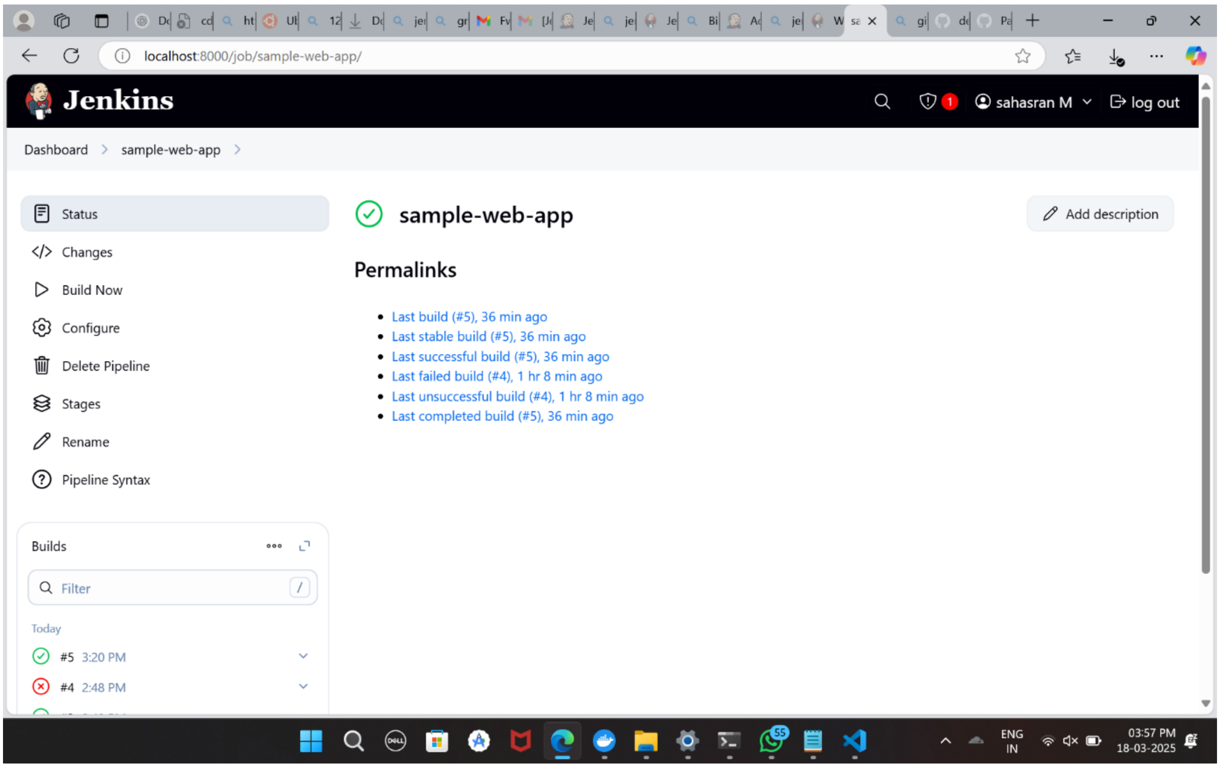
DevOps-Day 06:

SAHASRAN M 22CSR167- III CSE

Devops class guvi (DAY-6)

22 March 2025 - MiniKube Project



localhost:8000/job/sample-web-app/

sample-web-app

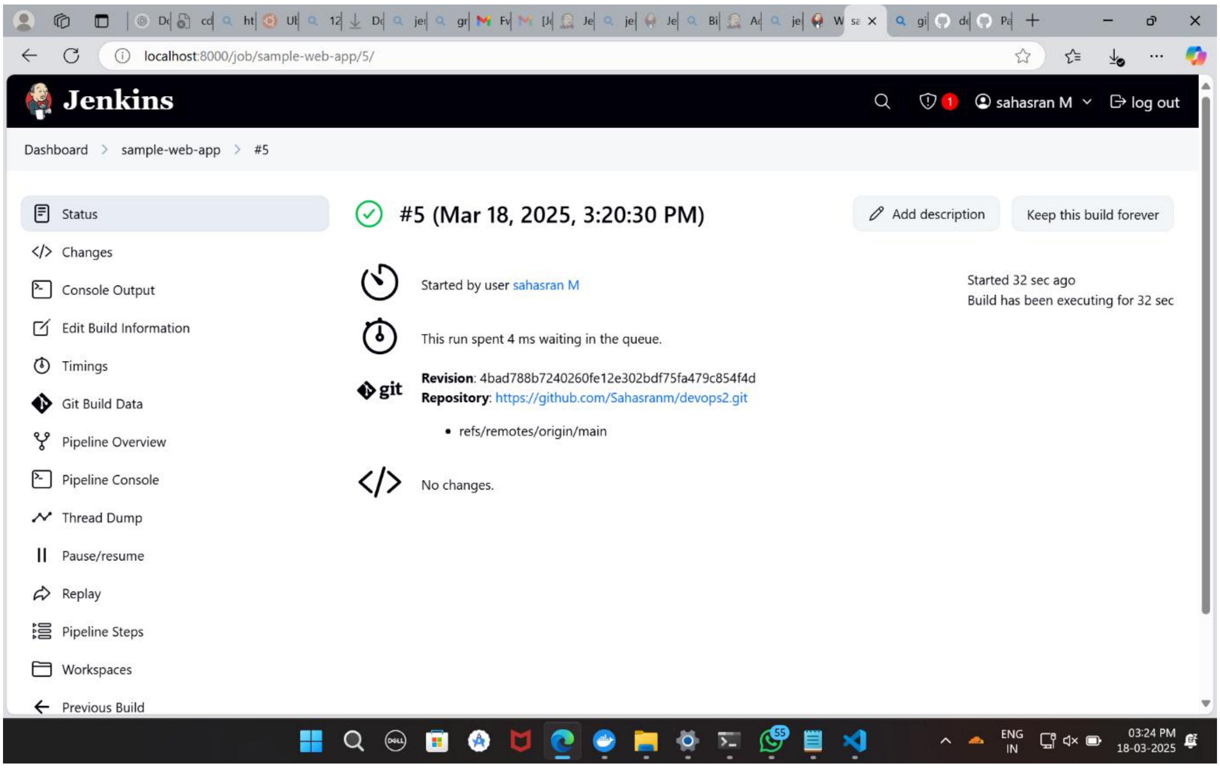
Permalinks

- Last build (#5), 36 min ago
- Last stable build (#5), 36 min ago
- Last successful build (#5), 36 min ago
- Last failed build (#4), 1 hr 8 min ago
- Last unsuccessful build (#4), 1 hr 8 min ago
- Last completed build (#5), 36 min ago

#5 3:20 PM

#4 2:48 PM

03:57 PM 18-03-2025



localhost:8000/job/sample-web-app/5/

Jenkins

sahasran M · log out

Dashboard > sample-web-app > #5

#5 (Mar 18, 2025, 3:20:30 PM)

Started by user sahasran M

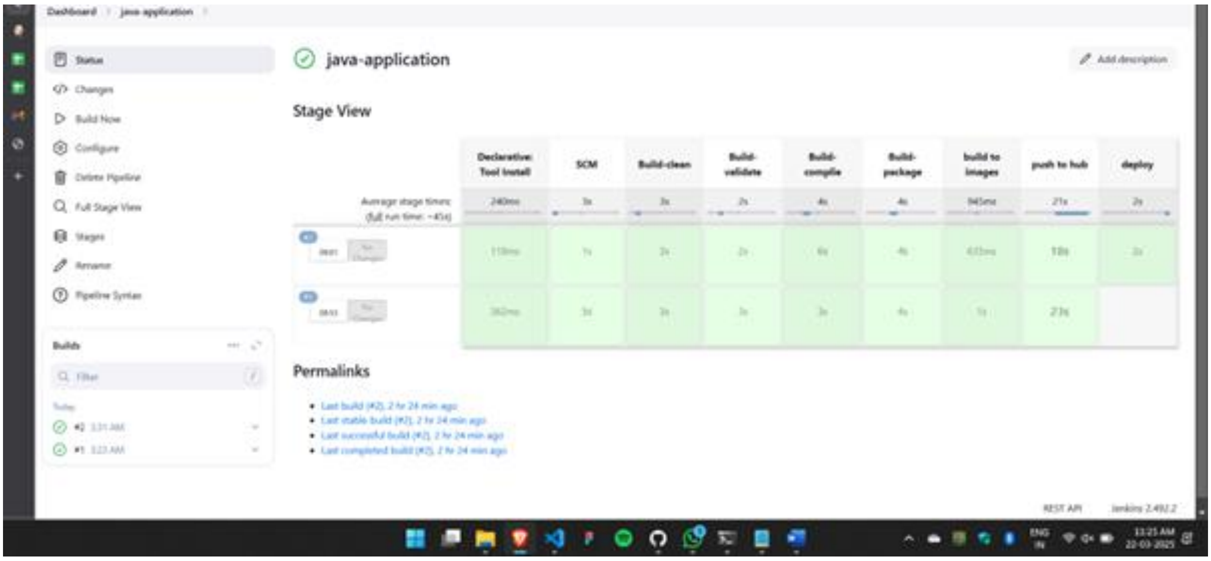
Started 32 sec ago
Build has been executing for 32 sec

This run spent 4 ms waiting in the queue.

Revision: 4bad788b7240260fe12e302bdf75fa479c854f4d
Repository: https://github.com/Sahasranm/devops2.git

- refs/remotes/origin/main

No changes.



Dashboard > java-application >

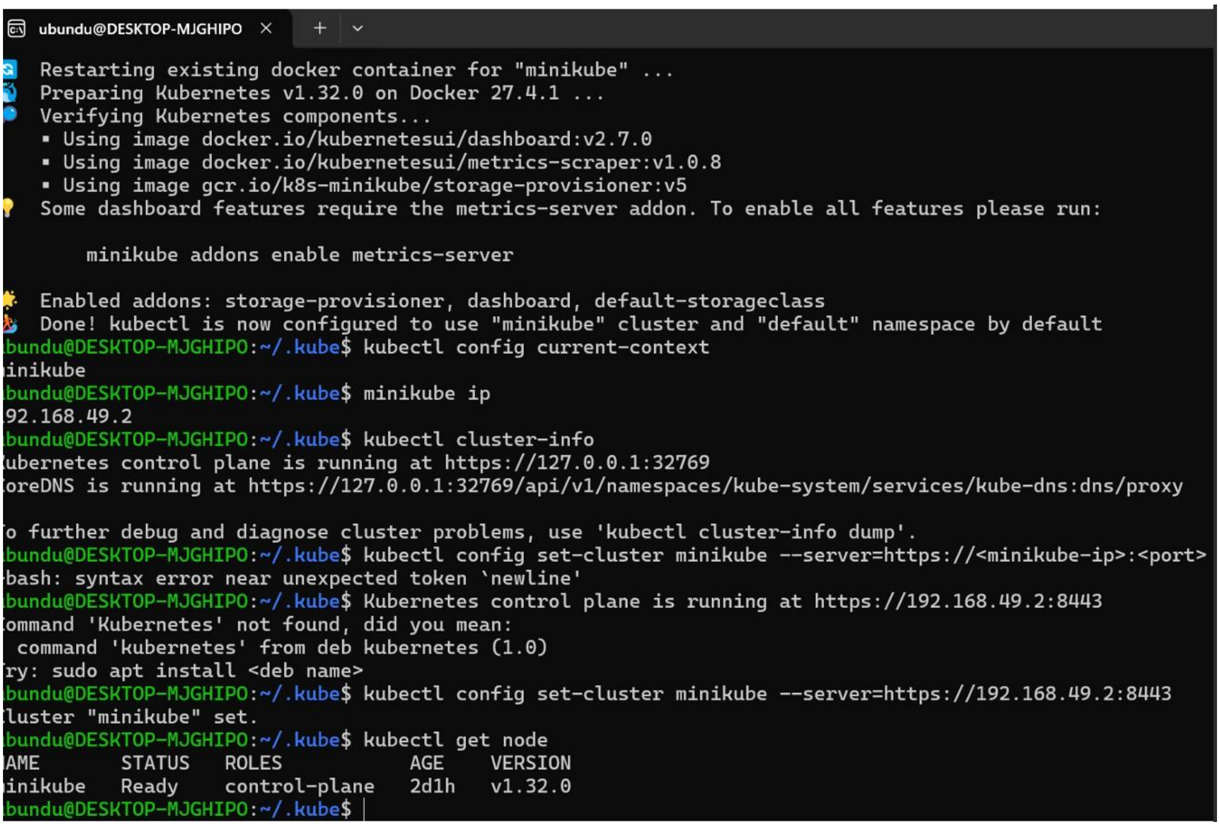
java-application

Stage View

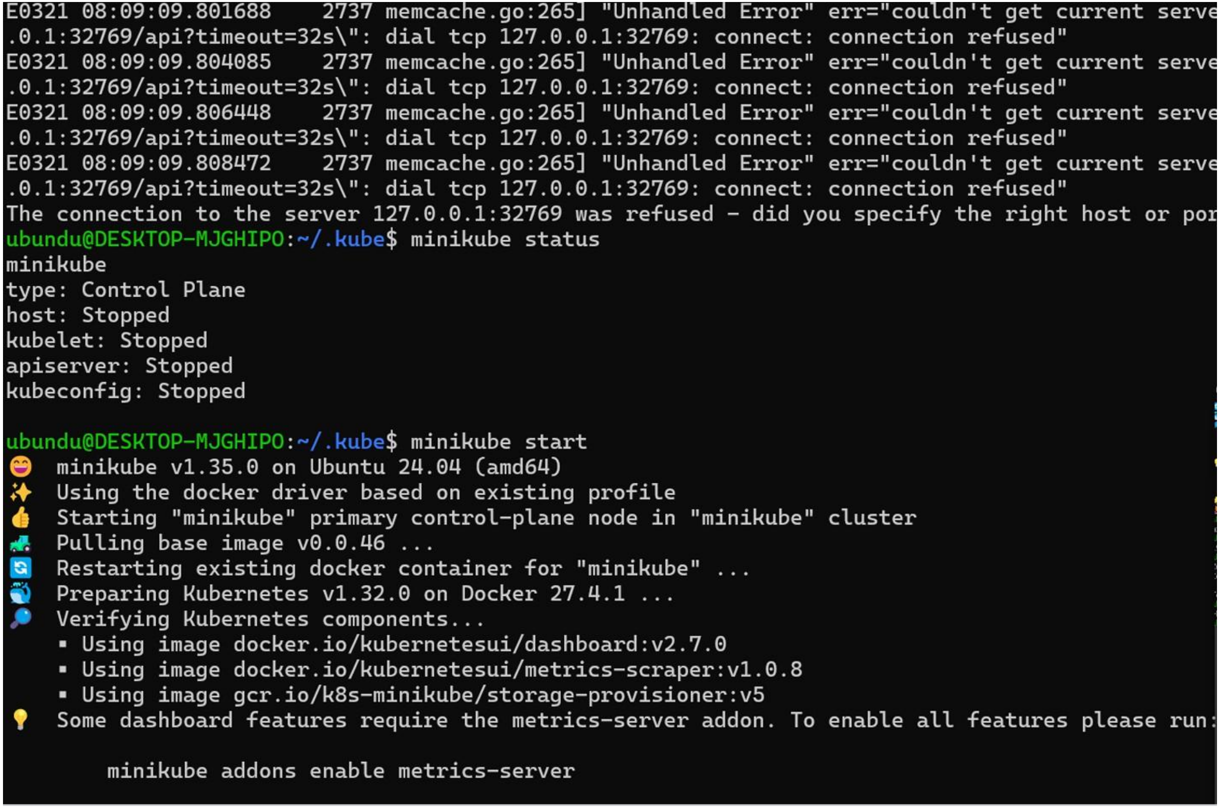
	Declarative: Tool Install	SCM	Build-clean	Build-validate	Build-compile	Build-package	build to images	push to hub	deploy
Average stage times: (full run time: ~45s)	240ms	3s	3s	2s	4s	4s	945ms	21s	2s
#2 [illegible]	110ms	1s	3s	2s	6s	4s	433ms	18s	2s
#1 [illegible]	362ms	5s	3s	3s	3s	4s	1s	23s	

Permalinks

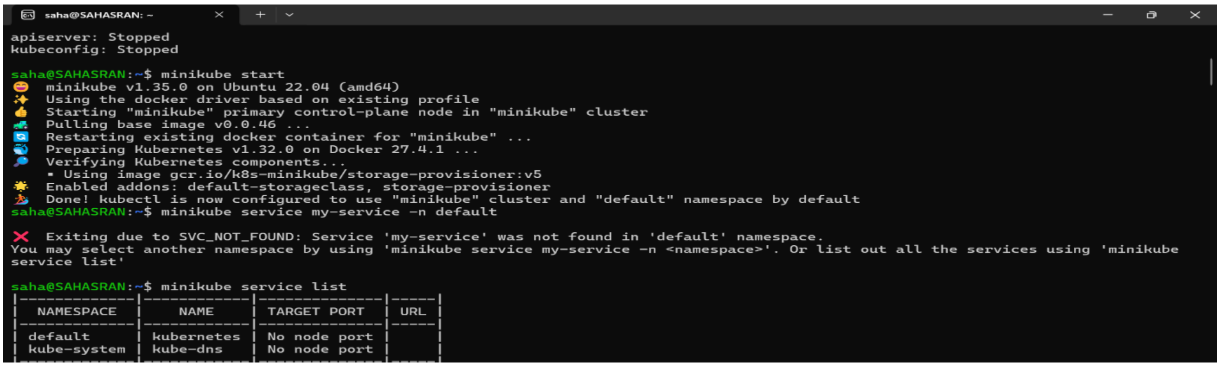
- Last build (#2), 2 hr 24 min ago
- Last stable build (#2), 2 hr 24 min ago
- Last successful build (#2), 2 hr 24 min ago
- Last completed build (#2), 2 hr 24 min ago



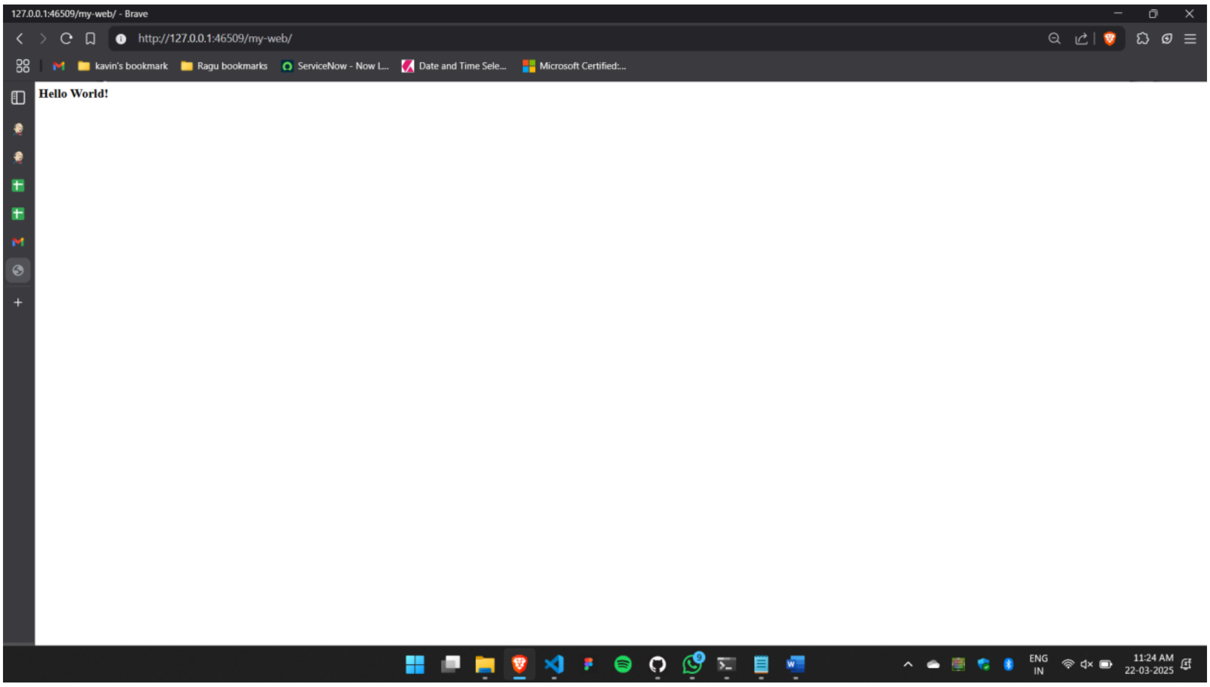
```
🔄 Restarting existing docker container for "minikube" ...
🐳 Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
🔎 Verifying Kubernetes components...
    ▪ Using image docker.io/kubernetesui/dashboard:v2.7.0
    ▪ Using image docker.io/kubernetesui/metrics-scraper:v1.0.8
    ▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
💡 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
inikube
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
ommand 'Kubernetes' not found, did you mean:
 command 'kubernetes' from deb kubernetes (1.0)
ry: sudo apt install <deb name>
bundu@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
AME        STATUS   ROLES           AGE    VERSION
inikube    Ready    control-plane   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
```



```
apiserver: Stopped
kubeconfig: Stopped

saha@SAHASRAN:~$ minikube start
😄  minikube v1.35.0 on Ubuntu 22.04 (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 gcr.io/k8s-minikube/storage-provisioner:v5
🌟  Enabled addons: default-storageclass, storage-provisioner
🏄  Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
saha@SAHASRAN:~$ minikube service my-service -n default

❌  Exiting due to SVC_NOT_FOUND: Service 'my-service' was not found in 'default' namespace.
You may select another namespace by using 'minikube service my-service -n <namespace>'. Or list out all the services using 'minikube
service list'

saha@SAHASRAN:~$ minikube service list
|-------------|------------|--------------|-----|
|  NAMESPACE  |    NAME    | TARGET PORT  | URL |
|-------------|------------|--------------|-----|
| default     | kubernetes | No node port |     |
| kube-system | kube-dns   | No node port |     |
```



Hello World!

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 my-service --url | xargs curl

Pipeline codes:

```
pipeline { agent
any

environment {
   DOCKER_CREDENTIALS = credentials('docker-hub-cred')  // Docker Hub Credentials ID
}

stages {     stage('SCM') {        steps {            git branch: 'main', url:
'<https://github.com/sahasranm/guvidevopsday1.git>'
      }
   }

   stage('Build')  {        steps {
sh "mvn clean"            sh "mvn
install"
      }
   }

   stage('Build Docker Image') {
      steps {           script {                sh 'docker build -t
sahasranm/devops .'
         }
      }
   }
   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:
'<https://github.com/ sahasranm/DevOps_simpleweb-app.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 sahasranm/webapplication ."

      }

      }

   }

   stage('docker push hub') {

      steps {        script{           withDockerRegistry(credentialsId: 'cred-2', url:

'<https://index.docker.io/v1/>') {            sh 'docker push praneshc/webapplication'

      }

      }

      }

   }

}}
```