

Deployment of App in IBM Cloud Deploy in Kubernetes Cluster

Date	19 November 2022
Team ID	PNT2022TMID51917
Project Name	Personal expense tracker application

Deploy in Kubernetes Cluster

```
Microsoft Windows [Version 10.0.22621.819]
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C:\Users\user>kubectl all
error: unknown command "all" for "kubectl"

C:\Users\user>kubectl get all
NAME                 TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)   AGE
service/kubernetes   ClusterIP   10.96.0.1    <none>        443/TCP   3d21h

C:\Users\user>
```

```
Annotations:      deployment.kubernetes.io/revision: 1
Selector:         app=python_app
Replicas:         1 desired | 1 updated | 1 total | 0 available | 1 unavailable
StrategyType:     RollingUpdate
MinReadySeconds:  0
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
  Labels:  app=python_app
  Containers:
    python-container-nautilus:
      Image:   poroko/flask-app-demo
      Port:    5000/TCP
      Host Port: 0/TCP
      Environment: <none>
      Mounts:     <none>
      Volumes:    <none>
Conditions:
  Type           Status  Reason
  ----           -
  Available      False   MinimumReplicasUnavailable
  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 python-deployment-nautilus-5dbcd5f8b4 to 1

thon@jump host ~$
```

```

creationTimestamp: "2021-09-10T16:02:11Z"
generation: 1
name: python-deployment-nautilus
namespace: default
resourceVersion: "3959"
uid: 177c6c69-ff69-4af5-8f8b-bdcdbd55281f1
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:

```

```

# 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 will
# be 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":
      "python-deployment-nautilus","namespace":"default"},"spec":{"replicas":1,"selector":{"matchLabels":{"app":"python_app"}},"template":{"metadata":{"labels":{"app":"python_app"}},"spec":{"containers":{"name":"python-container-nautilus","image":"poroko/flask-app-demo","name":"python-container-nautilus","ports":[{"containerPort":5000}]}}}}
creationTimestamp: "2021-09-10T16:02:11Z"
generation: 1
name: python-deployment-nautilus
namespace: default
resourceVersion: "3959"
uid: 177c6c69-ff69-4af5-8f8b-bdcdbd55281f1
spec:
  progressDeadlineSeconds: 600
  replicas: 1
  revisionHistoryLimit: 10
  selector:
    matchLabels:
      app: python_app
  strategy:

```

Containers

Images

Volumes

Dev Environments beta

Extensions beta

Add Extensions

Containers [Give feedback](#)

A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. [Learn more](#)

☐ Only show running containers

	NAME	IMAGE	STATUS	PORTS	STARTED	ACTIONS
<input type="checkbox"/>	confident_lampport 2c9a4ba9f428	docker/getting-started:latest	Exited (255)	80:80		
<input type="checkbox"/>	k8s_POD_kube-scheduler-docker-desktop_kube-system_3744c28618b9eefc6c 4381a8f2079a	k8s.gcr.io/pause:3.8	Running		5 minutes ago	
<input type="checkbox"/>	k8s_POD_etcd-docker-desktop_kube-system_c4a48feca9b9b9e6d7e0653576f 50db49e30cd9	k8s.gcr.io/pause:3.8	Running		5 minutes ago	
<input type="checkbox"/>	k8s_POD_kube-apiserver-docker-desktop_kube-system_8e9132c31407bb3ec5 9a2b2d8f6a9b	k8s.gcr.io/pause:3.8	Running		5 minutes ago	
<input type="checkbox"/>	k8s_POD_kube-controller-manager-docker-desktop_kube-system_6c75172049 fe9ca0471490	k8s.gcr.io/pause:3.8	Running		5 minutes ago	
<input type="checkbox"/>	k8s_kube-apiserver_kube-apiserver-docker-desktop_kube-system_8e9132c31 61fe52dd4b3	k8s.gcr.io/kube-apiserver:v1.25.2	Running		5 minutes ago	
<input type="checkbox"/>	k8s_kube-scheduler_kube-scheduler-docker-desktop_kube-system_3744c2861 f45f0012fb91	k8s.gcr.io/kube-scheduler:v1.25.2	Running		5 minutes ago	
<input type="checkbox"/>	k8s_etcd_etcd-docker-desktop_kube-system_c4a48feca9b9b9e6d7e0653576f f72291a96964	k8s.gcr.io/etcd:3.5.4-0	Running		5 minutes ago	
<input type="checkbox"/>	k8s_kube-controller-manager_kube-controller-manager-docker-desktop_kube b951b48a327c	k8s.gcr.io/kube-controller-manager:v1.25.2	Running		5 minutes ago	
<input type="checkbox"/>	k8s_POD_coredns-95db45d46-mw5jg_kube-system_483eed70-667e-4018-98bb- 32e85bce29ac	k8s.gcr.io/pause:3.8	Running		5 minutes ago	
<input type="checkbox"/>	k8s_POD_kube-proxy-xq9dl_kube-system_e81096b3-261f-4e06-98e5-6e76dbd8 092c70da2ac0	k8s.gcr.io/pause:3.8	Running		5 minutes ago	
<input type="checkbox"/>	k8s_POD_coredns-95db45d46-m7dxb_kube-system_a729c659-e72f-4c7a-beef- aee26cffe5bb	k8s.gcr.io/pause:3.8	Running		5 minutes ago	
<input type="checkbox"/>	k8s_POD_yunikit-controller_kube-system_582d3506-45da-4dac-9185-bb512632 9d2659c34b0a	k8s.gcr.io/pause:3.8	Running		5 minutes ago	
<input type="checkbox"/>	k8s_POD_storage-provisioner_kube-system_993877a0-8b3f-4130-8708-980a46					

Showing 20 items

RAM 2.98GB

CPU 1.83%

Connected to Hub

vs13.1