LU04c - Sample project with Jenkins commit pipeline (1)

Internal reference: learningunits/04-3.md

Goals

1. I can configure Jenkins with required plugins.
2. I can set up a stage for checkout as a `Jenkins Pipeline`.
3. I can set up a stage for installing the runtime and testing the app as a `Jenkins Pipeline`.
4. I can fetch the Jenkins pipeline code from a repository and trigger that way the CI/CD Pipeline.
5. If there are any errors, I can analyze the error, suggest and test an initial workaround (troubleshooting).

Sample project Traffic Light

This sample project shows how to set up a pipeline in Jenkins for fetching the code from a repository and testing the app (in Node.js) with test cases. Remark: What is not shown is testing the app on your local machine.

1. Live-Demo: How to start and add test cases to the Traffic Light app.
2. Setup Node.js pipeline (Jenkins controller)
3. Setup a checkout pipeline
4. Install & Test pipeline
5. SCM-Pipeline in a file

Exercises

1. Setup Jenkins `02/02_Exercises/01-Exercise.md` to `05-Exercise.md` - according to the learning objectives (see course repository).
2. If there is an error, read the message carefully, think about a solution and implement it.

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