TASK 2

1. Open Jenkins and click "New Item."

2. Enter a project name, select "Pipeline," and click "OK."

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

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

5. In the SCM field, choose "Git" and enter your GitHub repository URL.

6. Ensure your repository contains the following files:

7. app.py (Application code)

8. Dockerfile (Instructions to build the Docker image)

9. docker-compose.yml (For container orchestration)

10.   Jenkinsfile (Defines the pipeline stages)

11.   requirements.txt (Application dependencies)

12.   Click "Save" to apply the configuration.

13.   On the project page, click "Build Now" to start the job.

14.   The Build History panel (left-side panel) will display the build status.

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

CIpip ×   devops   Gemini   (no sub   Setup   New Ta   +

localhost:8080/job/CIpipeline/22/consol   70%

Dashboard   CIpipeline   #22

Console Output   Download   Copy   View as plain text

```
Started by user Ashwin V
Obtained jenkinsfile from git https://github.com/veluashwin/devops.git
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/CIpipeline
[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 docker-hub
Cloning the remote Git repository
Cloning repository https://github.com/veluashwin/devops.git
 > git init /var/lib/jenkins/workspace/CIpipeline # timeout=10
Fetching upstream changes from https://github.com/veluashwin/devops.git
 > git --version # timeout=10
 > git --version # 'git version 2.34.1'
using GIT_ASKPASS to set credentials
 > git fetch --tags --force --progress -- https://github.com/veluashwin
/devops.git +refs/heads/*:refs/remotes/origin/* # timeout=10
```

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localhost:8080/job/CIpipeline/22/consol   70%

Dashboard   CIpipeline   #22

```
Creating cipipeline_db_1      ...
Creating cipipeline_redis_1 ... done
Creating cipipeline_db_1      ... done
Creating cipipeline_app_1    ...
Creating cipipeline_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 2.501