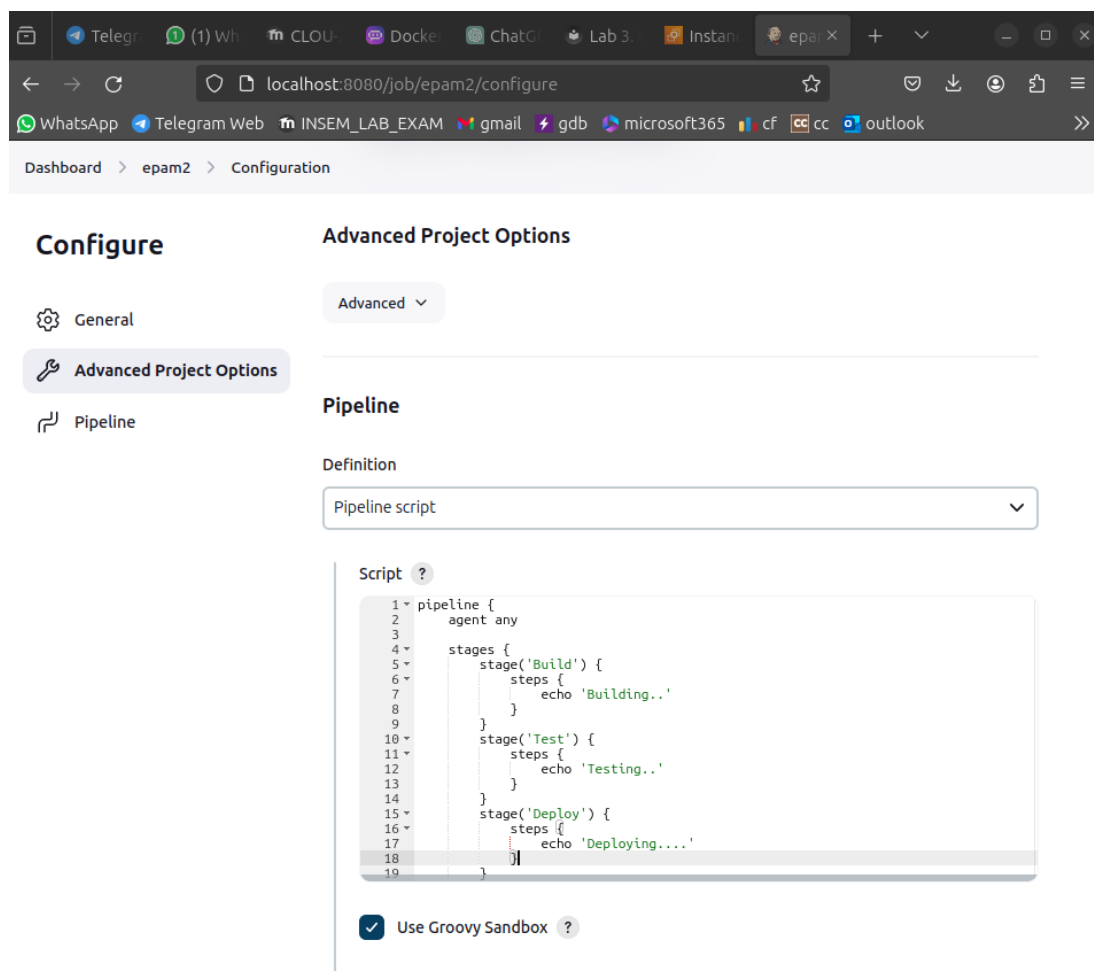


10. Continuous Integration with Jenkins

To build a pipeline with Jenkins that runs a Java file from GitHub, you can follow these steps:

1. Set up Jenkins:
 - Install Jenkins on your server or machine by following the official installation guide.
 - Set up any necessary configurations and plugins required for your project.
2. Create a new Jenkins Pipeline:
 - In Jenkins, create a new Pipeline project.
 - Configure the pipeline to connect to your version control system (GitHub) and specify the repository URL.
3. Define the Jenkinsfile:
 - In the root directory of your GitHub repository, create a file named **Jenkinsfile**. This file defines the steps of your Jenkins pipeline using Groovy syntax.
 - Open the **Jenkinsfile** in a text editor and define the stages and steps for your pipeline.
4. Define Stages and Steps:
 - Inside the **Jenkinsfile**, define the stages and steps required for your pipeline. For example:



In this example, the pipeline has three stages: `Checkout`, `Build`, and `Test`. The `Checkout` stage checks out the source code from the GitHub repository. The `Build` stage compiles the Java file using the `javac` command. The `Test` stage runs the compiled Java file using the `java` command.

5. Save and commit the `Jenkinsfile` to your GitHub repository.

6. Run the Jenkins Pipeline:

- Go back to Jenkins and trigger the pipeline either manually or by setting up a webhook to automatically trigger the pipeline upon code changes in the GitHub repository.
- Jenkins will run the pipeline, cloning the repository, compiling the Java file, and running it.

Note: Make sure you have the necessary build tools and Java environment configured on the Jenkins server. Adjust the pipeline steps and commands as per your project requirements.

Dashboard > epam2 > #2

Status

Changes

Console Output

View as plain text

Edit Build Information

Delete build '#2'

Restart from Stage

Replay

Pipeline Steps

Workspaces

Previous Build

✓ Console Output

Started by user [Giddanti Mokshit](#)
[Pipeline] Start of Pipeline
[Pipeline] node
Running on [Jenkins](#) in /var/lib/jenkins/workspace/epam2
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] echo
Building..
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] echo
Testing..
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy)
[Pipeline] echo
Deploying....
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS