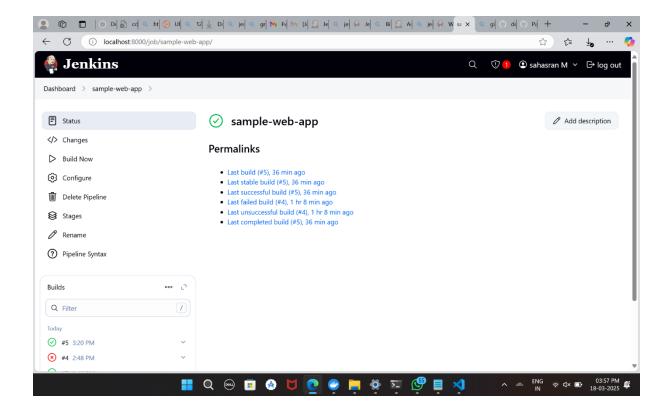
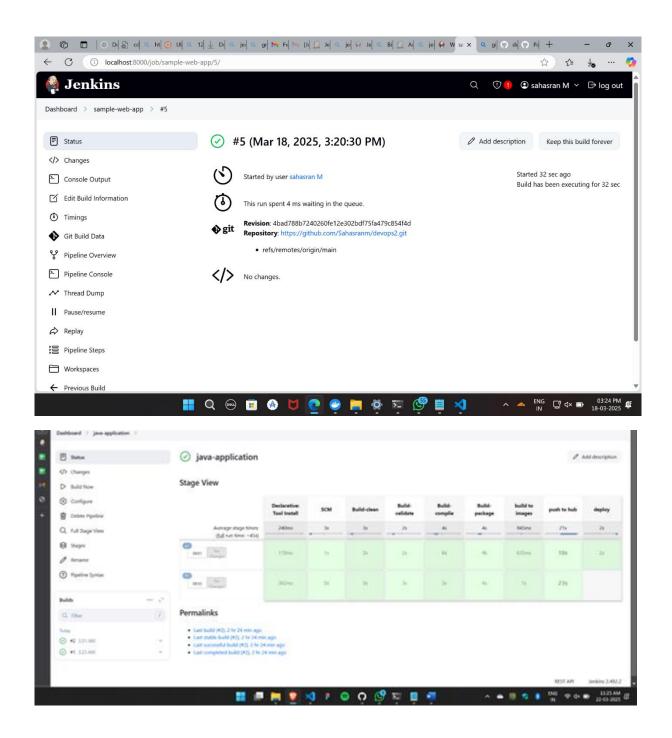
DevOps-Day 06:

SAHASRAN M 22CSR167- III CSE

Devops class guvi (DAY-6)

22 March 2025 - MiniKube Project





```
    □ ubundu@DESKTOP-MJGHIPO ×

    Restarting existing docker container for "minikube" ...
Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
    Verifying Kubernetes components...
     Using image docker.io/kubernetesui/dashboard:v2.7.0
       Using image docker.io/kubernetesui/metrics-scraper:v1.0.8
     Using image gcr.io/k8s-minikube/storage-provisioner:v5
    Some dashboard features require the metrics-server addon. To enable all features please run:
          minikube addons enable metrics-server
 Enabled addons: storage-provisioner, dashboard, default-storageclass
Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
bundu@DESKTOP-MJGHIPO:~/.kube$ kubectl config current-context
 bundu@DESKTOP-MJGHIPO:~/.kube$ minikube ip
92.168.49.2
 bundu@DESKTOP-MJGHIPO:~/.kube$ kubectl cluster-info
ubernetes control plane is running at https://127.0.0.1:32769
oreDNS is running at https://127.0.0.1:32769/api/v1/namespaces/kube-system/services/kube-dns:dns/proxy
o further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.

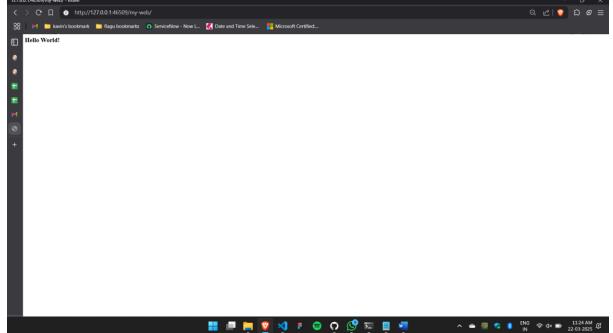
bundu@DESKTOP-MJGHIPO:~/.kube$ kubectl config set-cluster minikube --server=https://<minikube-ip>:<port>
bash: syntax error near unexpected token 'newline'
bundu@DESKTOP-MJGHIPO:~/.kube$ Kubernetes control plane is running at https://192.168.49.2:8443

command 'Kubernetes' not found, did you mean:
   command 'kubernetes' from deb kubernetes (1.0)
ry: sudo apt install <deb name>
 pundu@DESKTOP-MJGHIPO:~/.kube$ kubectl config set-cluster minikube --server=https://192.168.49.2:8443
luster "minikube" set.
 bundu@DESKTOP-MJGHIPO:~/.kube$ kubectl get node
               STATUS
                         ROLES
                                                   AGE
                                                             VERSION
                           control-plane
inikube
              Ready
                                                   2d1h
                                                            v1.32.0
bundu@DESKTOP-MJGHIPO:~/.kube$
E0321 08:09:09.801688 2737 memcache.go:265] "Unhandled Error" err="couldn't get current serve
.0.1:32769/api?timeout=32s\": dial tcp 127.0.0.1:32769: connect: connection refused"
E0321 08:09:09.804085
                                       2737 memcache.go:265] "Unhandled Error" err="couldn't get current serve
.0.1:32769/api?timeout=32s\": dial tcp 127.0.0.1:32769: connect: connection refused"
E0321 08:09:09.806448 2737 memcache.go:265] "Unhandled Error" err="couldn't get current serve".0.1:32769/api?timeout=32s\": dial tcp 127.0.0.1:32769: connect: connection refused"
E0321 08:09:09.808472 2737 memcache.go:265] "Unhandled Error" err="couldn't get current serve .0.1:32769/api?timeout=32s\": dial tcp 127.0.0.1:32769: connect: connection refused"
The connection to the server 127.0.0.1:32769 was refused - did you specify the right host or por
 ubundu@DESKTOP-MJGHIPO:~/.kube$ minikube status
minikube
type: Control Plane
host: Stopped
kubelet: Stopped
apiserver: Stopped
kubeconfig: Stopped
 ubundu@DESKTOP-MJGHIPO:~/.kube$ minikube start
      minikube v1.35.0 on Ubuntu 24.04 (amd64)
      Using the docker driver based on existing profile
Starting "minikube" primary control-plane node in "minikube" cluster
Pulling base image v0.0.46 ...
      Restarting existing docker container for "minikube" ...
      Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
      Verifying Kubernetes components...
       Using image docker.io/kubernetesui/dashboard:v2.7.0

    Using image docker.io/kubernetesui/metrics-scraper:v1.0.8
    Using image gcr.io/k8s-minikube/storage-provisioner:v5

 Some dashboard features require the metrics-server addon. To enable all features please run:
             minikube addons enable metrics-server
```





Commands:

jenkins ALL=(ALL) NOPASSWD: ALL sudo systemctl restart ssh.service sudo systemctl restart sshd.service sudo apt update sudo apt install openssh-server sudo systemctl restart ssh sudo systemctl status ssh ls /etc/systemd/system/sshd.service or ls /usr/lib/systemd/system/sshd.service sudo systemctl daemon-reload sudo systemctl status ssh sudo systemctl restart ssh.service cat /home/david/.minikube/ca.crt | base64 -w 0; echo sudo chmod 666 /var/run/docker.sock

https://192.168.39.226:8443 sh 'kubectl apply -f deployment.yml --validate=false' minikube service myservice --url | xargs curl

```
## Pipeline codes:
pipeline { agent
any
environment {
  DOCKER_CREDENTIALS = credentials('docker-hub-cred') // Docker Hub Credentials ID
}
stages { stage('SCM') {
                                        git branch: 'main', url: '<https://github.com/MugeshS-
                         steps {
04/guvidevopsday1.git>'
    }
  }
  stage('Build') {
                    steps {
sh "mvn clean"
                    sh "mvn
install"
    }
  }
  stage('Build Docker Image') {
                                 sh 'docker build -t
    steps {
                 script {
mugeshs04/guvidevopsday1.'
      }
    }
  }
```

```
stage('Push to Docker Hub') {
    steps
             {
                                                                                           script
                                                                                                      {
docker.withRegistry('<https://index.docker.io/v1/>', 'docker-hub-cred')
                                                                                        {
                                                                                                      sh
'docker push mugeshs04/guvidevopsday1'
         }
       }
    }
  }
}
}
pipeline { agent
any
stages
stage('SCM') {
                       steps {
       git branch: 'main', url:
'<a href="https://github.com/PraneshC2005/DevOps_simpleweb-app.git">https://github.com/PraneshC2005/DevOps_simpleweb-app.git</a>
    }
  }
  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') {
                                                        sh "docker build
                               steps {
                                           script{
-t praneshc/webapplication ."
    }
    }
  }
  stage('docker push hub') {
                script{
                             withDockerRegistry(credentialsId: 'cred-2', url:
    steps {
'<https://index.docker.io/v1/>') { sh 'docker push praneshc/webapplication'
    }
    }
    }
  }
}}
```