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/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

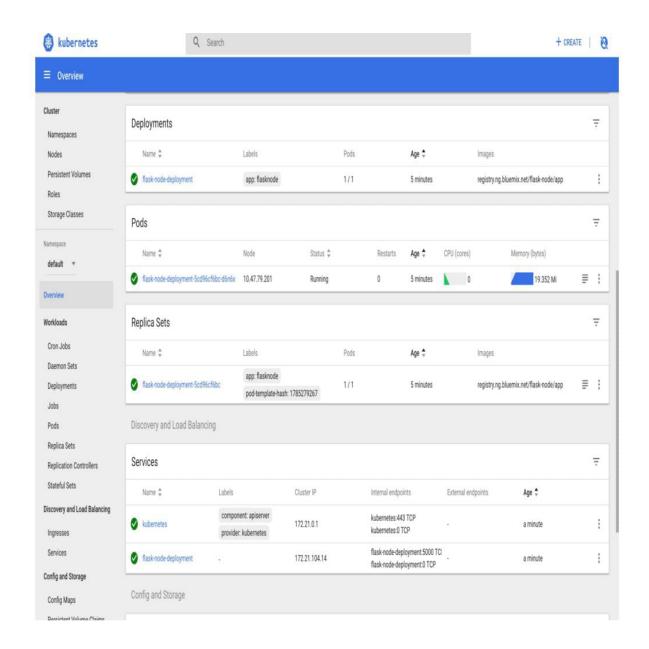
4. Create the deployment.

kubectl create -f deployment.yaml

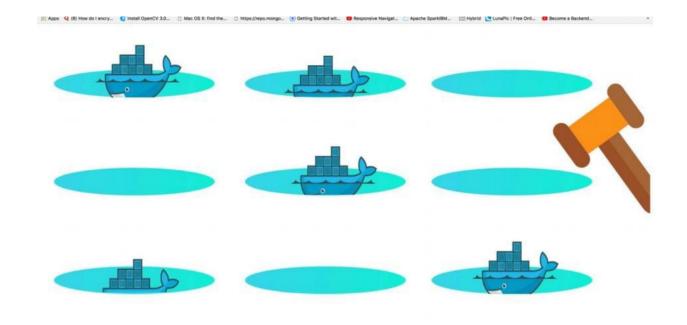
5. Create the service.

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:

١,,

\$ 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

```
٠,,
$ kubectl get pods
NAME
                       READY STATUS RESTARTS AGE
k8s-nginx-deployment-68d8f8f8f4-f4x6x 1/1
                                             Running 0
30s
٠,,
,,,
$ curl localhost:8080
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
  body {
    width: 35em;
    margin: 0 auto;
    font-family: Tahoma, Verdana, Arial
```