

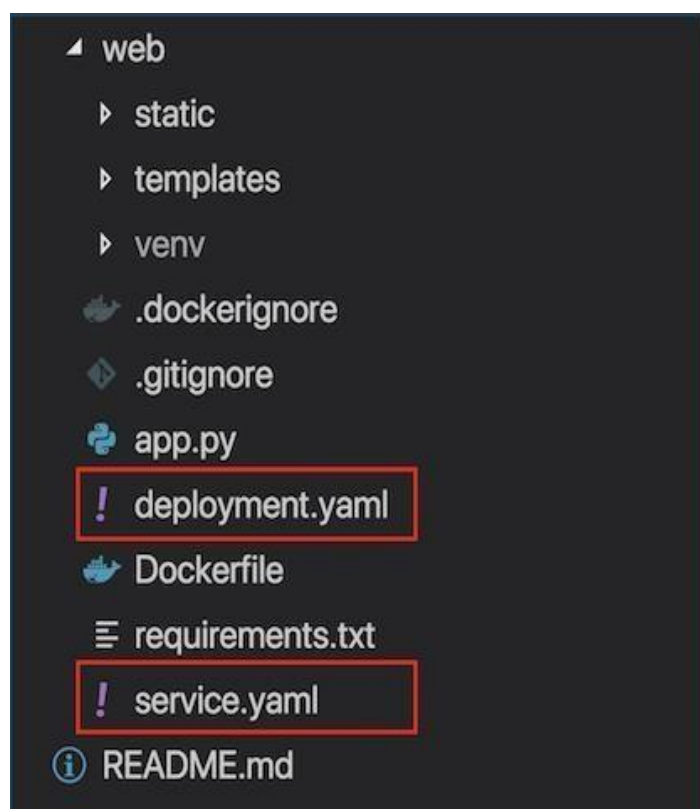
Deployment of App in IBM Cloud

Deploy On Kubernetes

Date	14 NOV 2022
Team ID	PNT2022TMID47064
Project Name	Skill and Job Recommender
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Step 1 :

Go to the Project Repository then Create the Deployment.yaml and Service.yaml files.



Step 2 :

In deployment.yaml file Type the Following Code.

```
apiVersion: extensions/v1beta1
kind: Deployment metadata:
  name: flask-node-deployment
spec: replicas: 1
selector: matchLabels:
  app: flasknode
template: metadata:
labels: app:
flasknode spec:
containers: -
name: flasknode
  image: registry.ng.bluemix.net/flask-node/app
imagePullPolicy: Always ports:
  - containerPort: 5000
```

Step 3 :

In service.yaml file Type the Following Code.

```
apiVersion: v1
kind: Service
metadata:
  name: flask-node-deployment
spec: ports: - port:
5000 targetPort: 5000
selector:
  app: flasknode
```

Step 4 :

Then follow the steps to deploy.

1.Target the IBM Cloud Kubernetes Service region where you want to work.

```
ibmcloud cs region-set us-south
```

2.Set the context for the cluster in your CLI.

```
ibmcloud cs cluster-config cluster_kunal> export  
KUBECONFIG=/Users/$USER/.bluemix/plugins/container -service/clusters/< cluster_name  
>/< cluster_configuration_file.yaml>
```

3.Verify that you can connect to your cluster by listing your worker nodes.

```
kubectl get nodes
```

4.Create the deployment.

```
kubectl create -f deployment.yaml
```

5.Create the service.

```
kubectl create -f service.yaml
```

Step 5 :

Look the Kubernet Page.

kubernetes

Search

+ CREATE

Overview

Cluster

Namespaces

Nodes

Persistent Volumes

Roles

Storage Classes

Namespace

default

Overview

Workloads

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Deployments

Jobs

Pods

Replica Sets

Replication Controllers

Stateful Sets

Discovery and Load Balancing

Ingresses

Services

Config and Storage

Config Maps

Persistent Volume Claims

Deployments

Name	Labels	Pods	Age	Images
flask-node-deployment	app: flasknode	1 / 1	5 minutes	registry.ng.bluemix.net/flask-node/app

Pods

Name	Node	Status	Restarts	Age	CPU (cores)	Memory (bytes)
flask-node-deployment-5cd96cf6bc-d6n6x	10.47.79.201	Running	0	5 minutes	0	19.352 Mi

Replica Sets

Name	Labels	Pods	Age	Images
flask-node-deployment-5cd96cf6bc	app: flasknode pod-template-hash: 1785279267	1 / 1	5 minutes	registry.ng.bluemix.net/flask-node/app

Discovery and Load Balancing

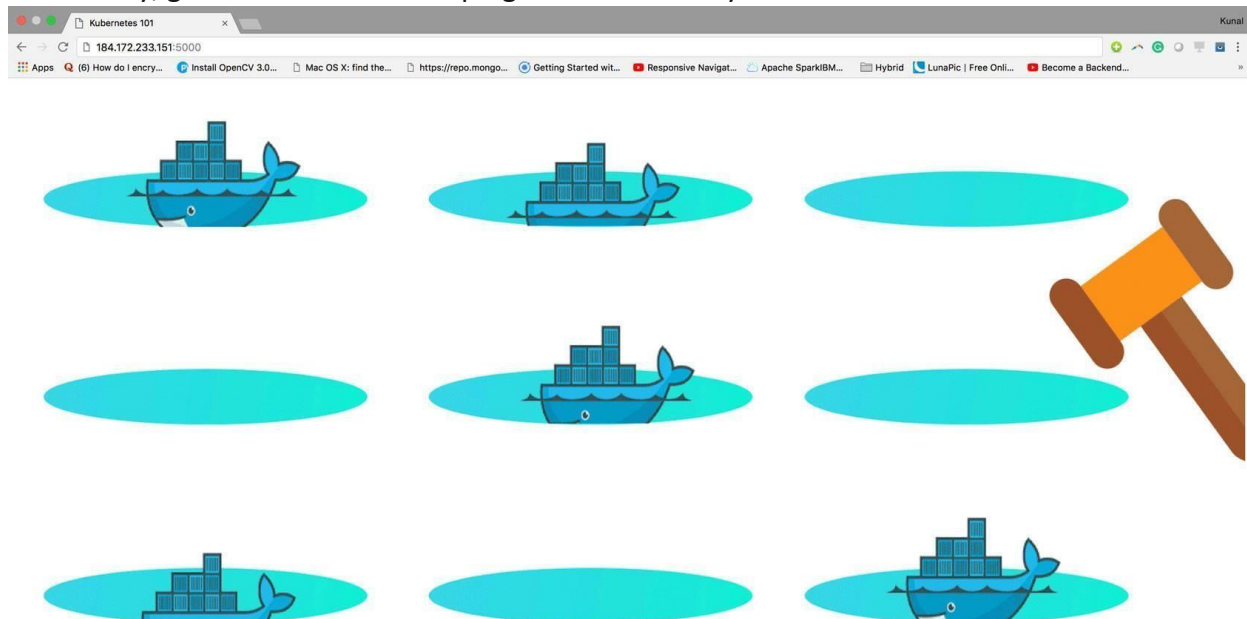
Services

Name	Labels	Cluster IP	Internal endpoints	External endpoints	Age
kubernetes	component: apiserver provider: kubernet	172.21.0.1	kubernetes:443 TCP kubernetes:0 TCP	-	a minute
flask-node-deployment	-	172.21.104.14	flask-node-deployment:5000 TCP flask-node-deployment:0 TCP	-	a minute

Config and Storage

Step 6 :

Finally, go to the browser and ping the Public IP of your worker node.



Step 7 :

Finally deploy the image on kubernetes Successfully.