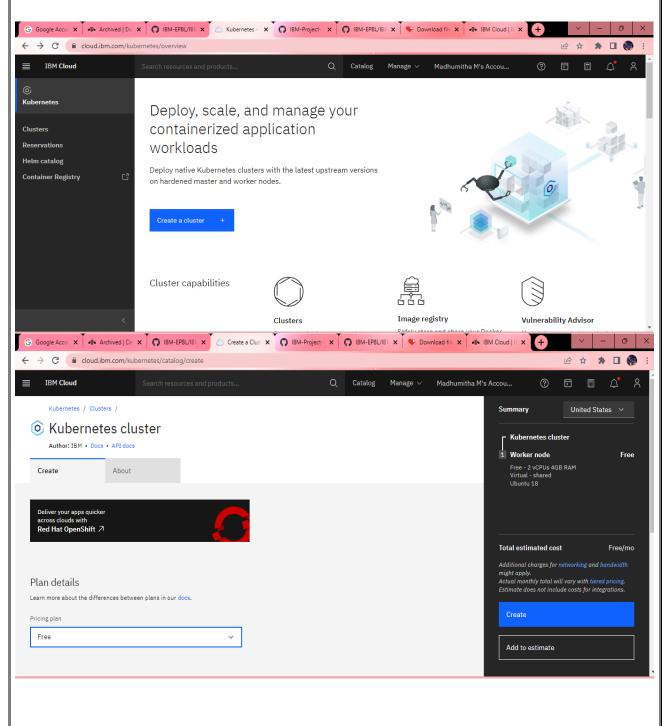
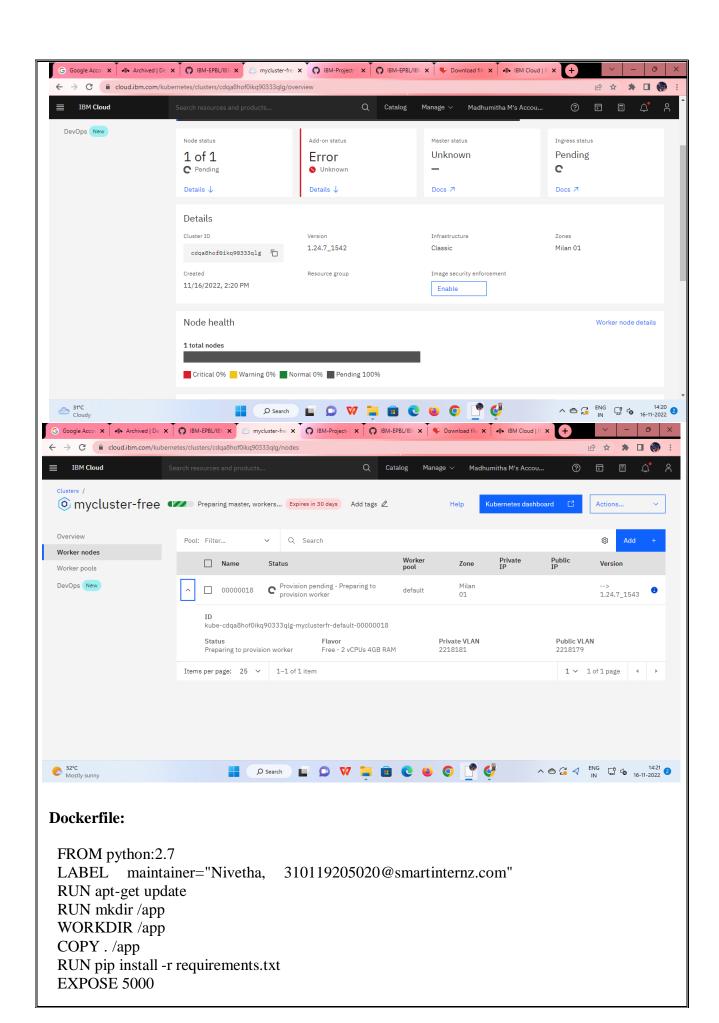
# **Upload Image To IBM Container Registry**

Team ID	PNT2022TMID37226
Project Name	Project - NEWS TRACKER APPLICATION

#### Creation of kubernetes cluster:





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

## **Build an image from the Docker file:**

```
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See 248 - 100 porture 17 - 1
```

# 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

```
Novelts-eign seek kunstenthetreid (tenctoud or feege-list Listing inages...

TAG DIGIST NAMESPACE ORATED SIZE SECURITY STATUS registry, reg. bluemia, net/flosk-node/opp latest b721da768Fe0 Flosk-node 1 day upo 366 Mil 3 Issues

OK Novelts-eign-seek kunstenthetreid |
```

#### **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:

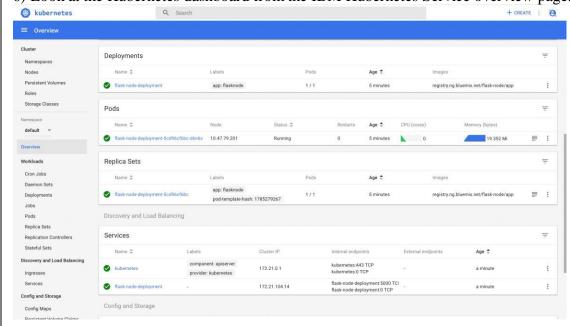
- port: 5000 targetPort: 5000

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

