DEPLOYMENT OF APP IN IBM CLOUD

Team ID	PNT2022TMID42694
Project Name	CONTAINMENT ZONE ALERTING APPLICATION

DEPLOY IN KUBERNETES CLUSTER

1. Target the IBM Cloud Kubernetes Service region where you wantto

   work. ibmcloud cs region-set us-south

2. Set the context for the cluster in your CLI.

a.   Get the command to set the environment variable and downloadthe

Kubernetes configuration files. ibmcloud cs cluster-config cluster_kunal

b.   Set the KUBECONFIG environment variable. Copy the output fromthe previous command and paste it in your terminal. The command output should look similar to the following.

> export
KUBECONFIG=/Users/$USER/.bluemix/plugins/container-service/clust ers/<
cluster_name >/< cluster_configuration_file.yaml>

3. Verify that you can connect to your cluster by listing your workernodes.
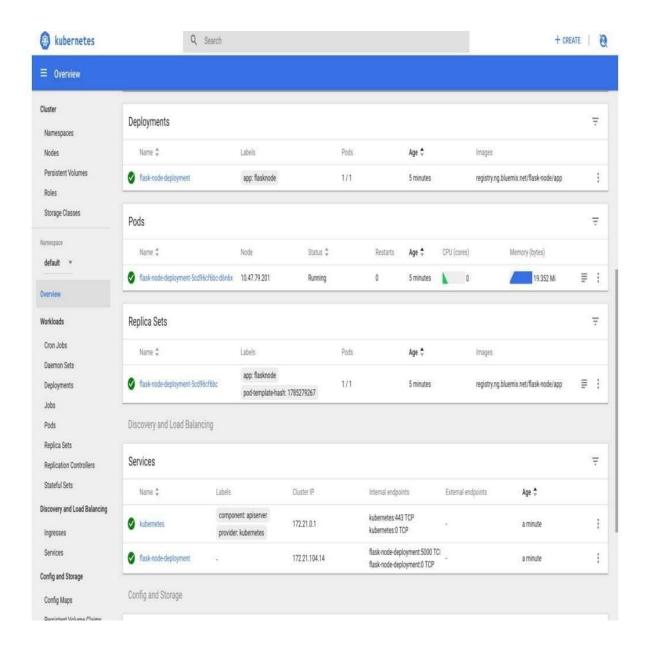
 kubectl get nodes

4. Create the deployment.

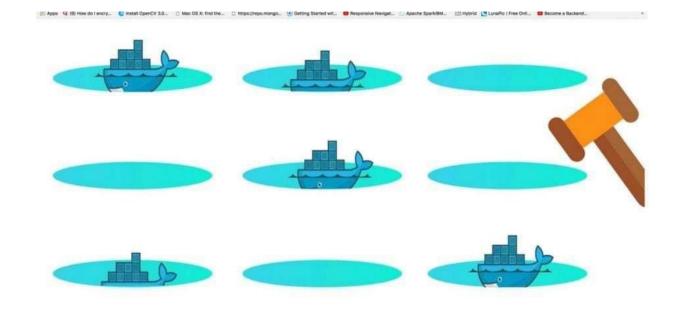 kubectl create -f deployment.yaml

5. Create the service.

kubectl create -f service.yaml

6. Look at the Kubernetes dashboard from the IBM KubernetesService
   overview page.

7. Finally, go to your browser and ping the Public IP of your worker node

SAMPLE:

```
$ kubectl apply -f ./deploys/k8s-deployment/deployment.yaml
deployment.apps/k8s-nginx-deployment created
```

RUN THE APPLICATION

```
$ kubectl port-forward svc/k8s-nginx-deployment 8080:80
```

VERIFY THE APPLICATION RUNNING IN THE CLUSTER

```
$ kubectl get pods
NAME                          READY   STATUS    RESTARTS   AGE k8s-nginx-
deployment-68d8f8f8f4-f4x6x   1/1     Running   0 30s
```

```
$ curl localhost:8080
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style> body
   {
       width: 35em; margin:
       0 auto;
       font-family: Tahoma, Verdana, Arial
```