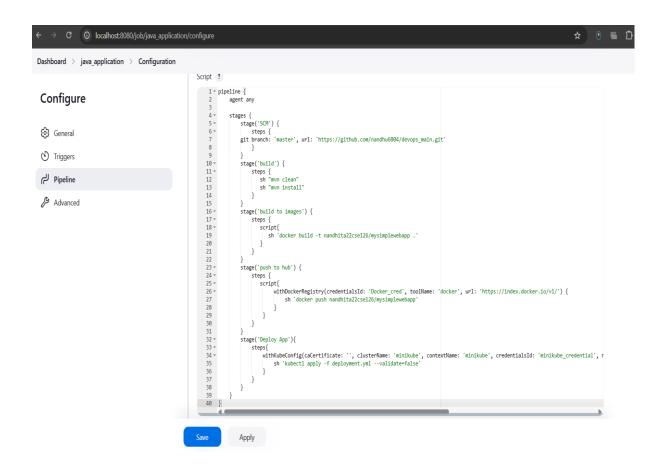
## JAVA APPLICATION MINIKUBE DEPLOYMENT

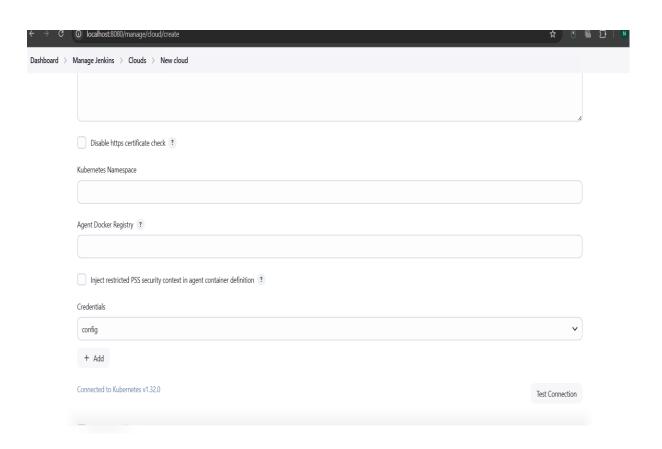
```
nandhu2645@LAPTOP-1TVBND2B:~$ minikube start
minikube v1.35.0 on Ubuntu 24.04 (amd64)
 Using the docker driver based on existing profile
 Starting "minikube" primary control-plane node in "minikube" cluster
🤼 Pulling base image v0.0.46 ...
Restarting existing docker container for "minikube" ...
💈 StartHost failed, but will try again: provision: get ssh host-port: get port 22 for "minikube": docker container inspect -f "'{{(index (inde
x .NetworkSettings.Ports "22/tcp") 0).HostPort}}'" minikube: exit status 1
stdout:
stderr:
template parsing error: template: :1:4: executing "" at <index (index .NetworkSettings.Ports "22/tcp") 0>: error calling index: reflect: slice i
ndex out of range
 Updating the running docker "minikube" container ...
Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
Verifying Kubernetes components...

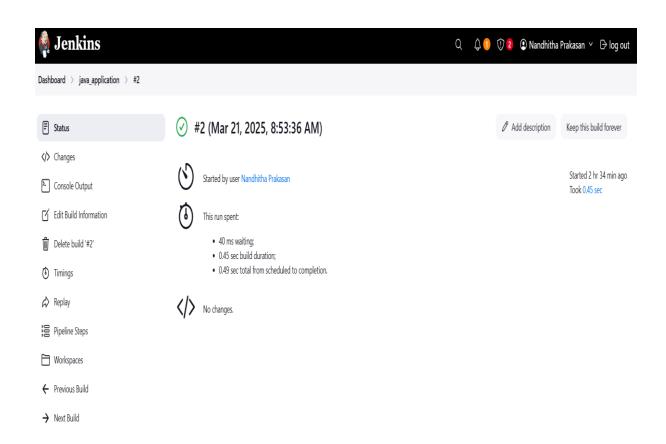
    Using image gcr.io/k8s-minikube/storage-provisioner:v5

Enabled addons: storage-provisioner, default-storageclass
🏂 Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
E0321 06:17:00.796627 6054 logFile.go:53] failed to close the audit log: invalid argument
nandhu2645@LAPTOP-1TVBND2B: $ cd ~/.kube
nandhu2645@LAPTOP-1TVBND2B: ~/.kube$ sudo vi config
[sudo] password for nandhu2645:
nandhu2645@LAPTOP-1TVBND2B:~/.kube$ kubectl get node
         STATUS ROLES
                                   AGE VERSION
minikube Ready control-plane 14h v1.32.0
nandhu2645@LAPTOP-1TVBND2B:~/.kub¤$
```

```
anandhu2645@LAPTOP-1TVBNI × 🧕 nandhu2645@LAPTOP-1TVBN ×
nandhu2645@LAPTOP-1TVBND2B:~$ cat ~/.kube/config
apiVersion: v1
clusters:
- cluster:
    certificate-authority: /home/nandhu2645/.minikube/ca.crt
    extensions:
    - extension:
        last-update: Sat, 22 Mar 2025 07:45:41 UTC
        provider: minikube.sigs.k8s.io
        version: v1.35.0
      name: cluster_info
    server: https://127.0.0.1:51669
 name: minikube
contexts:
- context:
   cluster: minikube
   extensions:
    - extension:
        last-update: Sat, 22 Mar 2025 07:45:41 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
    client-certificate: /home/nandhu2645/.minikube/profiles/minikube/client.crt
    client-key: /home/nandhu2645/.minikube/profiles/minikube/client.key
nandhu2645@LAPTOP-1TVBND2B:~$
```





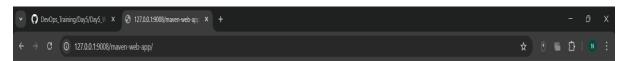


```
nandhu2645@LAPTOP-1TVBN X
nandhu2645@LAPTOP-1TVBND2B:~$ cat deployment.yml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-deploy
  labels:
    name: my-deploy
spec:
  replicas: 1
  selector:
    matchLabels:
      apptype: web-backend
  strategy:
    type: RollingUpdate
  template:
    metadata:
      labels:
        apptype: web-backend
    spec:
      containers:
      - name: my-app
        image: nandhita22cse126/mysimplewebapp:latest
        ports:
        - containerPort: 9008
apiVersion: v1
kind: Service
metadata:
  name: my-service
  labels:
    app: my-service
spec:
  type: NodePort
  ports:
    - targetPort: 8080
      port: 9008
      nodePort: 30008
  selector:
    apptype: web-backend
```

```
    □ nandhu2645@LAPTOP-1TVBN ×

 nandhu2645@LAPTOP-1TVBND2B:~$ 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 gcr.io/k8s-minikube/storage-provisioner:v5
Enabled addons: default-storage-lass, storage-provisioner
Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
E0322 06:05:57.597826 1133 logFile.go:53] failed to close the audit log: invalid argument
nandhu2645@LAPTOP-1TVBND2B:~$ ls
Jenkinsfile config deployment.yml devops_main pod.yml rs-test.yml
nandhu2645@LAPTOP-1TVBND2B:~$ kubectl get pod
No resources found in default namespace.
nandhu2645@LAPTOP-1TVBND2B:~$ sudo nano deployment.yml
[sudo] password for nandhu2645:
     dhu2645@LAPTOP-1TVBND2B:~$ kubectl apply -f deployment.yml
deployment.apps/my-deploy created
 service/my-service created
 nandhu2645@LAPTOP-1TVBND2B:~$ minikube service my-service
   NAMESPACE
                         NAME
                                        TARGET PORT
   default
                                                             http://192.168.58.2:30008
                    my-service
     Starting tunnel for service my-service.
   NAMESPACE
                         NAME
                                         TARGET PORT
                                                                           URL
   default
                    my-service
                                                             http://127.0.0.1:34969
      Opening service default/my-service in default browser...
http://127.0.0.1:34969
    Because you are using a Docker driver on linux, the terminal needs to be open to run it.
Cost the audit log: invalid argument nandhu2645@LAPTOP-1TVBND28:~$ kubectl port-forward svc/my-service 9008:9008
Forwarding from 127.0.0.1:9008 -> 8080
Forwarding from [::1]:9008 -> 8080
```



Hello World!

## Deployment.yml

```
apiVersion: apps/v1
kind: Deployment
metadata:
name: my-deploy
labels:
  name: 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: nandhita22cse126/mysimplewebapp:latest
    ports:
    - containerPort: 9008
apiVersion: v1
kind: Service
metadata:
```

name: my-service

labels:

app: my-service

spec:

type: NodePort