Deploymnet of App in IBM

Deploy in Kubernetes Cluster

Date	7 November 2022
Team ID	PNT2022TMID13508
Project Name	Inventory Managment System for Retailers

Deploy in Kubernetes Cluster

```
thor@jump_host 🐗
thor@jump_host - kubectl get all
                                                     READY STATUS
                                                                                 RESTARTS AGE
pod/python-deployment-nautilus-5dbcd5f8b4-vsljv 0/1
                                                             ImagePullBackOff
                                                                                             87s
NAME
                                    TYPE
                                                CLUSTER-IP
                                                                EXTERNAL-IP PORT(S)
                                                                                                 AGE
service/kubernetes
                                                                               443/TCP
                                    ClusterIP
                                                10.96.0.1
                                                                                                 35
                                                                <none>
                                                               <none>
service/python-service-nautilus
                                   NodePort
                                                10.96.40.136
                                                                               8080:32345/TCP
                                                                                                 87
                                                READY UP-TO-DATE AVAILABLE
deployment.apps/python-deployment-nautilus
                                               9/1
                                                                     0
                                                                                  875
NAME
                                                           DESTRED CURRENT READY
                                                                                        AGE
replicaset.apps/python-deployment-nautilus-5dbcd5f8b4 1
                                                                                         87s
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
```

```
Annotations:
                        deployment.kubernetes.io/revision: 1
                        app=python_app
1 desired | 1 updated | 1 total | 0 available | 1 unavailable
Selector:
Replicas:
StrategyType:
                        RollingUpdate
MinReadySeconds:
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
Labels: app=python_app
 Containers:
  python-container-nautilus:
                 poroko/flask-app-demo
   Image:
   Port:
                  5000/TCP
   Host Port:
                Ø/TCP
   Environment: (none)
   Mounts:
                 <none>
 Volumes:
                 <none>
Conditions:
                 Status Reason
 Type
                False MinimumReplicasUnavailable
 Available
                         ReplicaSetUpdated
 Progressing
                True
OldReplicaSets: <none>
NewReplicaSet: python-deployment-nautilus-5dbcd5f8b4 (1/1 replicas created)
Events:
         Reason
                             Age From
                                                          Message
 Type
 Normal ScalingReplicaSet 119s deployment-controller Scaled up replica set pytho
nt-nautilus-5dbcd5f8b4 to 1
thorpjump 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": {"conta
"image": "poroko/flask-app-demo", "name": "python-container-nautilus", "ports": [{"containe
00}]]]]]}}
  creationTimestamp: "2021-09-10T16:02:112"
  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
                              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 ❖
thor@jump_host ❖ kubectl edit svc
                                                       Running 0
                                                                              76s
service/kubernetes skipped
service/python-service-nautilus edited
thor@jump_host 😽
thor@jump_host -$ kubectl get svc
                                       CLUSTER-IP EXTERNAL-IP 10.10.96.0.1 (none) 443/TCP 5m42s
NAME
                           TYPE
kubernetes
                           ClusterIP 10.96.0.1
python-service-nautilus NodePort
thor@jump_host 📲
```