# **DEVOPS**

DAY 5 Task

# Java Application deployed in minikube

## **Pipeline script**

```
pipeline {
  agent any
  stages {
     stage('scm') {
       steps {
     git branch: 'git branch: 'main', url: 'https://github.com/Akashine-012/docker-clone.git'
       }
     }
     stage('builb-clean') {
       steps {
         sh "mvn clean"
}
}
     stage('build-validate') {
       steps {
         sh "mvn validate"
}
     stage('build-com') {
       steps {
         sh "mvn compile"
}
```

```
stage('build-test') {
       steps {
         sh "mvn test"
}
}
     stage('build-install') {
       steps {
         sh "mvn package"
}
stage('build to images') {
       steps {
         script{
           sh 'docker build -t akashine/javaapp .'
         }
  }
stage('push to hub') {
       steps {
         script{
           withDockerRegistry(credentialsId: 'docker cred', url: 'https://index.docker.io/v1/') {
           sh 'docker push ' akashine/javaapp
}
     stage('Deploy App') {
       steps {
          with Kube Config (ca Certificate: ", cluster Name: 'minikube', context Name: 'minikube',\\
credentialsId: 'minikube cred', namespace: ", restrictKubeConfigAccess: false, serverUrl:
'https://192.168.49.2:8443') {
          sh 'kubectl apply -f deployment.yml --validate=false'
       }
```

```
}

stage('Test') {

steps {

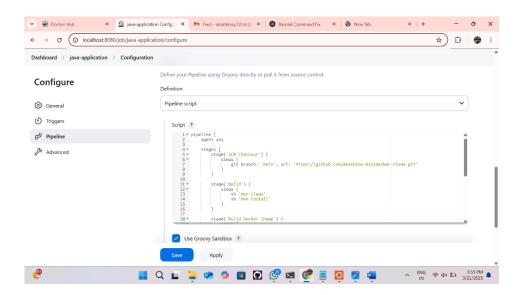
    withKubeConfig(caCertificate: ", clusterName: 'minikube', contextName: 'minikube', credentialsId: 'minikube_cred', namespace: ", restrictKubeConfigAccess: false, serverUrl: 'https://192.168.49.2:8443') {

    sh 'minikube service my-service --url | xargs curl'
}

}

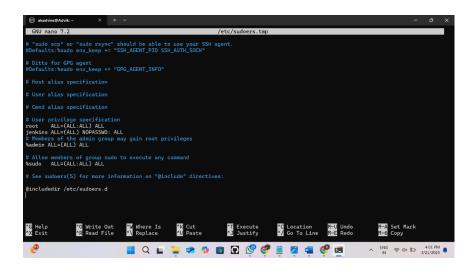
}

}
```



#### **Connection with visual studio**

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



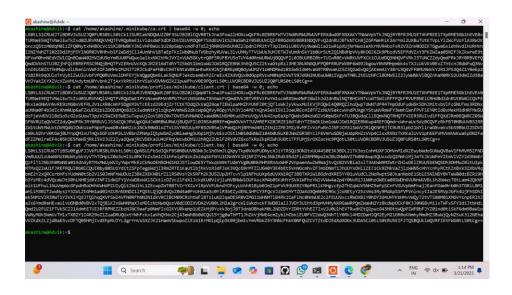
#### **SSH Installation**

- 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

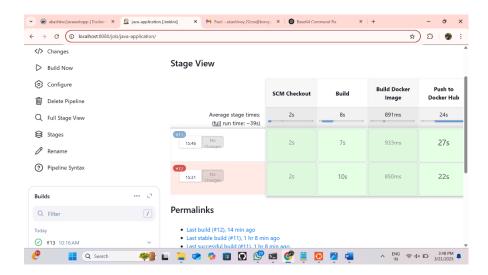
## Deployment

- 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

```
extensions:
- extension:
Laxvadate: Fri, 21 Mar 2025 07:29:42 UTC
version: V1.25.0
name: cluster info
server: https://127.0.0.1:32769
name: cluster: minikube
cortexts:
- context:
cluster: minikube
extensions:
- extensions:
- extensions:
- extensions:
- extensions:
- extensions:
- its t-update: Fri, 21 Mar 2025 07:29:42 UTC
provider: minikube.sigs.k8s.io
version: V1.35.0
name: context.info
namespace: default
user: minikube
current-context: minikube
suser::
- name: minikube
user::
- client-certificate: /home/akashine/.minikube/profiles/minikube/client.crt
client-key: /home/akashine/.minikube/profiles/minikube/client.key
skashine@Advik:-/.kuba$ sudo vi config
```



### Stage view



### **Console Output**

