

DEVOPS TASK 2

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).

Step 10 : Click on the latest build (#1, #2, etc.) and select "Console Output" to view logs and results.

The screenshot displays the Jenkins web interface for a project named "ci-cd pipeline_". At the top, a breadcrumb trail shows "Dashboard > ci-cd pipeline_ >". Below this, a "Today" section lists the build history. Build #6 is the most recent and is marked as successful with a green checkmark icon, occurring at 2:43 PM. Builds #1 through #5 are marked as failed with red 'X' icons and occurred at 2:03 PM, 2:06 PM, 2:24 PM, 2:26 PM, and 2:30 PM respectively. Each build entry has a dropdown arrow to its right. Below the build history, the project name "ci-cd pipeline_" is shown with a green checkmark icon. To the right of the project name is a button labeled "Add description" with a pencil icon. Underneath, the "Permalinks" section shows a link for the last build: "Last build (#6), 14 min ago". At the very bottom, a partial URL is visible: "localhost:8080/job/ci-cd pipeline_ /1/ min ago".

Dashboard > ci-cd pipeline_ >

Today

- ✓ #6 2:43 PM
- ✗ #5 2:30 PM
- ✗ #4 2:26 PM
- ✗ #3 2:24 PM
- ✗ #2 2:06 PM
- ✗ #1 2:03 PM

✓ ci-cd pipeline_ Add description

Permalinks

- Last build (#6), 14 min ago

localhost:8080/job/ci-cd pipeline_ /1/ min ago

Dashboard > ci-cd pipeline_ >

✖ #3 2:24 PM

✖ #2 2:06 PM

✖ #1 2:03 PM



ci-cd pipeline_

Add description

Permalinks

- [Last build \(#6\), 14 min ago](#)
- [Last stable build \(#6\), 14 min ago](#)
- [Last successful build \(#6\), 14 min ago](#)
- [Last failed build \(#5\), 27 min ago](#)
- [Last unsuccessful build \(#5\), 27 min ago](#)
- [Last completed build \(#6\), 14 min ago](#)

Dashboard > ci-cd pipeline_ > #6

Previous Build



Console Output

Download

Copy

View as plain text

```
Started by user Anusri A
Obtained jenkinsfile from git https://github.com/anu-304/jenkins.git
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/ci-cd pipeline_
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
Selected Git installation does not exist. Using Default
```

Dashboard > ci-cd pipeline_ > #6

```
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] echo
Pipeline executed successfully!
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

Commands to overcome error in Task 2:

1. Usermod -aG docker jenkins
2. Apt-get install docker-compose
3. Chmod 777 /var/run/docker.sock