ASSIGNMENT NO.: 4

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PROJECT NAME: PLASMA DONOR APPLICATION

DOMAIN: CLOUD APPLICATION DEVELOPMENT

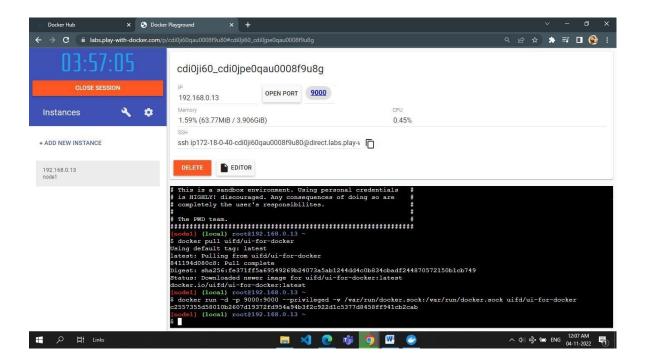
Question 1:

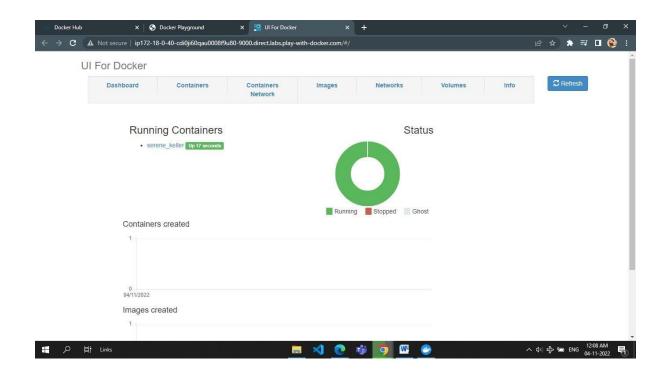
Pull an image from docker hub and run it on docker playground.

Solution 1:

docker pull uifd/ui-for-docker

docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker



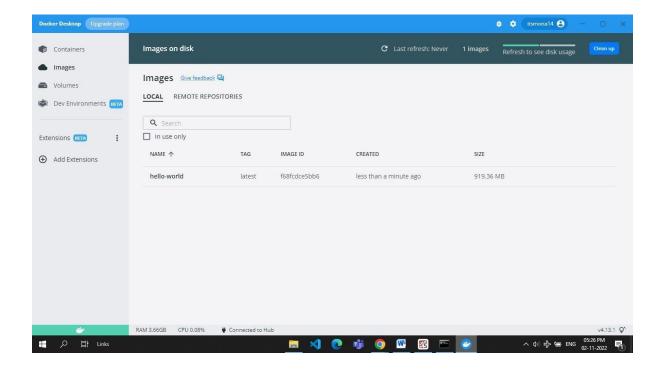


Question 2:

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

Solution 2: Docker file

```
Dockerfile - Notepad
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"]
```

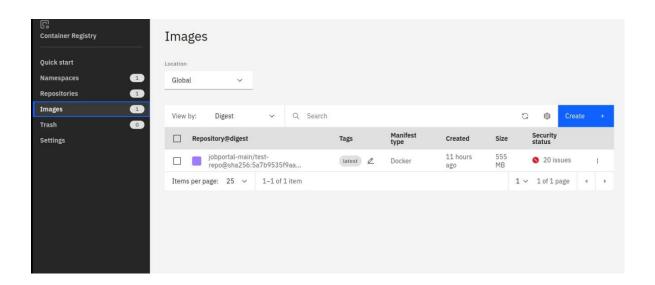


Question 3:

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

Solution 3:

My image link: au.icr.io/hello-world-app/hello-world



Question 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.

Solution 4:

```
apiVersion:
v1kind:
Service
metadata:
     name: hello-world-
  deploymentspec:
     ports:
     - port: 5000
       targetPort:
     5000selector:
       app: hello-world
  apiVersion:
  apps/vlkind:
  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
           - containerPort: 5000
```

