DEVOPS

DAY - 6

FINAL PROJECT

Java Application Minikube Deployment:

Commands:

a. visudo:

- 1. sudo visudo
- 2. Add jenkins ALL=(ALL) NOPASSWD: ALL

b. 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 systemetl 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

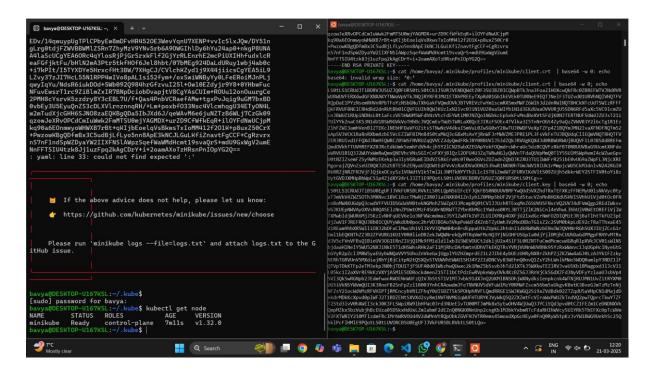
c. Deployment:

- 1. cd ~/.kube
- 2. ls
- 3. cat config
- 4. sudo vi config
- 5. i
- 6. -data
- 7. cat url | base64 -w 0; echo

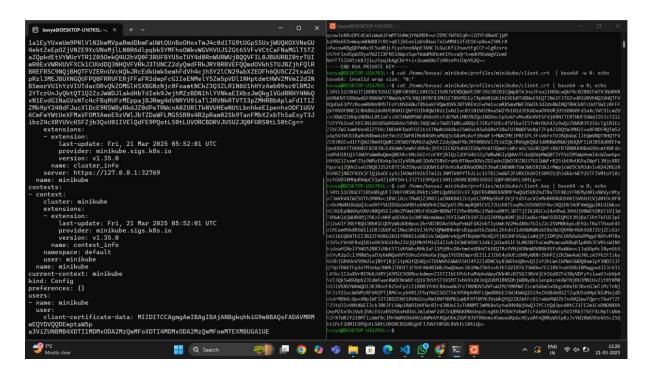
```
8. minikube start
```

9. kubectl get node

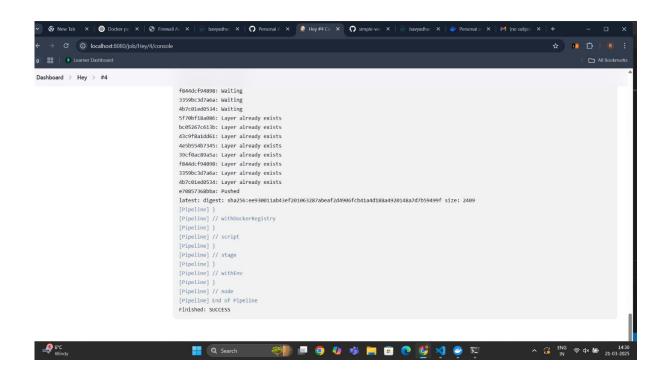
```
d. Pipeline Script:
pipeline {
  agent any
  stages {
     stage('SCM Checkout') {
       steps {
          git branch: 'main', url: 'https://github.com/Bavyadharshini-
Rajaganapathy/simple-web-app.git'
        }
     }
     stage('Build') {
       steps {
          sh 'mvn clean'
          sh 'mvn install'
     }
     stage('Build Docker Image') {
       steps {
          script {
            sh 'docker build -t bavyadharshini/simplewebapp .'
     stage('Push to Docker Hub') {
       steps {
          script {
```



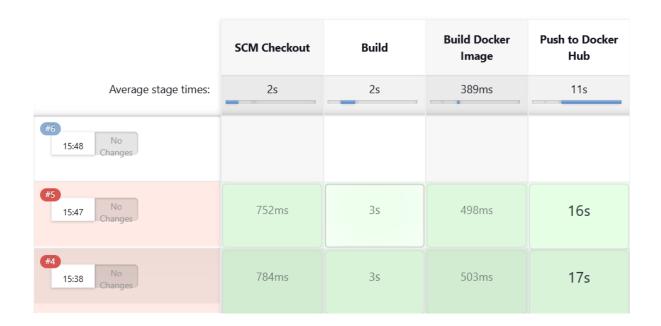
Deployment of Yml



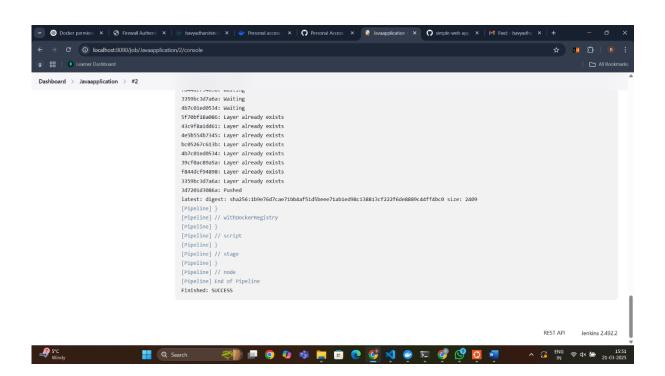
sudo vi config



JavaApplication Success Output



Stage View of Output



Output

Deployment:

1. sudo nano deployment

deployment.yml:

```
apiVersion: apps/v1
 kind: Deployment
 metadata:
  name: my-deploy
  labels:
   name: my-deploy
 spec:
  replicas: 4
  selector:
   matchLabels:
    apptype: web-backend
  strategy:
   type: RollingUpdate
  template:
   metadata:
    labels:
     apptype: web-backend
   spec:
    containers:
    - name: my-app
```

image: bavyadharshini/simplewebapp:latest

ports:

- containerPort: 7076

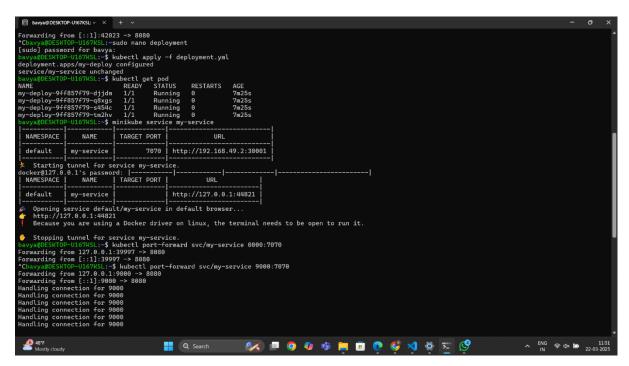
- 2. kubectl get pod
- 3. minikube service my-service
- 4. kubectl port-forward svc/my-service 9000:7070

URL: localhost:9000/maven-web-app/

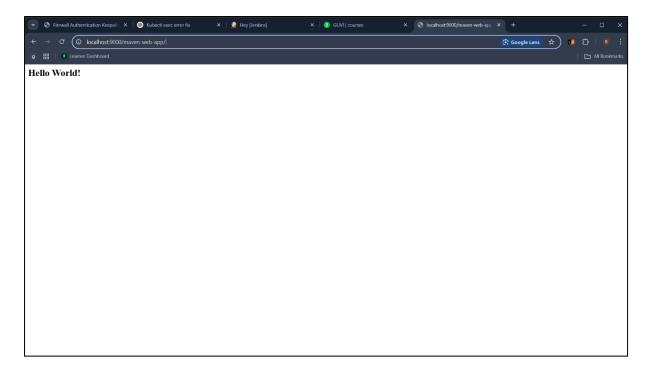
Output:

deployment.yml

Port Forwarding



Handling Output



Output