## DAY 2 -- JENKINS PIPELINE

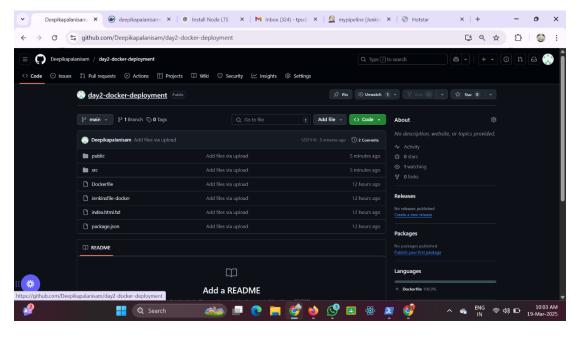


Fig 1 Github repository

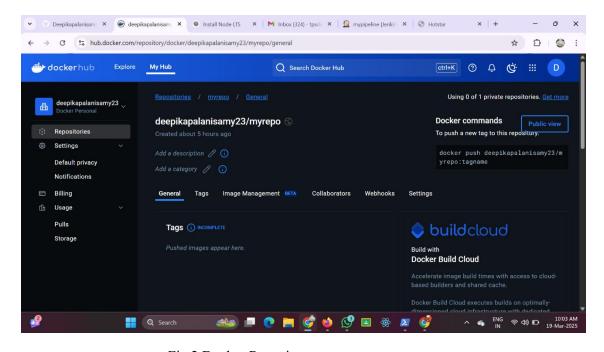


Fig 2 Docker Repository

## PIPELINE SCRIPT

```
pipeline {
  agent any
  tools {
    jdk 'jdk17'
     nodejs 'node20'
  }
  stages {
     stage('Clean Workspace') {
       steps {
          script \ \{
            echo "Cleaning workspace..."
            deleteDir()
          }
     stage('Git Checkout') {
       steps {
          script {
            git branch: 'main',
               credentialsId: 'github_seccred',
               url: 'https://github.com/Deepikapalanisam/day2-docker-deployment.git'
          }
     stage('Install Node') {
       steps {
          script {
```

```
sh "
       if [ -f package.json ]; then
         echo "package.json found. Running npm install..."
         npm install
       else
         echo "ERROR: package.json is missing. Skipping npm install."
         exit 1
       fi
stage('Docker Build & Push') {
  steps {
    script {
       withDockerRegistry(credentialsId: 'docker', toolName: 'docker') {
         def imageName = "deepikapalanisamy23/myrepo"
         def tag = "latest"
         sh "docker build -t ${imageName} ."
         sh "docker tag ${imageName} ${imageName}:${tag}"
         sh "docker push ${imageName}:${tag}"
stage('Deploy Docker Container') {
  steps {
    script {
       sh "docker stop jusjes_container || true"
```

sh "docker rm jusjes\_container || true" sh "docker run -d --name jusjes\_container -p 3001:3000 deepikapalanisamy23/myrepo:latest" Deepikapalanisam/ X | 🕝 deepikapalanisam/ X | 🚳 Install Node LTS X | M Inbox (324) - tpsdr X | 🙎 mypipeline #9 Con X | 🕙 localhost Q ☆ Ď : **Jenkins** ♠ ● Deepika 

□ log out

□ l Dashboard > mypipeline > #9 Download Copy View as plain text ■ Status Console Output </>
Changes Started by user Deepika Console Output [Pipeline] Start of Pipeline [Pipeline] node Edit Build Information Running on Jenkins in /var/lib/jenkins/workspace/mypipeline Delete build '#9' [Pipeline] stage [Pipeline] { (Declarative: Tool Install) Timings [Pipeline] tool Git Build Data [Pipeline] envVarsForTool Pipeline Overview [Pipeline] envVarsForTool [Pipeline] } Pipeline Console [Pipeline] // stage [Pipeline] withEnv [Pipeline] stage [Pipeline] { (Clean Workspace) Pipeline Steps [Pipeline] envVarsForTool 🝅 🧐 🖭 🍪 🗵 Fig 3 Console output 0 ☆ 立 ± 🍪 ։ **Jenkins** ♠ ● Deepika 

□ log out

□ l Dashboard > mypipeline > #10 #10 (Mar 19, 2025, 4:28:30 AM) ■ Status Add description Keep this build forever </>
Changes Started 1 hr 12 min ago Started by user Deepika Console Output Took 2 min 25 see Edit Build Information This run spent: 12 ms waiting;
 2 min 25 sec build duration; Delete build '#10' · 2 min 25 sec total from scheduled to completion. Timings Revision: 12571162f5cfb1a36b8ed97d98248678fb88bae3 Git Build Data Repository: https://github.o Pipeline Overview • refs/remotes/origin/main </>
Changes Pipeline Console Restart from Stage 1. Add files via upload (details / githubweb)

Fig 4 Pipeline status

Replay

Q Search

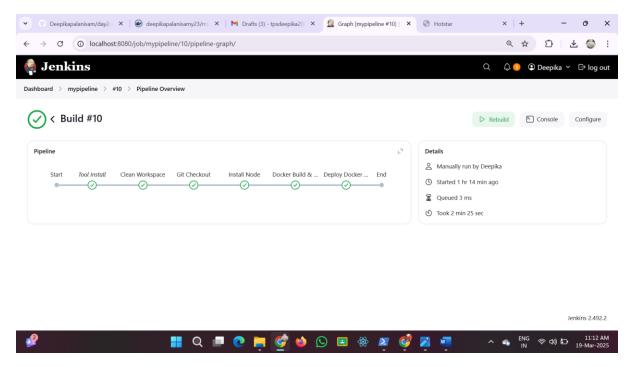


Fig 5 Pipeline overview

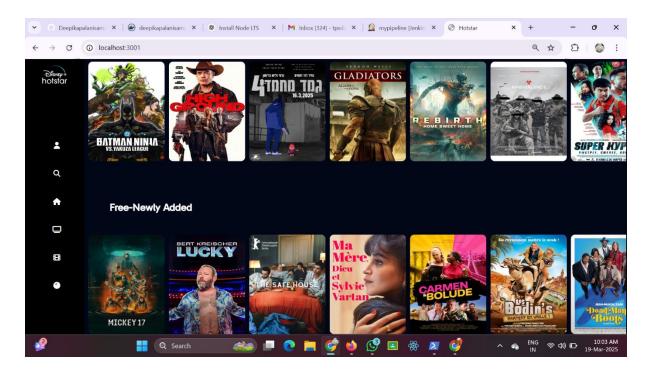


Fig 6 Final Output(localhost:3001)