### 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
```

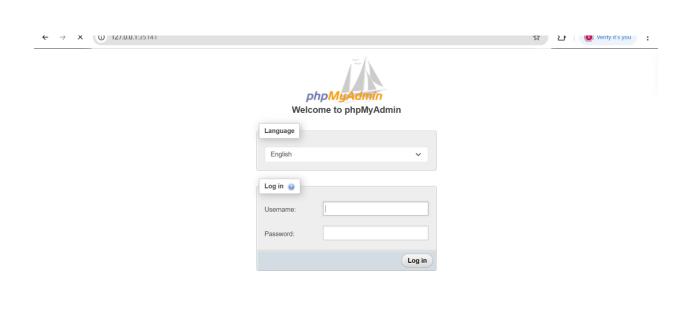
# 8. Verify:

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

#### **OUTPUT:**

```
swathika@SwathikaM:~/devops/kubernetes$ minikube start
minikube v1.35.0 on Ubuntu 24.04 (amd64)
Using the docker driver based on existing profile
starting "minikube" primary control-plane node in "minikube" cluster
Pulling base image v0.0.46 ...
Restarting existing docker container for "minikube" ...
Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
Verifying Kubernetes v1.32.0 on Docker 27.4.1 ...
Using image gcr.io/k8s-minikube/storage-provisioner:v5* Enabled addons: storage-provisioner, default-storageclass
Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
swathika@SwathikaM:~/devops/kubernetes$ cd de*
swathika@SwathikaM:~/devops/kubernetes/depley$ cd yaml
                                                                                            loy$ cd yaml
loy/yaml$ kubectl
 apply -f namespace.yaml
error: the path "namespace.yaml" does not exist
                                                                             es/deploy/yaml$ ls -la
 total 12
 drwxr-xr-x 3 swathika swathika 4096 Mar 19 05:56
drwxr-xr-x 4 swathika swathika 4096 Mar 19 05:56
drwxr-xr-x 4 swathika swathika 4096 Mar 19 05:56
                                                                                                          $ cd ap*
                                                                                                                            _phpadmin_mysql$ cd PH*
                                                                                                                                          in_mysql/PHPMYADMIN_MYSQL$ kubectl apply -f namespace.yaml
 namespace/lampdemo created
                                                                                                                           _phpadmin_mysql/PHPMYADMIN_MYSQL$ kubectl apply -n lampdemo
 error: must specify one of -f and -k
                                                                           etes/deploy/yaml/apache_phpadmin_mysql/PHPMYADMIN_MYSQL$ kubectl apply -n lampdemo -k
  swathika@SwathikaM:~/devops/kuber
 secret/mysql-pass-6d2997f772 created service/lamp created
  service/lamp-mysql created
```

drwxr-xr-x 4 swathika swathika 4096 Mar 19 05:56 apache_phpadmin_mysql swathika@SwathikaM:~/devops/kubernetes/deploy/yaml\$ cd ap* swathika@SwathikaM:~/devops/kubernetes/deploy/yaml/apache_phpadmin_mysql\$ cd PH* swathika@SwathikaM:~/devops/kubernetes/deploy/yaml/apache_phpadmin_mysql/PHPMYADMIN_MYSQL\$ kubectl apply -f namespace.yaml namespace/lampdemo created swathika@SwathikaM:~/devops/kubernetes/deploy/yaml/apache_phpadmin_mysql/PHPMYADMIN_MYSQL\$ kubectl apply -n lampdemo error: must specify one of -f and -k swathika@SwathikaM:~/devops/kubernetes/deploy/yaml/apache_phpadmin_mysql/PHPMYADMIN_MYSQL\$ kubectl apply -n lampdemo -k ./ secret/mysql-pass-6d2997f772 created service/lamp created service/lamp created					
persistentvolumeclaim/lamp-pv-claim created					
persistentvolumeclaim/mysql-pv-claim created deployment.apps/lamp created					
deployment.apps/lamp-mysql created swathika@SwathikaM:~/devops/kubernetes/deploy/yaml/apache_phpadmin_mysql/PHPMYADMIN_MYSQL\$ kubectl get po -n lampdemo					
NAME	READY	STATUS	RESTARTS A		HISVES RUBECCE GET PO -II tampuemo
lamp-d68899b54-n6dsk	0/1 /-fl984 0/1	ContainerCreating		s	
<pre>lamp-mysql-6f8bb57c87-fl984   0/1</pre>				WSOL\$ kubectl get svc -n lampdemo	
NAME TYPE	CLUSTER-	IP EXTERNAL-IP	PORT(S)	AGE	
lamp LoadBala lamp-mysgl ClusterI		00.190 <pending> <none></none></pending>	80:31741/TC 3306/TCP	64s 64s	
					NYSQL\$ minikube service lamp -n lampdemo
NAMESPACE					
lampdemo   lamp	80 h	ttp://192.168.49.2:31	741		



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