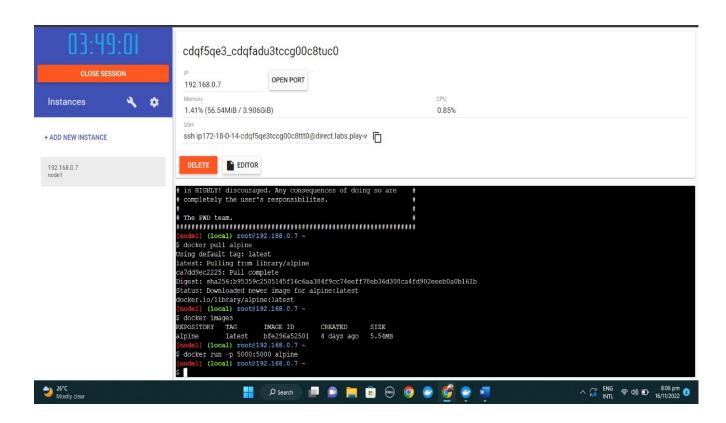
ASSIGNMENT-4

TEAM ID	PNT2022TMID48546
DATE	15-11-22
PROJECT NAME	Customer care registry

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



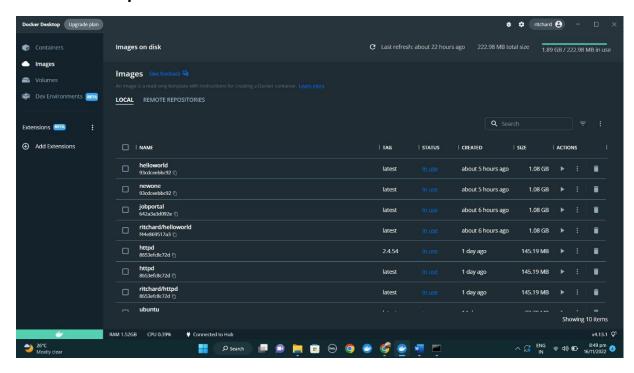
2. CREATE A DOCKER FILE FOR THE JOBPORTAL APPLICATION AND DEPLOY IT IN DOCKER DESKTOP APPLICATION.

Building the image hello world:

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)
```

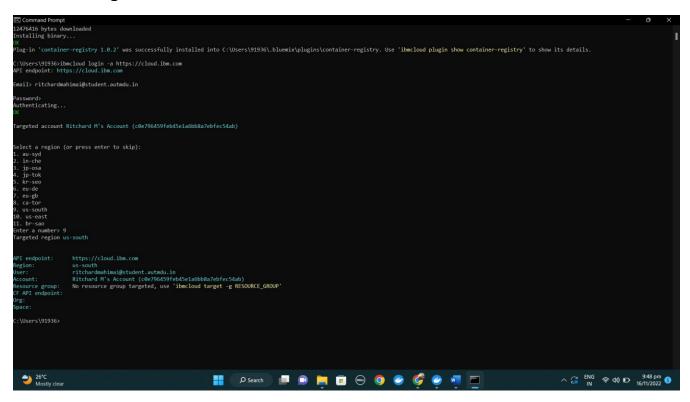
Docker desktop:



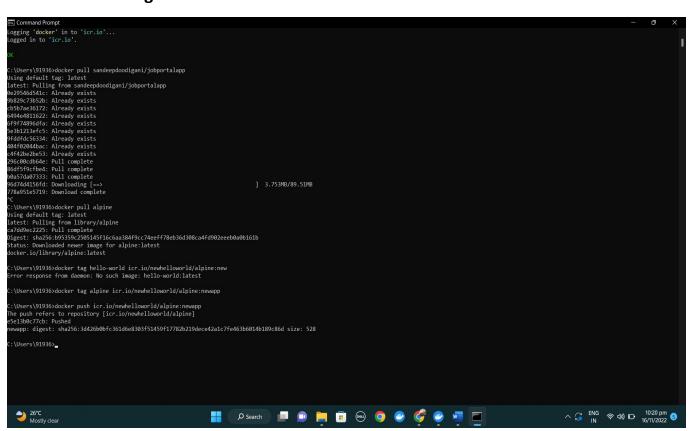
3. CREATE A IBM CONTAINER REGISTRY AND DEPLOY HELLO WORLD APP.

Install Container registry and create namespace

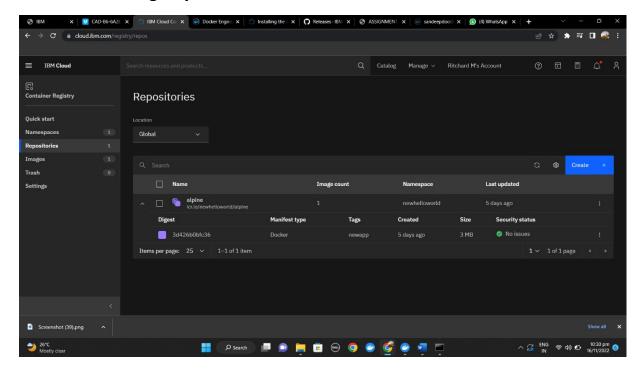
IBM cloud login



Pull and Push image

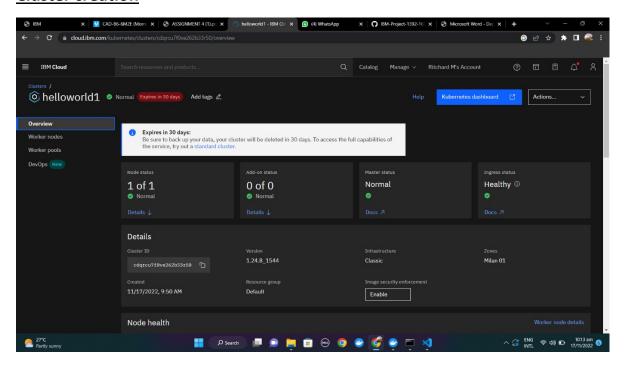


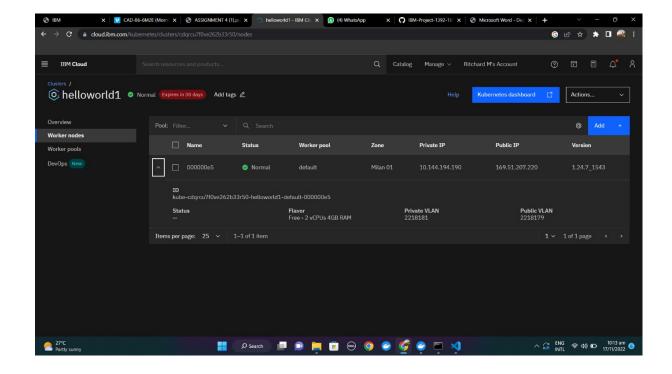
IBM container registry



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

