

Microservice in Go

 duplicated lines 0%  lines of code 234  code smells 4  vulnerabilities 0  bugs 0

[Link to Github Repo](#)

Create pipeline with Github Actions

1. Code needs to be checked out
2. Docker container needs to get started
3. Wait for postgres
4. Build go project
5. Run tests
6. Analyze with sonarcloud (SONAR_TOKEN has to be set for this repository)

```
on: [push, pull_request]
jobs:
  build:
    runs-on: ubuntu-latest
    steps:
      - name: Checkout code
        uses: actions/checkout@v3

      - name: Start PostgreSQL
        run: docker-compose -f "docker-compose.yml" up -d
        env:
          POSTGRES_USER: postgres
          POSTGRES_PASSWORD: postgres

      - name: Wait for PostgreSQL to start
        run: docker-compose -f docker-compose.yml exec -T postgres /bin/sh -c 'while ! nc -z localhost 5432; do sleep 1; done;'

      - name: Set up Go
        uses: actions/setup-go@v3
        with:
          go-version: 1.19

      - name: Build
        run: go build -v ./...

      - name: Test
        run: go test -v ./...
        env:
          APP_DB_USERNAME: postgres
          APP_DB_PASSWORD: postgres
          APP_DB_NAME: postgres
```

```
- name: Analyze
  uses: sonarsource/sonarcloud-github-action@master
  env:
    GITHUB_TOKEN: ${ secrets.GITHUB_TOKEN }
    SONAR_TOKEN: ${ secrets.SONAR_TOKEN }
```

Configuration for sonarcloud can be added with the sonar-project.properties file.

```
sonar.organization=awenzelhuemer
sonar.projectKey=awenzelhuemer_fh-mc-go-mux

sonar.sources=.
sonar.exclusions=**/*_test.go

sonar.tests=.
sonar.test.inclusions=**/*_test.go
```

Add tags

1. With github actions build status is directly integrated into github
2. It is possible to add sonarcloud code analysis information.

