

ASSIGNMENT 5

Setting Up and Running a Jenkins Pipeline with Git and Maven

Step 1: Clone the Repository

1. Open Command Prompt and navigate to a desired directory.
2. Run the command:
`git clone https://github.com/ranjanisengottaian/DemoRepos.git`
3. Navigate into the cloned directory:
`cd DemoRepos`

Step 2: Access Jenkins Inside Docker

1. Run the following command to enter the Jenkins container:
`docker exec -it jenkins-blueocean /bin/bash`
2. Navigate to the cloned repository inside the container:
`cd DemoRepos`

Step 3: Install Maven

1. Inside the Jenkins container, install Maven by running:
`sudo apt-get install -y maven`
This will install Maven and set up dependencies.
2. Verify Maven installation:
`mvn -version`

Step 4: Run the Jenkins Pipeline

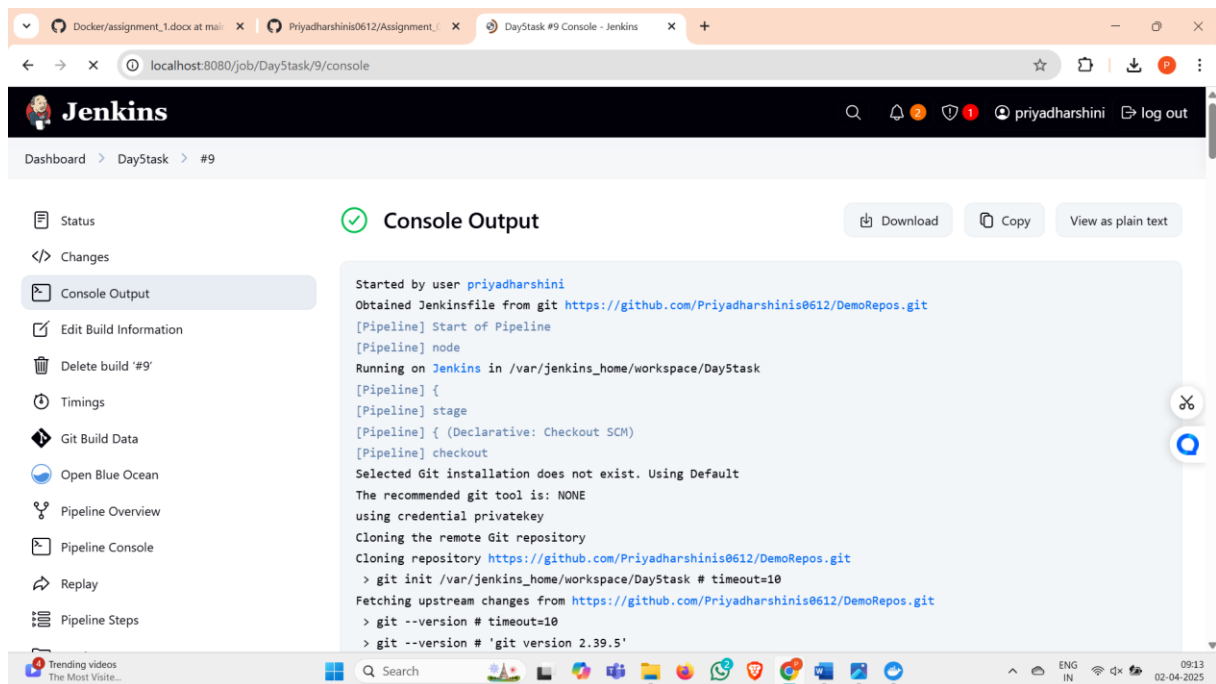
1. Open Jenkins in your browser.
2. Click on New Item.
3. Enter the item name (e.g., task-5).
4. Select Pipeline and click OK.
5. Open the newly created pipeline (task-5).
6. Click on Configure.

7. Under the Pipeline section, choose Pipeline script from SCM.
8. Select Git as the SCM.
9. Paste your Git repository URL (e.g., <https://github.com/ranjanisengottaian/DemoRepos.git>).
10. Click Save.
11. Click on Build Now to start the pipeline.

Step 5: Verify the Build Output

1. Monitor the build progress under Build History in Jenkins.
2. If the build is successful, verify the output.
3. If there are errors, check the logs in Console Output and fix any issues.

OUTPUT:



The screenshot shows the Jenkins web interface in a browser. The address bar indicates the URL is `localhost:8080/job/Day5task/9/console`. The Jenkins logo and user profile (priyadharshini) are visible at the top. The left sidebar contains navigation links: Status, Changes, Console Output (selected), Edit Build Information, Delete build '#9', Timings, Git Build Data, Open Blue Ocean, Pipeline Overview, Pipeline Console, Replay, and Pipeline Steps. The main area displays the 'Console Output' for build #9, which is successful (indicated by a green checkmark). The output text is as follows:

```
Started by user priyadharshini
Obtained Jenkinsfile from git https://github.com/Priyadharshinis0612/DemoRepos.git
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/jenkins_home/workspace/Day5task
[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 privatekey
Cloning the remote Git repository
Cloning repository https://github.com/Priyadharshinis0612/DemoRepos.git
> git init /var/jenkins_home/workspace/Day5task # timeout=10
Fetching upstream changes from https://github.com/Priyadharshinis0612/DemoRepos.git
> git --version # timeout=10
> git --version # 'git version 2.39.5'
```

Browser tabs: Docker/assignment_1.docx at mail, Priyadharshini0612/Assignment..., Day5task #9 Console - Jenkins

Address bar: localhost:8080/job/Day5task/9/console

Dashboard > Day5task > #9

```
Yet to be implemented
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] cleanWs
[WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] done
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

REST API Jenkins 2.498

Windows taskbar: Trending videos, Search, 09:13 02-04-2025

Browser tabs: Graph [Day5task #9] - Jenkins, Open/DK 17 Version, Repositories | priyadharshini06

Address bar: localhost:8080/job/Day5task/9/pipeline-graph/

Jenkins

Dashboard > Day5task > #9 > Pipeline Overview

< Build #9 > [Rebuild] [Console] [Configure]

Pipeline

Start Checkout SCM Build Test Package & Depl... Build Docker file Post Actions End

Details

- Manually run by priyadharshini
- Started 1 hr 8 min ago
- Queued 14 ms
- Took 22 sec

Jenkins 2.498

Windows taskbar: 35°C Mostly sunny, Search, 16:26 21-03-2025