NAME: SUMITHAA P V R

ROLL NO: 22CSR212

STEPS:

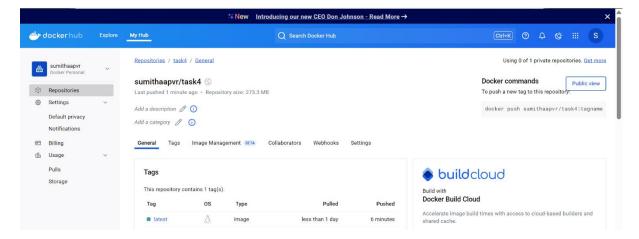
1. Create a folder and move into that folder.

```
sumithaa@sumithaaPVR:~$ mkdir Task4
sumithaa@sumithaaPVR:~$ cd Task4
```

- 2. In that folder, create a file with a .yaml extension.
- 3. Copy the deployment script into the .yaml file. The script will deploy a Spring Boot application in Kubernetes and expose it externally via a NodePort service on port 80.
- 4. Apply the script using the following command:

kubectl apply -f file.yaml

```
sumithaa@sumithaaPVR:~/Task4$ nano file.yaml
sumithaa@sumithaaPVR:~/Task4$ kubectl apply -f file.yaml
deployment.apps/springboot-app created
service/springboot-app created
sumithaa@sumithaaPVR: ~/Ti ×
GNU nano 7.2
                                                                                 file.yaml
 ind: Deployment
  app: springboot-app
name: springboot-app
  ec:
replicas: 1
selector:
matchLabels:
    app: springboot-app
emplate:
metadata:
         app: springboot-app
        ec:
containers:
- name: my-springboot-app
image: sumithaapvr/task4
imagePullPolicy: Always
ports:
          - containerPort: 8080
            name: http
protocol: TCP
     app: springboot-app
k8s-app: springboot-app
me: springboot-app
  ports:
    name: http
port: 8080
protocol: TCP
  targetPort: 8
type: NodePort
selector:
    app: springboot-app
                                                                                                                                               M-A Set Mark
M-6 Copy
^G Help
^X Exit
                    ^O Write Out
^R Read File
                                           📘 Q 🔲 🥠 📜 🥲 💇 🚮 🛂 🕜 🔰 🔼 ^ & 💢 ENG 🛜 d× 🗈 09:42 AM 🗗
```



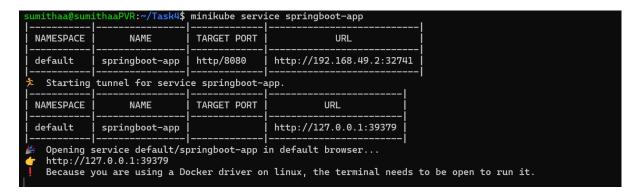
5. Verify that the pods are running using the command:

kubectl get pods

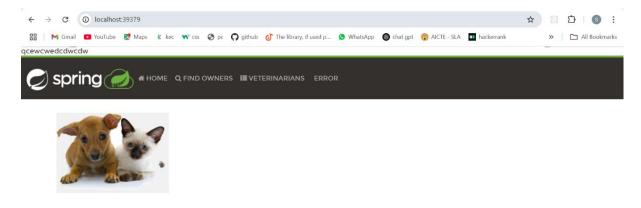
```
umithaa@sumithaaPVR:~/Task4$ kubectl get pods
                                    READY
                                            STATUS
                                                       RESTARTS
                                                                     AGE
dogpic-78c4986c6c-25l4x
                                    1/1
                                            Running
                                                       1 (13m ago)
                                                                     18h
r1-65665bb6d4-4r9xd
                                    1/1
                                            Running
                                                       2 (13m ago)
                                                                     21h
springboot-app-7d9fc67c95-kxqb5
                                    1/1
                                            Running
                                                       0
                                                                     15s
```

6. Expose the service using Minikube and obtain the URL:

minikube service <service-name>



7. Use the obtained URL to view the output in the browser.



spring Pivotal.