TASK 3- Minikube Depolyement Task

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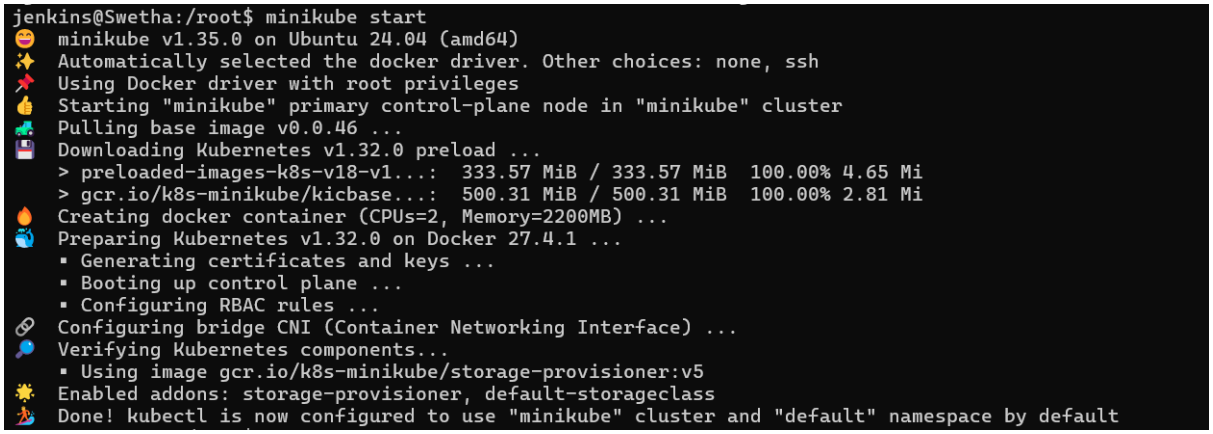
Step 1:

Start the minikube cluster using the command:

minikube start



This initializes the Minikube cluster using Docker as the driver.

Step 2: Install kubectl

sudo snap install kubectl --classic

Step 3: Verify kubectl Installation

Kubectl version

```
jenkins@Swetha:/root$ kubectl version --client
error: extra arguments: [--client]
jenkins@Swetha:/root$ kubectl version
Client Version: v1.32.3
Kustomize Version: v5.5.0
Server Version: v1.32.0
```

Step 4: Create a deployement

kubectl create deployment r2 --image=swethamurugesan/devopsgit --port=80

```
jenkins@Swetha:/root$ kubectl create deployment r2 --image=swethamurugesan/devopsgit --port=80
deployment.apps/r2 created
```

Step 5: Expose the document

kubectl expose deployment r2 --port=80 --type=NodePort

```
jenkins@Swetha:/root$ kubectl create deployment r2 --image=swethamurugesan/devopsgit --port=80
deployment.apps/r2 created
jenkins@Swetha:/root$ kubectl expose deployement.apps/r2 --port=80 --type=NodePort
error: the server doesn't have a resource type "deployement"
jenkins@Swetha:/root$ kubectl expose deployment r2 --port=80 --type=NodePort
service/r2 exposed
```

Step 6:Access the service

minikube service r2

```
jenkins@Swetha:/root$ minikube service r2
|-----------|------|-------------|--------------------------|
| NAMESPACE | NAME | TARGET PORT |           URL            |
|-----------|------|-------------|--------------------------|
| default   | r2   |          80 | http://192.168.49.2:31921 |
|-----------|------|-------------|--------------------------|
🏃  Starting tunnel for service r2.
|-----------|------|-------------|------------------------|
| NAMESPACE | NAME | TARGET PORT |          URL           |
|-----------|------|-------------|------------------------|
| default   | r2   |             | http://127.0.0.1:36617 |
|-----------|------|-------------|------------------------|
🎉  Opening service default/r2 in default browser...
👉  http://127.0.0.1:36617
❗  Because you are using a Docker driver on linux, the terminal needs to be open to run it.
^C✋  Stopping tunnel for service r2.
```

Step 7: Check the Output in Browser