Deployment Of App In IBM Cloud Deploy In Kubernetes Cluster

Team ID	PNT2022TMID11463
Project Name	Containment Zone Alerting Application

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

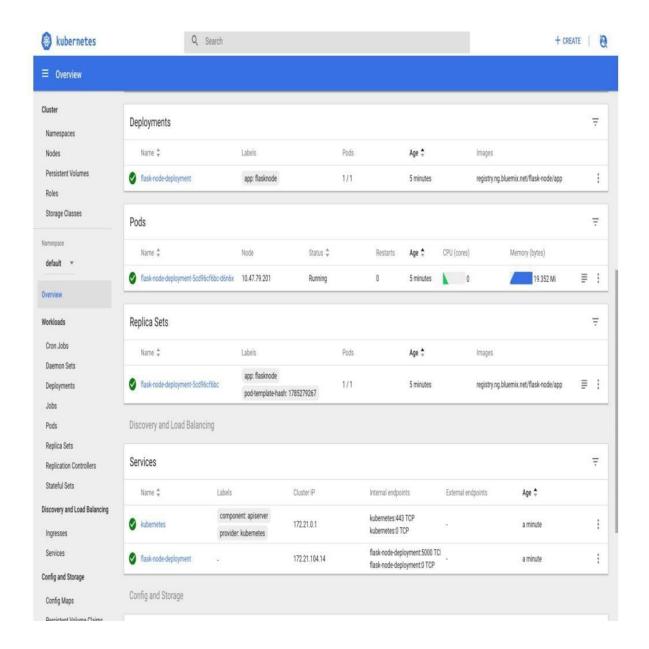
4. Create the deployment.

kubectl create -f deployment.yaml

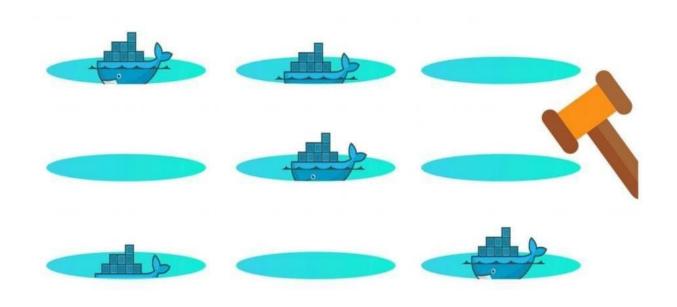
5. Create the service.

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 newpark!</title>

</head>

```
<style>
body {
    width: 35em; margin: 0
    auto;
    font-family: Tahoma, Verdana, Arial
    }
</body>
</html>
```