DevOps

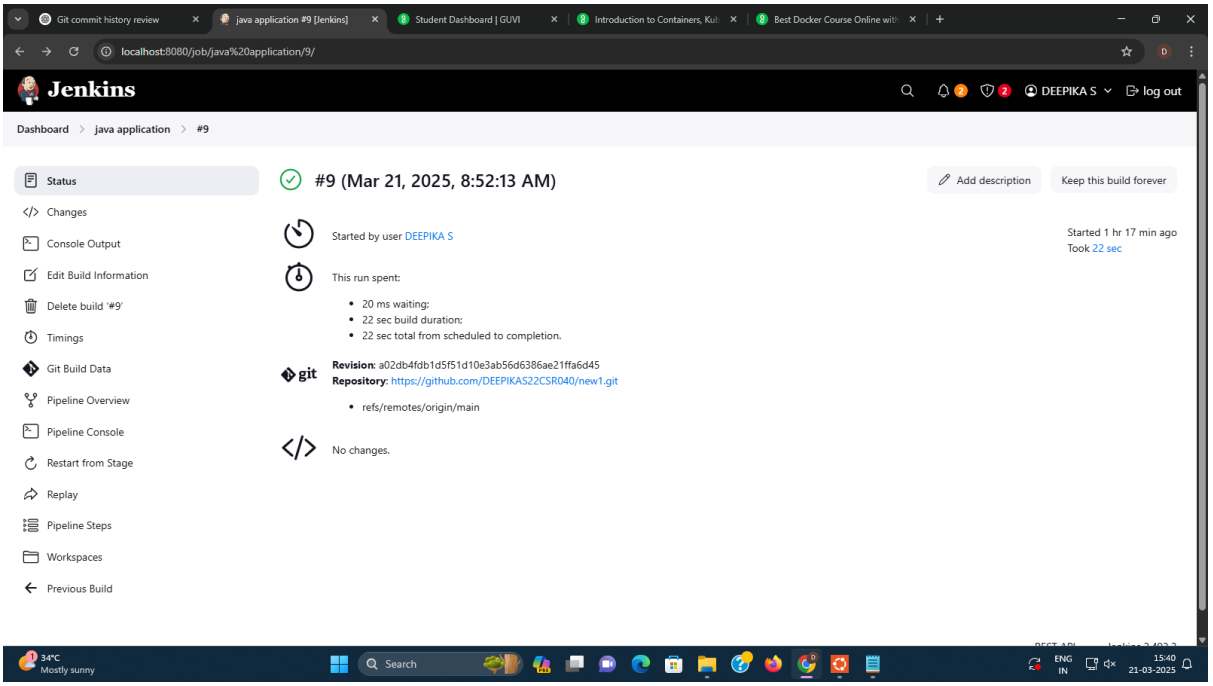
Day 5

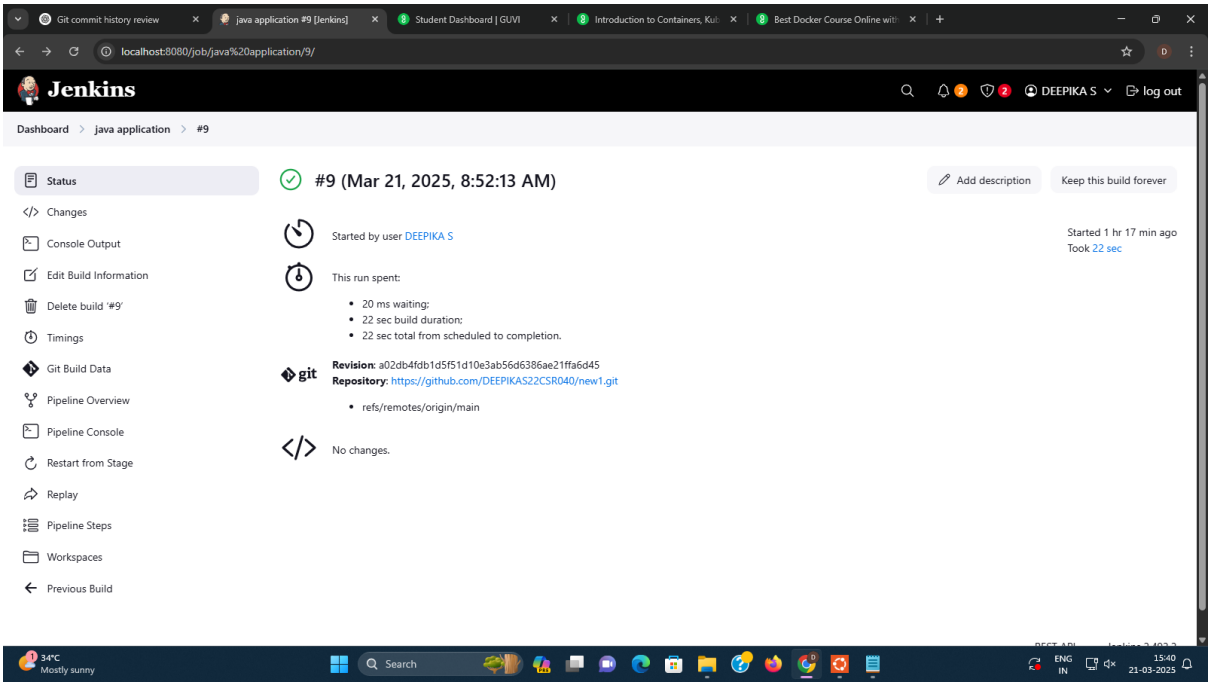
Assignment

Name : Debehaa J

Roll no :22CSR037

PIPELINE





Visudo:

1. sudo visudo

2. Add jenkins ALL=(ALL) NOPASSWD: ALL

ssh installtion:

1. sudo systemctl restart ssh.service

2. sudo systemctl restart sshd.service

3. sudo apt update

4. sudo apt install openssh-server

5. sudo systemctl restart ssh

6. sudo systemctl status ssh

7. ls /etc/systemd/system/sshd.service or ls /usr/lib/systemd/system/sshd.service

8. sudo systemctl daemon-reload

9. sudo systemctl status ssh

Deployment:

1. cd ~/.kube

2. ls

3. cat config

4. sudo vi config

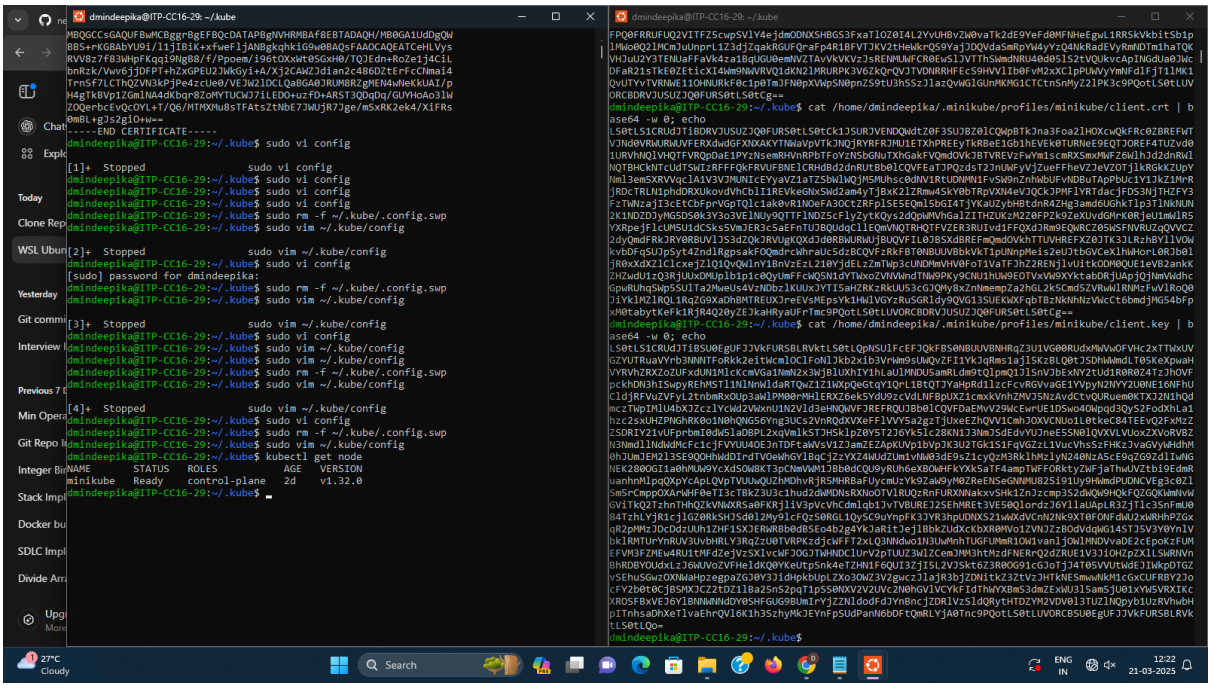
5. i

6. -data

7. cat url | base64 -w 0; echo

8. minikube start

9. kubectl get node



Deployment.yml

apiVersion: apps/v1

kind: Deployment

metadata:

  name: my-deploy

  labels:

    name: my-deploy

spec:

  replicas: 1

  selector:

    matchLabels:

      apptype: web-backend

  strategy:

```
    type: RollingUpdate
  template:
    metadata:
      labels:
        apptype: web-backend
    spec:
      containers:
      - name: my-app
        image:
        ports:
        - containerPort: 7070
---

apiVersion: v1
kind: Service
metadata:
  name: my-service
  labels:
    app: my-service
    type: backend-app
spec:
  type: NodePort
  ports:
   - targetPort: 8080
     port: 7070
     nodePort: 30002
  selector:
    apptype: web-backend
```

JenkinsFile - pipeline script

```
pipeline {
    agent any
```

```
    stages {
        stage('scm') {
            steps {
                git branch: 'main', url: 'https://github.com/DEBEHAA/new1.git'
            }
        }
        stage('build') {
            steps {
                sh 'mvn clean'
                sh 'mvn install'
            }
        }
        stage('build to images') {
            steps {
                script {
                    sh 'docker build -t deepika040/mysimplewebapplication .'
                }
            }
        }
        stage('push to hub') {
            steps {
                script {
                    withDockerRegistry(credentialsId: 'docker-hub-credential', url: 'https://index.docker.io/v1/') {
                        sh 'docker push DEBEHAA/mysimplewebapplication'
                    }
                }
            }
        }
    }
}
```