DAY 5

1)Install Maven

Command: sudo apt update
sudo apt install maven -y
To Check Version: mvn -version

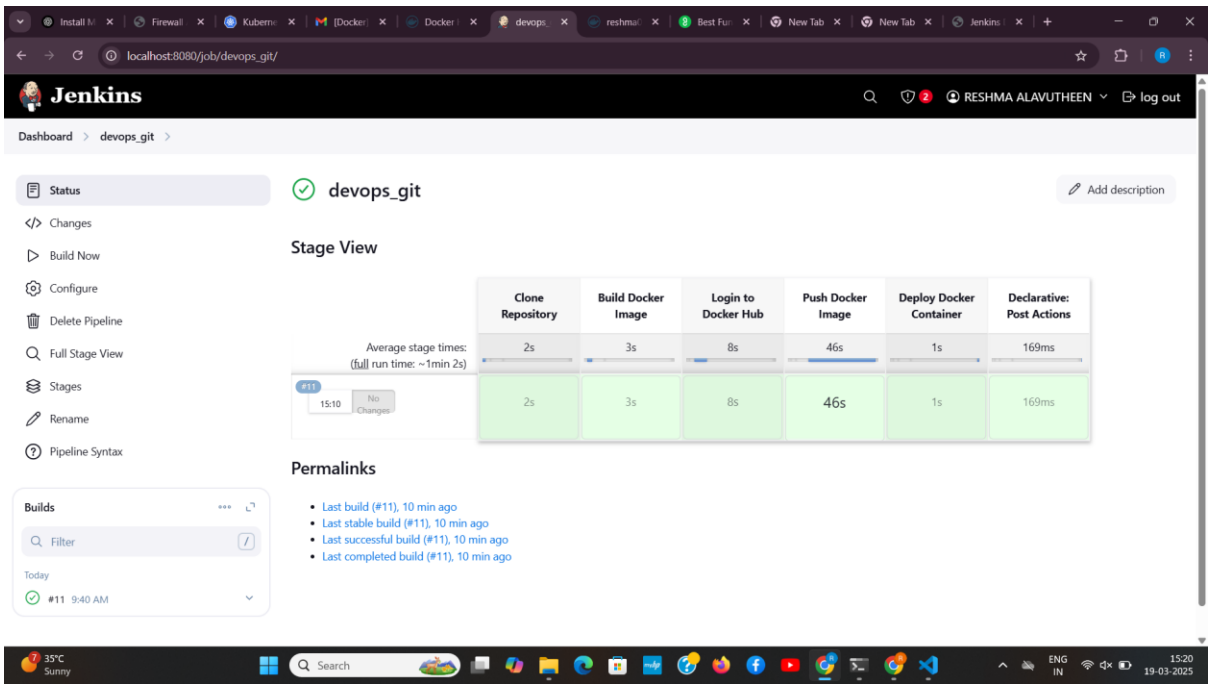
2)Pipeline Script

```
pipeline {

  agent any


  environment {

    IMAGE_NAME = "reshma09/devops" // Replace with your Docker Hub username and image name

    TAG = "latest"

    CONTAINER_NAME = "my-container"

    PORT = "3001"

  }


  stages {


    stage('Clone Repository') {

      steps {

        echo "Cloning GitHub repository..."

       git branch:'main', url: 'https://github.com/reshreshu/devops_.git' // Replace with your repo URL

      }

    }


    stage('Build Docker Image') {

      steps {
```

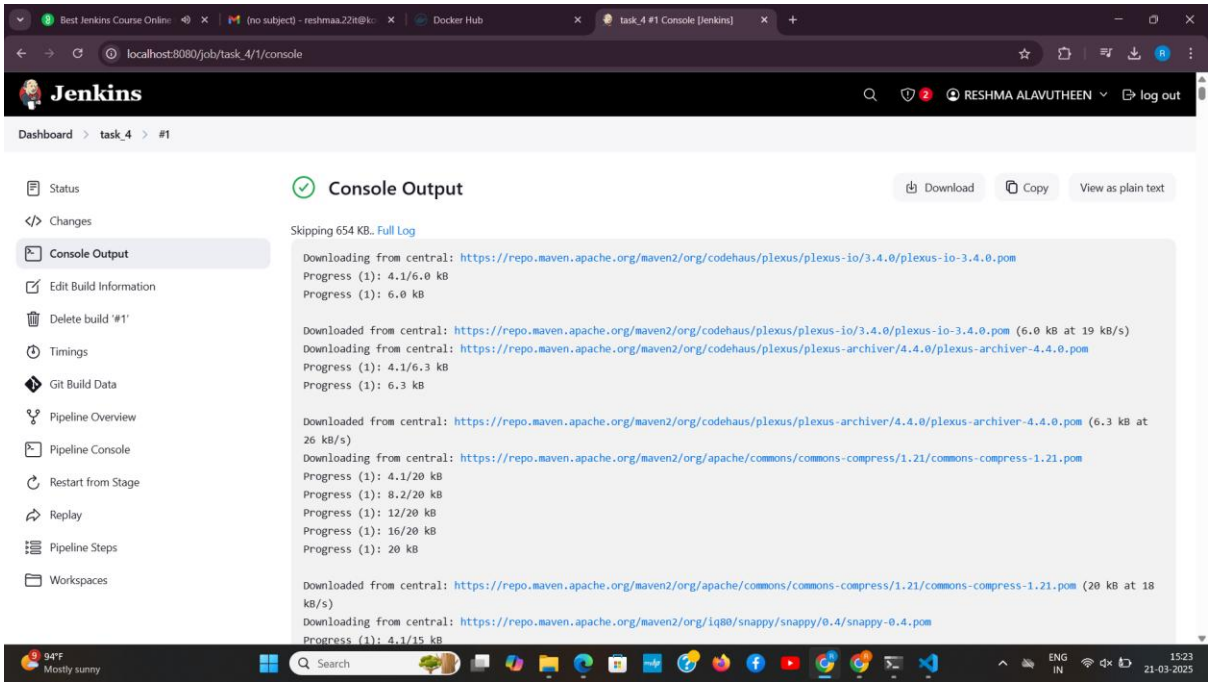
```
            echo "Building Docker image..."
            sh 'chmod +x build.sh'
            sh './build.sh'
        }
    }

        stage('Login to Docker Hub') {
        steps {
            echo "Logging into Docker Hub..."
            withCredentials([usernamePassword(credentialsId: 'docker-hub-creds',
usernameVariable: 'DOCKER_USER', passwordVariable: 'DOCKER_PASS')]) {
                sh 'docker login -u $DOCKER_USER -p $DOCKER_PASS'
            }
        }
    }

    stage('Push Docker Image') {
        steps {
            echo "Pushing Docker image to Docker Hub..."
            sh "docker tag $IMAGE_NAME:$TAG $IMAGE_NAME:$TAG"
            sh "docker push $IMAGE_NAME:$TAG"
        }
    }

    stage('Deploy Docker Container') {
        steps {
            echo "Deploying Docker container..."
            sh 'chmod +x deploy.sh'
            sh './deploy.sh'
        }
```

```
    }
}

post {
    success {
        echo "Deployment Successful!"
    }
    failure {
        echo "Deployment Failed!"
    }
}
```

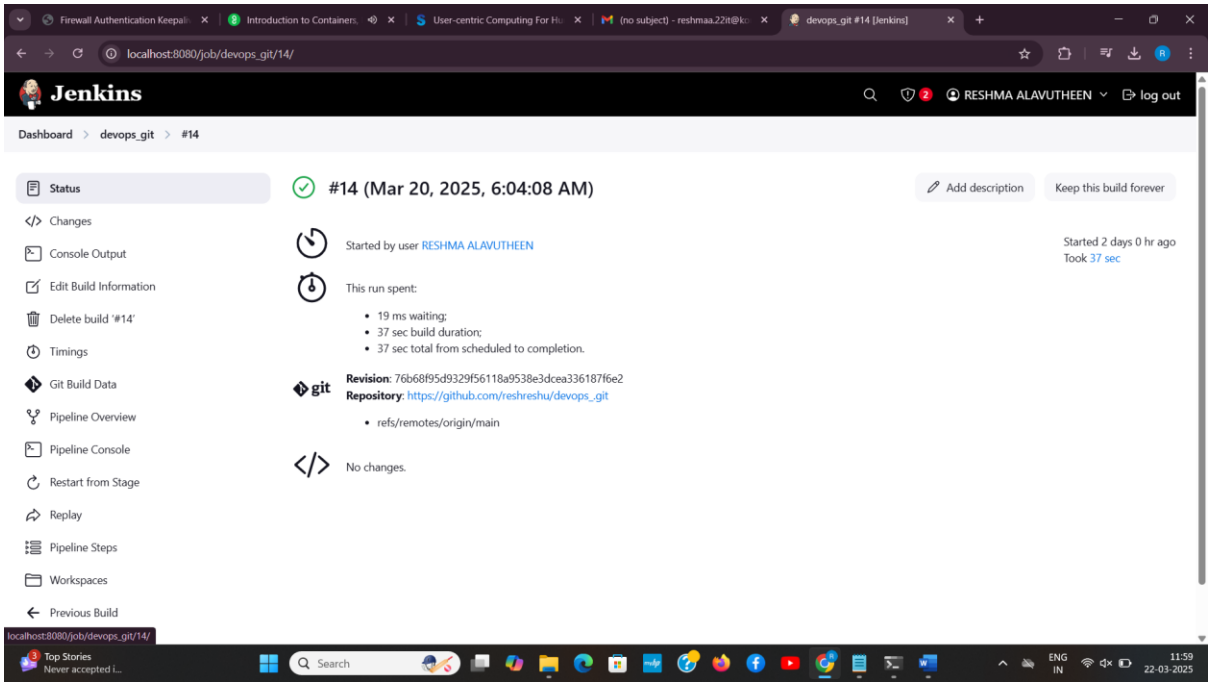
3)Build a new pipeline job



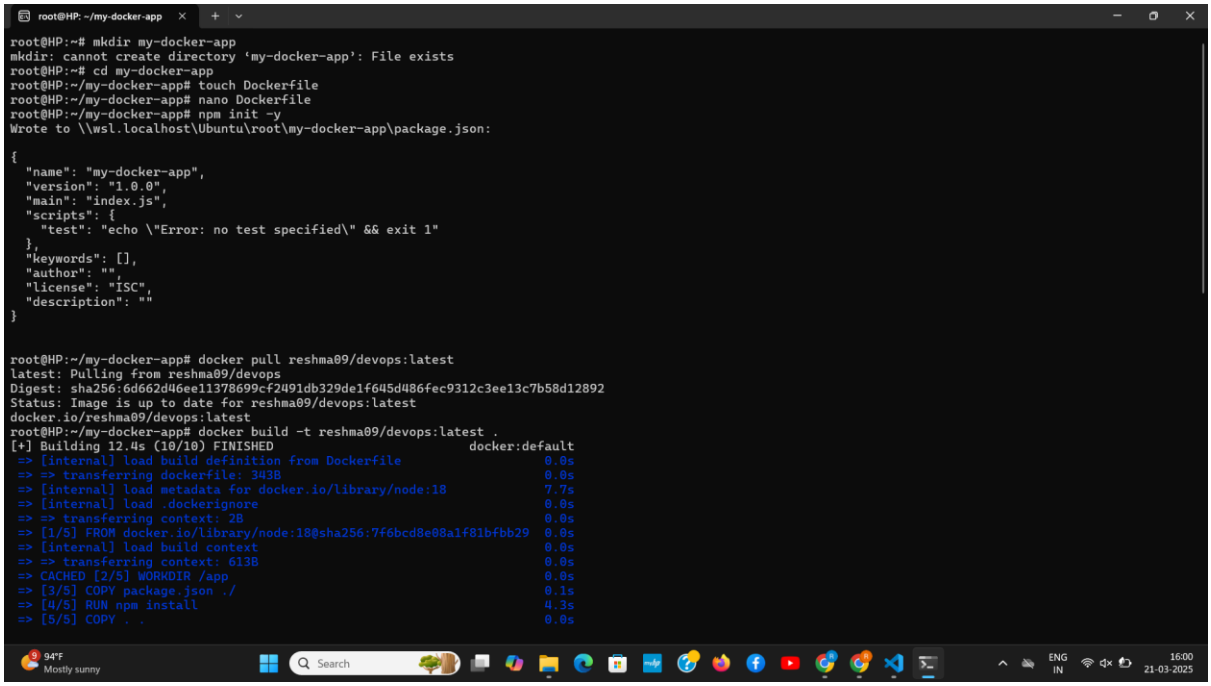
4)Console Output of the pipeline

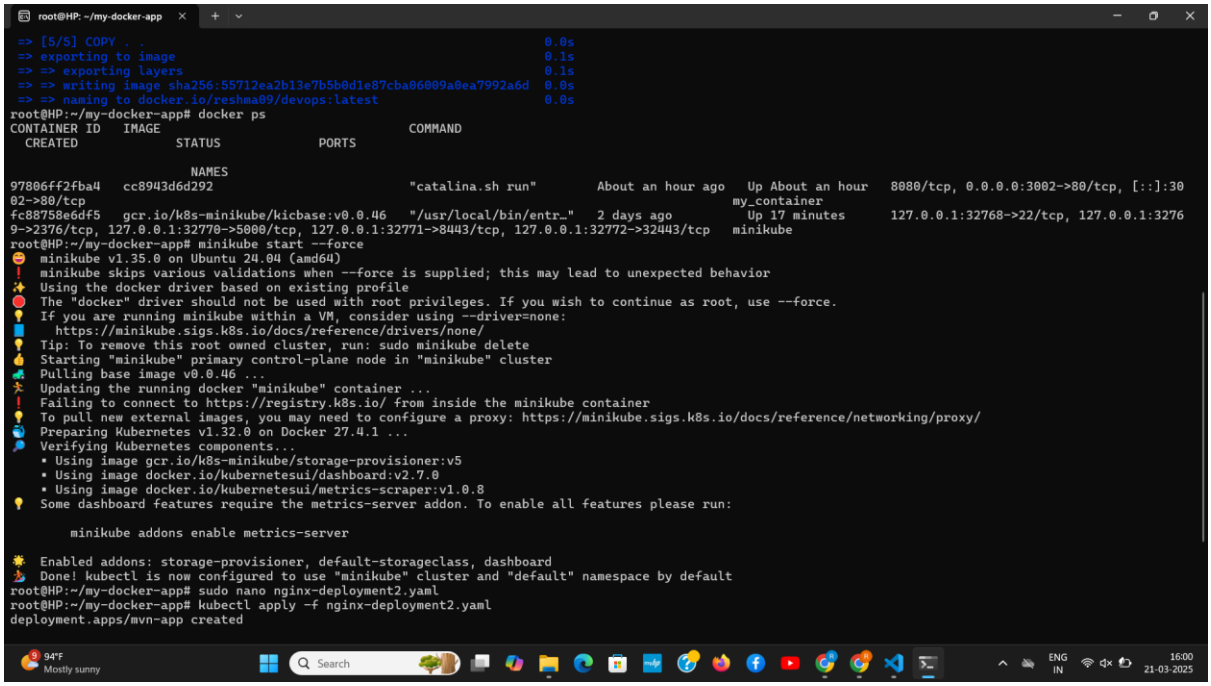


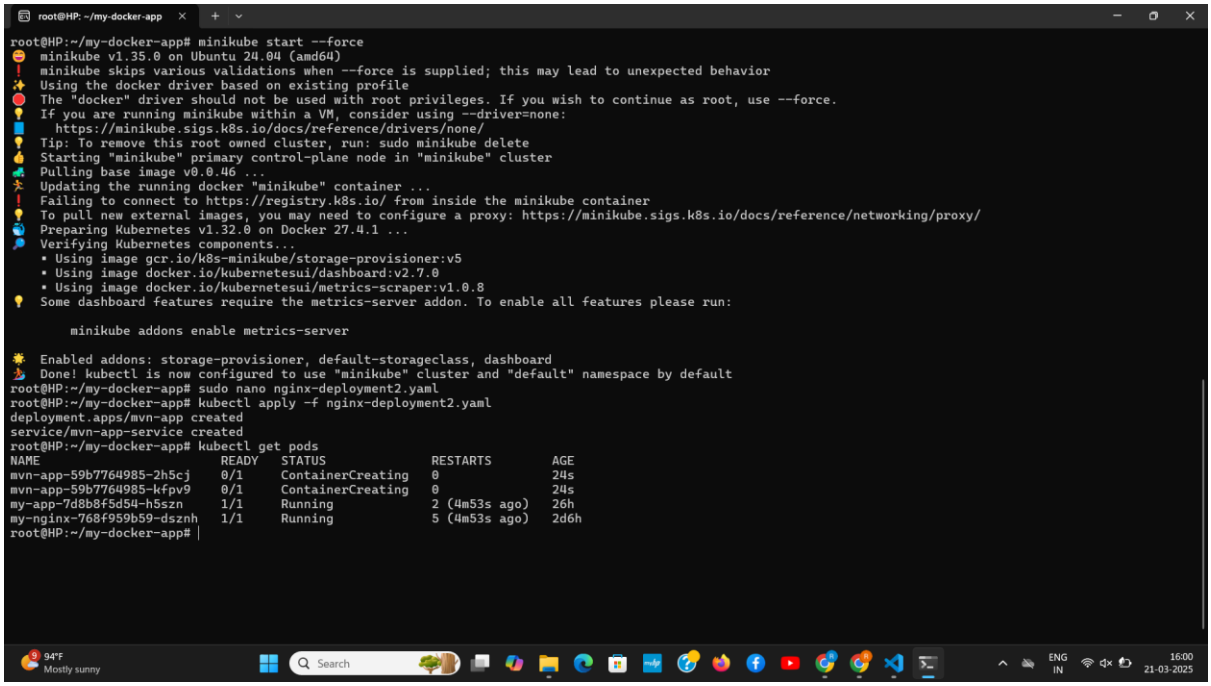
5)Status of the pipeline



6)Pull docker image






root@HP: ~/my-docker-app
root@HP:~/my-docker-app# minikube start --force
minikube v1.35.0 on Ubuntu 24.04 (amd64)
minikube skips various validations when --force is supplied; this may lead to unexpected behavior
Using the docker driver based on existing profile
The "docker" driver should not be used with root privileges. If you wish to continue as root, use --force.
If you are running minikube within a VM, consider using --driver=none:
https://minikube.sigs.k8s.io/docs/reference/drivers/none/
Tip: To remove this root owned cluster, run: sudo minikube delete
Starting "minikube" primary control-plane node in "minikube" cluster
Pulling base image v0.0.46 ...
Updating the running docker "minikube" container ...
Failing to connect to https://registry.k8s.io/ from inside the minikube container
To pull new external images, you may need to configure a proxy: https://minikube.sigs.k8s.io/docs/reference/networking/proxy/
Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
Verifying Kubernetes components...
• Using image gcr.io/k8s-minikube/storage-provisioner:v5
• Using image docker.io/kubernetesui/dashboard:v2.7.0
• Using image docker.io/kubernetesui/metrics-scraper:v1.0.8
Some dashboard features require the metrics-server addon. To enable all features please run:
minikube addons enable metrics-server
Enabled addons: storage-provisioner, default-storageclass, dashboard
Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
root@HP:~/my-docker-app# sudo nano nginx-deployment2.yaml
root@HP:~/my-docker-app# kubectl apply -f nginx-deployment2.yaml
deployment.apps/mvn-app created
service/mvn-app-service created
root@HP:~/my-docker-app# kubectl get pods
NAME READY STATUS RESTARTS AGE
mvn-app-59b7764985-2h5cj 0/1 ContainerCreating 0 24s
mvn-app-59b7764985-kfpv9 0/1 ContainerCreating 0 24s
my-app-7d8b8f5d54-h5szn 1/1 Running 2 (4m53s ago) 26h
my-nginx-768f959b59-dsznh 1/1 Running 5 (4m53s ago) 2d6h
root@HP:~/my-docker-app#
94°F
Mostly sunny
Search
ENG
IN
16:00
21-03-2025