

## DAY 2 -- JENKINS PIPELINE

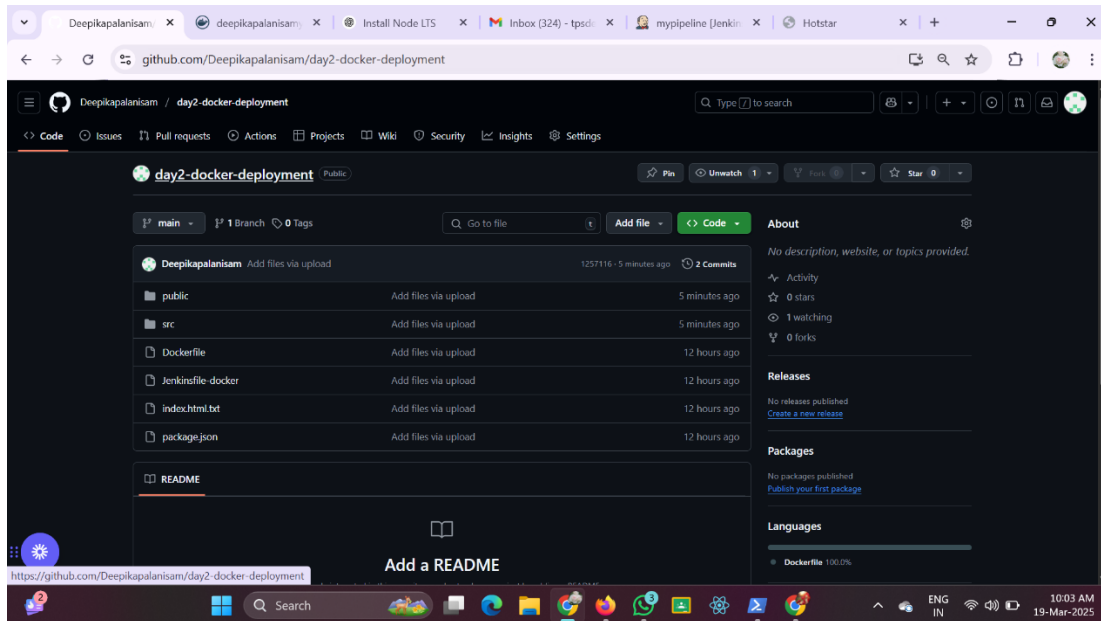


Fig 1 Github repository

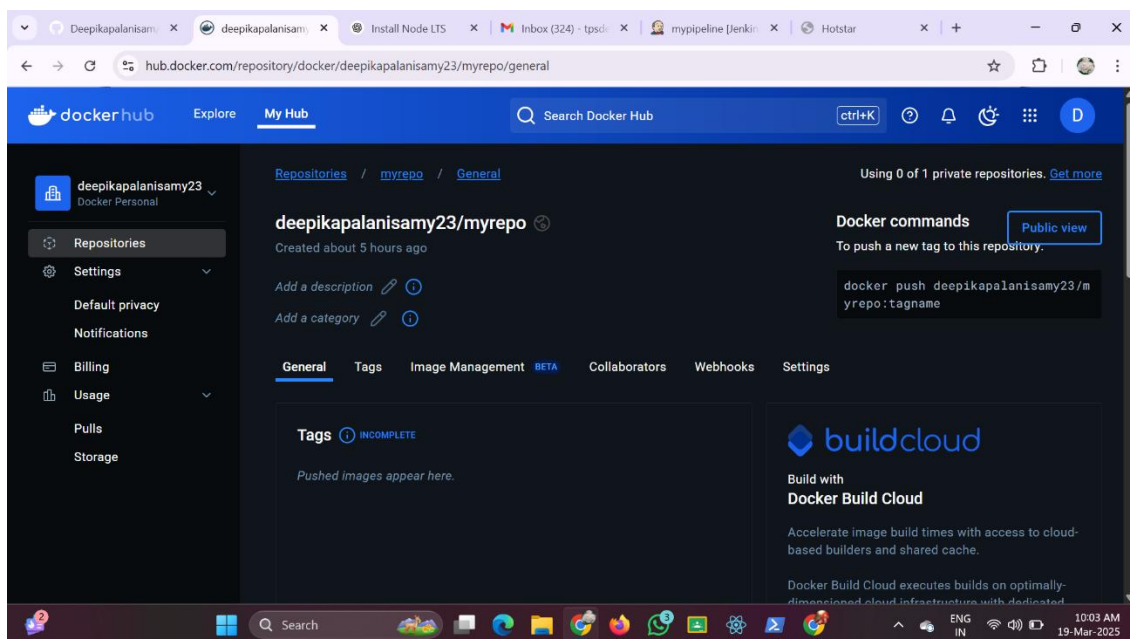


Fig 2 Docker Repository

## 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"

}

}

}

}

```

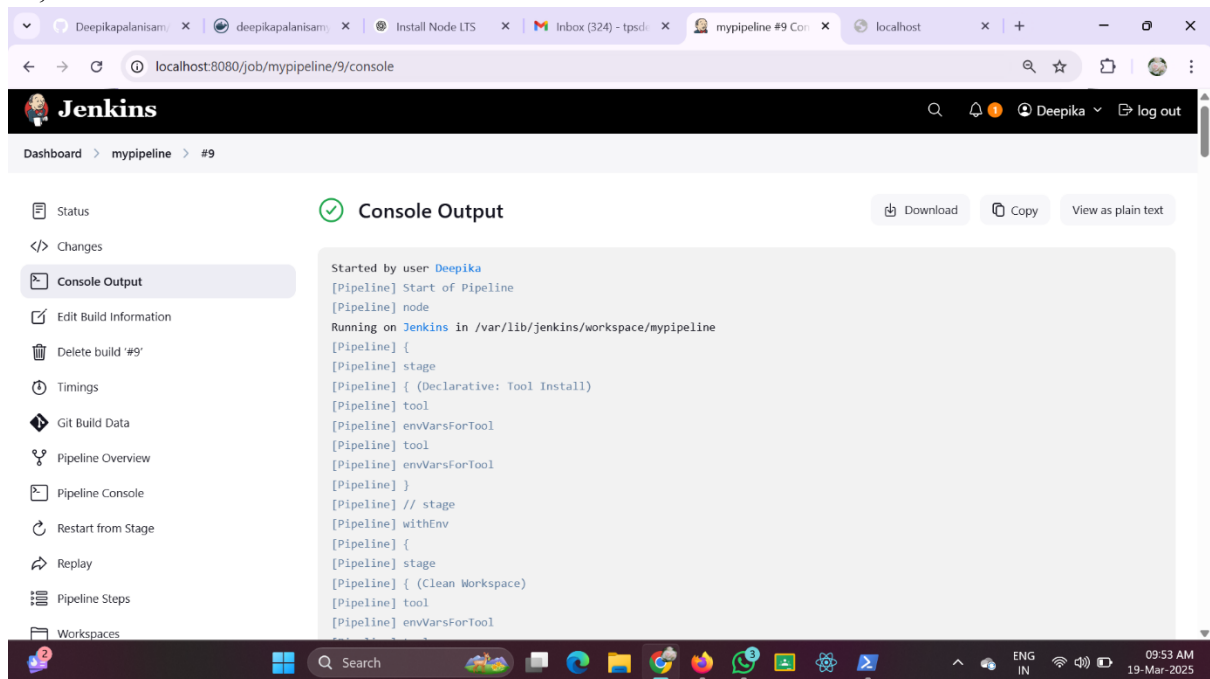


Fig 3 Console output

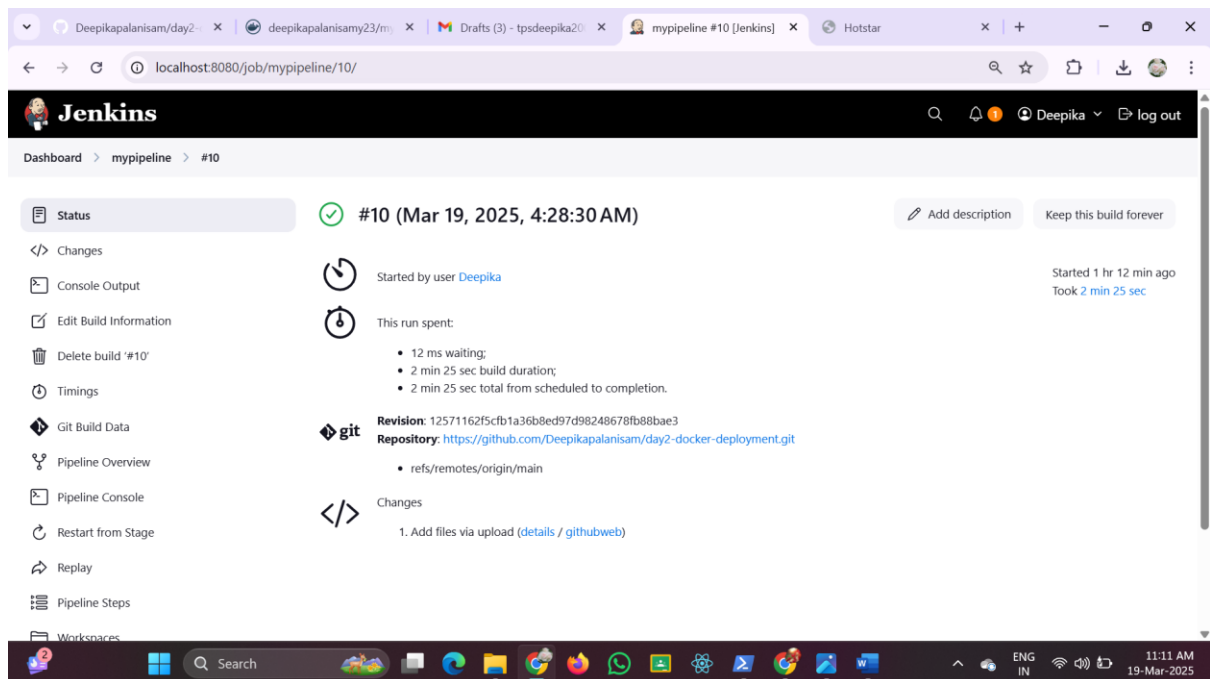


Fig 4 Pipeline status

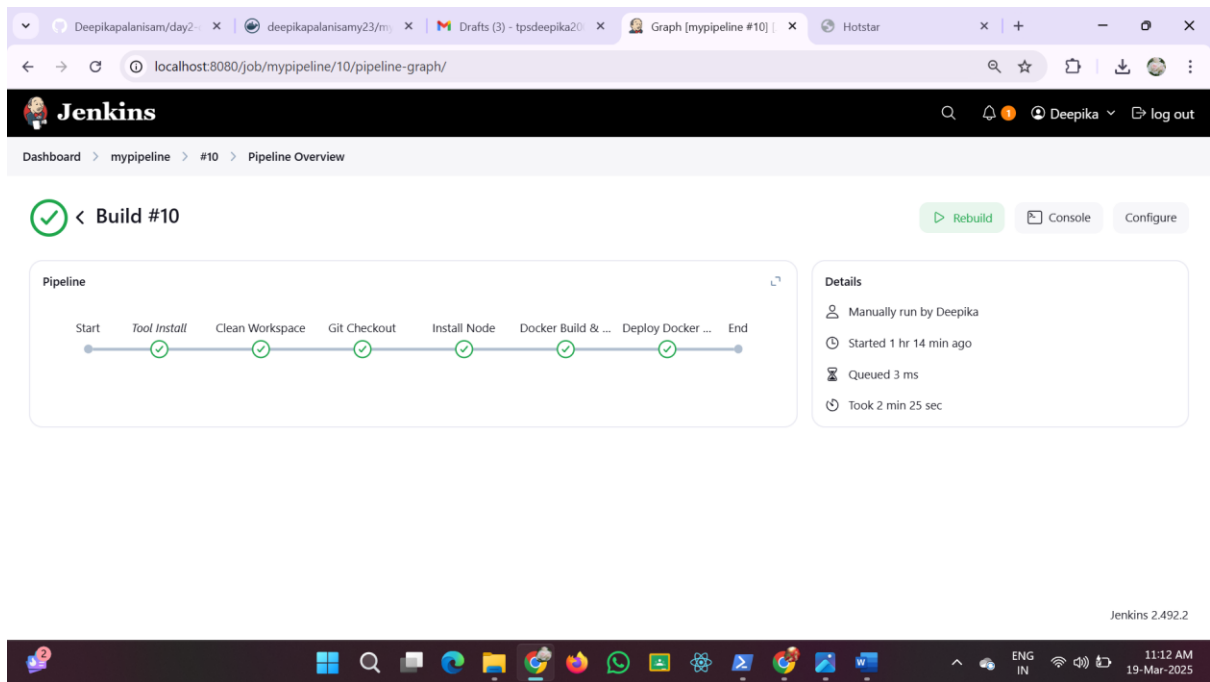


Fig 5 Pipeline overview

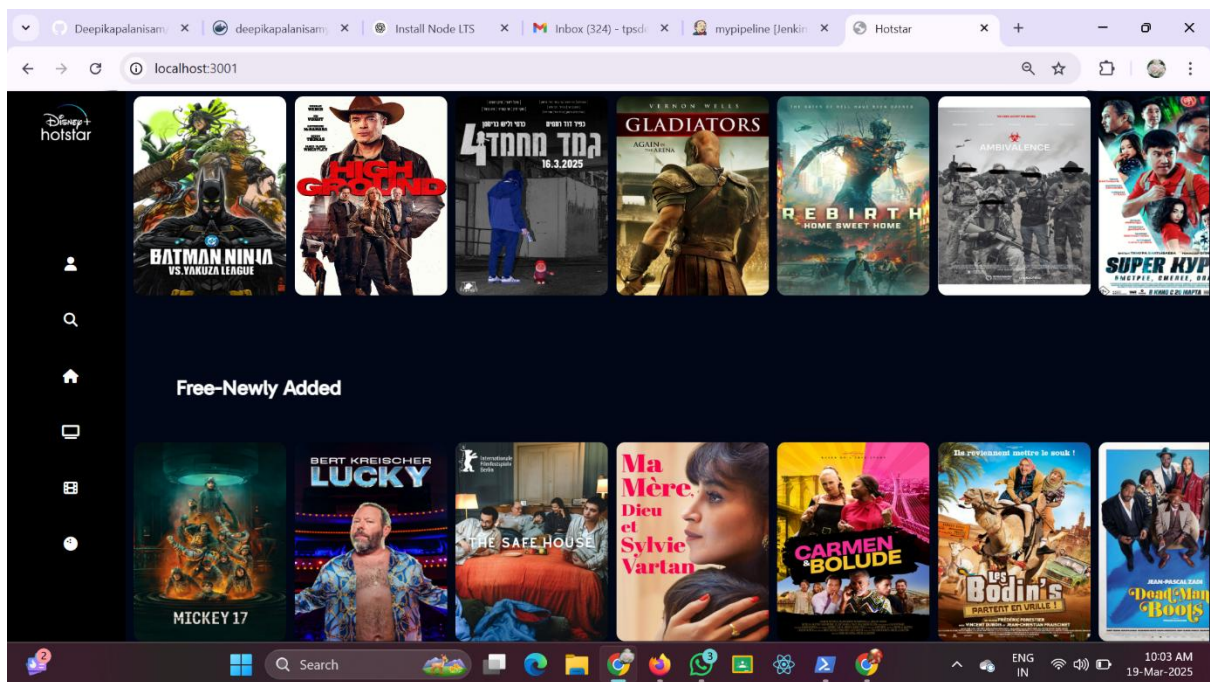


Fig 6 Final Output(localhost:3001)