

```

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 (index .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 index 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
NAME      STATUS    ROLES    AGE   VERSION
minikube  Ready     control-plane  14h   v1.32.0
nandhu2645@LAPTOP-1TVBND2B:~/.kube$

```

```
nandhu2645@LAPTOP-17VBN2B7: ~$ cat ~/.minikube/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
```

```
  user:
```

```
    client-certificate: /home/nandhu2645/.minikube/profiles/minikube/client.crt
```

```
    client-key: /home/nandhu2645/.minikube/profiles/minikube/client.key
```

localhost:8080/job/java_application/configure

Dashboard > java_application > Configuration

Configure

- General
- Triggers
- Pipeline**
- Advanced

Script ?

```
1 pipeline {
2   agent any
3
4   stages {
5     stage('SCM') {
6       steps {
7         git branch: 'master', url: 'https://github.com/nandhu6804/devops_main.git'
8       }
9     }
10    stage('build') {
11      steps {
12        sh "mvn clean"
13        sh "mvn install"
14      }
15    }
16    stage('build to images') {
17      steps {
18        script{
19          sh "docker build -t nandhita22cse126/mysimplewebapp ."
20        }
21      }
22    }
23    stage('push to hub') {
24      steps {
25        script{
26          withDockerRegistry(credentialsId: 'Docker_cred', toolName: 'docker', url: 'https://index.docker.io/v1/') {
27            sh "docker push nandhita22cse126/mysimplewebapp"
28          }
29        }
30      }
31    }
32    stage('Deploy App'){
33      steps{
34        withKubeConfig(caCertificate: '', clusterName: 'minikube', contextName: 'minikube', credentialsId: 'minikube_credential', r
35        sh "kubectl apply -f deployment.yml --validate=false"
36      }
37    }
38  }
39 }
40 }
```

Save Apply

localhost:8080/manage/cloud/create

Dashboard > Manage Jenkins > Clouds > New cloud

☐ Disable https certificate check ?

Kubernetes Namespace

Agent Docker Registry ?

☐ Inject restricted PSS security context in agent container definition ?

Credentials

config ▼

+ Add

Connected to Kubernetes v1.32.0

Test Connection

Status

</> Changes

📄 Console Output

📝 Edit Build Information

🗑 Delete build '#2'

🕒 Timings

🔄 Replay

📋 Pipeline Steps

📁 Workspaces

⬅ Previous Build

➡ Next Build

✔ #2 (Mar 21, 2025, 8:53:36 AM)

📝 Add description

Keep this build forever

🕒 Started by user [Nandhitha Prakashan](#)

Started 2 hr 34 min ago
Took [0.45 sec](#)

🕒 This run spent:

- 40 ms waiting;
- 0.45 sec build duration;
- 0.49 sec total from scheduled to completion.

</> No changes.

```
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
```

```

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🔄 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
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:
nandhu2645@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	URL
default	my-service	9008	http://192.168.58.2:30008

```

🌟 Starting tunnel for service my-service.

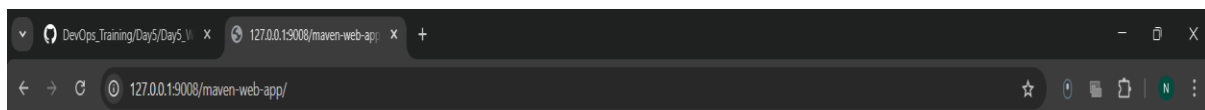
```

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.
^C 🐹 Stopping tunnel for service my-service.
E0322 06:11:30.563315 1835 logFile.go:53] failed to close the audit log: invalid argument
nandhu2645@LAPTOP-1TVBND2B:~$ 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