## **ASSIGNMENT 4**

| Team ID      | PNT2022TMID13419                      |
|--------------|---------------------------------------|
| Project Name | Skill and Job Recommender Application |

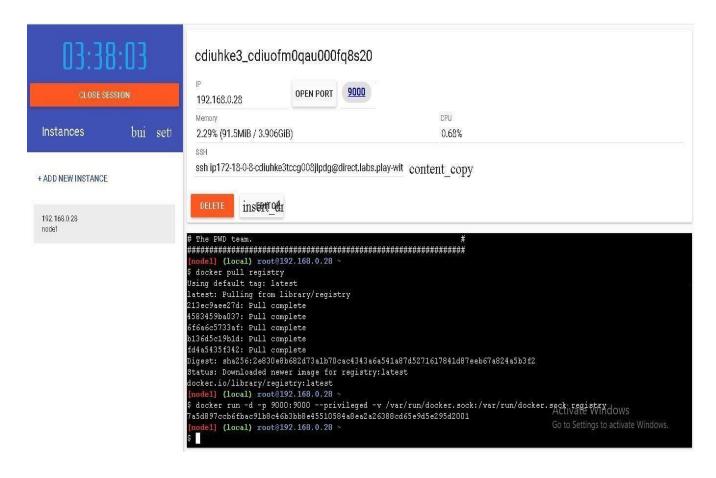
#### **DOCKER DESKTOP (Kubernet)**

#### **Question 1:**

Pull an image from docker hub and run it on docker playground.

docker pull registry

docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock registry





## **Question 2:**

Create a docker file for the job portal app or hello world app and deploy it in docker desktop app.

```
File Edit Format View Help

FROM python:3.8

WORKDIR /app

ADD . /app

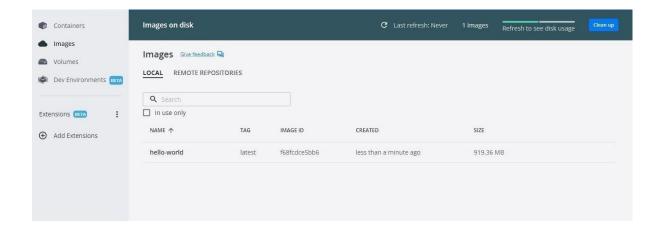
COPY requirements.txt /app

RUN python3 -m pip install -r requirements.txt

EXPOSE 5000

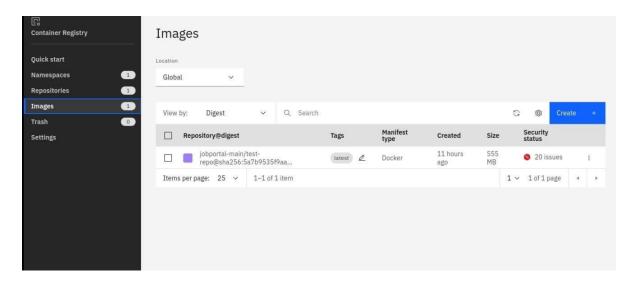
CMD ["python", "app.py"]
```

'



# **Question 3:**

Create an IBM container registry and deploy helloworld app or job portal app.



## **Question 4:**

Create a kubernetes cluster in IBM cloud and deploy helloworld image or job portal image and also expose the same app to run in nodeport.

```
apiVersion:
v1kind:
Service
metadata:
      name: hello-world-
  deploymentspec: ports:
      - port: 5000 targetPort:
      5000selector: app:
        hello-world
  apiVersion: apps/v1kind:
  Deployment metadata:
  name: hello-world-
  deploymentspec:
      replic as: 1 select
        matchLabels: app:
           hello-
      worldtemplate:
        meta
           da
           ta:
           la
           be
           1s
           :
             app: hello-
        worldspec:
           containers:
            - name: hello-world image: au.icr.io/hello-world-app/hello-
              worldimagePullPolicy: Always ports:
            - containerPort: 5000
```

