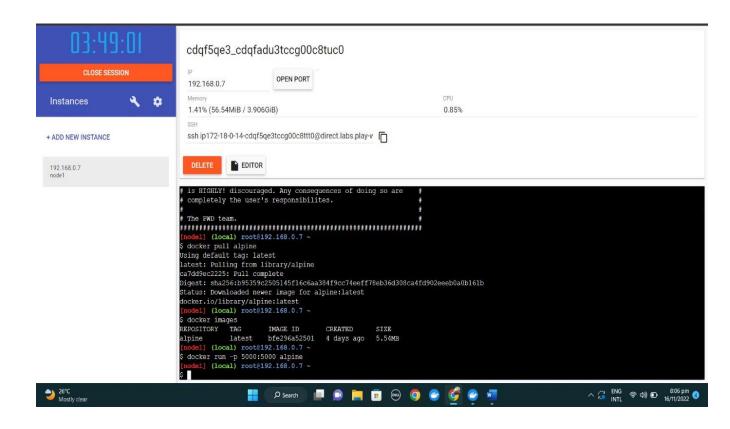
ASSIGNMENT-4

TEAM ID	PNT2022TMID47448
DATE	15-11-22

1.PULL AN IMAGE FROM DOCKER HUB AND RUN IT IN DOCKER PLAYGROUND



2.CREATE A DOCKER FILE FOR THE JOBPORTAL APPLICATION AND DEPLOY IT IN DOCKER DESKTOP APPLICATION.

Building the image hello world:

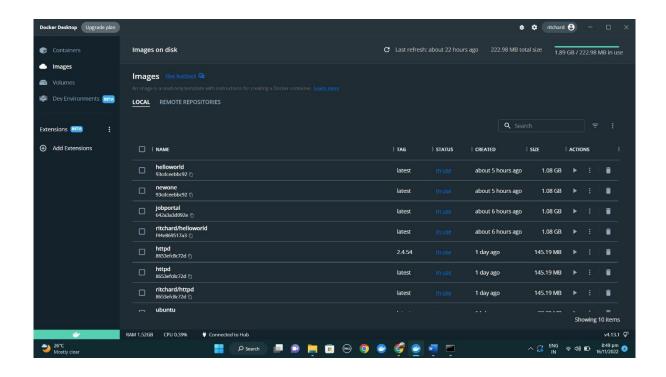
```
ECNylob-portal-miniotoker build -t helloworld .

| Crylob-portal-miniotoker build -t helloworld .
| Crylob-portal-miniotoker build -t helloworld .
| Crylob-portal-miniotoker build -t helloworld .
| Crylob-portal-miniotoker build -t helloworld .
| Crylob-portal-miniotoker build -t helloworld .
| Crylob-portal-miniotoker build -t helloworld .
| Crylob-portal-miniotoker build -t helloworld .
| Crylob-portal-miniotoker build -t helloworld .
| Crylob-portal-miniotoker build -t helloworld .
| Crylob-portal-miniotoker build -t helloworld .
| Crylob-portal-miniotoker build -t helloworld .
| Crylob-portal-miniotoker build -t helloworld .
| Crylob-portal-miniotoker build -t helloworld .
| Crylob-portal-miniotoker build -t helloworld .
| Crylob-portal-miniotoker build -t helloworld .
| Crylob-portal-miniotoker build -t helloworld .
| Crylob-portal-miniotoker build .
| Crylob-portal-miniot
```

Run:

```
C:\Users\nithe\AppData\Local\Programs\Python\Python310\job-portal>docker run -p 8080:8080 helloworld
* Serving Flask app 'app' (lazy loading)
* Environment: production
    WARNING: This is a development server. Do not use it in a production deployment.
    Use a production WSGI server instead.
* Debug mode: off
* Running on all addresses.
    WARNING: This is a development server. Do not use it in a production deployment.
* Running on http://172.17.0.2:5000/ (Press CTRL+C to quit)
```

Docker desktop:



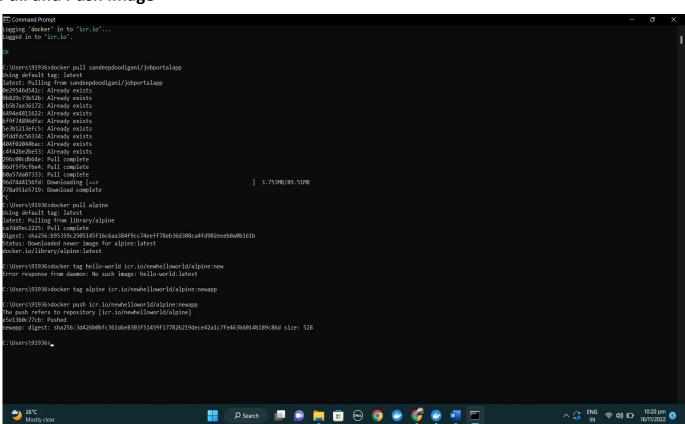
3. CREATE A IBM CONTAINER REGISTRY AND DEPLOY HELLO WORLD APP.

Install Container registry and create namespace

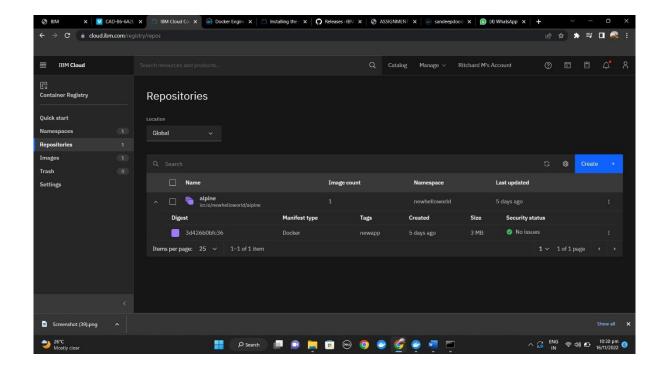


IBM cloud login

Pull and Push image

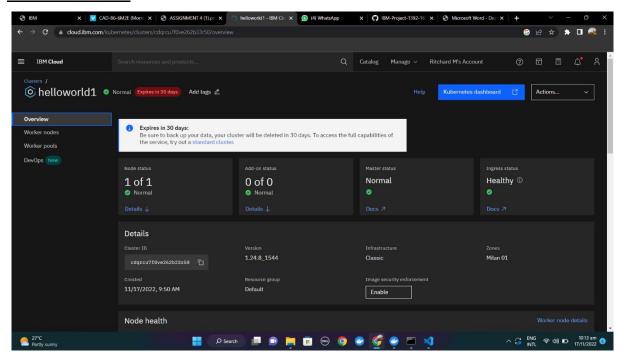


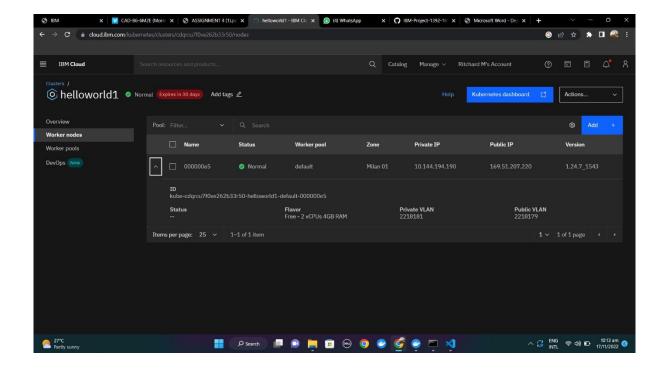
IBM container registry



4.CREATE A KUBERNETES CLUSTER IN IBM CLOUD AND DEPLOY HELLOWORLD IMAGE OR JOBPORTAL IMAGE AND ALSO EXPOSE THE SAME APP TO RUN IN NODEPORT

Cluster creation





Deployment.yaml

apiVersion: apps/v1 kind: Deployment metadata: name: jobportal spec: replicas: 1 selector: matchLabels: app: flasknode template: metadata: labels: app: flasknode spec: containers: - name: flasknode image: icr.io/helloworld1/newhelloworld 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

