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22ISR045

A **Jenkins Pipeline** is used to **automate the process of building, testing, and deploying software**.

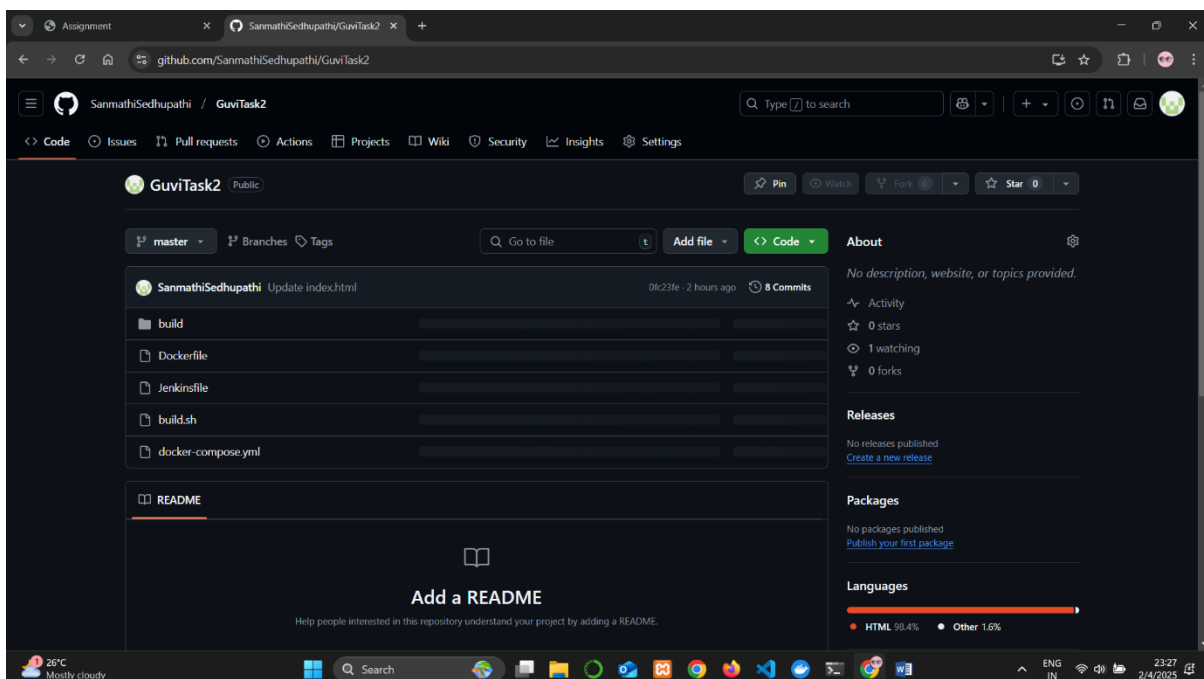**Step 1: Open Jenkins and Create a New Pipeline**

1. Log in to Jenkins.
2. Click on "New Item"
3. Enter a name for the pipeline
4. Select "Pipeline" as the item type.
5. Click "OK" to proceed.

Step 2: Configure the Pipeline

Step 3: Define the Pipeline Script

Using Jenkinsfile from SCM

1. Select "Pipeline script from SCM".
2. Choose "Git" and enter the repository URL.
3. Set the script path to Jenkinsfile.

Dashboard > Task2Taskmates > Configuration

Configure

⚙ General

⤴ Pipeline

🔧 Advanced

Define your Pipeline using Groovy directly or pull it from source control.

Definition

Pipeline script from SCM ⌄

SCM ?

Git ⌄ ?

Repositories ?

Repository URL ?   ✕

https://github.com/SanmathiSedhupathi/GuviTask2.git

Credentials ?

- none - ⌄

+ Add

Advanced ⌄

Add Repository

Configure

⚙ General

⤴ Pipeline

🔧 Advanced

Branches to build ?

Branch Specifier (blank for 'any') ?   ✕

*/master

Add Branch

Repository browser ?

(Auto) ⌄

Additional Behaviours

Add ⌄

Script Path ?

Jenkinsfile

☑ Lightweight checkout ?
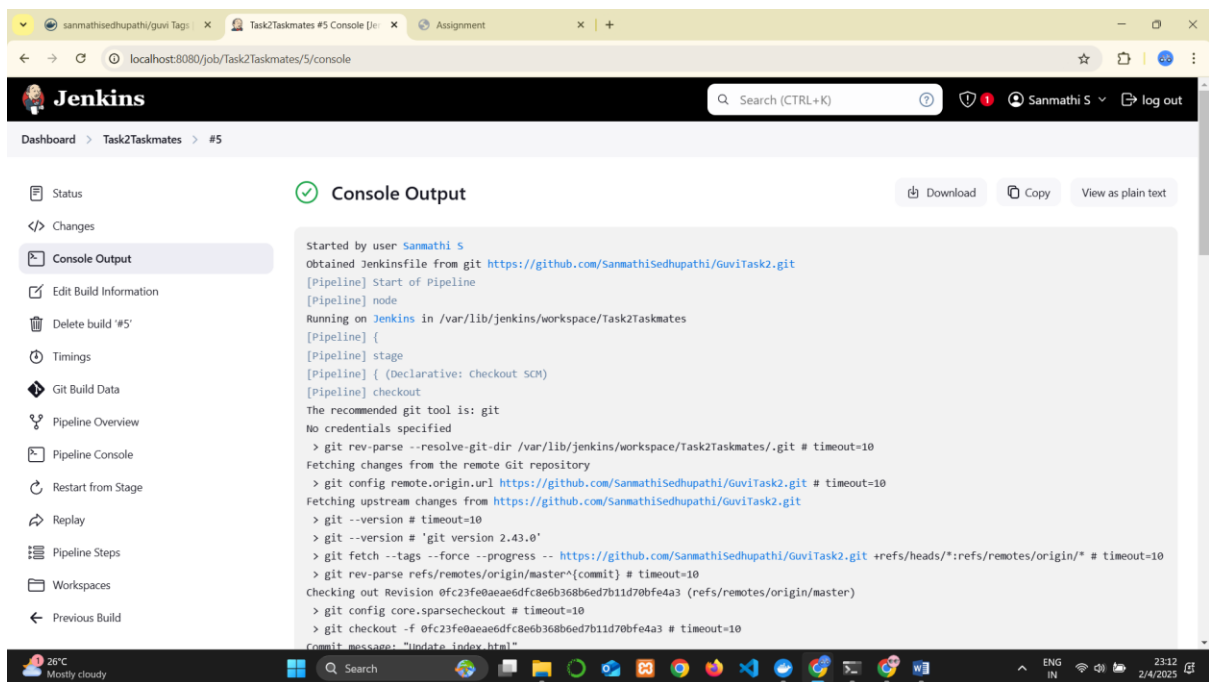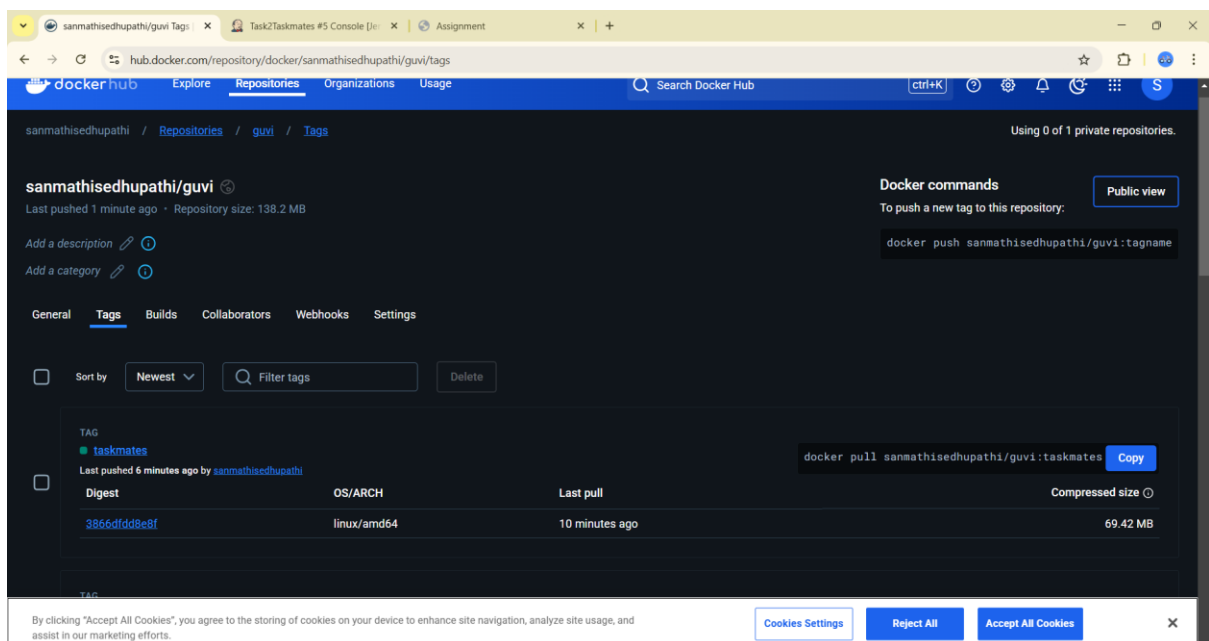
Save   Apply

Console Output

Image pushed into docker hub

Pulling the image

```
root@DESKTOP-QHV714I:~# docker pull sanmathisedhupathi/guvi:taskmates
taskmates: Pulling from sanmathisedhupathi/guvi
Digest: sha256:3866dfdd8e8f7639760bfb5d41e2a910c75e5911efdef95df4f597bf3faab771
Status: Image is up to date for sanmathisedhupathi/guvi:taskmates
docker.io/sanmathisedhupathi/guvi:taskmates
```

```
root@DESKTOP-QHV714I:~# docker run -itd -p 90:80 taskmates
5b11b3e6690bc75f86364871b58e7b763f93b3b47b0dc88d6a92ada5bc223a75
root@DESKTOP-QHV714I:~# docker ps
CONTAINER ID   IMAGE       COMMAND                CREATED           STATUS           PORTS                                      NAMES
5b11b3e6690b   taskmates   "/docker-entrypoint.…" About a minute ago Up About a minute 0.0.0.0:90->80/tcp, :::90->80/tcp   amazing_gagarin
root@DESKTOP-QHV714I:~#
```
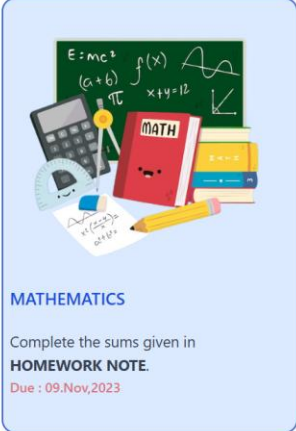
http://localhost:90