FINAL PROJECT DevOps-Day06:

JAVA APPLICATION DEPLOYEMENT IN MINIKUBE

```
PIPELINE:
pipeline {
 agent any
 stages {
   stage('SCM') {
     steps {
       git branch: 'main', url: 'https://github.com/MugeshS-04/guvidevopsday1.git'
     }
   }
   stage('Build-clean') {
     steps{
       sh 'mvn clean'
     }
   }
       stage('Build-validate') {
     steps{
              sh 'mvn validate'
     }
    }
```

```
stage('Build-compile') {
     steps{
              sh 'mvn compile'
     }
   }
       stage('Build-test') {
     steps{
              sh 'mvn test'
     }
   }
       stage('Build-package') {
     steps{
              sh 'mvn package'
     }
   }
   stage('build to images') {
     steps {
     script{
       sh "docker build -t mugeshs04/webapplication ."
     }
     }
   }
   stage('docker push hub') {
     steps {
     script{
       withDockerRegistry(credentialsId: 'docker-hub-cred', url:
'https://index.docker.io/v1/') {
       sh 'docker push mugeshs04/webapplication'
```

```
stage('deploy webapp') {
              steps{
                  withKubeConfig(caCertificate: ", clusterName: 'minikube', contextName:
'minikube', credentialsId: 'minikube-cred', namespace: '', restrictKubeConfigAccess:
false, serverUrl: 'https://192.168.39.226:8443') {
                       sh 'kubectl apply -f deployment.yml --validate=false'
                  }
              }
  Stopping tunnel for service my-service.

ugesh@DESKTOP-ELKSV5N:--
curl http://192.168.49.2:30002

!doctype html><html lang="en"><head><title>HTTP Status 404 - Not Found</title><style type="text/css">body {font-family:
ahoma, Arial, sans-serif;} h1, h2, h3, b {color:white;background-color:#525D76;} h1 {font-size:22px;} h2 {font-size:16px;
h3 {font-size:14px;} p {font-size:12px;} a {color:black;} .line {height:1px;background-color:#525D76;border:none;}</st
le></head><body><h1>HTTP Status 404 - Not Found</h1><hr/>chr class="line" /><bb>Type</b> Status Report>b>Descriptio</br>
</br>
</b>
The origin server did not find a current representation for the target resource or is not willing to disclose that one exists.<hp><hr class="line" /><h3>Apache Tomcat/9.0.102</h3></body></html>mugesh@DESKTOP-ELKSV5N:--$ curl http://192
html>
  body>
h2>Hello World!</h2>
    gesh@DESKTOP-ELKSV5N:~$ minikube service my-service
   NAMESPACE
                                                TARGET PORT
                                                                                            URL
                                                                        http://192.168.49.2:30002
   NAMESPACE
                                                TARGET PORT
   default
                                                                        http://127.0.0.1:39033
                        my-service
      Opening service default/my-service in default browser...
http://127.0.0.1:39033
       Because you are using a Docker driver on linux, the terminal needs to be open to run it.
```

```
libwrap@ ncurses-term openssh-server openssh-sftp-server ssh-import-id
The following packages will be upgraded:
openssh-client
1 upgraded, 5 newly installed, 0 to remove and 55 not upgraded.
Need to oge 4800 kB/1785 kB of archives.
After this operation, 6861 kB of additional disk space will be used.
Do you want to continue; [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 openssh-sftp-server amd64 1:9.6p1-3ubuntul3.8 [37.3 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 openssh-ssrer amd64 1:9.6p1-3ubuntul3.8 [600 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 openssh-server amd64 1:9.6p1-3ubuntul3.8 [600 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 openssh-server amd64 1:9.6p1-3ubuntul3.8 [600 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 openssh-server amd64 1:9.6p1-3ubuntul718.8 [600 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 openssh-server amd64 1:9.6p1-3ubuntul718.8 [600 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 openssh-server-id all 5.11-0ubuntu2.24.04.1 [10.1 kB]
Fetched 880 kB in 48 (222 kB/s)
Preconfiguring packages...
(Reading database ... 4003 files and directories currently installed.)
Preparing to unpack .../0-openssh-client.193.0 over (1:9.6p1-3ubuntu13.8 ]...
Selecting previously unselected package openssh-sftp-server.
Preparing to unpack .../1-openssh-sftp-server.193.0 openssh-sftp-server.
Preparing to unpack .../1-iburap0.7.6.q-33 ...
Selecting previously unselected package openssh-server.
Preparing to unpack .../3-openssh-server.133.0 objection pack server.3-openssh-server.133.0 objection pack server.3-openssh-server.133.0 objection pack server.3-openssh-server.1-openssh-server.1-openssh-server.1-openssh-server.1-openssh-server.1-openssh-server.1-openssh-server.1-openssh-server.1-openssh-server.1-openssh-server.1-openssh-server.1-openssh-server.1-openssh-server.1-openssh-server.1-openssh-server.1-openssh-server.1-openssh-server.1-openss
      Creating config file /etc/ssh/sshd_config with new version Creating SSH2 RSA key; this may take some time ...
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               nugesh@DESKTOP=ELKSVSN:-$ sudo visudo
nugesh@DESKTOP=ELKSVSN:-$ sudo systemctl restart ssh.service
nugesh@DESKTOP=ELKSVSN:-$ sudo systemctl daemon-reload
nugesh@DESKTOP=ELKSVSN:-$ sudo systemctl status ssh

• ssh.service - OpenBSO Secure Shell server
Loaded: loaded (/usr/lib/systemd/system/ssh.service; disabled; preset: enabled)
Active: active (running) since Fri 2025-03-21 05:57:41 UTC; 39s ago
TriggeredBy: • ssh.socket
Docs: man:sshd.config(5)
Main PID: 6531 (sshd)
Tasks: 1 (limit: 8240)
Henory: 1.2M ()
CGroup: /system.slice/ssh.service
L5531 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"
 Mar 21 05:57:41 DESKTOP-ELKSV5N systemd[1]: Starting ssh.service - OpenBSD Secure Shell server...

Mar 21 05:57:41 DESKTOP-ELKSV5N systemd[1]: Starting ssh.service - OpenBSD Secure Shell server...

Mar 21 05:57:41 DESKTOP-ELKSV5N systemd[5]: Server listening on :: port 22.

Mar 21 05:57:41 DESKTOP-ELKSV5N systemd[1]: Started ssh.service - OpenBSD Secure Shell server.

mugesh@DESKTOP-ELKSV5N:-$ 1s

docker-compose.yml gwidevopsday1 pod.yml

mugesh@DESKTOP-ELKSV5N:-$ 1s /etc/systemd/system/sshd.service or ls /usr/lib/systemd/system/sshd.service

ls: cannot access 'detc/systemd/system/sshd.service': No such file or directory

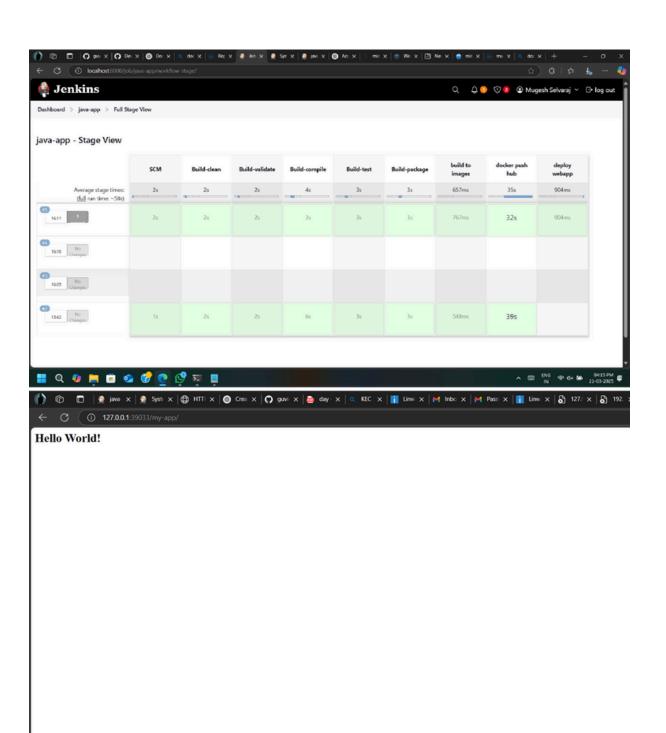
ls: cannot access 'or': No such file or directory

ls: cannot access 'usr/lib/systemd/system/sshd.service': No such file or directory

mugesh@DESKTOP-ELKSV5N:-$ c -/.kube/

mugesh@DESKTOP-ELKSV5N:-/.kube$ ls

cache config
wights/filts/shir/.kube$ Ls
cache config
augesh@DESKTOP-ELKSVSN:-/.kube$ sudo nano config
[sudo] password for mugesh:
augesh@DESKTOP-ELKSVSN:-/.kube$ sudo nano config
augesh@DESKTOP-ELKSVSN:-/.kube$ sudo vi config
augesh@DESKTOP-ELKSVSN:-/.kube$ sudo vi config
augesh@DESKTOP-ELKSVSN:-/.kube$ kubectl get node
NAME STATUS ROLES AUGES (VERSION
augesh@DESKTOP-ELKSVSN:-/.kube$ sudo vi config
augesh@DESKTOP-ELKSVSN:-/.kube$ sudo vi config
augesh@DESKTOP-ELKSVSN:-/.kube$ sudo vi config
augesh@DESKTOP-ELKSVSN:-/.kube$ description
AMAE STATUS ROLES
AGE VERSION
ainikube Ready control-plane 2d v1.32.0
augesh@DESKTOP-ELKSVSN:-/.kube$
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            @DESCIOP-ELESYPHI-/.kubm$ sudo cat /home/mugesh/.minikube/client.crt | base64 -w 0; echo
passaord for mugesh:
home/mugesh_sinikube/client.crt: No such file or directory
                         @DESKIOP-ELKSVSN:=/.kube$ cat /home/mugesh/.minikube/client.crt | base64 -w 0; echo
home/mugesh/.minikube/client.crt: No such file or directory
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```



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