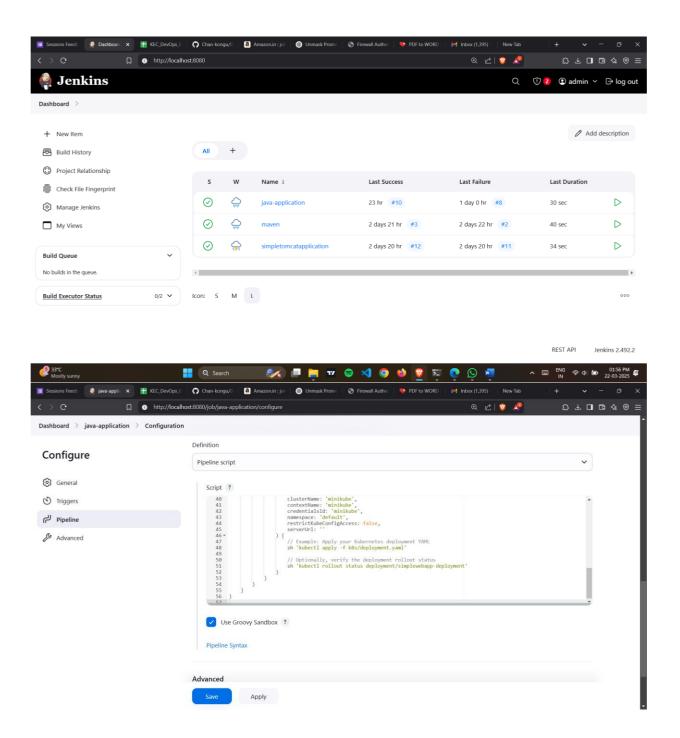
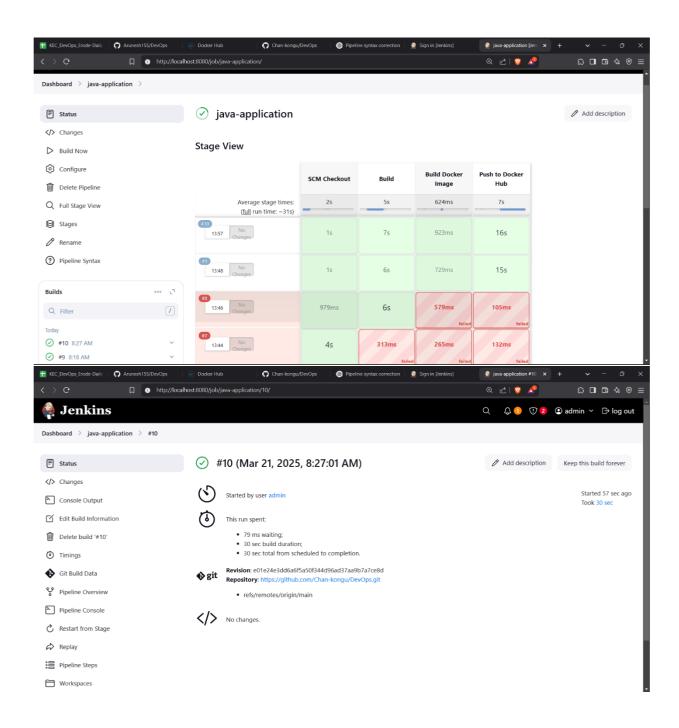
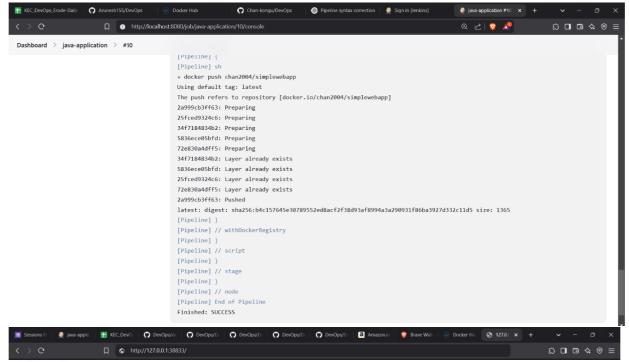
Final Project Day-(6)

Java application deployment in minikube





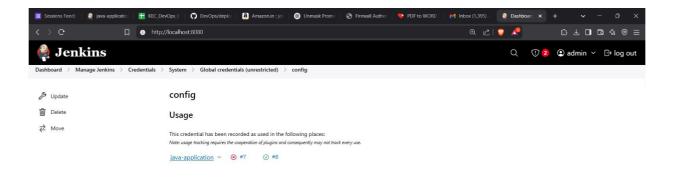


Hello World!

PIPELINE SCRIPT:

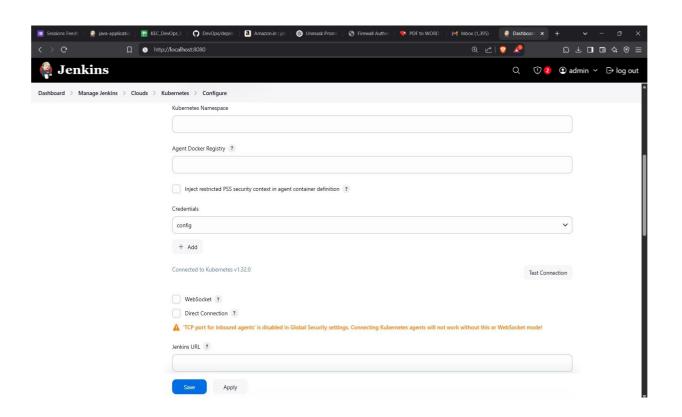
```
pipeline {
  agent any
  stages {
    stage('SCM Checkout') {
       steps {
         git branch: 'main', url: 'https://github.com/Chan-kongu/DevOps.git'
     }
     stage('Build') {
       steps {
          sh 'mvn clean'
          sh 'mvn install'
     }
     stage('Build Docker Image') {
       steps {
         script {
            sh 'docker build -t chan2004/simplewebapp .'
       }
     stage('Push to Docker Hub') {
```

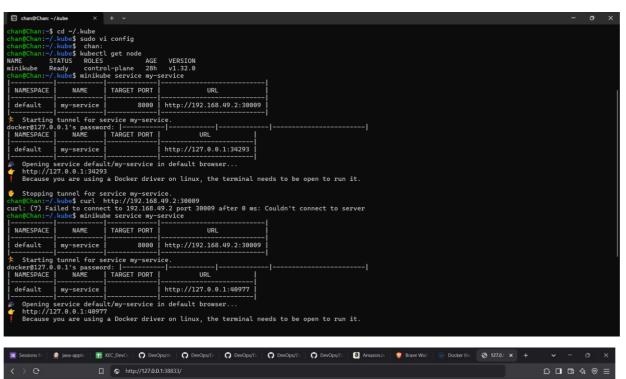
```
steps {
          script {
             withDockerRegistry(credentialsId: 'docker_cred', url: 'https://index.docker.io/v1/') {
               sh 'docker push chan2004/simplewebapp'
       }
     stage('Deploy to Kubernetes') {
        steps {
          withKubeConfig(
             caCertificate: "
             clusterName: 'minikube',
             contextName: 'minikube',
             credentialsId: 'minikube',
             namespace: 'default',
             restrict Kube Config Access:\ false,
             serverUrl: "
          ) {
            // Example: Apply your Kubernetes deployment YAML sh 'kubectl apply -f k8s/deployment.yaml'
             // Optionally, verify the deployment rollout status
             sh 'kubectl rollout status deployment/simplewebapp-deployment'
       }
  }
DEPLOY.YAML:
apiVersion: apps/v1
kind: Deployment
metadata:
 name: my-deploy
 labels:
  name: my-deploy
spec:
 replicas: 5
 selector:
  matchLabels:
   apptype: web-backend
 strategy:
type: RollingUpdate
 template:
  metadata:
    labels:
    apptype: web-backend
  spec:
    containers:
    - name: my-app
image: chan2004/simpleapplication:latest
     ports:
     - containerPort: 9000
apiVersion: v1
kind: Service
metadata:
 name: my-service8
 labels:
  app: my-service
spec:
 type: NodePort
 ports:
  - port: 9000
   targetPort: 8080
   nodePort: 30002
 selector:
  apptype: web-backend
```



REST API Jenkins 2.492.2

localhost:8080/job/java-application/





Hello World!

