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.

CI-CD #16 Console [Jenki × DevOps-Task/jenkinsfile a × Repositories | kisanths × Jenkins Docker Permissic × Fwd: Document from Gol × +

localhost:8080/job/CI-CD/16/console   80%

Jenkins

🔍   2   👤 Kisanth S ⌄   log out

Dashboard > CI-CD > #16

- Status
- Changes
- Console Output
- Edit Build Information
- Timings
- Git Build Data
- Pipeline Overview
- Pipeline Console
- Thread Dump
- Pause/resume
- Replay
- Pipeline Steps
- Workspaces
- ← Previous Build

✓ **Console Output**

⬇ Download   📋 Copy   View as plain text

```
Started by user Kisanth S
Checking out git https://github.com/KisanthS/DevOps-Task.git into /var/lib/jenkins/workspace/CI-
CD@script/19d4b25e7eeb9a8f2e2bb5608a8ba29744fbb24bb5780c1e7076364ff994fdc4 to read jenkinsfile
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@script/19d4b25e7eeb9a8f2e2bb5608a8ba29744fbb24bb5780c1e7076364ff994fdc4/.git # timeout=10
Fetching changes from the remote Git repository
 > git config remote.origin.url https://github.com/KisanthS/DevOps-Task.git # timeout=10
Fetching upstream changes from https://github.com/KisanthS/DevOps-Task.git
 > git --version # timeout=10
 > git --version # 'git version 2.43.0'
using GIT_ASKPASS to set credentials
 > git fetch --tags --force --progress -- https://github.com/KisanthS/DevOps-Task.git +refs/heads/*:refs/remotes/origin/* # timeout=10
 > git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision ca264802474ea214a26a44b8d7a51c6425d16e22 (refs/remotes/origin/main)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f ca264802474ea214a26a44b8d7a51c6425d16e22 # timeout=10
Commit message: "Update jenkinsfile"
 > git rev-list --no-walk ca264802474ea214a26a44b8d7a51c6425d16e22 # timeout=10
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/CI-CD
```

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localhost:8080/job/CI-CD/16/console   80%

Dashboard > CI-CD > #16

```
[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/.git # timeout=10
Fetching changes from the remote Git repository
 > git config remote.origin.url https://github.com/KisanthS/DevOps-Task.git # timeout=10
Fetching upstream changes from https://github.com/KisanthS/DevOps-Task.git
 > git --version # timeout=10
 > git --version # 'git version 2.43.0'
using GIT_ASKPASS to set credentials
 > git fetch --tags --force --progress -- https://github.com/KisanthS/DevOps-Task.git +refs/heads/*:refs/remotes/origin/* # timeout=10
 > git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision ca264802474ea214a26a44b8d7a51c6425d16e22 (refs/remotes/origin/main)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f ca264802474ea214a26a44b8d7a51c6425d16e22 # timeout=10
Commit message: "Update jenkinsfile"
[Pipeline] }
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Checkout Code)
[Pipeline] git
```

CI-CD #16 Console [Jenki × DevOps-Task/jenkinsfile a × Repositories | kisanths × Jenkins Docker Permissio × Fwd: Document from Gol × +

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Dashboard > CI-CD > #16

```
Fetching upstream changes from https://github.com/KisanthS/DevOps-Task.git
 > git --version # timeout=10
 > git --version # 'git version 2.43.0'
using GIT_ASKPASS to set credentials
 > git fetch --tags --force --progress -- https://github.com/KisanthS/DevOps-Task.git +refs/heads/*:refs/remotes/origin/* # timeout=10
 > git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision ca264802474ea214a26a44b8d7a51c6425d16e22 (refs/remotes/origin/main)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f ca264802474ea214a26a44b8d7a51c6425d16e22 # timeout=10
 > git branch -a -v --no-abbrev # timeout=10
 > git branch -D main # timeout=10
 > git checkout -b main ca264802474ea214a26a44b8d7a51c6425d16e22 # timeout=10
Commit message: "Update jenkinsfile"
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build Docker Image)
[Pipeline] script
[Pipeline] {
[Pipeline] sh
+ docker build -t kisanths/my-app:latest .
#0 building with "default" instance using docker driver

#1 [internal] load build definition from Dockerfile
#1 transferring dockerfile: 454B done
#1 DONE 0.0s

#2 [auth] library/python:pull token for registry-1.docker.io
#2 DONE 0.0s
```

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localhost:8080/job/CI-CD/16/console   80%

Dashboard > CI-CD > #16

```
#6 DONE 0.1s

#7 [2/5] WORKDIR /app
#7 CACHED

#8 [3/5] COPY requirements.txt /app/
#8 CACHED

#9 [4/5] RUN pip install --no-cache-dir -r requirements.txt
#9 CACHED

#10 [5/5] COPY . /app
#10 DONE 0.2s

#11 exporting to image
#11 exporting layers 0.1s done
#11 writing image sha256:de5d3bbf1538697666a5d4e7912f42e12440ff21a9cd44246271577a319ef992 done
#11 naming to docker.io/kisanths/my-app:latest
#11 naming to docker.io/kisanths/my-app:latest 0.0s done
#11 DONE 0.1s
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Login to Docker Registry)
[Pipeline] script
[Pipeline] {
[Pipeline] withCredentials
Masking supported pattern matches of $DOCKER_PASS
```

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localhost:8080/job/CI-CD/16/console   80%

Dashboard > CI-CD > #16

```
15ca4c67ed92 Pulling fs layer
4f18957d9158 Pulling fs layer
404c53e09e31 Pulling fs layer
9e4acb9ca7d3 Pulling fs layer
d8d8fb695a5a Waiting
83efd74bc97e Waiting
4f18957d9158 Waiting
215ba3ecdc26 Waiting
15ca4c67ed92 Waiting
404c53e09e31 Waiting
8f4971a5dfe7 Pulling fs layer
9e4acb9ca7d3 Waiting
8f4971a5dfe7 Waiting
fa05f5234346 Downloading [>                                          ]  2.738kB/171.6kB
f18232174bc9 Downloading [>                                          ]  37.46kB/3.642MB
f18232174bc9 Downloading [>                                          ]  37.46kB/3.642MB
fa05f5234346 Downloading [=================================================>]  171.6kB/171.6kB
fa05f5234346 Verifying Checksum
fa05f5234346 Download complete
16cd0457255f Downloading [========================================>         ]      720B/949B
16cd0457255f Downloading [=================================================>]      949B/949B
16cd0457255f Download complete
f18232174bc9 Downloading [=====>                                     ]  425.2kB/3.642MB
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f18232174bc9 Downloading [===============>                           ]  1.15MB/3.642MB
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```

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localhost:8080/job/CI-CD/16/console   80%

Dashboard > CI-CD > #16

```
215ba3ecdc26 Downloading [==============>                  ]  32.29MB/106MB
215ba3ecdc26 Downloading [==============>                  ]  33.37MB/106MB
215ba3ecdc26 Downloading [===============>                 ]  34.45MB/106MB
215ba3ecdc26 Downloading [===============>                 ]  34.99MB/106MB
215ba3ecdc26 Downloading [================>                ]  36.07MB/106MB
215ba3ecdc26 Downloading [================>                ]  37.69MB/106MB
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215ba3ecdc26 Downloading [==================>              ]  40.38MB/106MB
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215ba3ecdc26 Downloading [===================>             ]  43.08MB/106MB
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215ba3ecdc26 Downloading [========================>        ]  53.87MB/106MB
```

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localhost:8080/job/CI-CD/16/console   80%

Dashboard > CI-CD > #16

```
#1 [app internal] load build definition from Dockerfile
#1 transferring dockerfile: 454B 0.0s done
#1 DONE 0.0s

#2 [app internal] load metadata for docker.io/library/python:3.11-slim
#2 DONE 2.2s

#3 [app internal] load .dockerignore
#3 transferring context: 2B done
#3 DONE 0.0s

#4 [app 1/5] FROM docker.io/library/python:3.11-slim@sha256:7029b00486ac40bed03e36775b864d3f3d39dcbdf19cd45e6a52d541e6c178f0
#4 DONE 0.0s

#5 [app internal] load build context
#5 transferring context: 5.15kB 0.1s done
#5 DONE 0.1s

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

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

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

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

CI-CD #16 Console [Jenki × | DevOps-Task/jenkinsfile a × | Repositories | kisanths × | Jenkins Docker Permissio × | M Fwd: Document from Gol × | +

localhost:8080/job/CI-CD/16/console   80%

Dashboard > CI-CD > #16

```
Container ci-cd-db-1  Starting
Container ci-cd-redis-1  Starting
Container ci-cd-redis-1  Started
Container ci-cd-db-1  Started
Container ci-cd-app-1  Starting
Container ci-cd-app-1  Started
[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