

Turistguide - Deploy til Azure

1. Introduktion

I denne opgave skal I deploye Turistguide Web Front end projektet (del 2) til Azure

2. Læringsmål

- ✓ At kunne definere en CD-pipeline for en web app i Azure, ved anvendelse af GitHub actions
- ✓ At forstå opbygning af workflow filen, der genereres af Azure
- ✓ At kunne definere en 'pull' trigger
- ✓ At kunne inkludere dine Unit test i en CI-pipeline

3. Steps

Følg anvisningerne i noten "Deploy til Azure"

- ✓ Opret dig som bruger på Azure (Student plan, Husk at benytte din KEA mail)
- ✓ Vælg GitHub til deployment
- ✓ Angiv GitHub repo informationer
- ✓ Authenticér Azure til din GitHub konto (2 faktor authentication)
- ✓ Angiv runtime informationer

Test at jeres workflow virker ved at pushe til jeres remote repo.

I kan følge med i deployment processen under 'Actions' fanebladet i GitHub

Workflow in progres...



Build and deploy JAR app to Azure Web App - springappdemo

Build and deploy JAR app to Azure Web App - springappdemo #6 Cancel workflow

Summary

Jobs

- build
- deploy

Run details

- Usage
- Workflow file

Manually triggered 1 minute ago

Status: **In progress** Total duration: — Artifacts: —

main_springappdemo.yml
on: workflow_dispatch

build (31s) → deploy (15s)
Deploying to Production

Annotations
2 warnings

build
Node.js 16 actions are deprecated. Please update the following actions to use Node.js 20: actions/setup-java@v3, actions/upload-artifact@v3. For more information see: <https://github.blog/2023-06-13-github-actions-all-actions-will-begin-running-on-node20/>.
[Show more](#)

build
The following actions uses node12 which is deprecated and will be forced to run on node16: actions/setup-java@v1. For more info: <https://github.blog/changelog/2023-06-13-github-actions-all-actions-will-begin-running-on-node20/>.
[Show more](#)

Workflow finished

Build and deploy JAR app to Azure Web App - springappdemo

Build and deploy JAR app to Azure Web App - springappdemo #6 Re-run all jobs

Summary

Jobs

- build
- deploy

Run details

- Usage
- Workflow file

Manually triggered 3 minutes ago

Status: **Success** Total duration: **1m 11s** Artifacts: **1**

main_springappdemo.yml
on: workflow_dispatch

build (31s) → deploy (21s)
<https://springappdemo.azurewebsites.net>

Annotations
3 warnings

build
node.js 16 actions are deprecated. Please update the following actions to use node.js 20: actions/setup-java@v1, actions/upload-artifact@v1. For more information see: <https://github.blog/2023-06-13-github-actions-all-actions-will-begin-running-on-node20/>.
[Show more](#)

build
The following actions uses node12 which is deprecated and will be forced to run on node16: actions/setup-java@v1. For more info: <https://github.blog/changelog/2023-06-13-github-actions-all-actions-will-begin-running-on-node20/>.
[Show more](#)

deploy
Node.js 16 actions are deprecated. Please update the following actions to use Node.js 20: actions/download-artifact@v3, azure/webapps-deploy@v2. For more information see: <https://github.blog/2023-06-13-github-actions-all-actions-will-begin-running-on-node20/>.
[Show more](#)

4. 'Pull' trigger

Den autogenererede workflow fil indeholder kun en 'push' trigger. I skal nu definere en 'pull' trigger og teste denne. En simpel måde at teste dette på kunne være at foretage rettelser README.md filen i remote repoet og lave et pull request.

5. CI-pipeline

Den workflowfil der genereres af Azure indeholder et maven build steps, der inkluderer afvikling af unit test. Check at din byggeprocess fejler hvis en af dine unittest fejler. Inkluder gerne 'Surefire report' i dit build step, se <https://github.com/marketplace/actions/surefire-report>

Step i workflow:

```
- name: Publish Test Report
  if: success() || failure()
  uses: scacap/action-surefire-report@v1
```

For at dette virker skal du ændre workflow permissions til 'read/write' Det gøres ved at gå til 'Settings' fanebladet i GitHub repoet og vælge 'Actions | General' og så vælge 'Read and write permissions'



DATE

Choose the repository settings for artifacts and logs.

Artifact and log retention

90 days Save

Your organization has set a maximum limit of 90 days. [Learn more about the artifact and log retention policy.](#)

Choose which subset of outside collaborators will require approval to run workflows on their pull requests. [Learn more about approving workflow runs from public forks.](#)

- Save

Choose the default permissions granted to the GITHUB_TOKEN when running workflows in this repository. You can specify more granular permissions in the workflow using YAML. [Learn more about managing permissions.](#)

- Choose whether GitHub Actions can create pull requests or submit approving pull request reviews.

- ☐
- Allow GitHub Actions to create and approve pull requests

Save