Date	09 November 2022
Team ID	PNT2022TMID31668
Project Name	CONTAINMENT ZONE ALERTING APPLICATION

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 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

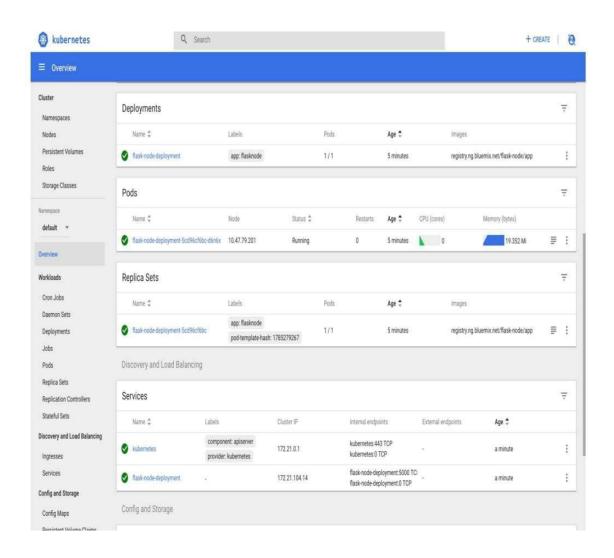
4. Create the deployment.

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

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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
111
$ curl localhost:8080
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style> body
width: 35em; margin:
0 auto:
font-family: Tahoma, Verdana, Arial
```