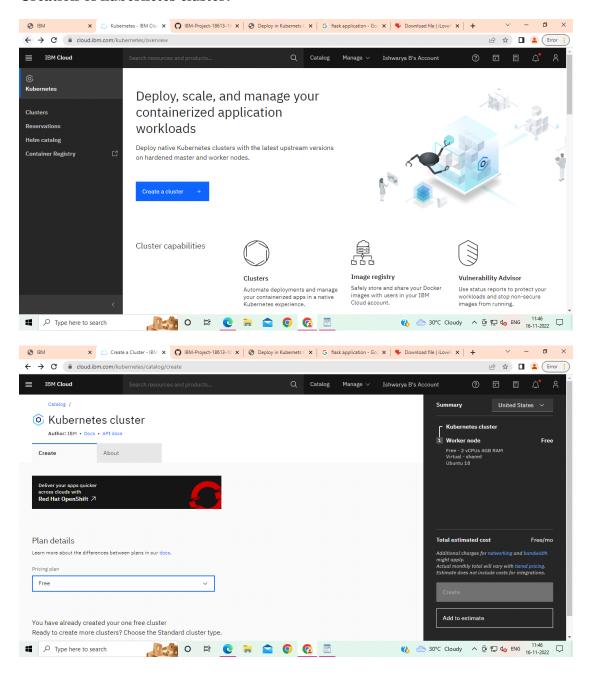
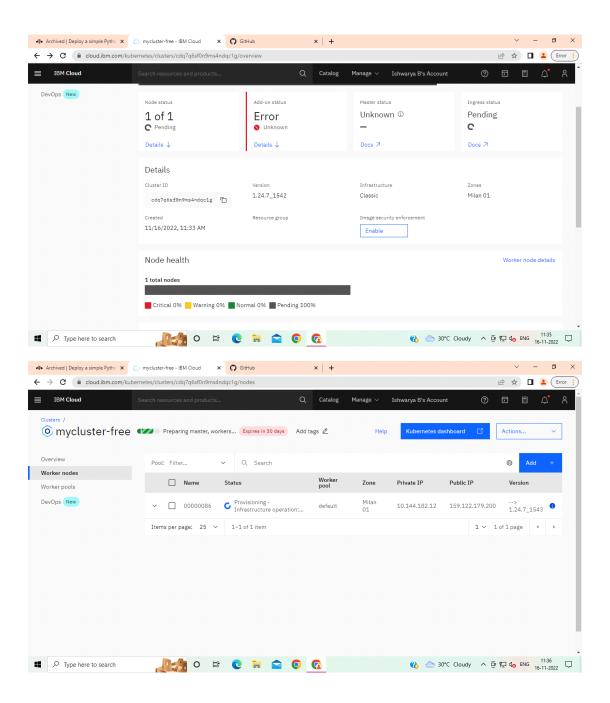
Upload Image To IBM Container Registry

Team ID	PNT2022TMID37215
Project Name	Project - SMART FASHION RECOMMENDER APPLICATION

Creation of kubernetes cluster:





Dockerfile:

FROM python:2.7

LABEL maintainer="AishwaryaB, 310119205009@smartinternz.com"

RUN apt-get update

RUN mkdir /app

WORKDIR /app

COPY . /app

RUN pip install -r requirements.txt

EXPOSE 5000

```
ENTRYPOINT [ "python" ] CMD [ "app.py" ]
```

Build an image from the Dockerfile:

```
Section 1.1 (EM) potential to booker downer 344.265

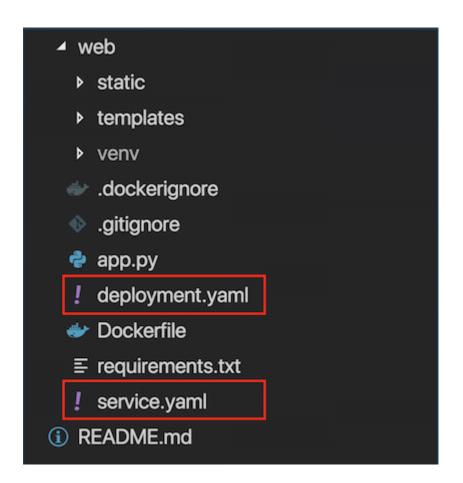
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```

Push the image to the IBM Cloud Registry:

- 1) go to IBM Cloud Kubernetes Service.
- 2)select Private Repositories.
- 3) ibmcloud plugin install container-registry -r "IBM Cloud"
- 4) ibmcloud login -a <cloud_foundary_end_point_for_the_region>
- 5) ibmcloud cr namespace-add <namespace>
- 6) ibmcloud cr login
- 7) docker tag <image_name> <region_url>/<namespace>/<image_name>:<tag>
- 8) docker push <region_url>/<namespace>/<image_name>:<tag>
- 9) ibmcloud cr image-list

Create configuration files for Kubernetes:



deployment.yaml:

```
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

service.yaml:

apiVersion: v1 kind: Service metadata:

name: flask-node-deployment

spec: ports:

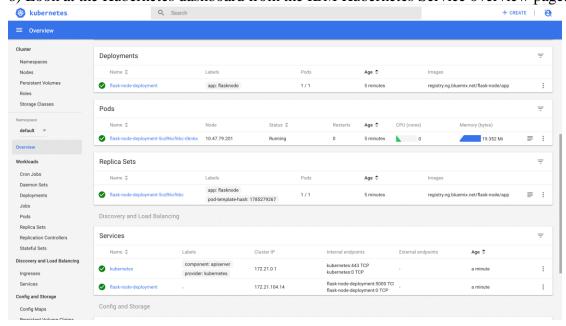
- port: 5000 targetPort: 5000

selector:

app: flasknode

Deploy your application to Kubernetes:

- 1) ibmcloud cs region-set us-south
- 2.a) ibmcloud cs cluster-config cluster_kunal
- 2.b) > export KUBECONFIG=/Users/\$USER/.bluemix/plugins/container-service/clusters/< cluster_name >/< cluster_configuration_file.yaml>
- 3) kubectl get nodes
- 4) kubectl create -f deployment.yaml
- 5) kubectl create -f service.yaml
- 6) Look at the Kubernetes dashboard from the IBM Kubernetes Service overview page.



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