DEPLOY IN KUBERNETES CLUSTER

```
Command Prompt

Cideb8136e: Mounted from kub_ns/flask-app-t1

123186824c: Mounted from kub_ns/flask-app-t1

123186824c: Mounted from kub_ns/flask-app-t1

Ideb3152931: Mounted from kub_ns/flask-app-t1

Ideb316780c: Mounted from kub_ns/flask-app-t1

Ideb36760b: Mounted from kub_ns/flask-app-t1

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Iffeed466744: Mounted from kub_ns/flask-app-t1

Iffeed466744: Mounted from kub_ns/flask-app-t1

Ideb316786126: Mounted from kub_ns/flask-app-t1

Ideb3676428: Mounted from kub_ns/flask-app-t1

Ideb3676464892666489266689666489266689666696768969473567188246927444589666 size: 3051
     \Users\Ananthitha\lbmproject\training\samplesession>kubectl config get-contexts
RRENT NAME CLUSTER AUTHINFO NAMESPACE
docker-desktop docker-desktop docker-desktop
                rs\Ananthitha\ibmproject\training\samplesession>ibmcloud ks cluster config -c cdafifef07ur391kgthg
   ne configuration for cdqfjfef07ur391kgthg was downloaded successfully.
                     ntext for cdqfjfef07ur391kgthg to the current kubeconfig file.
now execute 'kubectl' commands against your cluster. For example, run 'kubectl get nodes'.
re accessing the cluster for the first time, 'kubectl' commands might fail for a few seconds while RBAC synchronizes.
   \Users\Ananthitha\lbmproject\training\samplesession>kubectl config get-contexts

CLUSTE

AUTHINFO

docker-desktop

docker-desktop

mycluster-free/cdqfjfef67ur391kgthg

mycluster-free/cdqfjfef67ur391kgthg

anan19110.cs@rmkec.ac.in/d8d7bf47ea3c4175adb1c62d138fca79/iam.cloud.ibm.com-identity

default
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAMESPACE
    \Users\Ananthitha\ibmproject\training\samplesession>kubectl apply -f kubernetes/ibm_deployment.yaml
ployment.apps/samplesession created
   \Users\Ananthitha\ibmproject\training\samplesession>kubectl apply -f kubernetes/flask_service.yamlrvice/flask-app-service created
   \Users\Ananthitha\ibmproject\training\samplesession>kubectl apply -f kubernetes/flask_ingress.yamlugress.networking.k8s.io/flask-app-ingress created
  :\Users\Ananthitha\ibmproject\training\samplesession>kubectl get ing
AME CLASS HOSTS ADDRESS PORTS AGE
lask-app-ingress <none> * 80 36s
:\Users\Ananthitha\ibmproject\training\samplesession>kubectl get nodes -o wide

WME STATUS ROLES AGE VERSION INTERNAL-IP EXTERNAL-IP OS-IMAGE KERNEL-VERSION CONTAINER-RUNTIME
0.144.188.15 Ready <none> 23h v1.24.7+IKS 10.144.188.15 169.51.206.11 Ubuntu 18.04.6 LTS 4.15.0-194-generic containerd://1.6.8
 :\Users\Ananthitha\ibmproject\training\samplesession>kubectl get svc
AME LUSTER-IP EXTERNAL-IP PORT($)
Lask-app-service ClusterIP 172.2.19.5,13 cnone> 5000/TCP
ubernetes ClusterIP 172.21.0.1 cnone> 443/TCP
C:\USers\Ananthitha\ibmproject\training\samplesession>kubectl get svc
WAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S)
flask-app-service ClusterIP 172.21.95.13 <none> 5000/TCP
kubernetes ClusterIP 172.21.0.1 <none> 443/TCP
  :\Users\Ananthitha\ibmproject\training\samplesession>kubectl expose deployment samplesession --type=NodePort --name=flask-app-service rror from server (AlreadyExists): services "flask-app-service" already exists
  :\Users\Ananthitha\ibmproject\training\samplesession>kubectl expose deployment samplesession --type=NodePort --name=samplesession ervice/samplesession exposed
 :\Users\Ananthitha\ibmproject\training\samplesession>kubectl describe svc flask-app-service
lame: flask-app-service
lamespace: default
Namespace: default
Labels: ⟨none⟩
Annotations: ⟨none⟩
Selector: app=samplesession
Type: ClusterIP
IP Family Policy: SingleStack
IP Families: IPv4
IP: 172.21.95.13
IPs: 172.21.95.13
IPs: 172.21.95.13
Port: ⟨unset> 5000/TCP
TargetPort: 5000/
 ession Affinity: None
   :\Users\Ananthitha\ibmproject\training\samplesession>kubectl describe svc samplesession
                                                                                    samplesession
default
lamespace:
Labels:
  nnotations:
                                                                                     <none>
 melector:
ype:
P Family Policy:
P Families:
                                                                                     app=samplesession
NodePort
SingleStack
                                                                                     IPv4
172.21.208.134
172.21.208.134
<unset> 5000/TCP
TargetPort:
NodePort:
Endpoints:
                                                                                      5000/TCP
                                                                                     <unset> 30821/TCP
172.30.6.11:5000,172.30.6.12:5000,172.30.6.13:5000
ression Affinity: None
external Traffic Policy: Cluster
vents: <none>
```

:\Users\Ananthitha\ibmproject\training\samplesession>

```
ubernetes
                                                           ClusterIP 172.21.0.1
                                                                                                                                                <none>
                                                                                                                                                                                             443/TCP
  :\Users\Ananthitha\ibmproject\training\samplesession>kubectl expose deployment samplesession --type=NodePort --name=flask-app-service rror from server (AlreadyExists): services "flask-app-service" already exists
  :\Users\Ananthitha\ibmproject\training\samplesession>kubectl expose deployment samplesession --type=NodePort --name=samplesession ervice/samplesession exposed
   :\Users\Ananthitha\ibmproject\training\samplesession>kubectl describe svc flask-app-service
Name:
Namespace:
                                                       flask-app-service
default
abels:
Annotations:
                                                       <none>
 whotatons: (none)
selector: app=samplesession
ype: ClusterIP
P Family Policy: SingleStack
P Families: IPv4
P: 172.21.95.13
 P:
Ps:
Port:
                                                       172.21.95.13

<unset> 5000/TCP

5000/TCP
 ort: Kunset 3000/TCP
argetPort: 5000/TCP
indpoints: 172.30.6.11:5000,172.30.6.12:5000,172.30.6.13:5000
iession Affinity: None
   :\Users\Ananthitha\ibmproject\training\samplesession>kubectl describe svc samplesession
ame: samplesession
amespace: default
Namespace:
_abels:
Annotations:
                                                                              <none>
<none>
app=samplesession
NodePort
 elector:
                                                                             NodePort
SingleStack
IPv4
172.21.208.134
172.21.208.134
<unset> 5000/TCP
5000/TCP
<unset> 30821/TCP
172.30.6.11:5000,172.30.6.12:5000,172.30.6.13:5000
None
   P Family Policy:
P Families:
  ort:
Yort: 
dort: 
dort: 
dogPort: 

    \verb|\Users\An anthitha\ibmproject\training\samplesession>|
```