### **ASSIGNMENT -4: DOCKER DESKTOP (Kubernet)**

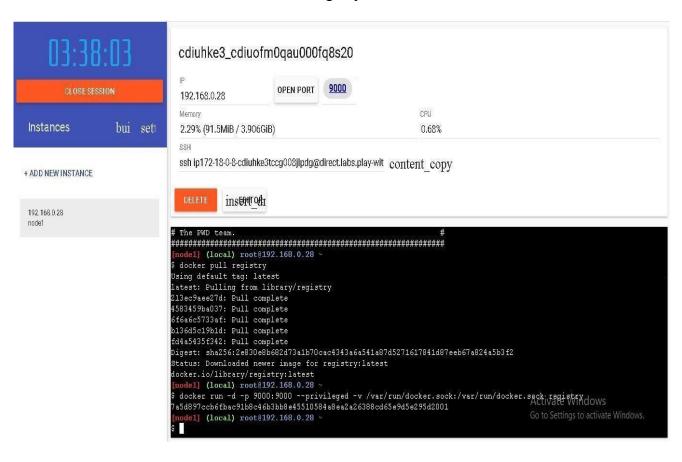
Assignment Date	9/11/2022
Student Name	Alagappan K
Student Roll no	921319104018
Marks	2 marks

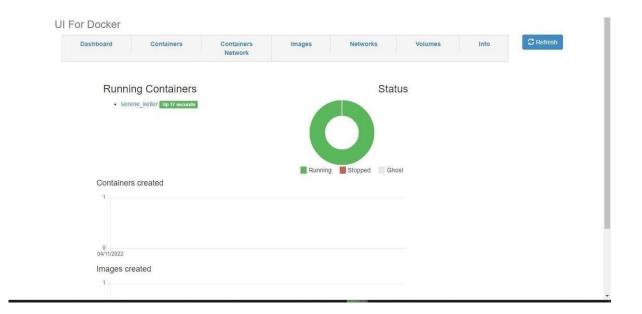
## **Question 1:**

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 indocker desktop app.

```
File Edit Format View Help

FROM python:3.8

WORKDIR /app

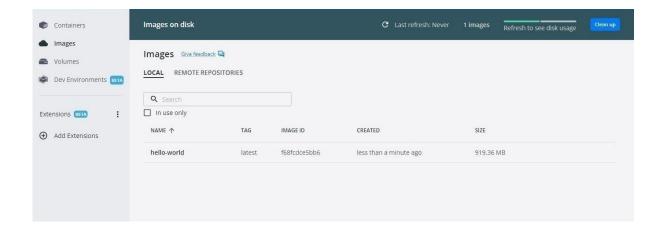
ADD . /app

COPY requirements.txt /app

RUN python3 -m pip install -r requirements.txt

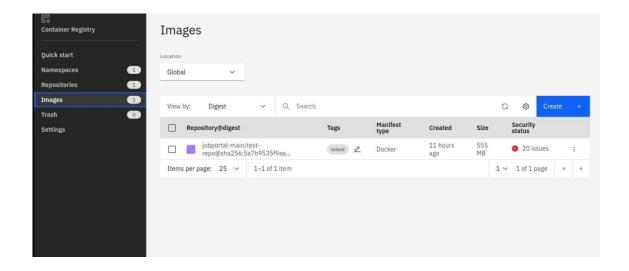
EXPOSE 5000

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



# **Question 3:**

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



## **Question 4:**

Create a kubernetes cluster in IBM cloud and deploy helloworld imageor 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
           b
           e
           ls
             app: hello-
         worldspec:
           containers:
           - name: hello-world
             image: au.icr.io/hello-world-app/hello-
             worldimagePullPolicy: Always
             ports:
             - containerPort: 5000
```

