

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.

 Jenkins

🔍 ⓘ 1 👤 Aayisha rifqa ⌵ ↗ log out

Dashboard > ci-cd-pipeline > #10

Status

</> Changes

📄 Console Output

📝 Edit Build Information

🗑️ Delete build '#10'

🔍 Git Build Data

🔄 Restart from Stage

🔄 Replay

📋 Pipeline Steps

📁 Workspaces

← Previous Build

✓ Console Output

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Started by user Aayisha rifqa

Obtained jenkinsfile from git https://github.com/Aayisharifqa/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

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/Aayisharifqa/jenkins.git

Fetching upstream changes from https://github.com/Aayisharifqa/jenkins.git

> git --version # timeout=10

> git --version # 'git version 2.34.1'

using GIT_ASKPASS to set credentials github

← → ↻ 📄 localhost:8080/job/ci-cd-pipeline/10/console ⭐ 📁 🔍 ⋮

Dashboard > ci-cd-pipeline > #10

using GIT_ASKPASS to set credentials github https://github.com/Aayisharifqa/jenkins.git

> git fetch --tags --force --progress -- https://github.com/Aayisharifqa/jenkins.git

+refs/heads/*:refs/remotes/origin/* # timeout=10

> git rev-parse refs/remotes/origin/main^{commit} # timeout=10

Checking out Revision 84490c2d22f9aabc7259d127ee951d8364fd1cc3 (refs/remotes/origin/main)

> git config core.sparsecheckout # timeout=10

> git checkout -f 84490c2d22f9aabc7259d127ee951d8364fd1cc3 # timeout=10

Commit message: " jenkinsfile"

> git rev-list --no-walk 84490c2d22f9aabc7259d127ee951d8364fd1cc3 # timeout=10

[Pipeline] }

[Pipeline] // stage

[Pipeline] withEnv

[Pipeline] {

[Pipeline] withEnv

[Pipeline] {

[Pipeline] stage

[Pipeline] { (Checkout Code)

[Pipeline] git

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/Aayisharifqa/jenkins.git

Fetching upstream changes from https://github.com/Aayisharifqa/jenkins.git

> git --version # timeout=10

Dashboard > ci-cd-pipeline > #10

```
#6 [2/5] WORKDIR /app
#6 CACHED

#7 [3/5] COPY requirements.txt /app/
#7 CACHED

#8 [4/5] RUN pip install --no-cache-dir -r requirements.txt
#8 CACHED

#9 [5/5] COPY . /app
#9 CACHED

#10 exporting to image
#10 exporting layers done
#10 writing image sha256:e205bfdb32910e09d6460ccab458c239d271ed6d12434c92fc702cad7306bc09 done
#10 naming to docker.io/library/ci-cd-pipeline_app 0.0s done
#10 DONE 0.0s
Image for service app was built because it did not already exist. To rebuild this image you must use `docker-compose
build` or `docker-compose up --build`.
Creating ci-cd-pipeline_db_1 ...
Creating ci-cd-pipeline_redis_1 ...
Creating ci-cd-pipeline_db_1 ... done
Creating ci-cd-pipeline_redis_1 ... done
Creating ci-cd-pipeline_app_1 ...
Creating ci-cd-pipeline_app_1 ... done
[Pipeline]
```

← → ↺ localhost:8080/job/ci-cd-pipeline/10/console

Dashboard > ci-cd-pipeline > #10

```
Creating ci-cd-pipeline_app_1 ...
Creating ci-cd-pipeline_app_1 ... done
[Pipeline] }
[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
```

REST API Jenkins 2.492.2