Deploymnet of App in IBM

Deploy in Kubernetes Cluster

Date	16 November 2022
Team ID	PNT2022TMID11718
Project Name	Inventory Managment System for Retailers

Deploy in Kubernetes Clus

```
thor@jump_host -4
thor@jump_host -$ kubectl get all
NAME READY STATUS RESPONDED TO THE PROPERTY OF THE PROPERTY OF
                                                                                                                                                                                                                                                                                      RESTARTS AGE
                                                                                                                                                                                                                                                                                                                               875
                                                                                                                            TYPE
                                                                                                                                                                      CLUSTER-IP
                                                                                                                                                                                                                  EXTERNAL-IP PORT(S)
                                                                                                                          ClusterIP
 service/kubernetes
                                                                                                                                                                     10.96.0.1
                                                                                                                                                                                                                           <none>
                                                                                                                                                                                                                                                                              443/TCP
                                                                                                                                                                                                                                                                                                                                               35
 service/python-service-nautilus
                                                                                                                         NodePort
                                                                                                                                                                       19.96.49.136 (none)
                                                                                                                                                                                                                                                                               8080:32345/TCP
                                                                                                                                                                   READY UP-TO-DATE AVAILABLE AGE
                                                                                                                                                                                                                                              8
deployment.apps/python-deployment-nautilus
                                                                                                                                                                   9/1
                                                                                                                                                                                                                                                                                        875
NAME
                                                                                                                                                                                                           DESTRED CURRENT READY
                                                                                                                                                                                                                                                                                                                AGE
replicaset.apps/python-deployment-nautilus-5dbcd5f8b4 1
                                                                                                                                                                                                                                                                                                                87s
                                                                                                                                                                                                                                                                                   9
thor@jump_host -4
thor@jump_host ❖ kubectl logs python-deployment-nautilus-5dbcd5f8b4-vsljv
Error from server (BadRequest): container "python-container-nautilus" in pod "python-deployment-nautilus-Sdbcd5f8b4-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:
                      RollingUpdate
StrategyType:
MinReadySeconds:
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
 Labels: app python_app
 Containers:
  python-container-nautilus:
             poroko/flask-app-demo
   Image:
   Port:
                 5888/TCP
                0/TCP
   Host Port:
   Environment: <none>
   Mounts:
                <none>
 Volumes:
                (none)
Conditions:
                Status Reason
 Type
 Available
              False MinimumReplicasUnavailable
                       ReplicaSetUpdated
 Progressing
                True
OldReplicaSets: <none>
NewHeplicaSet: python-deployment-nautilus-5dbcd5f8b4 (1/1 replicas created)
Events:
                            Age From
         Reason
                                                       Message
 Normal ScalingReplicaSet 119s deployment-controller Scaled up replica set pytho
nt-nautilus-5dbcd5f8b4 to 1
```

```
# 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/vl
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": {"conta
"image": "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
     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
progressDeadlineSeconds: 600
revisionHistoryLimit: 10
selector:
 matchLabels:
   app: python_app
strategy:
 rollingUpdate:
   maxSurge: 25%
   maximavailable: 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
                             READY UP-TO-DATE AVAILABLE AGE 1/1 1 1 4m23
NAME
python-deployment-nautilus 1/1
thor@jump_host -$
thor@jump_host -$ kubectl get pods
                                               READY STATUS RESTARTS AGE
python-deployment-nautilus-767b6d4c9b-znb7m 1/1
thor@jump_host ❖ kubectl edit svc
                                                       Running 0
                                                                             765
service/kubernetes skipped
service/python-service-nautilus edited
thor@jump host 🎺
thor@jump host -$ kubectl get svc
NAME TYPE
                                       CLUSTER-IP EXTERNAL-IP PORT(S)
                                                                                      AGE
                                                     <none> 443/TCP
5000:32345/TCP 5m42s
kubernetes
                          ClusterIP 18.96.0.1
python-service-nautilus NodePort
                                       10.96.40.136 (none)
thor@jump_host 🛂
```