

DEPLOYMENT OF APP IN IBM CLOUD

Deploy In Kubernetes Cluster :

Team Id : PNT2022TMID27048

Project Name : Inventory Management Systems For Retailers

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Command Prompt
C:\Users\GIDEON\Desktop\Project>ibmcloud ks cluster config --cluster cdqacaf0k55teb33qn0
FAILED
'ks' is not a registered command. Check your list of installed plug-ins. See 'ibmcloud help'.

C:\Users\GIDEON\Desktop\Project>ibmcloud plugin install container-registry
Looking up 'container-registry' from repository 'IBM Cloud'...
Plug-in 'container-registry[cr] 1.0.2' found in repository 'IBM Cloud'
Plug-in 'container-registry 1.0.2' was already installed. Do you want to update it with 'container-registry[cr] 1.0.2' or not? [y/N] > y
Attempting to download the binary file...
11.90 MiB / 11.90 MiB [=====] 100.00% 6s
12476416 bytes downloaded
Installing binary...
Plug-in 'container-registry 1.0.2' was successfully installed into C:\Users\GIDEON\bluemix\plugins\container-registry. Use 'ibmcloud plugin show container-registry' to show its details.

C:\Users\GIDEON\Desktop\Project>ibmcloud plugin install container-service
Looking up 'container-service' from repository 'IBM Cloud'...
Plug-in 'container-service[kubernetes-service/ks] 1.0.459' found in repository 'IBM Cloud'
Attempting to download the binary file...
26.86 MiB / 26.86 MiB [=====] 100.00% 6s
28168192 bytes downloaded
Installing binary...
Plug-in 'container-service 1.0.459' was successfully installed into C:\Users\GIDEON\bluemix\plugins\container-service. Use 'ibmcloud plugin show container-service' to show its details.

C:\Users\GIDEON\Desktop\Project>ibmcloud ks cluster config --cluster cdqacaf0k55teb33qn0
The configuration for cdqacaf0k55teb33qn0 was downloaded successfully.

Added context for cdqacaf0k55teb33qn0 to the current kubeconfig file.
You can now execute 'kubectl' commands against your cluster; for example, run 'kubectl get nodes'.
If you are accessing the cluster for the first time, 'kubectl' commands might fail for a few seconds while RBAC synchronizes.

C:\Users\GIDEON\Desktop\Project>kubectl config current-context
mycluster-free/cdqacaf0k55teb33qn0

C:\Users\GIDEON\Desktop\Project>kubectl apply -f kubernetes/ibm_deployment.yaml
error: the path "kubernetes/ibm_deployment.yaml" does not exist

C:\Users\GIDEON\Desktop\Project>kubectl apply -f kubernetes/ibm_deployment.yaml
error: the path "kubernetes/ibm_deployment.yaml" does not exist

C:\Users\GIDEON\Desktop\Project>kubectl apply -f kubernetes/ibm_deployment.yaml
deployment.apps/flask-app configured

C:\Users\GIDEON\Desktop\Project>kubectl apply -f kubernetes/flask_service.yaml
service/flask-app-service unchanged
```

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C:\Users\GIDEON\Desktop\Project>kubectl apply -f kubernetes/ibm_deployment.yaml
error: the path "kubernetes/ibm_deployment.yaml" does not exist

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C:\Users\GIDEON\Desktop\Project>kubectl apply -f kubernetes/ibm_deployment.yaml
deployment.apps/flask-app configured

C:\Users\GIDEON\Desktop\Project>kubectl apply -f kubernetes/flask_service.yaml
service/flask-app-service unchanged

C:\Users\GIDEON\Desktop\Project>kubectl apply -f kubernetes/flask_ingress.yaml
ingress.networking.k8s.io/flask-app-ingress unchanged

C:\Users\GIDEON\Desktop\Project>kubectl get ing
NAME          CLASS  HOSTS  ADDRESS  PORTS  AGE
flask-app-ingress  <none> *      80       2d3h

C:\Users\GIDEON\Desktop\Project>kubectl get svc
NAME          TYPE          CLUSTER-IP      EXTERNAL-IP  PORT(S)          AGE
flask-app     NodePort      172.21.26.206    <none>        5000:30512/TCP   2d3h
flask-app-service ClusterIP     172.21.105.109   <none>        5000/TCP          2d3h
kubernetes    ClusterIP     172.21.0.1       <none>        443/TCP           2d11h
testingpage1  NodePort      172.21.99.101    <none>        5000:31697/TCP   2d2h

C:\Users\GIDEON\Desktop\Project>kubectl get nodes -o wide
NAME          STATUS    ROLES    AGE   VERSION   INTERNAL-IP   EXTERNAL-IP   OS-IMAGE             KERNEL-VERSION   CONTAINER-RUNTIME
10.144.183.43 Ready     <none>    2d10h v1.24.7-iks 10.144.183.43 169.51.194.3  Ubuntu 18.04.6 LTS   4.15.0-194-generic containerd://1.6.8

C:\Users\GIDEON\Desktop\Project>kubectl expose deployment flask-app --type=NodePort --name=flask-app
Error from server (AlreadyExists): services "flask-app" already exists

C:\Users\GIDEON\Desktop\Project>kubectl expose deployment flask-app --type=NodePort --name=testingpage1
Error from server (AlreadyExists): services "testingpage1" already exists

C:\Users\GIDEON\Desktop\Project>kubectl get svc
NAME          TYPE          CLUSTER-IP      EXTERNAL-IP  PORT(S)          AGE
flask-app     NodePort      172.21.26.206    <none>        5000:30512/TCP   2d3h
flask-app-service ClusterIP     172.21.105.109   <none>        5000/TCP          2d3h
kubernetes    ClusterIP     172.21.0.1       <none>        443/TCP           2d11h
testingpage1  NodePort      172.21.99.101    <none>        5000:31697/TCP   2d3h

C:\Users\GIDEON\Desktop\Project>cd C:\Users\GIDEON\Desktop\Project
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IBM Cloud Container Registry Namespaces

Location: Tokyo

Resource group: Filter... Search

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inven	Default	1	1	Retain all images

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IBM Cloud Container Registry Repositories

Location: Tokyo

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Name	Image count	Namespace	Last updated
manage jp.lcr.io/inven/manage	1	inven	2 hours ago

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