DEPLOYMENT OF APP IN IBM CLOUD

Deploy in Kubernetes Cluster

Date	17 TH November 2022
Team ID	PNT2022TMID30805
Project Name	Inventory Management System For Retailers

Deploy in Kubernetes Cluster

```
thor@jump_host 🔸
thor@jump_host -$ kubectl get all
                                               READY STATUS
                                                                         RESTARTS
                                                                                    AGE
                                                      ImagePullBackOff
pod/python-deployment-nautilus-5dbcd5f8b4-vsljv 0/1
                                                                        0
                                                                                    875
                                                         EXTERNAL-IP PORT(S)
                                           CLUSTER-IP
                                TYPE
                                                                                        AGE
service/kubernetes
                                ClusterIP 10.96.0.1
                                                          <none>
                                                                       443/TCP
                                                                                        35
service/python-service-nautilus
                                NodePort
                                           10.96.40.136 (none)
                                                                        8080:32345/TCP
                                                                                        875
                                           READY UP-TO-DATE AVAILABLE AGE
deployment.apps/python-deployment-nautilus
                                          9/1
                                                               0
                                                                          875
                                                     DESIRED CURRENT READY
                                                                                AGE
                                                                        0
replicaset.apps/python-deployment-nautilus-5dbcd5f8b4 1
                                                                                875
thor@jump_host 🤸
thor@jump_host ❖ kubectl logs python-deployment-nautilus-5dbcd5f8b4-vsljv
Error from server (BadRequest): container "python-container-nautilus" in pod "python-deployment
-nautilus-5dbcd5f8b4-vsljv" is waiting to start: image can't be pulled
thor@jump_host 🤸
thor@jump_host 🔸 kubectl de
```

```
deployment.kubernetes.io/revision: 1
Selector:
                      app=python_app
                      1 desired | 1 updated | 1 total | 0 available | 1 unavailable
Replicas:
StrategyType:
                      RollingUpdate
MinReadySeconds:
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
 Labels: app=python_app
Containers:
  python-container-nautilus:
   Image: poroko/flask-app-demo
                 5000/TCP
   Port:
   Host Port: 0/TCP
   Environment: <none>
   Mounts:
                (none)
 Volumes:
                <none>
Conditions:
                Status Reason
 Type
               False MinimumReplicasUnavailable
 Available
 Progressing True
                       ReplicaSetUpdated
OldReplicaSets: <none>
NewReplicaSet: python-deployment-nautilus-5dbcd5f8b4 (1/1 replicas created)
Events:
 Type
       Reason
                            Age From
                                                       Message
 Normal ScalingReplicaSet 119s deployment-controller Scaled up replica set pytho
nt-nautilus-5dbcd5f8b4 to 1
thordium host 🖋
```

```
# Please edit the object below. Lines beginning with a '#' will be ignored,
# and an empty file will abort the edit. If an error occurs while saving this file wil
# reopened with the relevant failures.
apiVersion: apps/v1
kind: Deployment
metadata:
  annotations:
     deployment.kubernetes.io/revision: "1"
     kubectl.kubernetes.io/last-applied-configuration:
{"apiVersion": "apps/v1", "kind": "Deployment", "metadata": {"annotations": {}, "name": eployment-nautilus", "namespace": "default"}, "spec": {"replicas": 1, "selector": {"matchLabe": "python_app"}}, "template": {"metadata": {"labels": {"app": "python_app"}}, "spec": {"containage": "poroko/flask-app-demo", "name": "python-container-nautilus", "ports": [{"containe"
00}]}}}}
  creationTimestamp: "2021-09-10T16:02:11Z"
  generation: 1
  name: python-deployment-nautilus
  namespace: default
  resourceVersion: "3959"
  uid: 177c6c69-ff69-4af5-8f8b-bdcbd55281f1
 spec:
  progressDeadlineSeconds: 600
  replicas: 1
  revisionHistoryLimit: 10
  selector:
    matchLabels:
        app: python_app
  strategy:
```

```
creationTimestamp: "2021-09-10T16:02:11Z"
 generation: 1
 name: python-deployment-nautilus
 namespace: default
 resourceVersion: "3959"
 uid: 177c6c69-ff69-4af5-8f8b-bdcbd55281f1
spec:
 progressDeadlineSeconds: 600
 replicas: 1
 revisionHistoryLimit: 10
 selector:
   matchLabels:
    app: python_app
 strategy:
   rollingUpdate:
    maxSurge: 25%
    maxUnavailable: 25%
   type: RollingUpdate
 template:
   metadata:
     creationTimestamp: null
     labels:
       app: python_app
   spec:
     containers:
      - image: poroko/flask-demo-app
       imagePullPolicy: Always
       name: python-container-nautilus
      ports:
```

```
thor@jump_host < kubectl get deploy
NAME READY UP-TO-DATE AVAILABLE AGE
python-deployment-nautilus 1/1 1 1 4m23s
thor@jump_host < kubectl get pods
NAME READY STATUS RESTARTS AGE
python-deployment-nautilus-767b6d4c9b-znb7m 1/1 Running 0 76s
thor@jump_host < kubectl edit svc
service/kubernetes skipped
service/python-service-nautilus edited
thor@jump_host < kubectl get svc
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
kubernetes ClusterIP 10.96.0.1 (none) 443/TCP 39m
python-service-nautilus NodePort 10.96.40.136 (none) 5000:32345/TCP 5m42s
thor@jump_host < 1
```