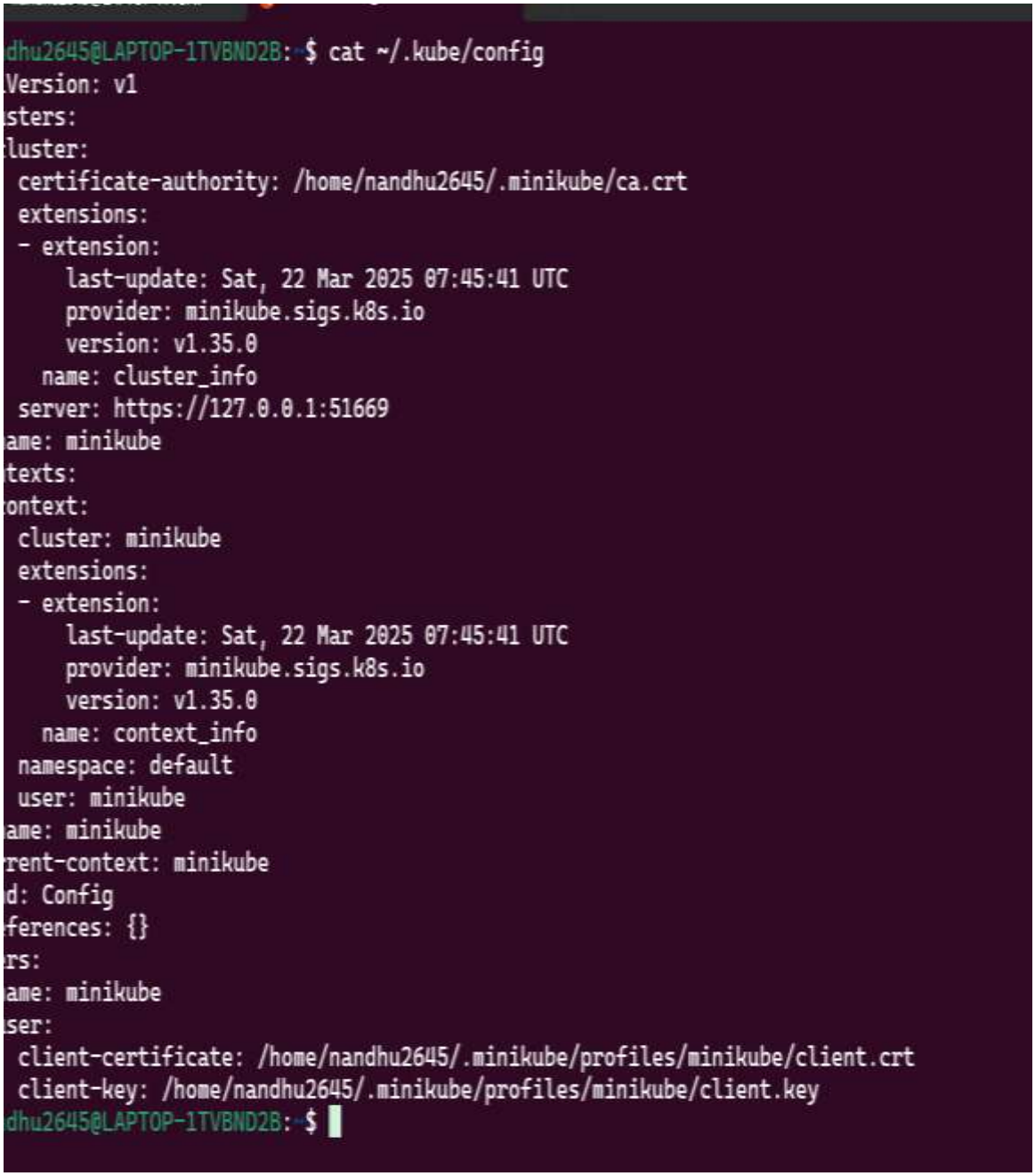
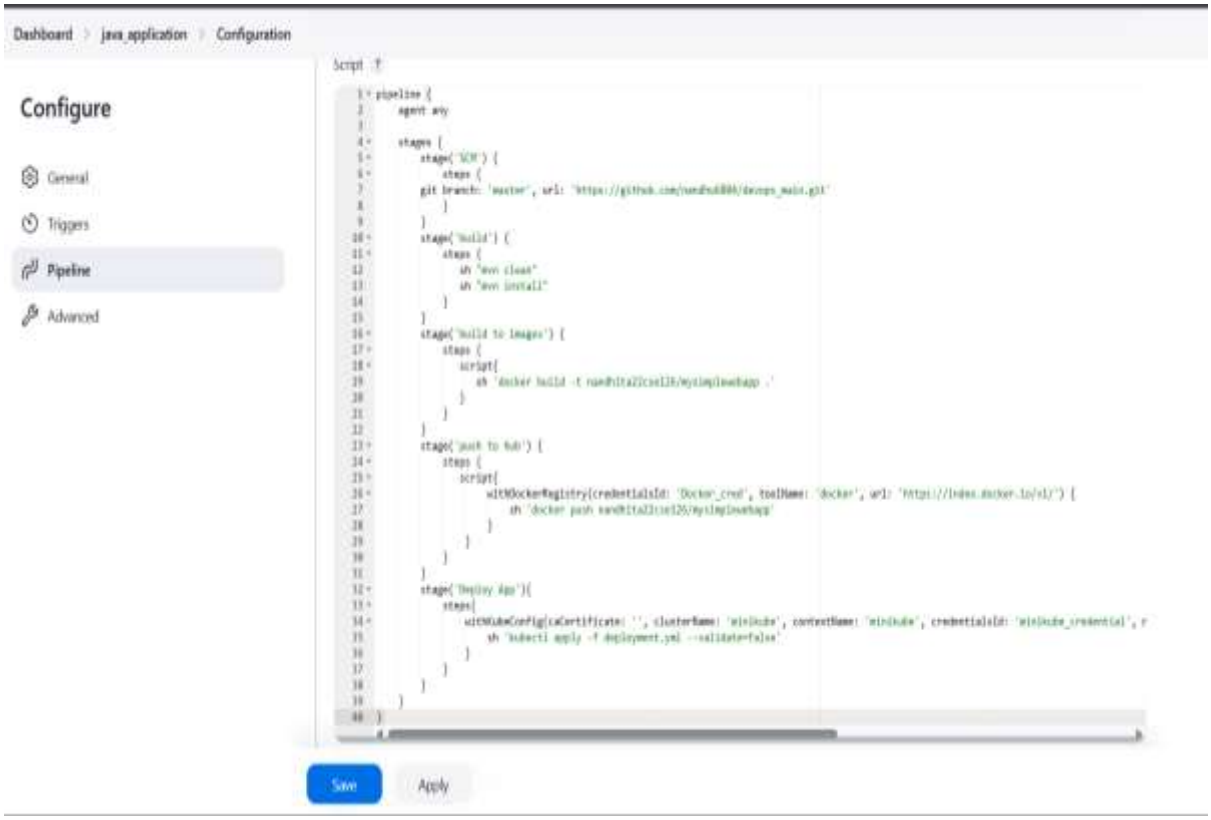
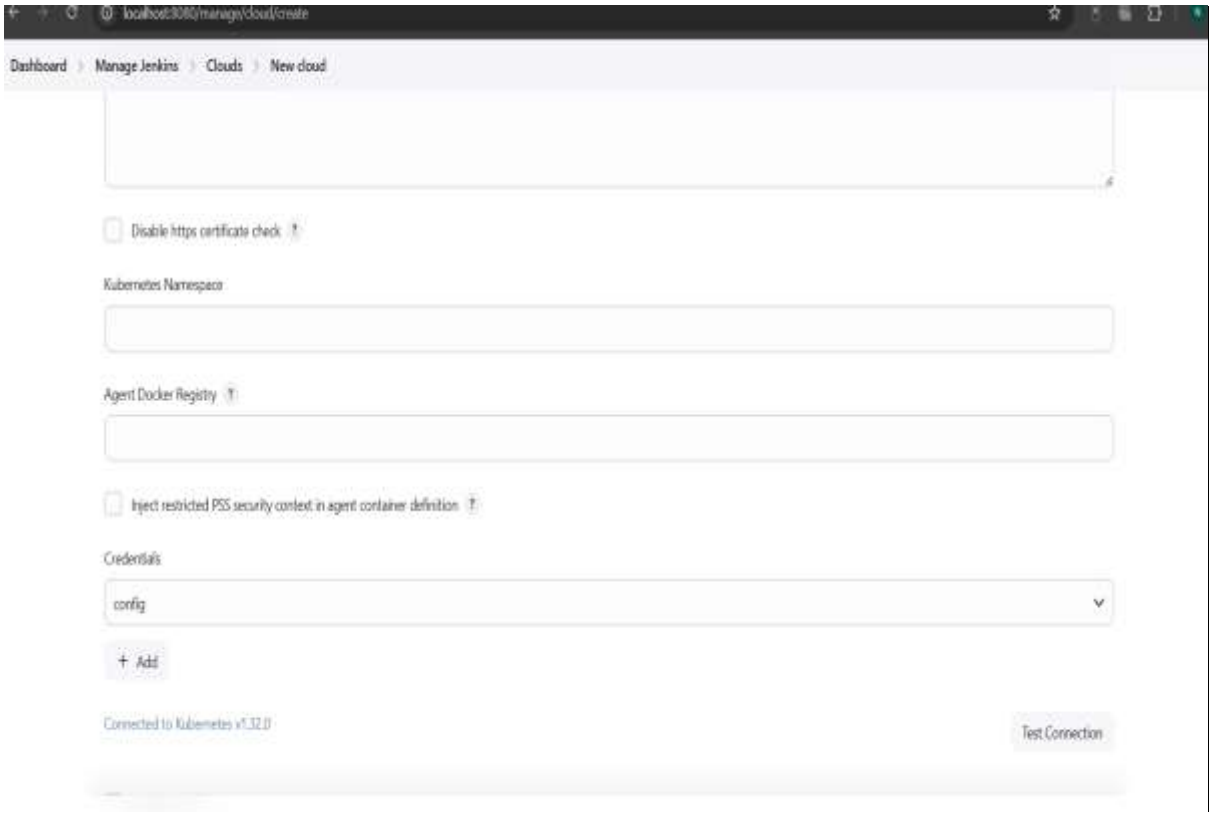
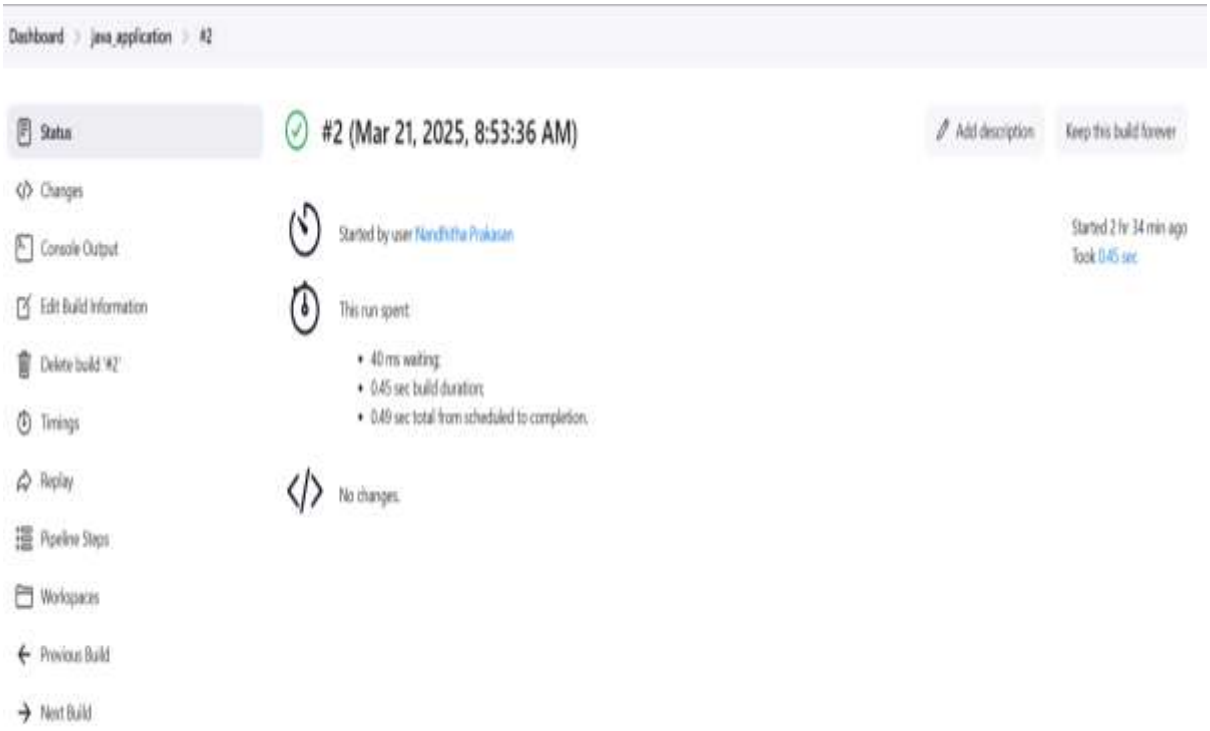
```
dhu2645@LAPTOP-1TVBND2B: $ minikube start
 minikube v1.35.0 on Ubuntu 24.04 (amd64)
 Using the docker driver based on existing profile
 Starting "minikube" primary control-plane node in "minikube" cluster
 Pulling base image v0.0.46 ...
 Restarting existing docker container for "minikube" ...
 StartHost failed, but will try again: provision: get ssh host-port: get port 22 for "minikube": docker container inspect -f "'{{(index (inde
NetworkSettings.Ports "22/tcp") 0).HostPort}}'" minikube: exit status 1
out:


err:
plate parsing error: template: :1:4: executing "" at <index (index .NetworkSettings.Ports "22/tcp") 0>: error calling index: reflect: slice i
x 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
21 06:17:00.796627    6054 logFile.go:53] failed to close the audit log: invalid argument
dhu2645@LAPTOP-1TVBND2B: $ cd ~/.kube
dhu2645@LAPTOP-1TVBND2B:~/.kube$ sudo vi config
do] password for nandhu2645:
dhu2645@LAPTOP-1TVBND2B:~/.kube$ kubectl get node
E       STATUS   ROLES           AGE   VERSION
ikube   Ready    control-plane   14h   v1.32.0
dhu2645@LAPTOP-1TVBND2B:~/.kube$
```


dhu2645@LAPTOP-1TVBND2B:~$ cat ~/.kube/config
Version: v1
sters:
luster:
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
ame: minikube
texts:
ontext:
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
ame: minikube
rent-context: minikube
d: Config
ferences: {}
rs:
ame: minikube
ser:
client-certificate: /home/nandhu2645/.minikube/profiles/minikube/client.crt
client-key: /home/nandhu2645/.minikube/profiles/minikube/client.key
dhu2645@LAPTOP-1TVBND2B:~$


Dashboard > java application > Configuration
Configure
General
Triggers
Pipeline
Advanced
Script
pipeline {
agent any
stages {
stage('SCM') {
steps {
git branch: 'master', url: 'https://github.com/sandhu6804/devops_main.git'
}
}
stage('build') {
steps {
sh "mvn clean"
sh "mvn install"
}
}
stage('build to images') {
steps {
script{
sh 'docker build -t sandhita22cse126/mysimplewebapp .'
}
}
}
stage('push to hub') {
steps {
script{
withDockerRegistry(credentialsId: 'Docker_cred', toolName: 'docker', url: 'https://index.docker.io/v1/') {
sh 'docker push sandhita22cse126/mysimplewebapp'
}
}
}
}
stage('Deploy App'){
steps{
withKubeConfig(caCertificate: '', clusterName: 'minikube', contextName: 'minikube', credentialsId: 'minikube_credential', r
sh 'kubectl apply -f deployment.yml --validate=false'
}
}
}
}
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


Dashboard
java_application
#2
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 Prakasan
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.

```
ndhu2645@LAPTOP-1TVBND2B:~$ cat deployment.yml
iVersion: apps/v1
nd: Deployment
tadata:
name: my-deploy
labels:
  name: my-deploy
ec:
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

-

iVersion: v1
nd: Service
tadata:
name: my-service
labels:
  app: my-service
ec:
type: NodePort
ports:
  - targetPort: 8080
    port: 9008
    nodePort: 30008
selector:
  apptype: web-backend
```

```
andhu2645@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-storageclass, storage-provisioner
  Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
0322 06:05:57.597826    1133 logFile.go:53] failed to close the audit log: invalid argument
andhu2645@LAPTOP-1TVBND2B:~$ ls
enkinsfile  config  deployment.yml  devops_main  pod.yml  rs-test.yml
andhu2645@LAPTOP-1TVBND2B:~$ kubectl get pod
o resources found in default namespace.
andhu2645@LAPTOP-1TVBND2B:~$ sudo nano deployment.yml
sudo] password for nandhu2645:
andhu2645@LAPTOP-1TVBND2B:~$ kubectl apply -f deployment.yml
eployment.apps/my-deploy created
ervice/my-service created
andhu2645@LAPTOP-1TVBND2B:~$ minikube service my-service
|-----------|------------|-------------|---------------------------|
| NAMESPACE |    NAME    | TARGET PORT |            URL            |
|-----------|------------|-------------|---------------------------|
| default   | my-service |        9088 | http://192.168.58.2:30088 |
|-----------|------------|-------------|---------------------------|
  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.
  Stopping tunnel for service my-service.
0322 06:11:30.563315    1835 logFile.go:53] failed to close the audit log: invalid argument
andhu2645@LAPTOP-1TVBND2B:~$ kubectl port-forward svc/my-service 9088:9088
orwarding from 127.0.0.1:9088 -> 8080
orwarding from [::1]:9088 -> 8080
```

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
```