submission

- Hand in the zip archive containing your results via Moodle no later than **April 27th, 23:55**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