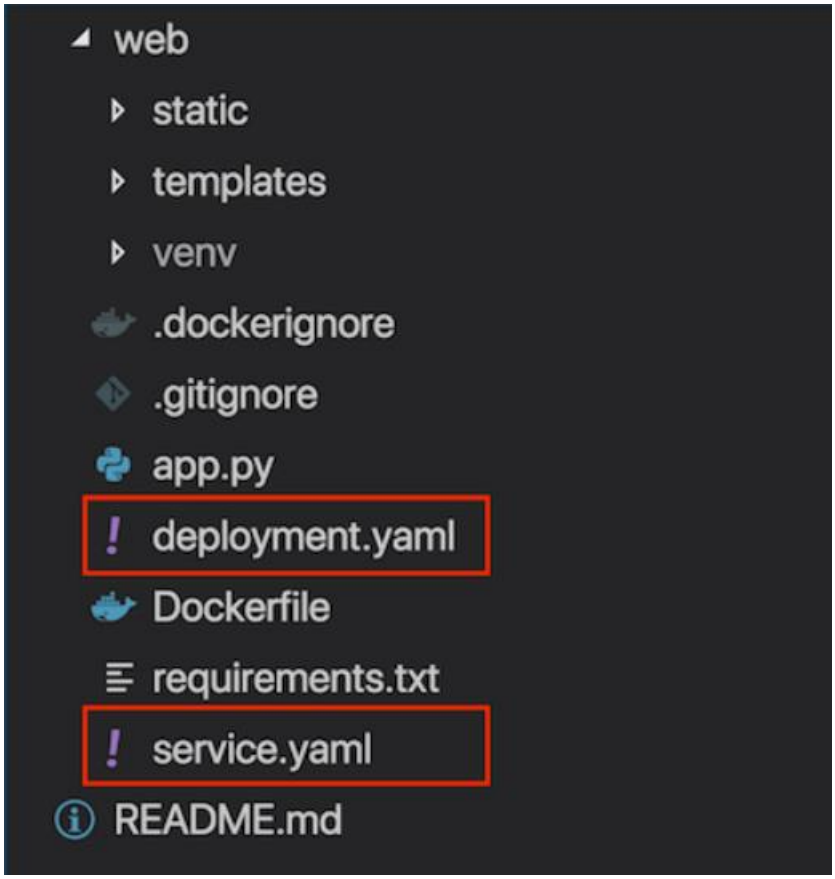
DEPLOY IN KUBERNETES CLUSTER

Date	19 November 2022
Team ID	PNT2022TMID32708
Project Name	Job/Skill Recommender

STEP 1:

Go to project repository, then create the Deployment.yaml and Service.yaml files.



STEP 2:

In Deployment.yaml, 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, Type the following code.

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

STEP 4:

Follow the below Instructions.

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

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

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

   a. Get the command to set the environment variable and download the Kubernetes configuration files.

```
ibmcloud cs cluster-config cluster_kunal
```

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   b. Set the KUBECONFIG environment variable. Copy the output from the previous command and paste it in your terminal. The command output should look similar to the following.

```
> export KUBECONFIG=/Users/$USER/.bluemix/plugins/container-service/clusters/< clust
<
```

Show more

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

```
kubectl get nodes
```

Show more

4. Create the deployment.

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

Show more

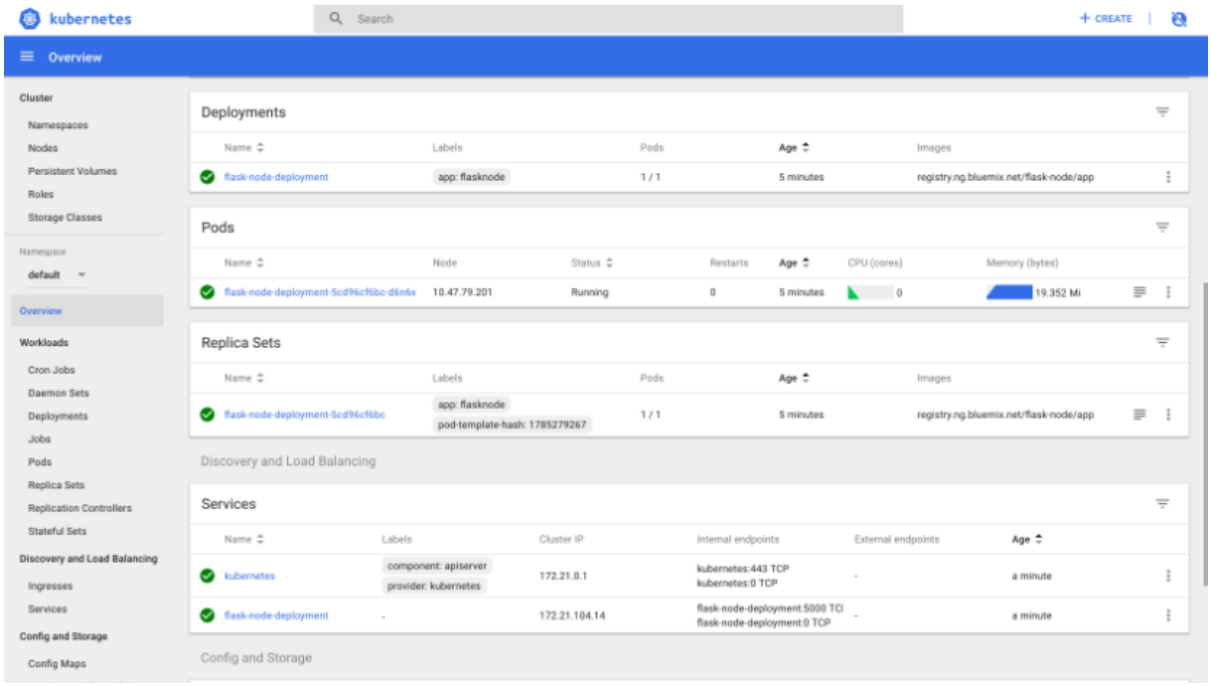
5. Create the service.

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

```
b. > export KUBECONFIG=/Users/$USER/.bluemix/plugins/container-service/clusters/< cluster_name >/< cluster_configuration_file.yaml>
```

STEP 5:

Look at the Kubernetes dashboard from the IBM Kubernetes Service overview page.



STEP 6:

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