

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:

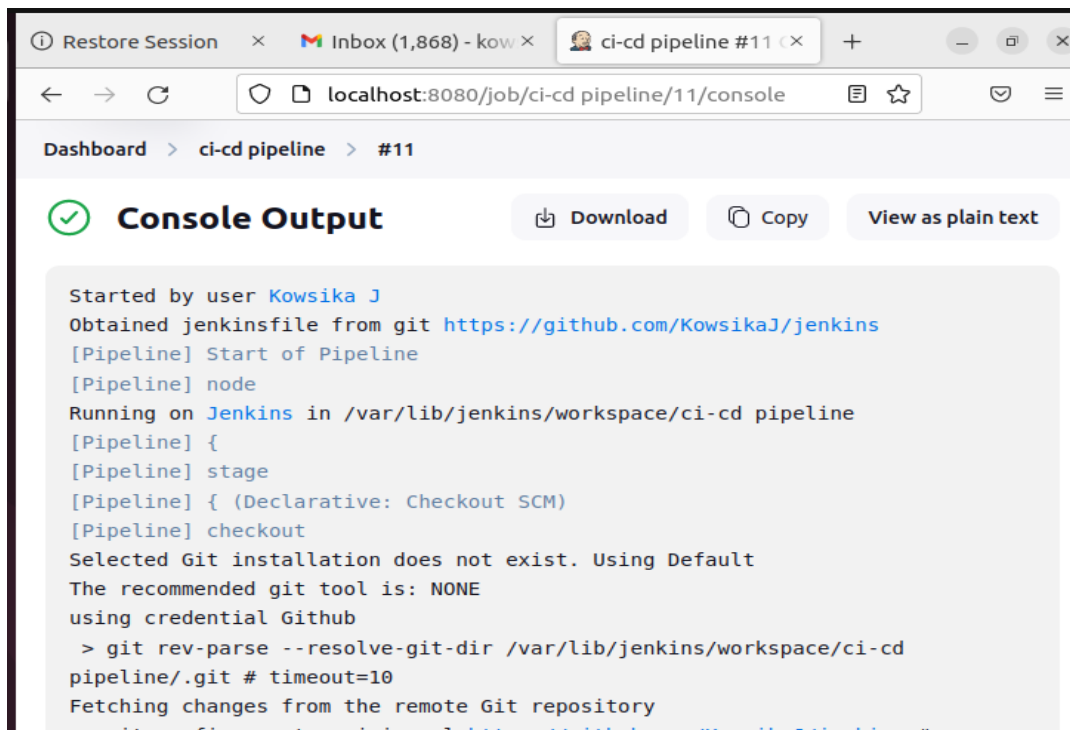
- app.py (Application code)
- Dockerfile (Instructions to build the Docker image)
- docker-compose.yml (For container orchestration)
- Jenkinsfile (Defines the pipeline stages)
- requirements.txt (Dependencies for the application)

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 shows a web browser window with the URL `localhost:8080/job/ci-cd pipeline/11/console`. The page title is "ci-cd pipeline #11". Below the title, there is a "Console Output" section with a green checkmark icon. To the right of the title, there are buttons for "Download", "Copy", and "View as plain text". The console output text is as follows:

```
Started by user Kowsika J
Obtained jenkinsfile from git https://github.com/KowsikaJ/jenkins
[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
The recommended git tool is: NONE
using credential Github
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/ci-cd
pipeline/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/KowsikaJ/jenkins #
```

Dashboard > ci-cd pipeline > #11

```
[Pipeline] withCredentials
```

Masking supported pattern matches of \$DOCKER_PASS

```
[Pipeline] {
```

```
[Pipeline] sh
```

```
+ docker login -u kowsikaj --password-stdin
```

```
+ echo ****
```

WARNING! Your credentials are stored unencrypted in '/var/lib/jenkins/.docker/config.json'.
Configure a credential helper to remove this warning. See

<https://docs.docker.com/go/credential-store/>

Login Succeeded

```
[Pipeline] }
```

```
[Pipeline] // withCredentials
```

```
[Pipeline] }
```

```
[Pipeline] // script
```

```
[Pipeline] }
```

```
[Pipeline] // stage
```

Activities

Firefox Web Browser

Mar 20 11:22

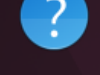
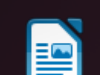


Restore Session

Setup Kubernetes

ci-cd pipeline

System » Glob



localhost:8080/job/ci-cd pipeline/11/console

Dashboard > ci-cd pipeline > #11

```
[Pipeline] // script
```

```
[Pipeline] }
```

```
[Pipeline] // stage
```

```
[Pipeline] stage
```

```
[Pipeline] { (Declarative: Post Actions)
```

```
[Pipeline] echo
```

Pipeline executed successfully!

```
[Pipeline] }
```

```
[Pipeline] // stage
```

```
[Pipeline] }
```

```
[Pipeline] // withEnv
```

```
[Pipeline] }
```

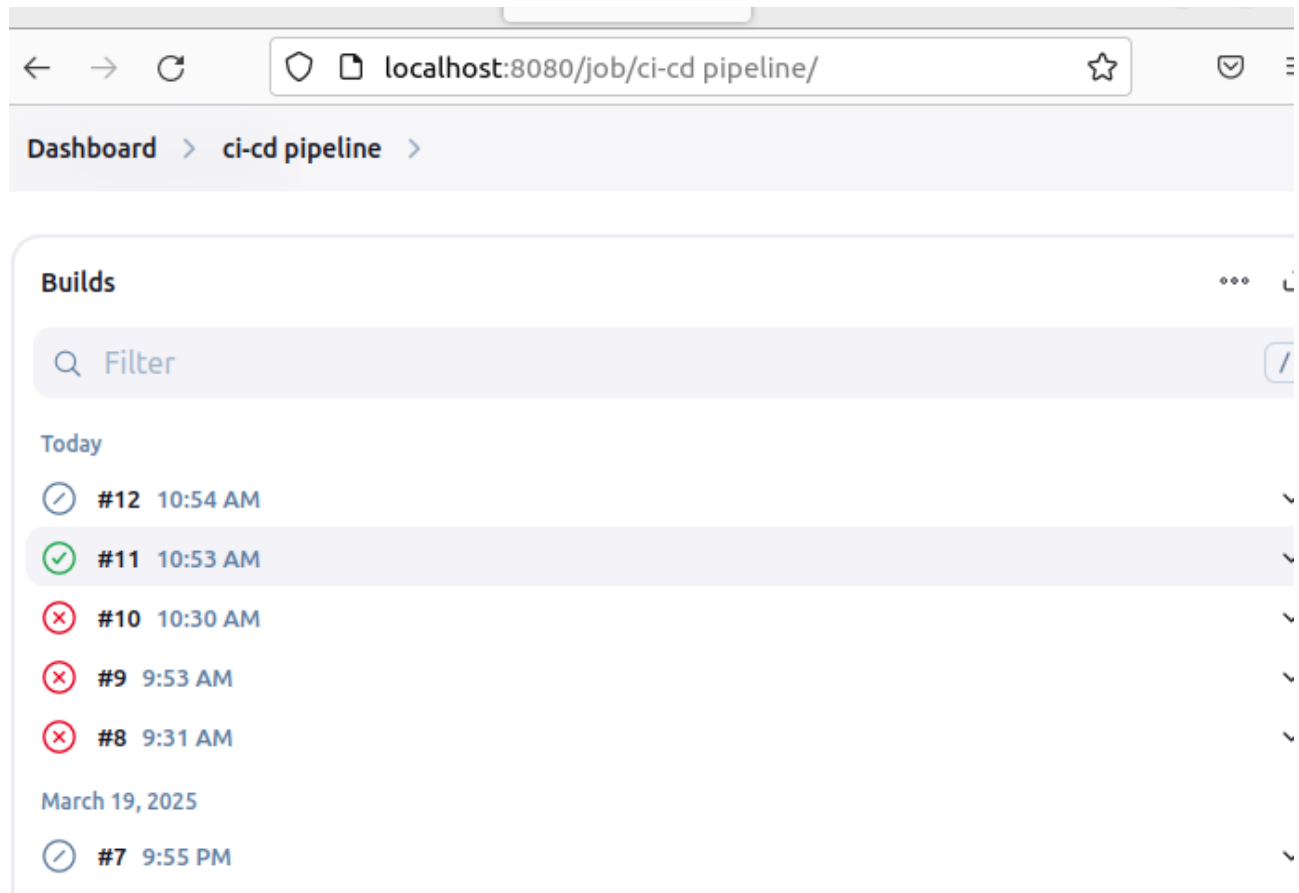
```
[Pipeline] // withEnv
```

```
[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