DAY 2

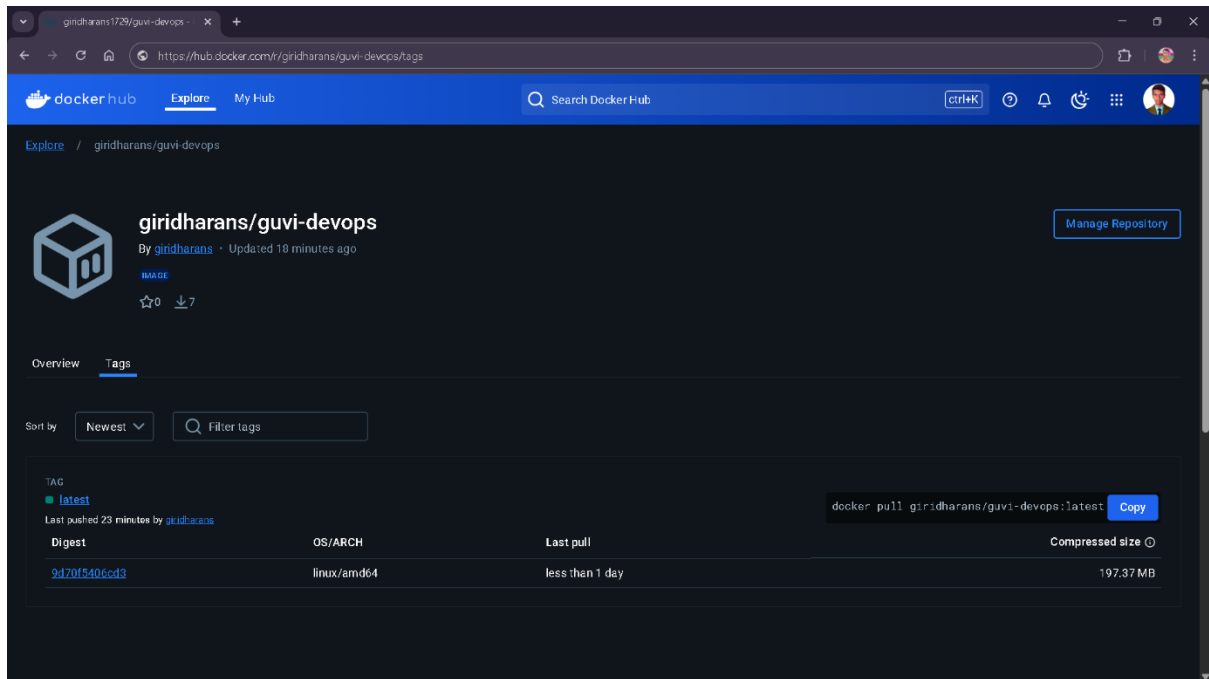*Fig 1: Dcoker Image page*

2.PIPELINE SCRIPT:

```
pipeline {

    agent any

    tools {

        jdk 'jdk21'

        nodejs 'node20'

    }

    stages {

        stage('Clean Workspace') {

            steps {

                script {

                    echo "Cleaning workspace..."

                    deleteDir() // Deletes everything in the Jenkins workspace before starting

                }}}
```

```
stage('Git Checkout') {

    steps {

        script {

            git branch: 'main',

                credentialsId: 'github_seccred',

                url: 'https://github.com/GiridharanS1729/guvi-devops.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 = "giridharans/guvi-devops"

                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 {

        // Stop and remove the existing container if it's running

        sh "docker stop guvi_devops_container || true"

        sh "docker rm guvi_devops_container || true"

        // Run the new container

        sh "docker run -d --name guvi_devops_container -p 3001:3000 giridharans/guvi-
devops:latest"

    }

  }}}}
```

3. TOOLS CONFIG:

Java

Nodejs

Docker

4.PLUGINS:

Nodejs

Docker related *(except build)*

Eclipse

Pipeline

5.CREDENTIALS:

Github&docker

For docker build &deploy

Sudo usemod -aG docker Jenkins

Sudo chmod 666 /var/run/docker.sock

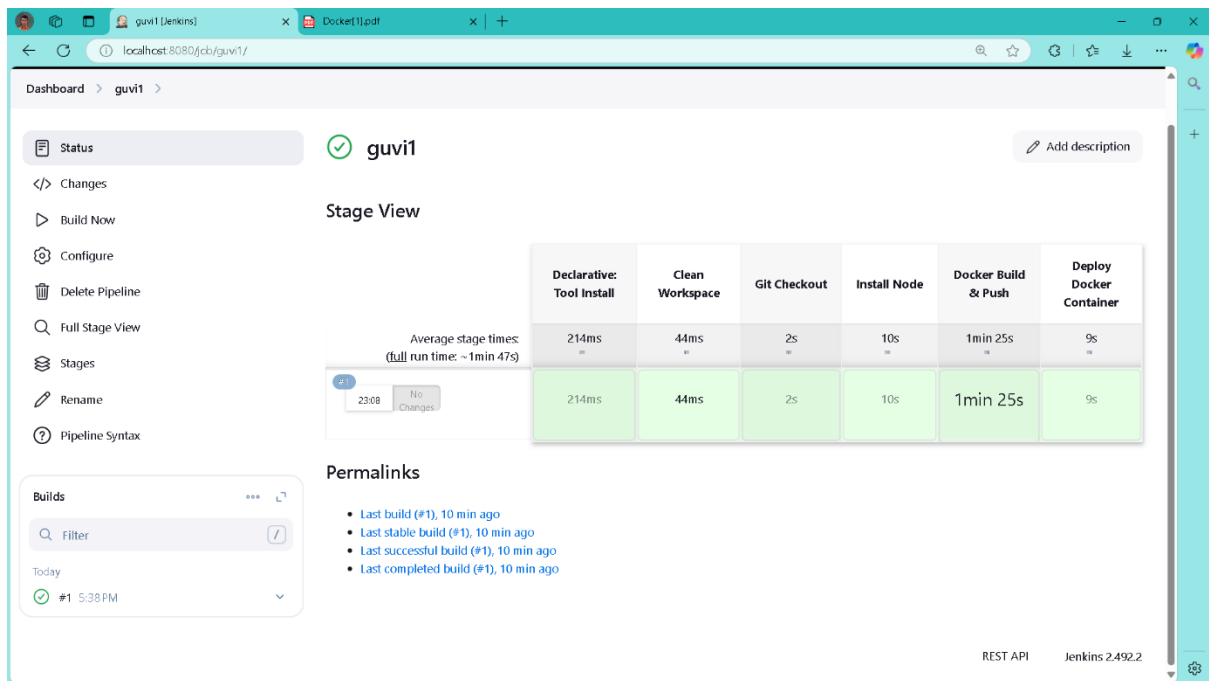Sudo systemctl restart Jenkins

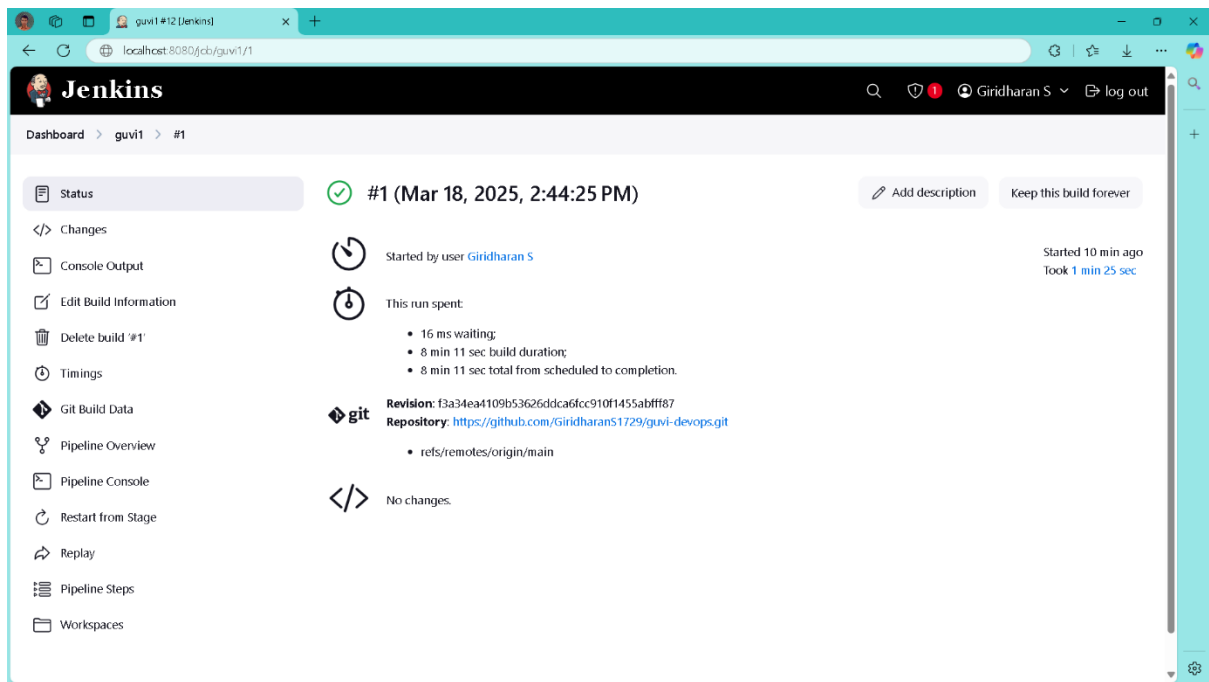Sudo systemctl status Jenkins

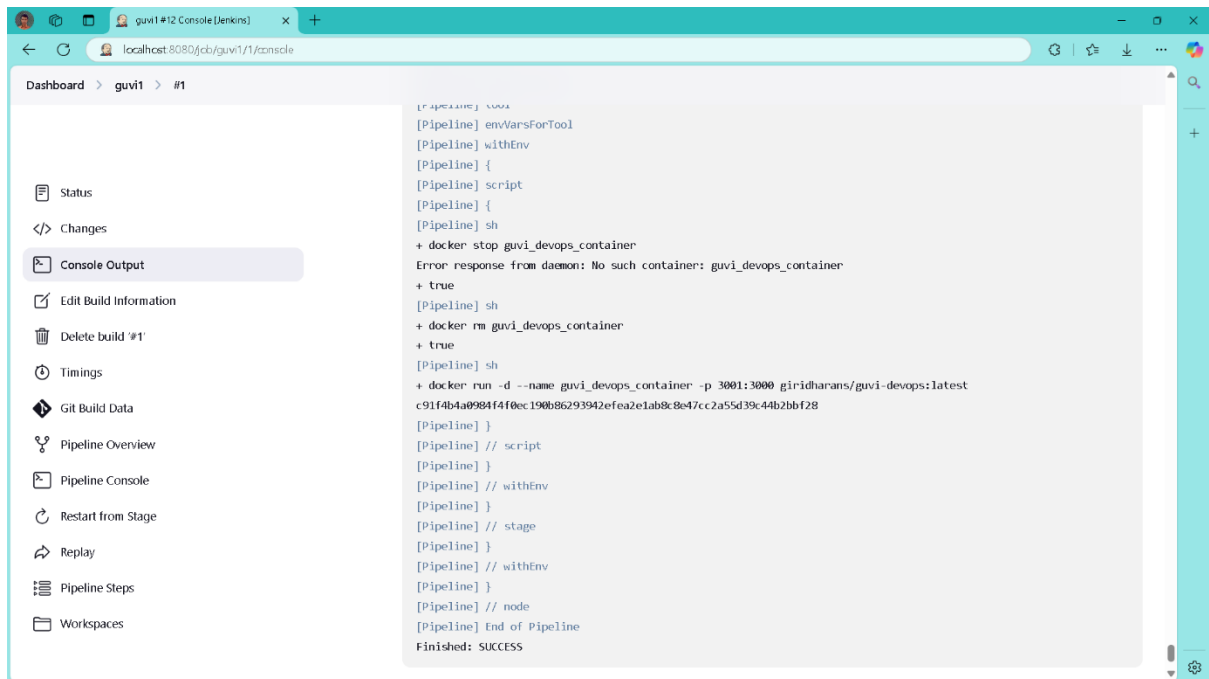*Fig 2: Build Stage View*

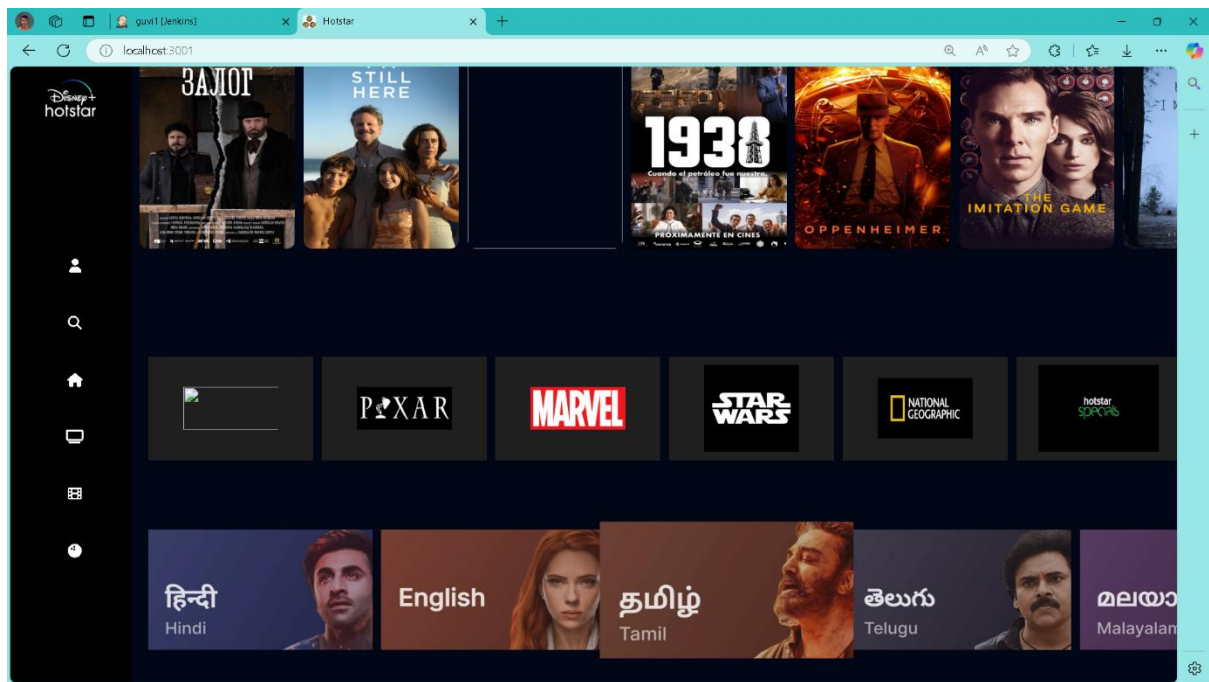*Fig 3: Pipeline 1 status*

Fig 4: Deploy Successful

http://localhost:3001

Fig 5: Page running Successfully