DEPLOY A WEB APPICATION USING KUBERNETES

1. Start Minikube:

• Run minikube start to start your local Kubernetes cluster.

2. Navigate to the Deployment Directory:

• Go to the directory containing your YAML files:

```
bash
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cd ~/Devops/kubernetes/deploy/yaml/apache_phpadmin_mysql/PHPMYADMIN_MYSQL
```

3. Apply Namespace:

• Apply the namespace.yaml configuration:

```
bash
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kubectl apply -f namespace.yaml
```

4. Deploy Resources in the Namespace:

• Apply the resources in the lampdemo namespace:

```
bash
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kubectl apply -n lampdemo -k ./
```

5. Check Pods:

• Verify that the pods are running:

```
bash
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kubectl get po -n lampdemo
```

6. Check Services:

• Check the services to get the external IP and port for access:

```
bash
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kubectl get svc -n lampdemo
```

7. Access the Service:

Open the service URL in your browser:

```
bash
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minikube service lamp -n lampdemo
```

8. Verify:

• Ensure that the service is accessible at the URL provided (e.g., http://127.0.0.1:35141).

OUTPUT:

```
    uresh@Ureshvel: ~/devops/kı ×

  Termination behavior can be configured in advanced profile settings. Don't show again
 Setting up libheif-plugin-aomenc:amd64 (1.17.6-1ubuntu4.1) ...
Setting up Libheit-plugin-aomenc:amd64 (1.17.6-lubuntu4.1) ...

Processing triggers for libc-bin (2.39-0ubuntu8.4) ...

Processing triggers for man-db (2.12.0-4build2) ...

Processing triggers for shared-mime-info (2.4-4) ...

Processing triggers for udev (255.4-lubuntu8.4) ...

Processing triggers for hicolor-icon-theme (0.17-2) ...

N: Download is performed unsandboxed as root as file '/home/uresh/devops/kubernetes/minikube_latest_amd64.deb' couldn

Permission denied)

Profile "minikube" not found. Run "minikube profile list" to view all profiles.
        To start a cluster, run: "minikube start"
                                                                 rnetes$ minikube start
      minikube v1.35.0 on Ubuntu 24.04 (amd64)
Automatically selected the docker driver. Other choices: ssh, none
Using Docker driver with root privileges
Starting "minikube" primary control-plane node in "minikube" cluster
Pulling base image v0.0.46 ...
Downloading Kubernetes v1.32.0 preload ...
> preloaded-images-k8s-v18-v1...: 333.57 MiB / 333.57 MiB 100.00% 886.82
> gcr.io/k8s-minikube/kicbase...: 500.31 MiB / 500.31 MiB 100.00% 1.26 Mi
 ^ X
 ^X^C
 uresh@Ureshvel:~/devops/kubernetes$ cd deploy
uresh@Ureshvel:~/devops/kubernetes/deploy$
uresh@Ureshvel:~/devops/kubernetes/deploy$
uresh@Ureshvel:~/devops/kubernetes/deploy$ cd yaml
uresh@Ureshvel:~/devops/kubernetes/deploy/yaml$ cd apache_phpadmin_mysql$
uresh@Ureshvel:~/devops/kubernetes/deploy/yaml/apache_phpadmin_mysql$ cd F
                                                                                                              apache_phpadmin_mysql$ cd PHPMYADMIN_MYSQL/
                                                                                                                                                        sql/PHPMYADMIN_MYSQL$ ls
kustomization.yaml lamp-phpadmin.yaml mysql.yaml namespace.yaml
                                                                                                                                                 _mysql/PHPMYADMIN_MYSQL$ ts
Command 'ts' not found, but can be installed with:
uresh@Ureshvel:~/devops/kubernetes/deploy/yaml/apache_phpadmin_mysql/PHPMYADMIN_MYSQL$ nano namespace.yamluresh@Ureshvel:~/devops/kubernetes/deploy/yaml/apache_phpadmin_mysql/PHPMYADMIN_MYSQL$
```











