

Lab2:

Azure DevOps build/Test/Deploy Pipeline erfolgreich:

Nach dem Push auf das GitHub Repo, startet die Pipeline automatisch aufgrund des eingestellten triggers im .yaml file.

Hierbei wird nach den erfolgreichen Tests, die Applikation automatisch auf eine Azure Web App deployed.

trigger:
- main

The screenshot shows the Azure DevOps interface for a pipeline named 'Jobs in run #20201110.45'. The pipeline is successful, with all jobs marked with green checkmarks. The 'npm install and test' job is highlighted, showing its details and a log snippet. The log snippet shows a successful test run for the 'Hello World' application.

```
Task : Command line
Description : Run a command line script using Bash on Linux and macOS and cmd.exe on Windows
Version : 2.177.3
Author : Microsoft Corporation
Help : https://docs.microsoft.com/azure/devops/pipelines/tasks/utility/command-line

Generating script.
===== Starting Command Output =====
/bin/bash --noprofile --norc /home/vsts/work/_temp/4527ae16-4ee6-4ad3-9a14-e1282a704be2.sh
npm WARN hmg@1.0.0 No description
npm WARN hmg@1.0.0 No repository field.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.1.3 (node_modules/fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.1.3: wanted {"os":"darwin","arch":"any"} (current: {"os":"linux","arch":"x64"})
added 8 packages from 13 contributors and audited 199 packages in 1.535s
15 packages are looking for funding
  run 'npm fund' for details
found 0 vulnerabilities

> hmg@1.0.0 test /home/vsts/work/1/s/HelloExpress
> mocha test

Example app listening at http://localhost:3000

/GET
  ✓ it should status 200 and return hello world (57ms)

Array
  #indexOf()
    ✓ should return -1 when the value is not present

2 passing (64ms)

Finishing: npm install and test
```

Azure DevOps build/Test/Deploy Pipeline fehlgeschlagen:

Nun wurde der Rückgabe-Wert "Hello World!" zu "Hello Worlddd!" geändert und erneut committed+gepushed.

Die Pipeline startet wieder automatisch, schlägt diesmal jedoch fehl, da ein test fehlschlägt. Dadurch wird NICHT deployed.

The screenshot shows the Azure DevOps interface for a pipeline named 'Jobs in run #20201110.46'. The pipeline is failed, with the 'npm install and test' job marked with a red 'X'. The log snippet shows a failed test run for the 'Hello World' application, with the error message 'Uncaught AssertionError: expected 'Hello Worlddd!' to equal 'Hello World!''. The error message is highlighted in a red box.

```
Uncaught AssertionError: expected 'Hello Worlddd!' to equal 'Hello World!'
+ expected - actual
-Hello Worlddd!
+Hello World!

at chai.request.get.end (test/test.js:18:31)
at Test.Request.callback (node_modules/superagent/lib/node/index.js:716:12)
at parser (node_modules/superagent/lib/node/index.js:916:18)
at IncomingMessage.res.on (node_modules/superagent/lib/node/parsers/json.js:19:7)
at endReadableNT (_stream_readable.js:1145:12)
at process._tickCallback (internal/process/next_tick.js:61:19)

npm ERR! Test failed. See above for more details.
Finishing: npm install and test
```

Azure DevOps Release Pipeline:

Es wurde eine Release Pipeline erstellt die mittels continuous deployment immer angetriggert wird, wenn die build/Test/Deploy Pipeline fertig ist.

Hierbei startet sie jedoch nicht direkt, sondern muss (wie eingestellt), vor dem Release noch von der/den eingestellten Person/en approved werden.

The screenshot shows the 'New release pipeline' configuration in Azure DevOps. The 'Pre-deployment conditions' panel is open, showing 'Pre-deployment approvals' enabled. The 'Approvers' list includes 'Matthias Mandl'. The 'Timeout' is set to 30 days. The 'Approval policies' section has three checkboxes: 'The user requesting a release or deployment should not approve it' (unchecked), 'Revalidate identity of approver before completing the approval' (unchecked), and 'Skip approval if the same approver approved the previous stage' (unchecked).

Die Releases und ausstehende Releases der Release Pipeline:

The screenshot shows the 'Releases' page in Azure DevOps. The 'New release pipeline' is selected. The 'Releases' tab shows a list of releases. The 'Stages' column shows the status of Stage 1 for each release. Release-18 is pending approval, Release-17 is pending approval, Release-16 is completed, Release-15 is completed, Release-14 is pending approval, and Release-13 is pending approval.

Releases	Created	Stages
Release-18 20201108.27 main	8.11.2020, 18:05:37	Stage 1
Release-17 20201108.25 main	8.11.2020, 17:53:32	Stage 1
Release-16 20201108.24 main	8.11.2020, 17:04:11	Stage 1
Release-15 20201108.23 main	8.11.2020, 16:51:15	Stage 1
Release-14 20201108.23 main	8.11.2020, 16:44:13	Stage 1
Release-13 20201108.23 main	8.11.2020, 16:38:48	Stage 1

Bestätigen des Releases:

Release-18 > Pending approval on Stage 1 stage.

Pre-deployment approval pending

Approval pending for 2 minutes
Waiting for all approvers to approve in sequence.

Timeout in 30d

Matthias Mandl
Pending for 2 minutes

Comment

☐ Defer deployment for later

Approve Reject

Erfolgreicher Release:

Release-18

Continuous deployment for GitHub
8.11.2020, 18:05

Artifacts
_MatthiasMan.FH...
20201108.27
main

Stage 1
Succeeded
2 warnings
on 8.11.2020, 18:20

Stage 1
Succeeded

Summary Commits Work Items View logs

Now at Release-18
View all deployments

Deployment succeeded
on 8.11.2020, 18:20 • Ran for 2m 22s

Agent job - Succeeded
3/5 task(s) succeeded
2 warnings

Pre-deployment approval succeeded
Approved by Matthias Mandl on 8.11.2020, 18:18

Automatic trigger
Deployment triggered on 8.11.2020, 18:05

Associated changes
View commits and work items

_MatthiasMan.FH_MatthiasM_SoftwareDepl... / 20201108.27
main

Erfolgreicher Release inklusive eingebundenem Azure Application Insights:

Agent job
Pool: Azure Pipelines - Agent-Hosted Agent
Started: 8.11.2020, 18:15
2m 22s

Initialize job - succeeded 4s

Enable Continuous Monitoring - succeeded 2 warnings 1m 11s

Configure Application Insights Alerts - succeeded 51s

Azure App Service Deploy - succeeded 14s

Finalize Job - succeeded <1s

Einbindung von Application Insights:

MyMMWebApp | Anwendungsübersicht

Überblick

1 Instanz
3
86 ms
1 Aufruf

Web

127.0.0.1:3000 HTTP

105 ms

1 Aufruf