Team ID	PNT2022TMID17287
Project Name	CONTAINMENT ZONE ALERTING

DEPLOYMENT OF APP IN IBM CLOUD

DEPLOY IN KUBERNETES CLUSTER

1. Target the IBM Cloud Kubernetes Service region where you want to 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 download the Kubernetes configuration files.

 ibmcloud cs cluster-config cluster_kunal

b. Set the KUBECONFIG environment variable. Copy the output from the 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/clusters/<
cluster_name >/< cluster_configuration_file.yaml>

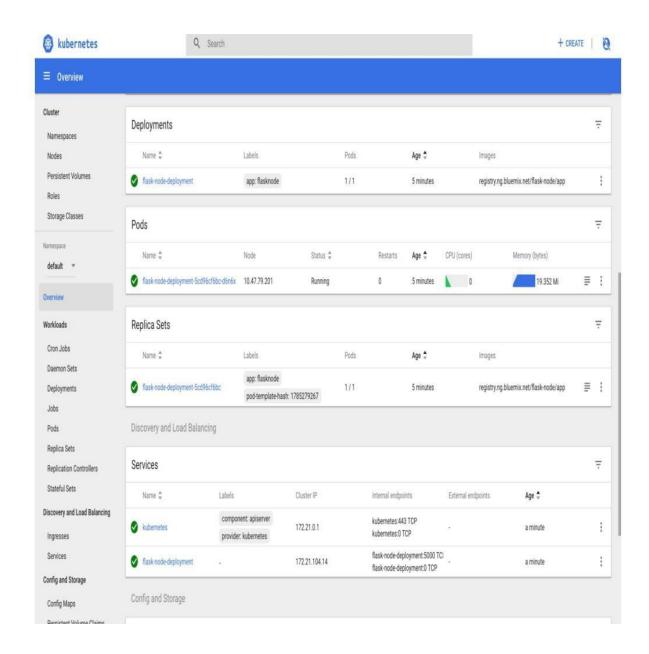3. Verify that you can connect to your cluster by listing your worker nodes.

```
kubectl get nodes
```

4. Create the deployment.

```
kubectl create -f deployment.yaml
```
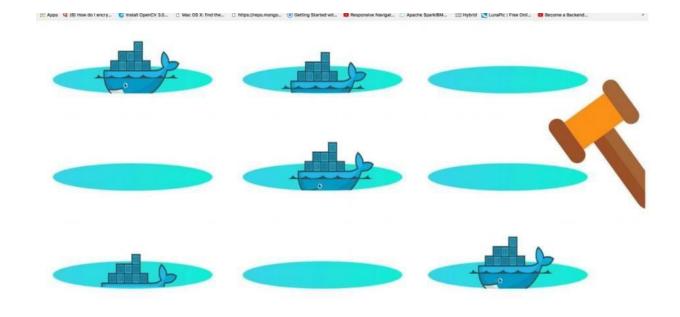
5. Create the service.

```
kubectl create -f service.yaml
```

6. Look at the Kubernetes dashboard from the IBM Kubernetes Service 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
```