

Java Application Minikube Deployment

Minikube deployment of java:

Minikube Command:

- Minikube start
- Minikube status
- Sudo nano deploy.yaml
- Sudo nano pod.yaml
- Kubectl apply -f pod.yaml
- Kubectl apply -f deploy.yaml
- Minikube service my-service
- For permission to, sudo visudo
- Kubectl get node
- Configuring config file in ~/.kube, Sudo vi config

Sudo visudo: update this, jenkins ALL=(ALL) NOPASSWD: ALL

Data updation in config file:

- sudo cat /home/prasanndh_raaju/.minikube/ca.crt
- sudo cat /home/prasanndh_raaju/.minikube/ca.crt | base64 -w 0; echo
- sudo cat /home/prasanndh_raaju/.minikube/profiles/minikube/client.crt | base64 -w 0; echo
- sudo cat /home/prasanndh_raaju/.minikube/profiles/minikube/client.key | base64 -w 0; echo

Deployment.yaml:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-deploy
  labels:
    app: my-deploy
spec:
  replicas: 1
  selector:
    matchLabels:
      apptype: web-backend
  strategy:
    type: RollingUpdate
  template:
    metadata:
      labels:
        apptype: web-backend
    spec:
```

containers:

- name: my-app
image: prasanndh_raaju/warimage-jenkins1:latest
- ports:
- containerPort: 8080 *# Change to 8080*

apiVersion: v1

kind: Service

metadata:

name: my-service

labels:

app: my-service

spec:

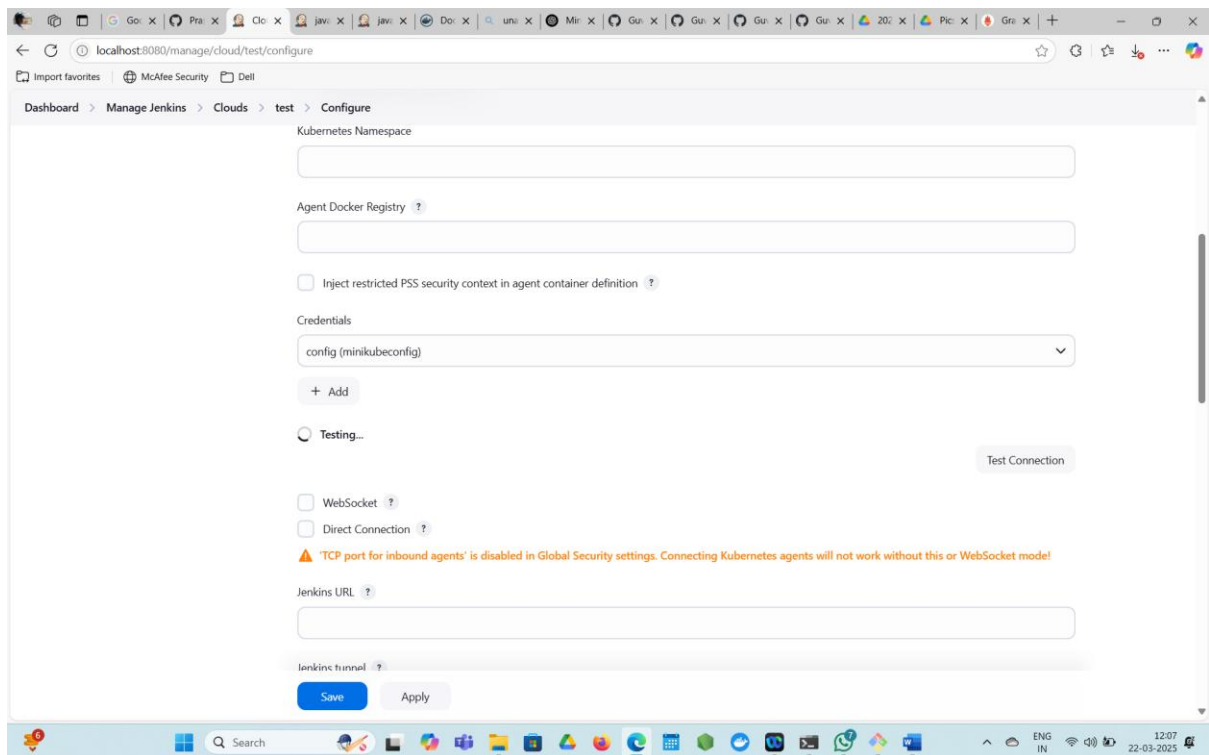
type: NodePort

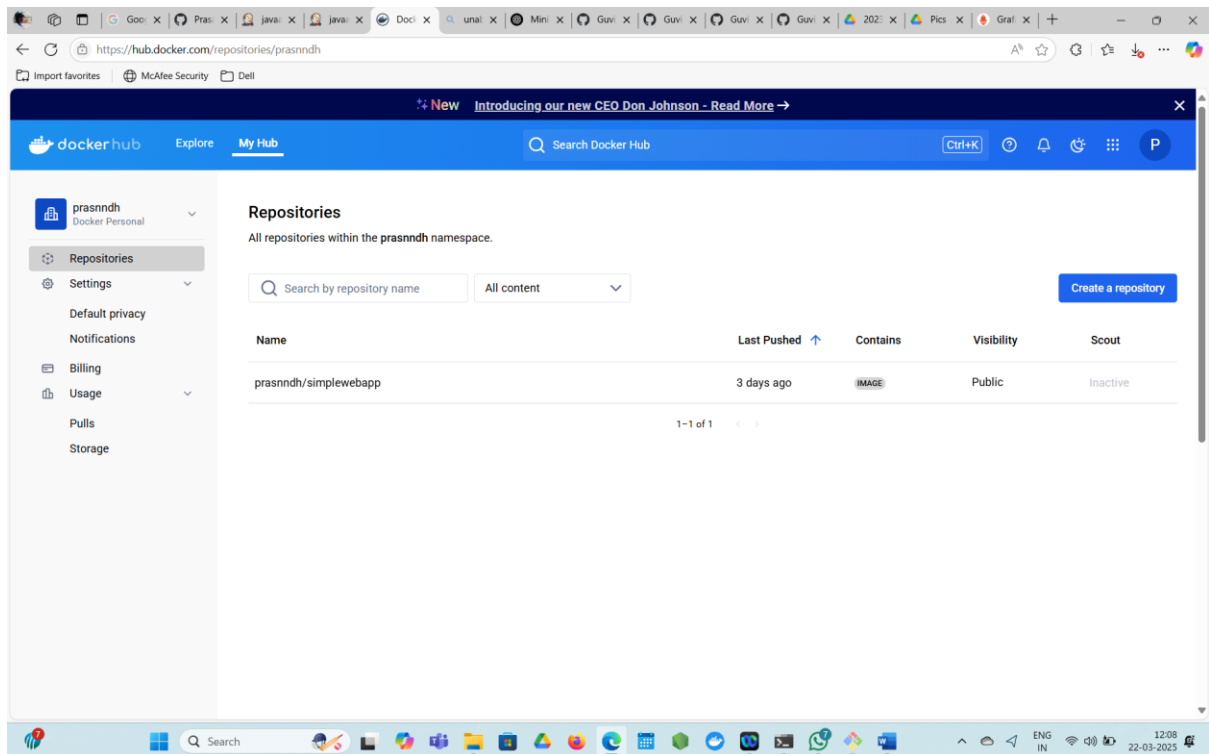
ports:

- targetPort: 8080 *# Change to 8080*
port: 8080
nodePort: 30078

selector:

apptype: web-backend





jenkins ALL=(ALL) NOPASSWD: ALL

```
sudo systemctl restart ssh.service  
sudo systemctl restart sshd.service
```

```
sudo apt update  
#Installing SSH key  
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
```

```
prasanndh.raaju@DESKTOP-503TDPN:~$ kubectl get node
NAME          STATUS    ROLES    AGE   VERSION
minikube      Ready    control-plane  47h   v1.32.0
prasanndh.raaju@DESKTOP-503TDPN:~$ cd ~/.kube
prasanndh.raaju@DESKTOP-503TDPN:~/.kube$ ls
cache  config
prasanndh.raaju@DESKTOP-503TDPN:~/.kube$ cat config
apiVersion: v1
clusters:
- cluster:
    certificate-authority: /home/prasanndh.raaju/.minikube/ca.crt
    extensions:
    - extension:
        last-update: Fri, 21 Mar 2025 04:54:53 UTC
        provider: minikube.sigs.k8s.io
        version: v1.35.0
        name: cluster_info
      server: https://127.0.0.1:32769
    name: minikube
contexts:
- context:
    cluster: minikube
    extensions:
    - extension:
        last-update: Fri, 21 Mar 2025 04:54:53 UTC
        provider: minikube.sigs.k8s.io
        version: v1.35.0
        name: context_info
      namespace: default
      user: minikube
    name: minikube
current-context: minikube
kind: Config
preferences: {}
users:
- name: minikube
  user:
    client-certificate: /home/prasanndh.raaju/.minikube/profiles/minikube/client.crt
    client-key: /home/prasanndh.raaju/.minikube/profiles/minikube/client.key
prasanndh.raaju@DESKTOP-503TDPN:~/.kube$ sudo vi config
prasanndh.raaju@DESKTOP-503TDPN:~/.kube$ kubectl get node
NAME          STATUS    ROLES    AGE   VERSION
minikube      Ready    control-plane  47h   v1.32.0
prasanndh.raaju@DESKTOP-503TDPN:~/.kube$
```

```
prasanndh.raaju@DESKTOP-503TDPN:~/.kube$ kubectl get node
NAME          STATUS    ROLES    AGE   VERSION
minikube      Ready    control-plane  47h   v1.32.0
prasanndh.raaju@DESKTOP-503TDPN:~/.kube$
```

```
prasanndh.raaju@DESKTOP-503TDPN:~/.kube$ kubectl get node
NAME          STATUS    ROLES    AGE   VERSION
minikube      Ready    control-plane  47h   v1.32.0
prasanndh.raaju@DESKTOP-503TDPN:~/.kube$
```

```
prasanndh_raaju@DESKTOP-S03TDPN:~$ minikube
type: Control Plane
host: Running
kublet: Running
apiserver: Running
kubeconfig: Configured

prasanndh_raaju@DESKTOP-S03TDPN:~$ kubectl get node
NAME      STATUS    ROLES    AGE   VERSION
minikube  Ready     control-plane  47h   v1.32.0

prasanndh_raaju@DESKTOP-S03TDPN:~$ cd ~/.kube
prasanndh_raaju@DESKTOP-S03TDPN:~/.kube$ ls
cache  config
prasanndh_raaju@DESKTOP-S03TDPN:~/.kube$ cat config
apiVersion: v1
clusters:
- cluster:
    certificate-authority: /home/prasanndh_raaju/.minikube/ca.crt
    extensions:
    - extension:
        last-update: Fri, 21 Mar 2025 04:54:53 UTC
        provider: minikube.sigs.k8s.io
        version: v1.35.0
      name: cluster_info
    server: https://127.0.0.1:32769
  name: minikube
contexts:
- context:
    cluster: minikube
    extensions:
    - extension:
        last-update: Fri, 21 Mar 2025 04:54:53 UTC
        provider: minikube.sigs.k8s.io
        version: v1.35.0
      name: context_info
    namespace: default
    user: minikube
  name: minikube
current-context: minikube
kind: Config
preferences: {}
users:
- name: minikube
  user:
    client-certificate: /home/prasanndh_raaju/.minikube/profiles/minikube/client.crt
    client-key: /home/prasanndh_raaju/.minikube/profiles/minikube/client.key
prasanndh_raaju@DESKTOP-S03TDPN:~/.kube$
```

```
prasanndh_raaju@DESKTOP-S03TDPN:~$ sudo chown -R jenkins:jenkins /home/prasanndh_raaju/.minikube
chmod -R u+rwx /home/prasanndh_raaju/.minikube
chmod: changing permissions of '/home/prasanndh_raaju/.minikube': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/logs': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/logs/lastStart.txt': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/logs/audit.json': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/proxy-client-ca.key': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/ca.pem': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/machines': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/machines/server-key.pem': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/machines/minikube': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/machines/minikube/config.json': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/machines/minikube/id_rsa': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/machines/minikube/id_rsa.pub': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/machines/server.pem': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/files': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/addons': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/profiles': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/profiles/minikube': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/profiles/minikube/config.json': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/profiles/minikube/apiserver.crt.7fb57e3c': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/profiles/minikube/apiserver-key.7fb57e3c': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/profiles/minikube/proxy-client.crt': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/profiles/minikube/client.crt': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/profiles/minikube/events.json': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/profiles/minikube/client.key': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/profiles/minikube/apiserver.crt': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/profiles/minikube/apiserver.key': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/profiles/minikube/proxy-client.key': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/cert.pem': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/key.pem': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/ca.key': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/proxy-client-ca.crt': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/machine_client.lock': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/certs': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/certs/ca.pem': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/certs/cert.pem': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/certs/key.pem': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/certs/ca-key.pem': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/cache': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/cache/kic': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/cache/kic/and64': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/cache/kic/and64/kicbase_v0.0.46@sha256_fd2d445ddcc33ebc5c6b68a17e6219ea207ce63c005095ea1525296da2d1a279.tar': Operation not permitted
```

```
Windows PowerShell
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/cache/linux/amd64/v1.32.0': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/cache/linux/amd64/v1.32.0/kubeadm': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/cache/linux/amd64/v1.32.0/kubect1': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/cache/linux/amd64/v1.32.0/kubect1': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/cache/preloaded-tarball': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/cache/preloaded-tarball/preloaded-images-k8s-v18-v1.32.0-docker-overlay2-amd64.tar.lz4.checksum': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/cache/preloaded-tarball/preloaded-images-k8s-v18-v1.32.0-docker-overlay2-amd64.tar.lz4': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/ca.crt': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/config': Operation not permitted
prasanndh_raaju@DESKTOP-S03TDPN: /var/lib/jenkins$ sudo chown -R jenkins:jenkins /home/prasanndh_raaju/.minikube
prasanndh_raaju@DESKTOP-S03TDPN: /var/lib/jenkins$ export KUBECONFIG=/home/prasanndh_raaju/.kube/config
prasanndh_raaju@DESKTOP-S03TDPN: /var/lib/jenkins$ sudo systemctl restart jenkins
prasanndh_raaju@DESKTOP-S03TDPN: /var/lib/jenkins$ sudo visudo
visudo: /etc/sudoers.tmp unchanged
prasanndh_raaju@DESKTOP-S03TDPN: /var/lib/jenkins$ cd
prasanndh_raaju@DESKTOP-S03TDPN: $ nano deployment.yml
prasanndh_raaju@DESKTOP-S03TDPN: $ kubectl apply -f
prasanndh_raaju@DESKTOP-S03TDPN: .profile
prasanndh_raaju@DESKTOP-S03TDPN: .bash_logout
prasanndh_raaju@DESKTOP-S03TDPN: .sudo_as_admin_successful
prasanndh_raaju@DESKTOP-S03TDPN: Jenkinsfile
prasanndh_raaju@DESKTOP-S03TDPN: Jenkinsfile.save
prasanndh_raaju@DESKTOP-S03TDPN: deploy.yml
prasanndh_raaju@DESKTOP-S03TDPN: deployment.yml
prasanndh_raaju@DESKTOP-S03TDPN: docker-compose.yml
prasanndh_raaju@DESKTOP-S03TDPN: pod
prasanndh_raaju@DESKTOP-S03TDPN: pod.yml
prasanndh_raaju@DESKTOP-S03TDPN: motdShown
prasanndh_raaju@DESKTOP-S03TDPN: yml
prasanndh_raaju@DESKTOP-S03TDPN: $ kubectl apply -f deployment.yml
deployment.apps/my-deploy configured
service/my-service unchanged
prasanndh_raaju@DESKTOP-S03TDPN: $ minikube service my-service --url
Exiting due to HOST_HOME_PERMISSION: open /home/prasanndh_raaju/.minikube/profiles/minikube/config.json: permission denied
Suggestion: Your user lacks permissions to the minikube profile directory. Run: 'sudo chown -R $USER $HOME/.minikube; chmod -R u+wx $HOME/.minikube' to fix
Related issue: https://github.com/kubernetes/minikube/issues/9165
prasanndh_raaju@DESKTOP-S03TDPN: $ sudo chown -R $USER:$USER $HOME/.minikube
[sudo] password for prasanndh_raaju:
prasanndh_raaju@DESKTOP-S03TDPN: $ chmod -R u+wx $HOME/.minikube
prasanndh_raaju@DESKTOP-S03TDPN: $ minikube service my-service --url
docker@127.0.0.1's password: http://127.0.0.1:36641
! Because you are using a Docker driver on linux, the terminal needs to be open to run it.
```

```

.kube/          deployment.yml
landscape/      docker-compose.yml
.local/         pod
.minikube/      pod.yml
.motd_shown    yaml
prasanndh_raaju@DESKTOP-S03TDPN: $ kubectl apply -f deployment.yml
deployment.apps/my-deploy configured
service/my-service unchanged
prasanndh_raaju@DESKTOP-S03TDPN: $ minikube service my-service --url

✖ Exiting due to HOST_HOME_PERMISSION: open /home/prasanndh_raaju/.minikube/profiles/minikube/config.json: permission denied
💡 Suggestion: Your user lacks permissions to the minikube profile directory. Run: 'sudo chown -R $USER $HOME/.minikube; chmod -R u+wxr $HOME/.minikube' to fix
🔗 Related issue: https://github.com/kubernetes/minikube/issues/9165

prasanndh_raaju@DESKTOP-S03TDPN: $ sudo chown -R $USER:$USER $HOME/.minikube
[sudo] password for prasanndh_raaju:
prasanndh_raaju@DESKTOP-S03TDPN: $ chmod -R u+wxr $HOME/.minikube
prasanndh_raaju@DESKTOP-S03TDPN: $ minikube service my-service --url
docker@127.0.0.1's password: http://127.0.0.1:36641
! Because you are using a Docker driver on linux, the terminal needs to be open to run it.

prasanndh_raaju@DESKTOP-S03TDPN: $ minikube service my-services

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

prasanndh_raaju@DESKTOP-S03TDPN: $ minikube service my-service
+-----+-----+-----+-----+
| NAMESPACE | NAME   | TARGET PORT | URL               |
+-----+-----+-----+-----+
| default    | my-service | 9000        | http://192.168.49.2:30002 |
+-----+-----+-----+-----+

🔗 Starting tunnel for service my-service.
docker@127.0.0.1's password: |-----|-----|-----|
+-----+-----+-----+-----+
| NAMESPACE | NAME   | TARGET PORT | URL               |
+-----+-----+-----+-----+
| default    | my-service |             | http://127.0.0.1:39645 |
+-----+-----+-----+-----+

🔗 Opening service default/my-service in default browser...
🔗 http://127.0.0.1:39645
! Because you are using a Docker driver on linux, the terminal needs to be open to run it.

🔗 Stopping tunnel for service my-service.
prasanndh_raaju@DESKTOP-S03TDPN: $ kubectl port-forward svc/my-service 8000:

```

- minikube service my-service
- curl <http://192.168.49.2:30002/my-web/>
- chmod -R u+wxr \$HOME/.minikube
- minikube service my-services
- kubectl port-forward svc/my-service 8000:9000

```
[sudo] password for prasannh_raaju:
prasannh_raaju@DESKTOP-S03TDPN: $ chmod -R u+wx $HOME/.minikube
prasannh_raaju@DESKTOP-S03TDPN: $ minikube service my-service --url
docker@127.0.0.1's password: http://127.0.0.1:36641
! Because you are using a Docker driver on linux, the terminal needs to be open to run it.

prasannh_raaju@DESKTOP-S03TDPN: $ minikube service my-service

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

prasannh_raaju@DESKTOP-S03TDPN: $ minikube service my-service
+-----+-----+-----+-----+
| NAMESPACE | NAME   | TARGET PORT | URL               |
+-----+-----+-----+-----+
| default   | my-service | 9000        | http://192.168.49.2:30002 |
+-----+-----+-----+-----+

★ Starting tunnel for service my-service.
docker@127.0.0.1's password: |-----|-----|-----|
+-----+-----+-----+-----+
| NAMESPACE | NAME   | TARGET PORT | URL               |
+-----+-----+-----+-----+
| default   | my-service | 9000        | http://127.0.0.1:39645 |
+-----+-----+-----+-----+

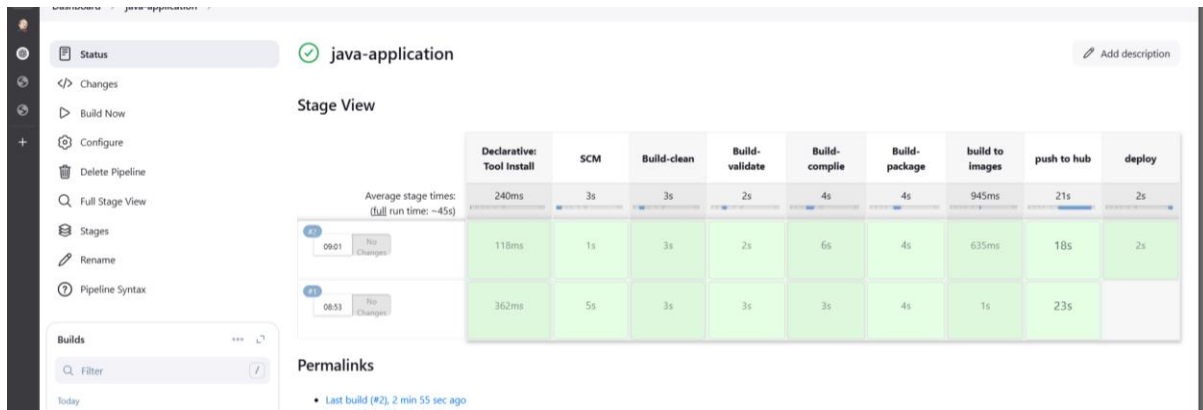
🔗 Opening service default/my-service in default browser...
http://127.0.0.1:39645
! Because you are using a Docker driver on linux, the terminal needs to be open to run it.

🛑 Stopping tunnel for service my-service.
prasannh_raaju@DESKTOP-S03TDPN: $ kubectl port-forward svc/my-service 8000:
9000
Forwarding from 127.0.0.1:8000 -> 8000
Forwarding from [::]:8000 -> 8000
Handling connection for 8000
Handling connection for 8000
Handling connection for 8000
Handling connection for 8000
^Cprasannh_raaju@DESKTOP-S03TDPN: $ kubectl delete all --all
pod "my-deploy-5fd77cc989-z2gkv" deleted
service "kubernetes" deleted
service "my-service" deleted
deployment.apps "my-deploy" deleted
prasannh_raaju@DESKTOP-S03TDPN: $
prasannh_raaju@DESKTOP-S03TDPN: $
prasannh_raaju@DESKTOP-S03TDPN: $
prasannh_raaju@DESKTOP-S03TDPN: $ sudo useradd \
```

Pipeline Stages:

```
Dashboard > javaapplication > #14

4b7c01ed0534: Waiting
bc05267c613b: Layer already exists
4e5b554b7345: Layer already exists
43c9f8a1dd61: Layer already exists
5f70bf18a086: Layer already exists
f844dcf94898: Layer already exists
4b7c01ed0534: Layer already exists
3359bc3d7a6a: Layer already exists
39cf0ac89a5a: Layer already exists
5426cdfa8811: Pushed
latest: digest: sha256:91cbfcd04e63895951c9867c87a817f0b83c3fab44ce71312c72437587ba1a1 size: 2409
[Pipeline] }
[Pipeline] // withDockerRegistry
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (deploy)
[Pipeline] script
[Pipeline] {
[Pipeline] withKubeCredentials
[Pipeline] {
[Pipeline] sh
+ kubectl apply -f deployment.yml --validate=false
Error in configuration:
* unable to read client-cert /home/prasannh_raaju/.minikube/profiles/minikube/client.crt for minikube due to open
/home/prasannh_raaju/.minikube/profiles/minikube/client.crt: permission denied
* unable to read client-key /home/prasannh_raaju/.minikube/profiles/minikube/client.key for minikube due to open
/home/prasannh_raaju/.minikube/profiles/minikube/client.key: permission denied
* unable to read certificate-authority /home/prasannh_raaju/.minikube/ca.crt for minikube due to open
/home/prasannh_raaju/.minikube/ca.crt: permission denied
```

JenkinsFile :

```

pipeline {
    agent any

    stages {
        stage('Clone Git Repository') {
            steps {
                git 'https://github.com/PrasannndhRaaju-MR/Devops_Guvi_WAR.git'
            }
        }

        stage('Build WAR File') {
            steps {
                sh 'mvn clean package' // Build WAR file using Maven
            }
        }

        stage('Build Docker Image') {
            steps {
                script {
                    sh 'docker build -t warimage-jenkins .'
                    sh 'docker tag warimage-jenkins prasannndh_raaju/warimage-jenkins1'
                }
            }
        }

        // stage('Run Docker Container') { // Optional stage to test the container
        //     steps {
        //         script {
        //             sh 'docker run -d -p 8888:8080 --name war-container-jenkins warimage-jenkins'
        //         }
        //     }
        // }

        stage('Push to Docker Hub') {
            steps {
                script {
                    withDockerRegistry(credentialsId: 'dockerhub_token', url: 'https://index.docker.io/v1/') {
                        sh 'docker push prasannndh/warimage-jenkins1'
                    }
                }
            }
        }
    }
}

```



```

    }
  }
}

stage('Deploy with deployment.yml') {
  steps {
    withKubeConfig(caCertificate: "", clusterName: 'minikube', contextName: 'minikube',
credentialsId: 'MiniKube_ID', namespace: "", restrictKubeConfigAccess: false, serverUrl:
'https://192.168.49.2:8443') {
      sh 'kubectl apply -f deployment.yml'
    }
  }
}

// stage('Test') {
//   steps {
//     withKubeConfig(caCertificate: "", clusterName: 'minikube', contextName: 'minikube',
credentialsId: 'MiniKube_ID', namespace: "", restrictKubeConfigAccess: false, serverUrl:
'https://192.168.49.2:32274') {
//       sh ""
//     }
//   }
// }
}
}

```

Output:

The screenshot shows a web browser window on the left displaying 'Hello World!' at the URL 127.0.0.1:8000/maven-web-app/. On the right is a terminal window with the following commands and output:

```

prasannndh.raaju@DESKTOP-S03TDPN: $ sudo chown -R $USER:$USER $HOME/.minikube
[sudo] password for prasannndh.raaju:
prasannndh.raaju@DESKTOP-S03TDPN: $ chmod -R u+wx $HOME/.minikube
prasannndh.raaju@DESKTOP-S03TDPN: $ minikube service my-service --url
docker@127.0.0.1's password: http://127.0.0.1:36641
! Because you are using a Docker driver on linux, the terminal needs to be
open to run it.

prasannndh.raaju@DESKTOP-S03TDPN: $ minikube service my-services

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

prasannndh.raaju@DESKTOP-S03TDPN: $ minikube service my-service

```

NAMESPACE	NAME	TARGET PORT	URL
default	my-service	9000	http://192.168.49.2:30002

```

✨ Starting tunnel for service my-service.
docker@127.0.0.1's password: |-----|-----|-----|-----|
| NAMESPACE | NAME | TARGET PORT | URL |
|-----|-----|-----|-----|
| default | my-service | 9000 | http://127.0.0.1:39645 |
|-----|-----|-----|-----|
🔗 Opening service default/my-service in default browser...
👉 http://127.0.0.1:39645
! Because you are using a Docker driver on linux, the terminal needs to be
open to run it.

🛑 Stopping tunnel for service my-service.
prasannndh.raaju@DESKTOP-S03TDPN: $ kubectl port-forward svc/my-service 8000:
9000
Forwarding from 127.0.0.1:8000 -> 8000
Forwarding from [::1]:8000 -> 8000
Handling connection for 8000
Handling connection for 8000
Handling connection for 8000
Handling connection for 8000

```

127.0.0.1:8000/maven-web-app/

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```
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/cache/preload-tarball/preloaded-images-k8s-v18-v1.32.0-docker-overlay2-amd64.tar.lz4.c
hecksum': Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/cache/preload-tarball/preloaded-images-k8s-v18-v1.32.0-docker-overlay2-amd64.tar.lz4':
Operation not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/ca.crt': Ope
ration not permitted
chmod: changing permissions of '/home/prasanndh_raaju/.minikube/config': Ope
ration not permitted
prasanndh_raaju@DESKTOP-S03TDPN: /var/lib/jenkins$ sudo chown -R jenkins:jenk
ins /home/prasanndh_raaju/.minikube
prasanndh_raaju@DESKTOP-S03TDPN: /var/lib/jenkins$ export KUBECONFIG=/home/pr
asanndh_raaju/.kube/config
prasanndh_raaju@DESKTOP-S03TDPN: /var/lib/jenkins$ sudo systemctl restart jen
kins
prasanndh_raaju@DESKTOP-S03TDPN: /var/lib/jenkins$ sudo visudo
visudo: /etc/sudoers.tmp unchanged
prasanndh_raaju@DESKTOP-S03TDPN: /var/lib/jenkins$ cd
prasanndh_raaju@DESKTOP-S03TDPN: $ nano deployment.yml
prasanndh_raaju@DESKTOP-S03TDPN: $ kubectl apply -f
.bash_history          .profile
.bash_logout          .sudo_as_admin_successful
.bashrc               Jenkinsfile
.cache/               Jenkinsfile.save
.docker/              deploy.yml
.kube/                 deployment.yml
.landscape/           docker-compose.yml
.local/               pod
.minikube/             pod.yml
.motd_shown           yml
prasanndh_raaju@DESKTOP-S03TDPN: $ kubectl apply -f deployment.yml
deployment.apps/my-deploy configured
service/my-service unchanged
prasanndh_raaju@DESKTOP-S03TDPN: $ minikube service my-service --url

✖ Exiting due to HOST_HOME_PERMISSION: open /home/prasanndh_raaju/.minikub
e/profiles/minikube/config.json: permission denied
💡 Suggestion: Your user lacks permissions to the minikube profile director
y. Run: 'sudo chown -R $USER $HOME/.minikube; chmod -R u+wx $HOME/.minikube
' to fix
🔗 Related issue: https://github.com/kubernetes/minikube/issues/9165
prasanndh_raaju@DESKTOP-S03TDPN: $ sudo chown -R $USER:$USER $HOME/.minikube
```

127.0.0.1:8000/maven-web-app/

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