TASK 3-Minikube Deployment Task

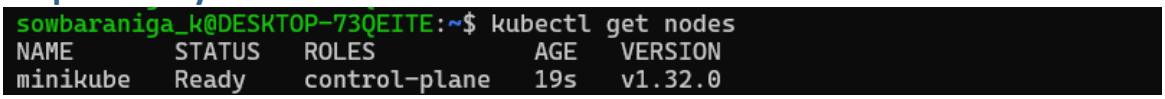
Step 1: Install Kubectl

Since Kubectl is not found, install it with the following command:
sudo snap install kubectl --classic
Alternatively, you can download it using curl:

Step 2: Start Minikube

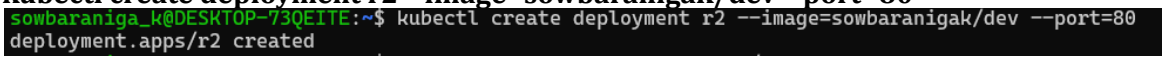
Start the Minikube cluster using the following command:
minikube start

Step 3: Verify Minikube Installation



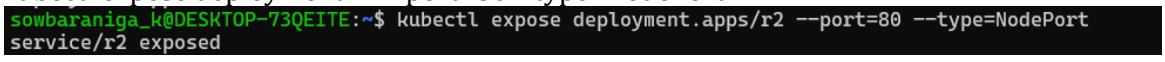
Step 4: Create a Deployment

Create a deployment named `r2` with the image `sowbaranigak/dev`:
kubectl create deployment r2 --image=sowbaranigak/dev --port=80



Step 5: Expose the Deployment

Expose the deployment as a NodePort service:
kubectl expose deployment r2 --port=80 --type=NodePort



Step 6: Verify the Pod

Check the running pods:

kubectl get pods

```
sowbaraniga_k@DESKTOP-73QEITE:~$ kubectl get pods
NAME                  READY   STATUS             RESTARTS   AGE
r1-77c5b5bbd7-w5rct   0/1     ImagePullBackOff   0          25m
r2-867d7797f8-9v7s2   1/1     Running            0          5m4s
```

Step 7: Access the Service

Expose the service using Minikube and get the URL:

minikube service r2

```
sowbaraniga_k@DESKTOP-73QEITE:~$ minikube service r2
|-----------|------|-------------|------------------------|
| NAMESPACE | NAME | TARGET PORT |          URL           |
|-----------|------|-------------|------------------------|
| default   | r2   |          80 | http://192.168.49.2:32207 |
|-----------|------|-------------|------------------------|
🏃  Starting tunnel for service r2.
|-----------|------|-------------|------------------------|
| NAMESPACE | NAME | TARGET PORT |          URL           |
|-----------|------|-------------|------------------------|
| default   | r2   |             | http://127.0.0.1:44351 |
|-----------|------|-------------|------------------------|
🎉  Opening service default/r2 in default browser...
👉  http://127.0.0.1:44351
❗  Because you are using a Docker driver on linux, the terminal needs to be open to run it.
```

Step 8: Output in the Web Browser