

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

Azure DevOps interface showing a successful pipeline run #20201108.25. The pipeline jobs are listed in the left pane, and the right pane shows the details of the Npm job, including environment configs, commands, and test results. A red box highlights the test results: '2 passing (21ms)'.

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.

Azure DevOps interface showing a failed pipeline run #20201108.26. The pipeline jobs are listed in the left pane, and the right pane shows the details of the Npm job, including environment configs, commands, and test results. A red box highlights the test results: '1 failing' and 'Uncaught AssertionError: expected 'Hello Worlddd!' to equal 'Hello World!''. The AzureWebApp job is highlighted in blue.

Azure DevOps Release Pipeline:

Es wurde eine Release Pipeline erstellt die durch 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. Release-18 is pending approval on Stage 1. Release-17 is pending approval on Stage 1. Release-16 is approved on Stage 1. Release-15 is approved on Stage 1. Release-14 is pending approval on Stage 1. Release-13 is pending approval on Stage 1.

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:

The screenshot shows the Azure DevOps interface for a release pipeline. On the left, the 'Releases' section is expanded. The main area shows 'Release-18' with a status of 'Pending approval on Stage 1 stage'. Below this, there's a 'Pre-deployment approval pending' section with a 'View logs' link. A user 'Matthias Mandl' is shown as the approver, with a 'Pending for 2 minutes' status. A comment box is present, and at the bottom, there are 'Approve' and 'Reject' buttons. The 'Approve' button is highlighted with a red box.

Erfolgreicher Release:

The screenshot shows the Azure DevOps interface for a successful release. The 'Release' section on the left shows 'Continuous deployment for GitHub' with a status of 'Succeeded'. The 'Stages' section shows 'Stage 1' with a status of 'Succeeded' and '2 warnings'. The right pane shows the 'Stage 1' summary, including 'Now at Release-18', 'Deployment succeeded', 'Pre-deployment approval succeeded', 'Automatic trigger', and 'Associated changes'.

Erfolgreicher Release inklusive eingebundenem Applikation Azure Application Insights:

The screenshot shows the Azure DevOps interface for the 'Agent job' details of 'Release-18'. The job is 'Succeeded' with '2 warnings'. The 'Agent job' section shows a list of tasks: 'Initialize job', 'Enable Continuous Monitoring', 'Configure Application Insights Alerts', 'Azure App Service Deploy', and 'Finalize Job', all of which are 'succeeded'.

Einbindung von Application Insights:

The screenshot shows the Microsoft Azure portal for the 'MyMMWebApp' application. The 'Application Insights' section shows a 'Web' instance with a '105 ms' response time and '1 Aufruf' (1 call). The '105 ms' is highlighted with a green circle, and the '1 Aufruf' is highlighted with a green circle. The 'Web' instance is also highlighted with a green circle.