

# LU04c - Sample project with Jenkins commit pipeline

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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