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

Assignment date	12 November 2022
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Maximum Marks	2 Marks

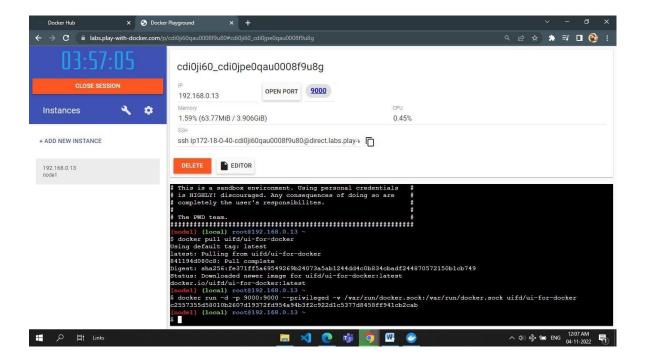
### Question 1:

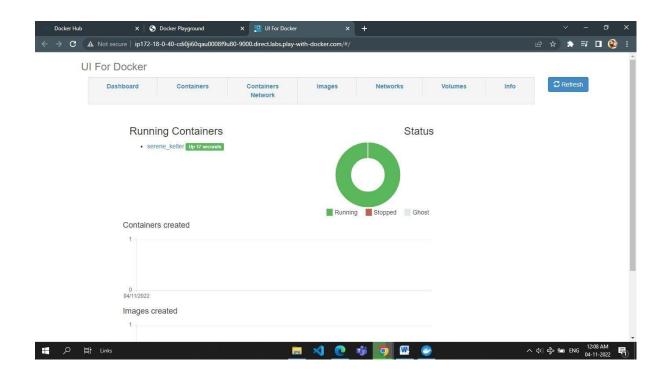
Pull an image from docker hub and run it on docker playground.

#### **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

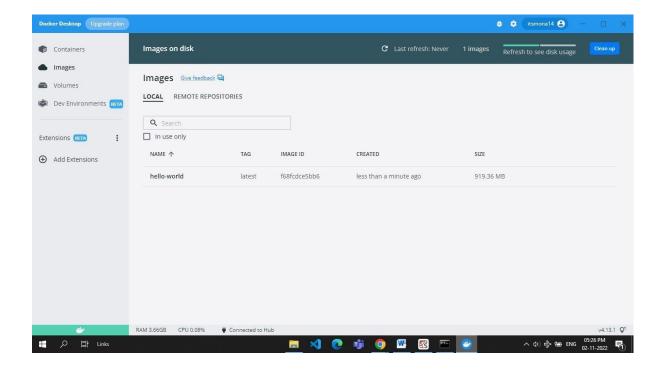
ADD . /app

COPY requirements.txt /app

RUN python3 -m pip install -r requirements.txt

EXPOSE 5000

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

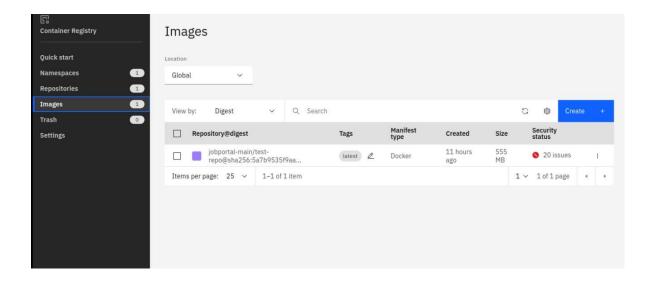


### Question 3:

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
       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
```

