# **ASSIGNMENT 4**

Team ID	PNT2022TMID13365
Project Name	Skill and Job Recommender Application

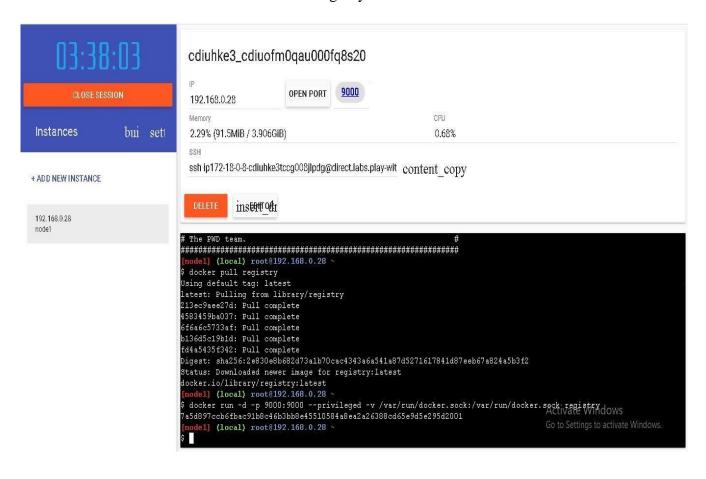
# **DOCKER DESKTOP (Kubernet)**

### **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.

```
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FROM python:3.8

WORKDIR /app

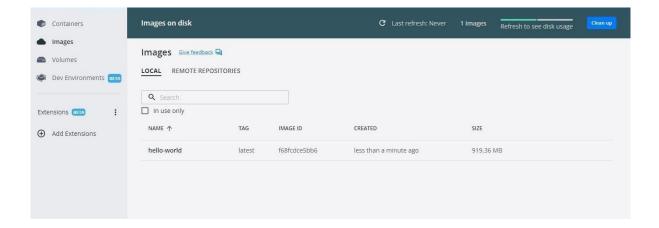
ADD . /app

COPY requirements.txt /app

RUN python3 -m pip install -r requirements.txt

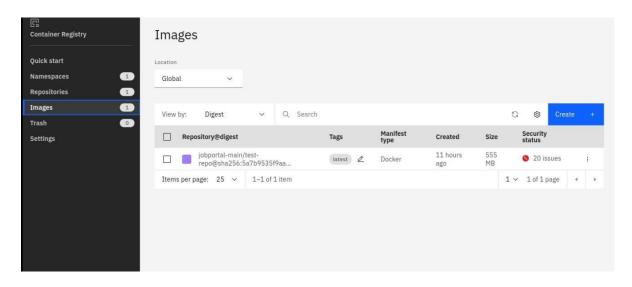
EXPOSE 5000

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 or:
         matchLabels: app:
           hello-
      worldtemplate:
         meta
           da
           ta
           la
           be
           ls
             app: hello-
         worldspec:
           containers:
            - name: hello-world image: au.icr.io/hello-world-app/hello-
              worldimagePullPolicy: Always ports:
            - containerPort: 5000
```

