Task 3 – Minikube Deployment Task

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Step 1: Start minikube

```
elan@kumaran:~/portfolio$ minikube start

in minikube v1.35.0 on Ubuntu 24.04 (amd64)

in Using the docker driver based on existing profile

in Starting "minikube" primary control-plane node in "minikube" cluster

in Pulling base image v0.0.46 ...

in Restarting existing docker container for "minikube" ...

in Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...

in Verifying Kubernetes components...

in Using image docker.io/kubernetesui/dashboard:v2.7.0

in Using image gcr.io/k8s-minikube/storage-provisioner:v5

in Using image docker.io/kubernetesui/metrics-scraper:v1.0.8
```

Step 2: Install Kubectl

Step 3: Create Deployement

```
elan@kumaran:~$ kubectl create deployment elankumaran21 --image=elankumaran21/dev:latest --port=80
deployment.apps/elankumaran21 created
```

Step 4: Expose Deployement

```
elan@kumaran:~$ kubectl expose deployment elankumaran21 --port=80 --type=NodePort service/elankumaran21 exposed
```

Step 5: Verify Pods

```
elan@kumaran:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
elankumaran21-644697d7cb-2rhtg 1/1 Running 0 34s
```

Step 6: Access the Service



Output:



