DEPLOYMENT OF APP IN IBM CLOUD

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Project Name	CONTAINMENT ZONE ALERTING APPLICATION
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DEPLOY IN KUBERNETES CLUSTER

- 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 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 workernodes.

kubectl get nodes

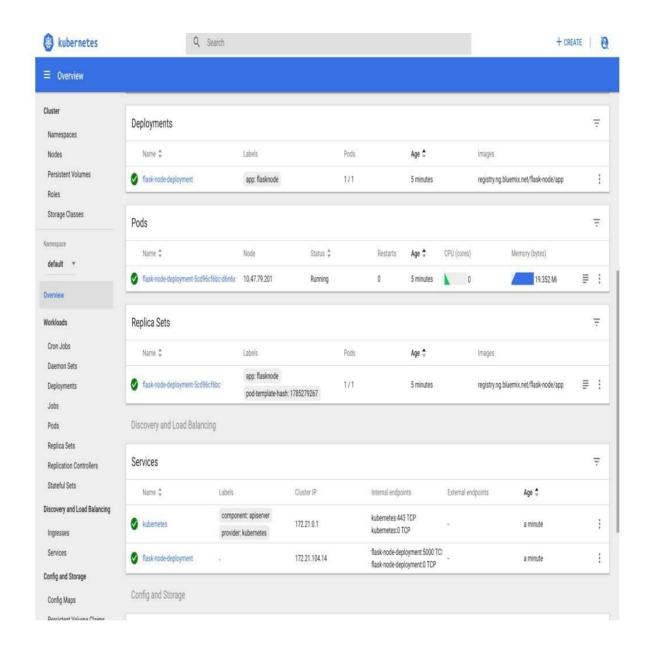
4. Create the deployment.

kubectl create -f deployment.yaml

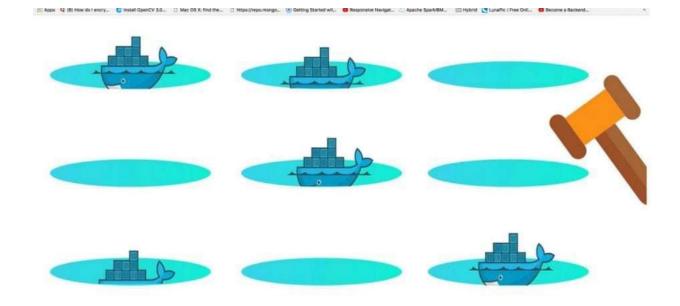
5. Create the service.

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

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\$ 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
```