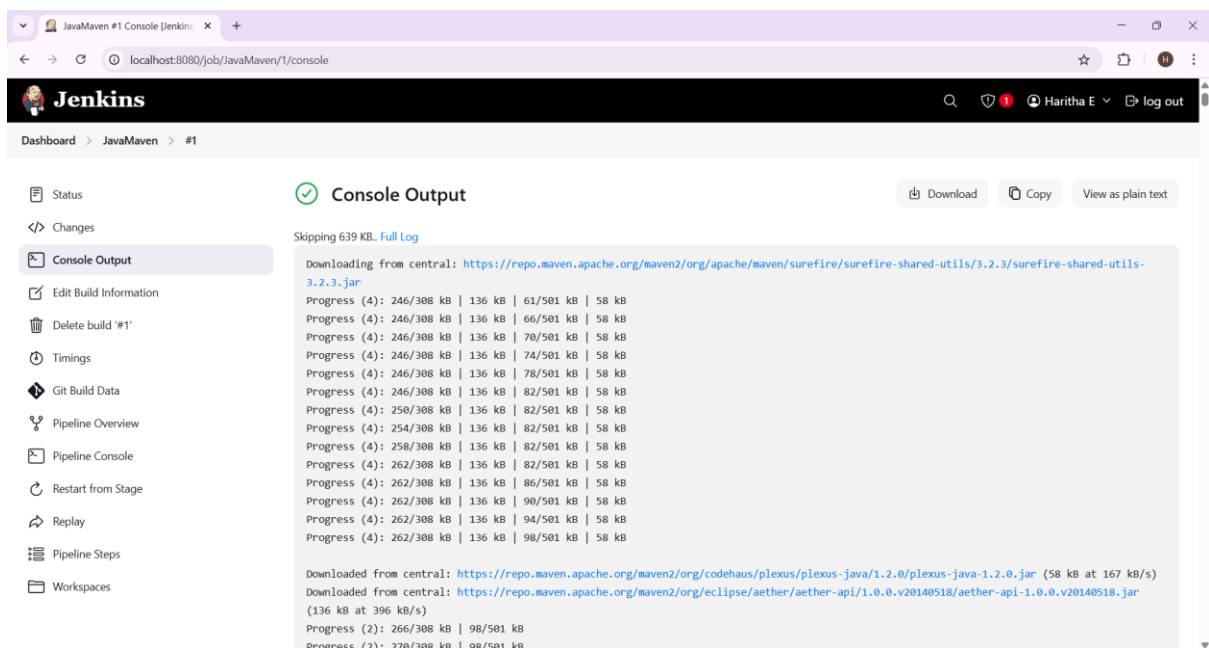
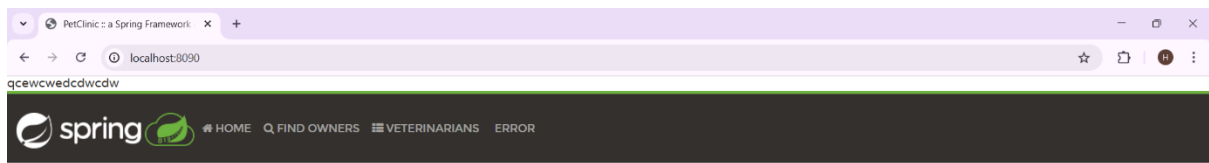


## DEVOPS TASK – 5

```
Run 'docker run --help' for more information
haritha@LAPTOP-UM4GT4DB:~$ docker run -d -p 8090:8080 harithaewaran/java-maven
e349c5df910a253e5d2a0b18f65fe9f28f905eb438074bb7c80165a35c1d1d08
haritha@LAPTOP-UM4GT4DB:~$ ls
capstone deployment.yml minikube-linux-amd64 snap spring-framework-petclinic terraform
haritha@LAPTOP-UM4GT4DB:~$ nano deployment.yml
haritha@LAPTOP-UM4GT4DB:~$ ^C
haritha@LAPTOP-UM4GT4DB:~$ nano deployment.yml
haritha@LAPTOP-UM4GT4DB:~$ nano deployment.yml
haritha@LAPTOP-UM4GT4DB:~$ kubectl create -f deployment.yml
error: error validating "deployment.yml": error validating data: failed to download openapi: Get "https://127.0.0.1:32771/openapi/v2?timeout=32s": dial tcp
127.0.0.1:32771: connect: connection refused; if you choose to ignore these errors, turn validation off with --validate=false
haritha@LAPTOP-UM4GT4DB:~$ 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
haritha@LAPTOP-UM4GT4DB:~$ kubectl create -f deployment.yml
deployment.apps/java-maven created
haritha@LAPTOP-UM4GT4DB:~$ kubectl expose deployment java-maven --port=8080 --type=NodePort
service/java-maven exposed
haritha@LAPTOP-UM4GT4DB:~$ kubectl get service
NAME                TYPE                CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
java-maven           NodePort            10.106.199.218   <none>            8080:30125/TCP    21s
kubernetes            ClusterIP           10.96.0.1        <none>            443/TCP           2d18h
react-e-commerce-service NodePort            10.98.110.244    <none>            80:30007/TCP      43h
haritha@LAPTOP-UM4GT4DB:~$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
java-maven-7d9b5b8578-24f2g         0/1     ImagePullBackOff    0           37m
java-maven-7d9b5b8578-qtsgr         0/1     ErrImagePull        0           37m
java-maven-7d9b5b8578-zcgg6         0/1     ImagePullBackOff    0           37m
nginx-deployment-58cdc7b878-l2sv6   1/1     Running            1 (38m ago)   43h
nginx-deployment-58cdc7b878-l47s2   1/1     Running            1 (38m ago)   43h
nginx-deployment-58cdc7b878-pf75w   1/1     Running            1 (38m ago)   43h
```

```
nginx-deployment-58cdc7b878-l2sv6   1/1     Running            1 (55m ago)   43h
nginx-deployment-58cdc7b878-l47s2   1/1     Running            1 (55m ago)   43h
nginx-deployment-58cdc7b878-pf75w   1/1     Running            1 (55m ago)   43h
haritha@LAPTOP-UM4GT4DB:~$ kubectl get services
NAME                TYPE                CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
java-maven           NodePort            10.106.199.218   <none>            8080:30125/TCP    29m
kubernetes            ClusterIP           10.96.0.1        <none>            443/TCP           2d19h
react-e-commerce-service NodePort            10.98.110.244    <none>            80:30007/TCP      44h
haritha@LAPTOP-UM4GT4DB:~$ curl localhost:30125
curl: (7) Failed to connect to localhost port 30125 after 0 ms: Couldn't connect to server
haritha@LAPTOP-UM4GT4DB:~$ kubectl delete service java-maven
service "java-maven" deleted
haritha@LAPTOP-UM4GT4DB:~$ kubectl expose deployment java-maven --port=8080 --type=NodePort
service/java-maven exposed
haritha@LAPTOP-UM4GT4DB:~$ kubectl get services
NAME                TYPE                CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
java-maven           NodePort            10.107.114.118   <none>            8080:30192/TCP    7s
kubernetes            ClusterIP           10.96.0.1        <none>            443/TCP           2d19h
react-e-commerce-service NodePort            10.98.110.244    <none>            80:30007/TCP      44h
haritha@LAPTOP-UM4GT4DB:~$ curl localhost:30192
curl: (7) Failed to connect to localhost port 30192 after 0 ms: Couldn't connect to server
haritha@LAPTOP-UM4GT4DB:~$ curl localhost:30192
curl: (7) Failed to connect to localhost port 30192 after 0 ms: Couldn't connect to server
haritha@LAPTOP-UM4GT4DB:~$ curl localhost:30192
curl: (7) Failed to connect to localhost port 30192 after 0 ms: Couldn't connect to server
haritha@LAPTOP-UM4GT4DB:~$ minikube service java-maven
-----
| NAMESPACE | NAME   | TARGET PORT | URL                               |
|-----|-----|-----|-----|
| default   | java-maven | 8080         | http://192.168.49.2:30192       |
|-----|-----|-----|-----|
🔧 Starting tunnel for service java-maven.
-----
| NAMESPACE | NAME   | TARGET PORT | URL                               |
|-----|-----|-----|-----|
| default   | java-maven |             | http://127.0.0.1:45101         |
|-----|-----|-----|-----|
🔧 Opening service default/java-maven in default browser...
🔗 http://127.0.0.1:45101
⚠ Because you are using a Docker driver on linux, the terminal needs to be open to run it.
8080:30125/TCP
```



Dashboard [Jenkins]

Docker Hub

hub.docker.com/repositories/harithaeswaran

New

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harithaeswaran

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Repositories

All repositories within the harithaeswaran namespace.

Search by repository name

All content

Create a repository

Name	Last Pushed	Contains	Visibility	Scout
harithaeswaran/java-maven	about 5 hours ago	IMAGE	Public	Inactive
harithaeswaran/ecommerce	2 days ago	IMAGE	Public	Inactive
harithaeswaran/haritha	3 days ago	IMAGE	Public	Inactive

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https://hub.docker.com/repository/docker/harithaeswaran/ecommerce