

# 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.

BalaJagadeesh22/Devops x Task 2 #11 Console [Jenki x]

localhost:8080/job/Task 2/11/console

# Jenkins

Dashboard > Task 2 > #11

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

## Console Output

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```
Started by user BALAJAGADEESH M
Obtained Jenkinsfile from git https://github.com/BalaJagadeesh22/Devops-Training.git
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/Task 2
[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/Task 2/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/BalaJagadeesh22/Devops-Training.git #
timeout=10
Fetching upstream changes from https://github.com/BalaJagadeesh22/Devops-Training.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/BalaJagadeesh22/Devops-
```

BalaJagadeesh22/Devops x Task 2 #11 Console [Jenki x]

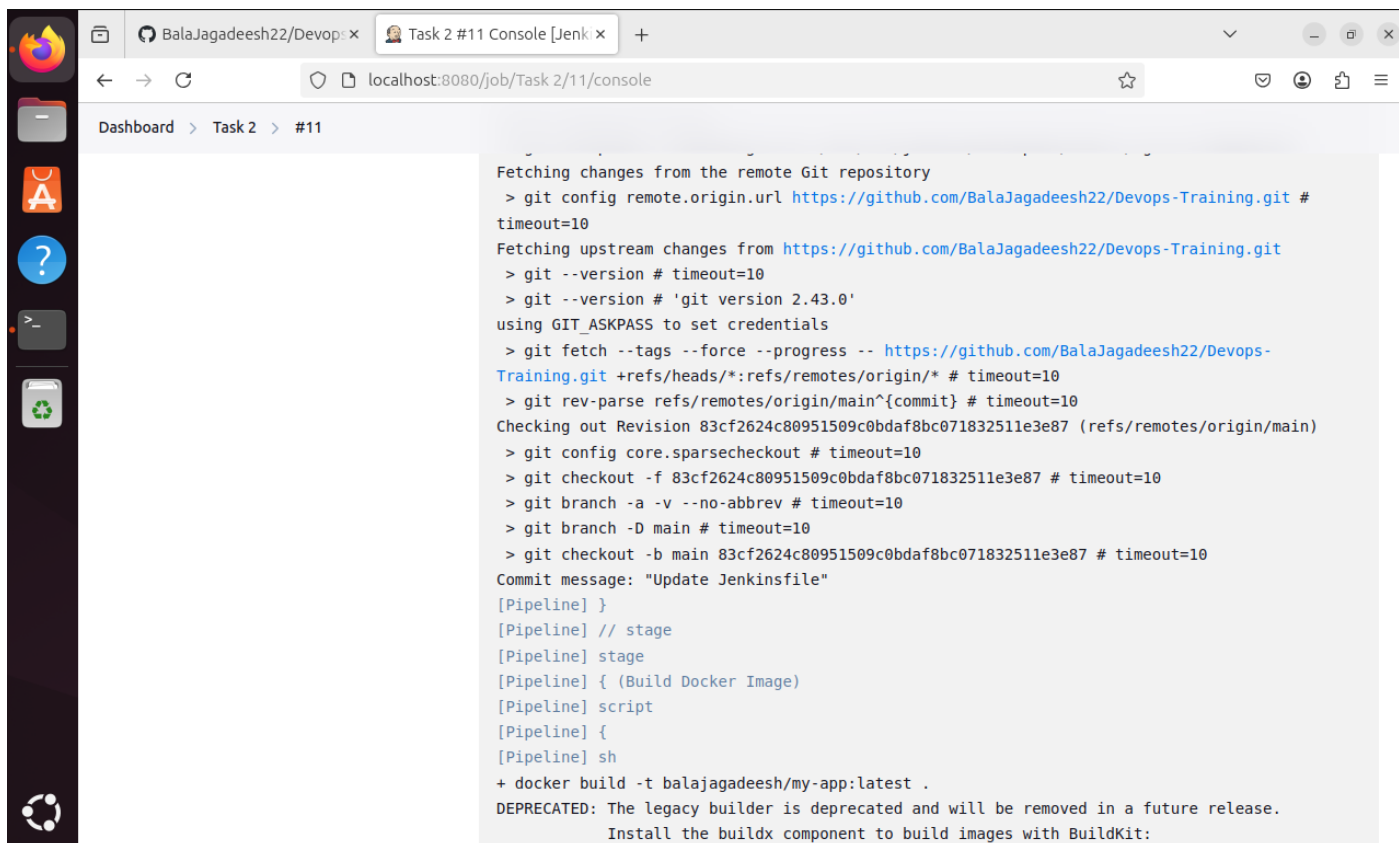
localhost:8080/job/Task 2/11/console

# Jenkins

Dashboard > Task 2 > #11

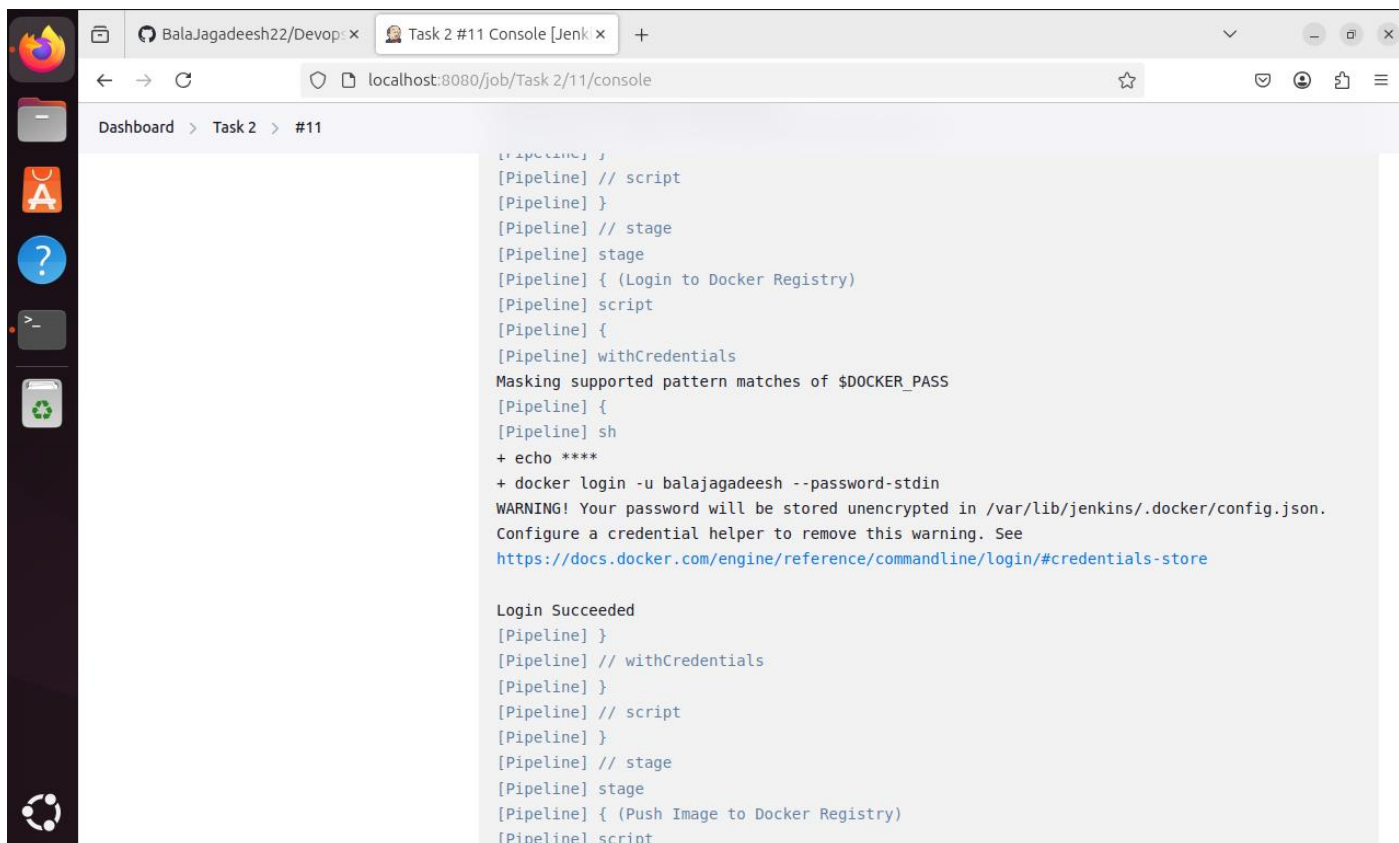
- Pipeline Steps
- Workspaces
- Previous Build

```
> 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/BalaJagadeesh22/Devops-
Training.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 83cf2624c80951509c0bdaf8bc071832511e3e87 (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f 83cf2624c80951509c0bdaf8bc071832511e3e87 # timeout=10
Commit message: "Update Jenkinsfile"
> git rev-list --no-walk 83cf2624c80951509c0bdaf8bc071832511e3e87 # 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/Task 2/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/BalaJagadeesh22/Devops-Training.git #
timeout=10
```



```
Dashboard > Task 2 > #11

Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/BalaJagadeesh22/Devops-Training.git #
timeout=10
Fetching upstream changes from https://github.com/BalaJagadeesh22/Devops-Training.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/BalaJagadeesh22/Devops-
Training.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 83cf2624c80951509c0bdaf8bc071832511e3e87 (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f 83cf2624c80951509c0bdaf8bc071832511e3e87 # timeout=10
> git branch -a -v --no-abbrev # timeout=10
> git branch -D main # timeout=10
> git checkout -b main 83cf2624c80951509c0bdaf8bc071832511e3e87 # timeout=10
Commit message: "Update Jenkinsfile"
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build Docker Image)
[Pipeline] script
[Pipeline] {
[Pipeline] sh
+ docker build -t balajagadeesh/my-app:latest .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
Install the buildx component to build images with BuildKit:
```



```
Dashboard > Task 2 > #11

[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
[Pipeline] {
[Pipeline] sh
+ echo ****
+ docker login -u balajagadeesh --password-stdin
WARNING! Your password will be stored unencrypted in /var/lib/jenkins/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
[Pipeline] }
[Pipeline] // withCredentials
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Push Image to Docker Registry)
[Pipeline] script
```

```
Dashboard > Task 2 > #11

9e4acd9ca/d3 waiting
8f4971a5dfe7 Waiting
f18232174bc9 Downloading [=====] ]
817.4kB/3.642MB
f18232174bc9 Downloading [=====] ]
817.4kB/3.642MB
f18232174bc9 Downloading [=====] ]
1.899MB/3.642MB
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3.07MB/3.642MB
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f18232174bc9 Extracting [=====] ]
786.4kB/3.642MB
```

```
Dashboard > Task 2 > #11

97.33MB/106MB
215ba3ecdc26 Downloading [=====] ]
97.87MB/106MB
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105.4MB/106MB
215ba3ecdc26 Verifying Checksum
215ba3ecdc26 Download complete
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215ba3ecdc26 Extracting [>] ] 1.114MB/106MB
215ba3ecdc26 Extracting [>] ] 1.671MB/106MB
215ba3ecdc26 Extracting [=] ] 2.228MB/106MB
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