

DEVOPS

ASSIGNMENT 2

STEPS:

Step 1: Open Jenkins and click "New Item."

Step 2: Enter a project name, select "Pipeline," then click OK.

Step 3: In the General tab, scroll down to the "Pipeline" section.

Step 4: Under "Definition," select "Pipeline script from SCM."

Step 5: In the SCM field, choose "Git," then enter your GitHub repository URL.

Step 6: Ensure your GitHub repository contains the following files:

- app.py (Application code)
- Dockerfile (Instructions to build the Docker image)
- docker-compose.yml (For container orchestration)
- Jenkinsfile (Defines the pipeline stages)
- requirements.txt (Dependencies for the application)

Step 7: Click "Save" to apply the configuration.

Step 8: On the project page, click "Build Now" to start the job.

Step 9: The build status will appear in the Build History panel (left-side panel).

OUTPUT:

The screenshot displays the Jenkins web interface for job **Assign_2**, build **#5**. The left sidebar contains navigation links: Status, Changes, Console Output (selected), Edit Build Information, Delete build '#5', Timings, Git Build Data, Open Blue Ocean, Pipeline Overview, Pipeline Console, Restart from Stage, Replay, Pipeline Steps, and Workspaces.

The main area shows the **Console Output** for build #5, which is a declarative pipeline. The output text is as follows:

```
Started by user Pradeepa
Obtained Jenkinsfile from git https://github.com/PradeepaPalanisamy/sample_assign2.git
[Pipeline] start of Pipeline
[Pipeline] node
Running on Jenkins in /var/jenkins_home/workspace/Assign_2
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
using credential Github_Credentials
> git rev-parse --resolve-git-dir /var/jenkins_home/workspace/Assign_2/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/PradeepaPalanisamy/sample_assign2.git # timeout=10
Fetching upstream changes from https://github.com/PradeepaPalanisamy/sample_assign2.git
> git --version # timeout=10
> git --version # 'git version 2.39.5'
using GIT_ASKPASS to set credentials
> git fetch --tags --force --progress -- https://github.com/PradeepaPalanisamy/sample_assign2.git +refs/heads/*:refs/remotes/origin/* #
timeout=10
> git rev-parse refs/remotes/origin/master^(commit) # timeout=10
Checking out Revision 8cd3f98de1cd1bb4ab4c7c3fc2c0a3d50a4ecbec (refs/remotes/origin/master)

timeout=10
> git rev-parse refs/remotes/origin/main^(commit) # timeout=10
Checking out Revision e306902393828b62b912a4799c44bdf061568fbf (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f e306902393828b62b912a4799c44bdf061568fbf # timeout=10
> git branch -a -v --no-abbrev # timeout=10
> git branch -D main # timeout=10
> git checkout -b main e306902393828b62b912a4799c44bdf061568fbf # timeout=10
Commit message: "Add files via upload"
First time build. Skipping changelog.
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] echo
Building...
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

At the bottom right of the console output area, the text **REST API Jenkins 2.498** is visible.