

## Assignment 2

### Jenkins Pipeline for Software Automation

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A Jenkins Pipeline is used to streamline the **building, testing, and deployment** process by automating each stage of software development.

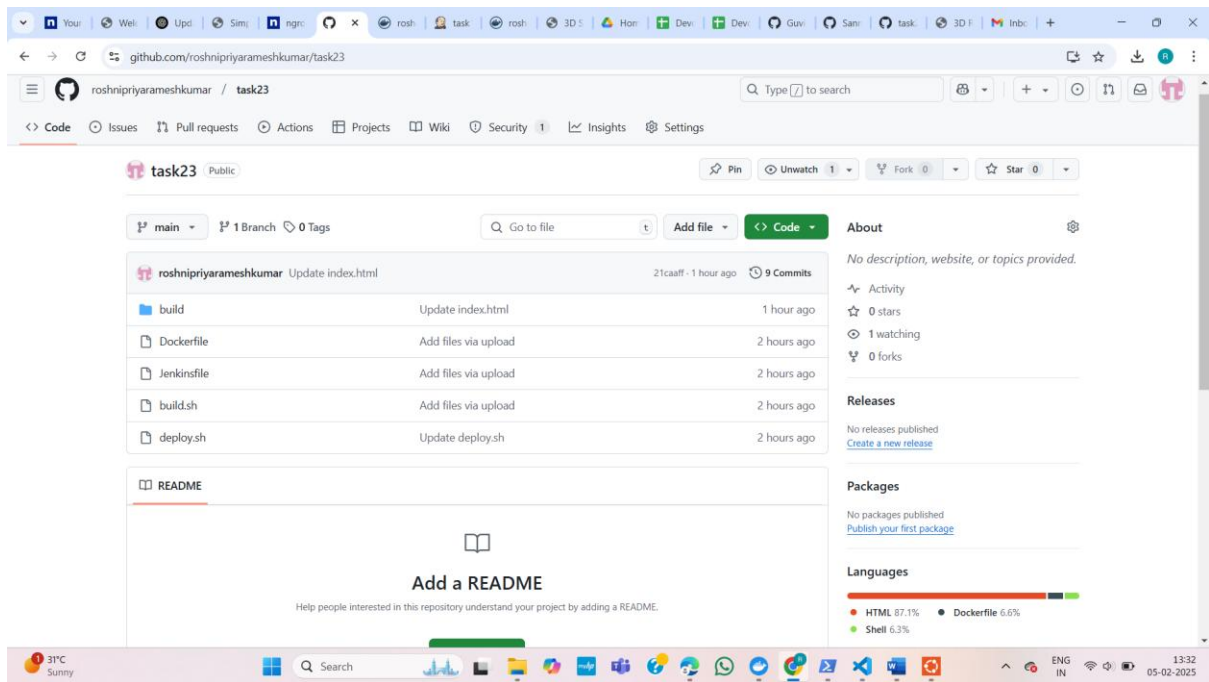
#### Step 1: Access Jenkins and Create a Pipeline

1. Sign in to Jenkins.
2. Navigate to "**New Item**" on the dashboard.
3. Provide a suitable name for the pipeline.
4. Select "**Pipeline**" as the project type.
5. Click "**OK**" to continue.

#### Step 2: Configure the Pipeline

#### Step 3: Specify the Pipeline Script

1. Choose "**Pipeline script from SCM**" under the **Pipeline Definition** section.
2. Select "**Git**" as the version control system.
3. Enter the repository URL containing the pipeline script.
4. Define the **script path** as Jenkins file



## Console Output:

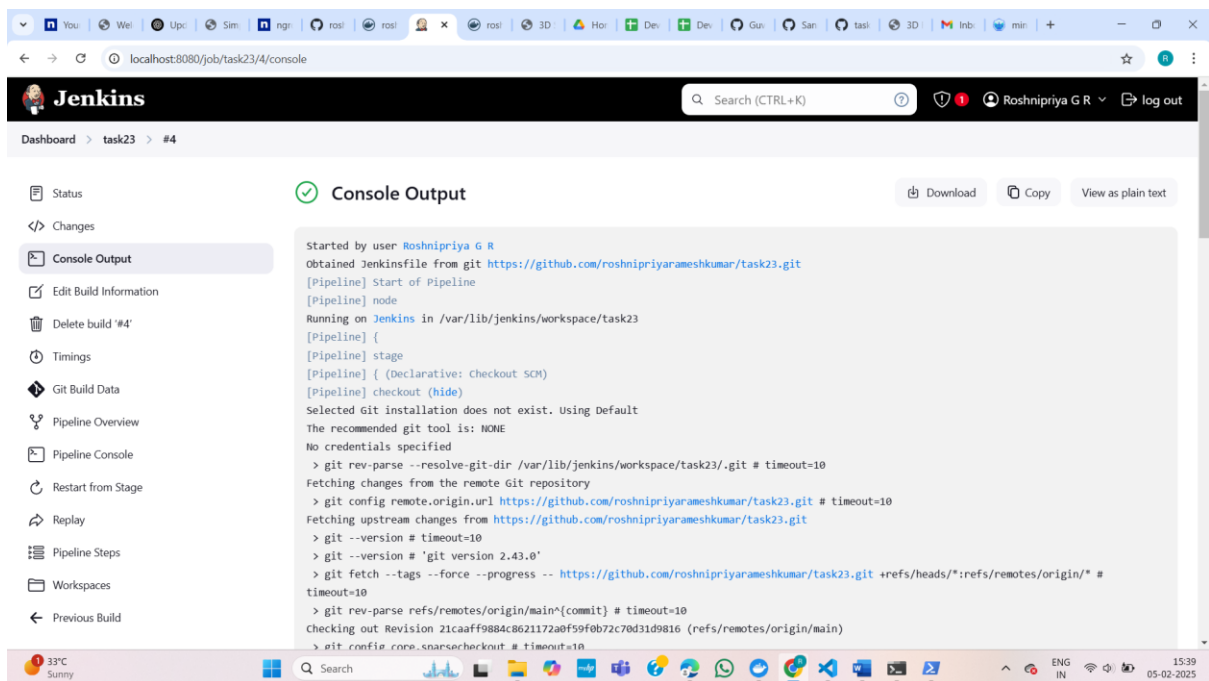


Image pushed in docker hub:

roshni178 / Repositories / task / Tags

roshni178/task  
Last pushed 2 minutes ago

Add a description  
Add a category

General Tags Builds Collaborators Webhooks Settings

Sort by Newest Filter tags Delete

| TAG    | Digest       | OS/ARCH     | Last pull   | Compressed size |
|--------|--------------|-------------|-------------|-----------------|
| latest | c4a78d7eb352 | linux/amd64 | 3 hours ago | 68.72 MB        |

docker pull roshni178/task:latest

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roshni178 / task23

task23 / deploy.sh

```
1 #!/bin/bash
2 echo hi123
3 sh 'chmod +x build.sh'
4 sh './build.sh'
5 docker login -u roshni178 -p Foxowlviya@21
6 docker tag test roshni178/task
7 docker push roshni178/task
8
```

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```
root@Abhinavkrishna:~# chmod 777 /var/run/docker.sock
root@Abhinavkrishna:~# docker pull roshni178/task:latest
latest: Pulling from roshni178/task
Digest: sha256:c4a78d7eb3524dc397744cf39adc9943472da30d1c0e4c3f9e4fcd4930238884
Status: Image is up to date for roshni178/task:latest
docker.io/roshni178/task:latest
root@Abhinavkrishna:~# docker run -itd -p 93:80 roshni178/task:latest
071ee852b8293b100d613133169df1ab0309310865d3f38f493d3c88e762b968
root@Abhinavkrishna:~#
```


Dashboard > task23 > #3

```
-----
The push refers to repository [docker.io/roshni178/task]
86ba431afd73: Preparing
e2eb04df0bda: Preparing
1b78ffef68d1: Preparing
16649054d94a: Preparing
a280e15d559d: Preparing
0b2dafd61482: Preparing
2cdcaebcf23c: Preparing
7914cf600f5: Preparing
7914cf600f5: Waiting
2cdcaebcf23c: Waiting
0b2dafd61482: Waiting
a280e15d559d: Mounted from roshni178/task22
1b78ffef68d1: Mounted from roshni178/task22
e2eb04df0bda: Mounted from roshni178/task22
16649054d94a: Mounted from roshni178/task22
86ba431afd73: Pushed
2cdcaebcf23c: Mounted from roshni178/task22
0b2dafd61482: Mounted from roshni178/task22
7914cf600f5: Mounted from roshni178/task22
latest: digest: sha256:c4a78d7eb3524dc397744cf39adc9943472da30d1c0e4c3f9e4fcd4930238884 size: 1986
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

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```
root@Abhinavkrishna:~# systemctl start jenkins
root@Abhinavkrishna:~# chmod 777 /var/run/docker.sock
root@Abhinavkrishna:~# docker pull roshni178/task:latest
latest: Pulling from roshni178/task
Digest: sha256:c4a78d7eb3524dc397744cf39adc9943472da30d1c0e4c3f9e4fcd4930238884
Status: Image is up to date for roshni178/task:latest
docker.io/roshni178/task:latest
root@Abhinavkrishna:~# docker run -itd -p 93:80 roshni178/task:latest
071ee852b8293b100d613133169df1ab0309310865d3f38f493d3c88e762b968
root@Abhinavkrishna:~# docker run -itd -p 94:80 roshni178/task:latest
c90655501c01ae79e5378a9e70dc9b35393a2c1d78cb15556c2664b624e2830c
root@Abhinavkrishna:~#
```

localhost:94



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