Deploymnet of App in IBM

Deploy in Kubernetes Cluster

Date	8 November 2022
Team ID	PNT2022TMID04526
Project Name	Inventory Managment 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
                                                                                              875
                                                                                  0
                                                 CLUSTER-IP
                                                                 EXTERNAL-IP PORT(S)
NAME
                                    TYPE
                                                                                                   AGI
service/kubernetes
                                    ClusterIP
                                                 10.96.0.1
                                                                                443/TCP
                                                                                                   35
                                                                 (none)
service/python-service-nautilus
                                    NodePort
                                                 10.96.40.136
                                                                <none>
                                                                                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
                                                                                          875
                                                                                 a
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 🍕
thorwiump host -$ kubectl de
```

```
deployment.kubernetes.io/revision: 1
Annotations:
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:
                 poroko/flask-app-demo
                 5000/TCP
   Port:
   Host Port:
                 0/TCP
   Environment: <none>
   Mounts:
 Volumes:
                 (none)
Conditions:
                Status Reason
 Available
                False MinimumReplicasUnavailable
                        ReplicaSetUpdated
 Progressing
                True
OldReplicaSets: <none>
NewReplicaSet: python-deployment-nautilus-5dbcd5f8b4 (1/1 replicas created)
Events:
                                  From
 Type
         Reason
                            Age
                                                         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/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: "2021-09-10T16:02:11Z"
  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
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
    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 READY STATUS RESTARTS AGE

python-deployment-nautilus-767b6d4c9b-znb7m 1/1 Running 0 76s

thor@jump_host < kubectl edit svc

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
```