DEPLOYMENT OF APP IN IBM CLOUD

Project Title: Containment Zone Alerting Application Team ID: PNT2022TMID04780

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. Thecommand 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 worker nodes.

```
kubectl get nodes
```

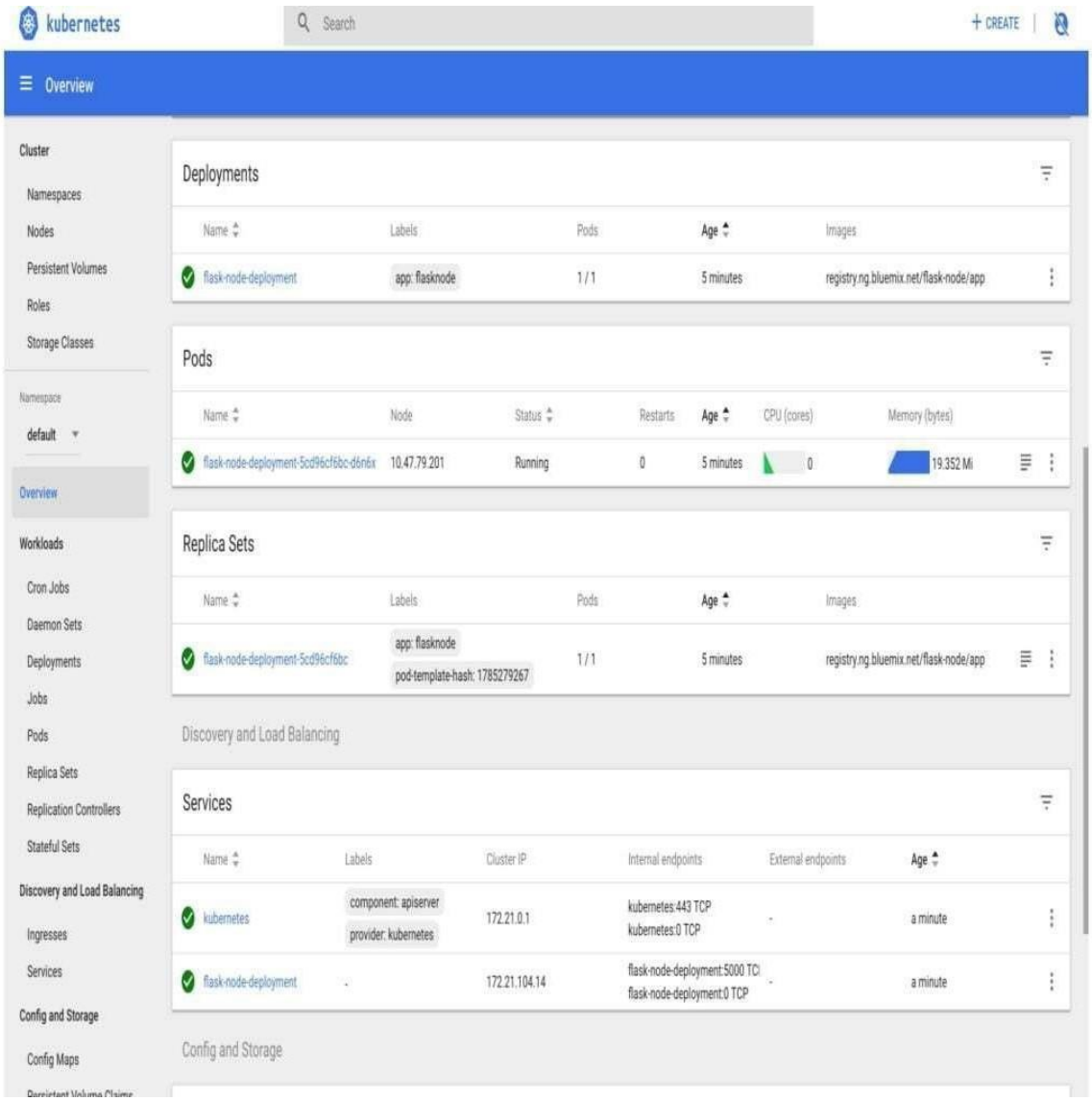
4. Create the deployment.

```
kubectl create -f deployment.yaml
```

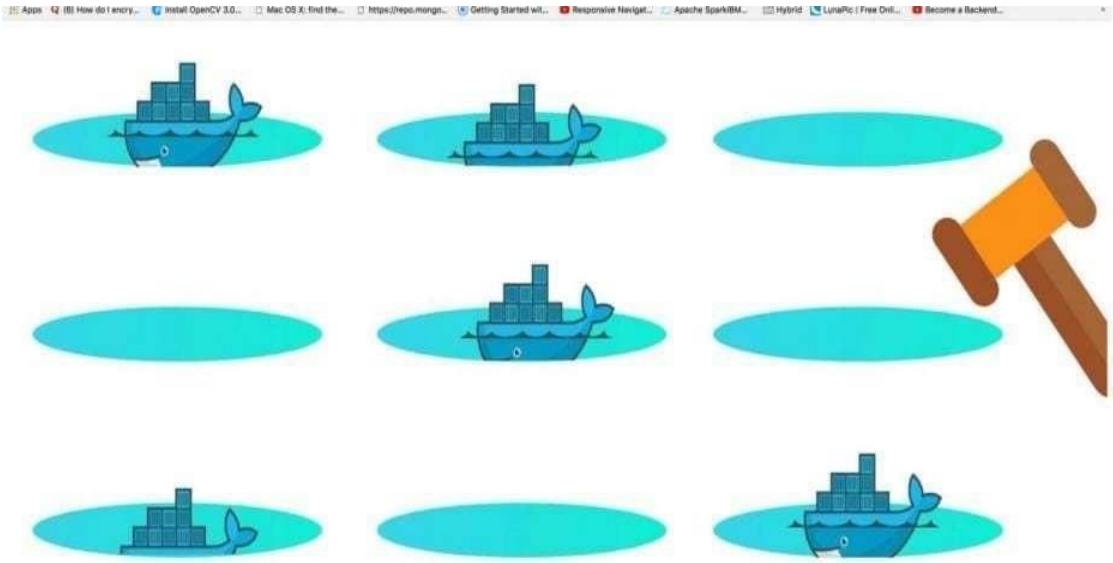
5. Create the service.

```
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>

Welcome to nginx!
<style> body
    {
        width: 35em; margin:
        0 auto;
        font-family: Tahoma, Verdana, Arial
```