

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: Initialize job (4s), Checkout MatthiasMan... (3s), Install Node.js (<1s), npm install and build (2s), NodeTool (<1s), Npm (5s), Npm (1s), PublishTestResults (1s), AzureWebApp (19s), Post-job: Checkout M... (<1s), and Finalize Job (<1s). The Npm job is highlighted in blue. The right pane shows the Npm job details, 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: Initialize job (5s), Checkout MatthiasMan... (3s), Install Node.js (<1s), npm install and build (2s), NodeTool (<1s), Npm (6s), Npm (2s), PublishTestResults (<1s), AzureWebApp (<1s), Post-job: Checkout M... (<1s), and Finalize Job (<1s). The Npm job is highlighted in red. The right pane shows the Npm job details, 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 for Stage 1. The approver 'Matthias Mandl' is listed. The timeout is set to 30 days. Approval policies are also visible.

Pre-deployment conditions
Stage 1

Triggers
Define the trigger that will start deployment to this stage

Pre-deployment approvals ☒ Enabled
Select the users who can approve or reject deployments to this stage

Approvers Search users and groups for approvers

Timeout Days

Approval policies

- ☐ The user requesting a release or deployment should not approve it
- ☐ Revalidate identity of approver before completing the approval.
- ☐ Skip approval if the same approver approved the previous stage

Die Releases und ausstehende Releases der Release Pipeline:

The screenshot shows the 'Releases' page in Azure DevOps. A list of releases is displayed, including Release-18, Release-17, Release-16, Release-15, Release-14, and Release-13. Release-18 is pending approval on Stage 1. Release-17 is pending approval on Stage 1. Release-16 is completed. Release-15, Release-14, and Release-13 are also shown with their status.

New release pipeline

Releases Deployments Analytics

1 Pending approval on Stage 1 stage.

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 new release pipeline. The left sidebar contains navigation links for Overview, Pipelines, Environments, Releases, Library, Task groups, and Deployment groups. The main area displays the 'New release' page for 'Release-18'. The page title is 'Release-18 > Pending approval on Stage 1 stage.' Below the title, it says 'Pre-deployment approval pending' with a 'View logs' button. A status bar indicates 'Approval pending for 2 minutes' and 'Timeout in 30d'. A user profile for 'Matthias Mandl' is shown with a 'Reassign' button. A comment box is present, and a checkbox for 'Defer deployment for later' is visible. The 'Approve' button is highlighted with a red box.

Erfolgreicher Release:

The screenshot shows the Azure DevOps interface for a successful release pipeline. The left sidebar contains navigation links for Overview, Pipelines, Environments, Releases, Library, Task groups, and Deployment groups. The main area displays the 'Release-18' page. The page title is 'Release-18'. Below the title, it says 'Stage 1' and 'Succeeded'. The 'Release' section shows 'Continuous deployment' for GitHub. The 'Stages' section shows 'Stage 1' as 'Succeeded'. The 'Summary' section shows '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 a successful release pipeline. The left sidebar contains navigation links for Overview, Pipelines, Environments, Releases, Library, Task groups, and Deployment groups. The main area displays the 'Release-18' page. The page title is 'Release-18'. Below the title, it says 'Stage 1' and 'Succeeded'. The 'Deployment process' section shows 'Pre-deployment approvals' and 'Agent job'. 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'.