

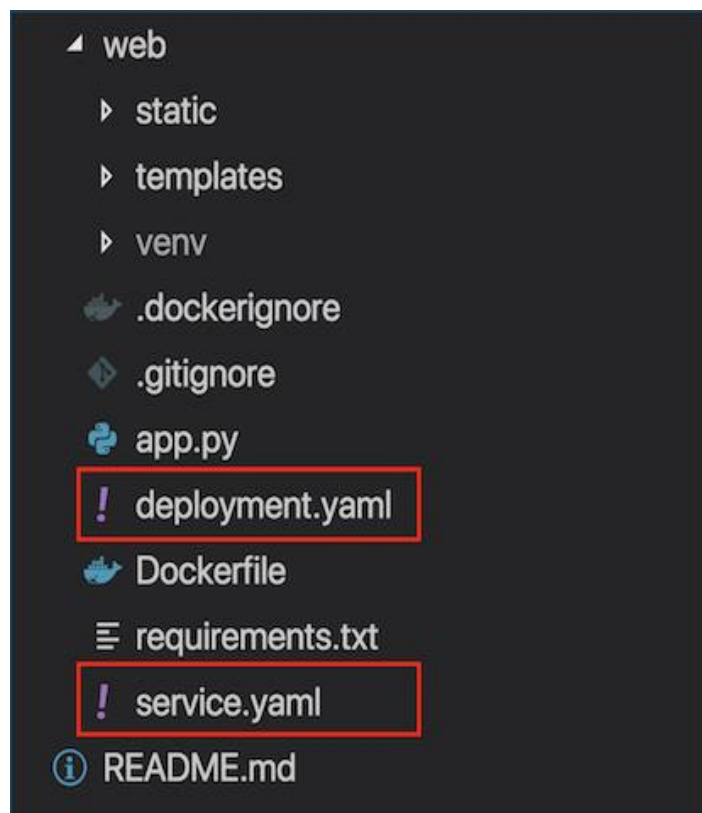
Deployment of App in IBM Cloud

Deploy On Kubernetes

Date	11 NOV 2022
Team ID	B2-2M4E
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.

```
kubectll get nodes
```

4.Create the deployment.

```
kubectll create -f deployment.yaml
```

5.Create the service.

```
kubectll create -f service.yaml
```

Step 5 :

Look the Kubernet Page.

kubernetes

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Overview

Cluster

Namespaces

Nodes

Persistent Volumes

Roles

Storage Classes

Namespace

default

Overview

Workloads

Cron Jobs

Daemon Sets

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-5cd99cf6bc-d6n6x	10.47.79.201	Running	0	5 minutes	0	19.352 Mi

Replica Sets

Name	Labels	Pods	Age	Images
flask-node-deployment-5cd99cf6bc	app: flasknode pod-template-hash: 1785279267	1 / 1	5 minutes	registry.ng.bluemix.net/flask-node/app

Discovery and Load Balancing

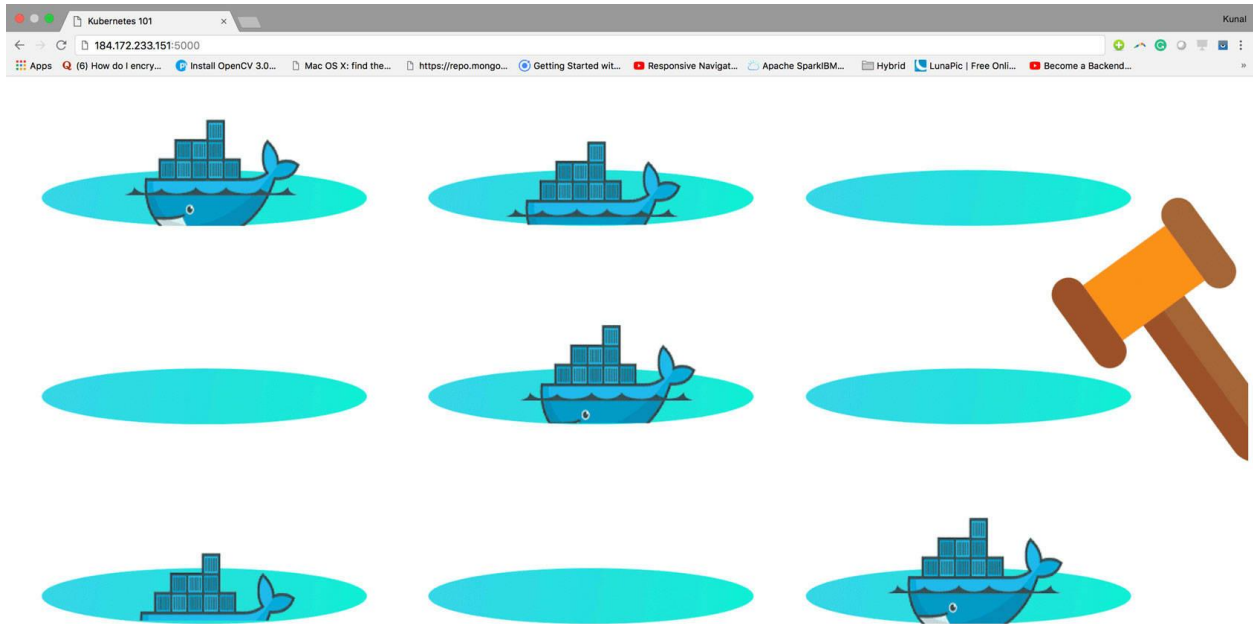
Services

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