Assignment-4

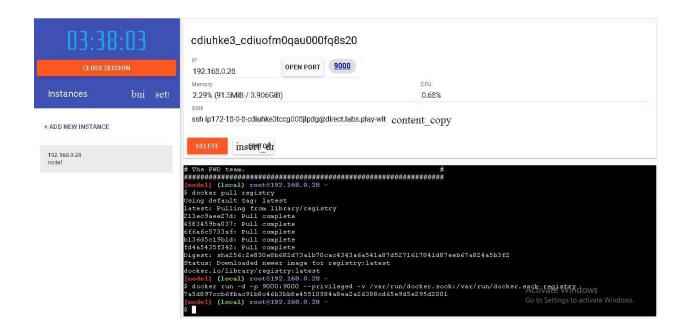
Assignment Date	28 October 2022
Student Name	N.Ranjith
Student Roll Number	913319104040
Maximum Marks	2 Marks

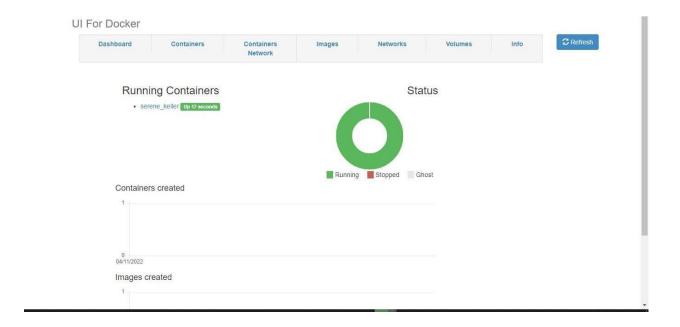
Question 1:

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

Solution:

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 / flask application and deploy it in docker desktop application.

Solution:

```
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FROM python:3.8

WORKDIR /app

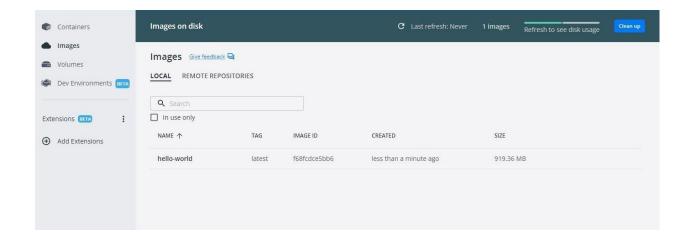
ADD . /app

COPY requirements.txt /app

RUN python3 -m pip install -r requirements.txt

EXPOSE 5000

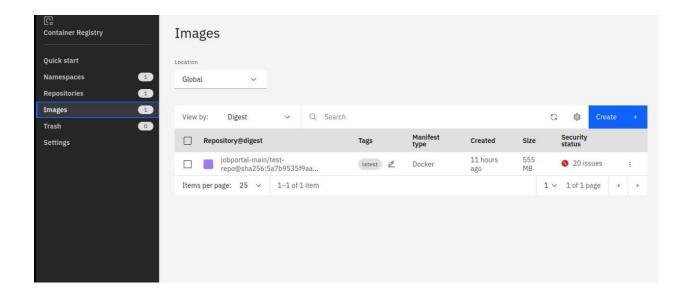
CMD ["python", "app.py"]
```



Question 3:

Create an IBM container registry and push docker image of flask application or job portal app.

Solution:



Question 4:

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

Solution:

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: 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

