Assignment 4

Assignment date	06 November 2022
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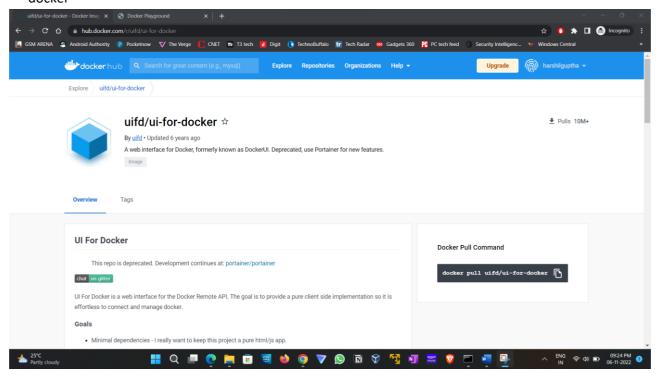
Question 1:

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

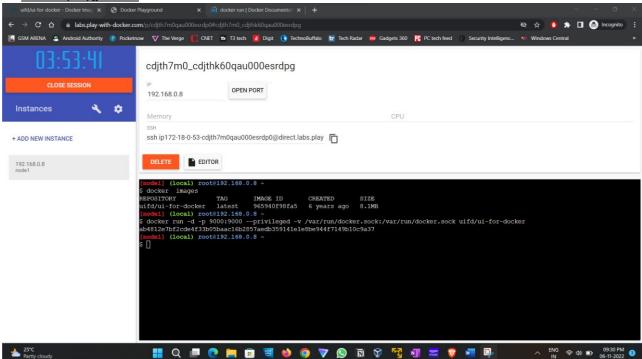
Solution 1:

docker pull uifd/ui-for-docker

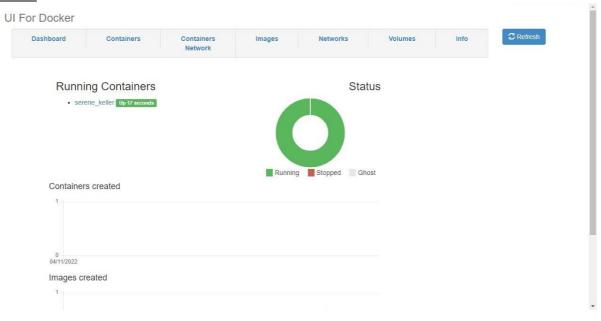
 $docker\ run\ -d\ -p\ 9000:9000\ --privileged\ -v\ /var/run/docker.sock:/var/run/docker.sock\ uifd/ui-fordocker$



Docker playground:



Docker UI:



Question 2:

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

Solution 2:

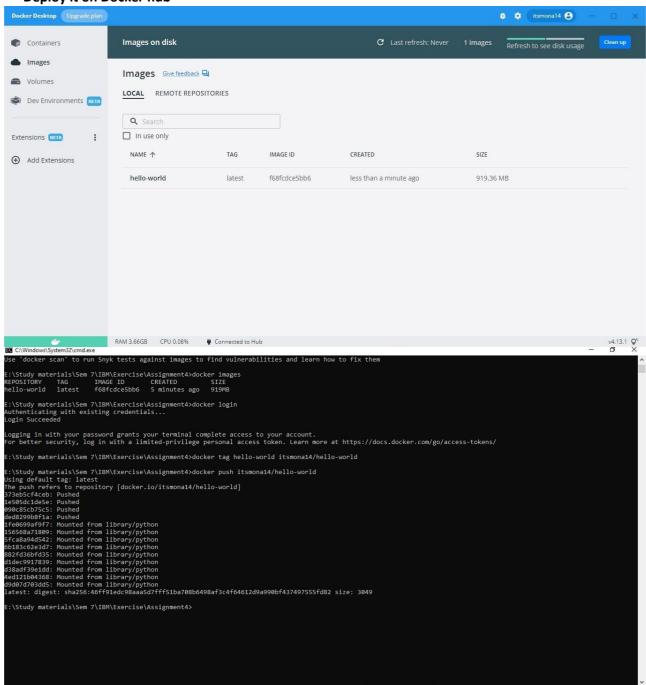
DockerFile

```
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"]
```

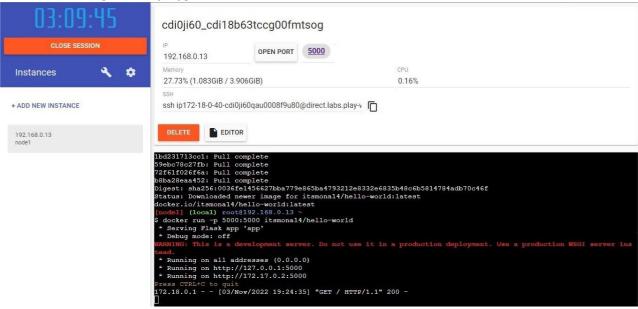
Bulid Docker image

```
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```

Deploy it on Docker hub



Tested it using Docker playground



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

```
C:\Users\Wonashree>ibmcloud plugin install container-registry

Lings\Wonashree>ibmcloud plugin install container-registry

Lings\Wonashree>ibmcloud plugin install container-registry

Lings\Wonashree>ibmcloud plugin install container-registry

Lings\Wonashree>ibmcloud install container-registry

Lings\Wonashree>ibmcloud install container-registry

Lings\Wonashree>ibmcloud login -a https://cloud.ibm.com

Mally lendpoint.https://cloud.ibm.com

Mally 2019115055@smartinternz.com

Massundb

Authenticating...

OK

Targeted account Monashree K's Account (302198646cc145ea8bc880cfb@add15d)

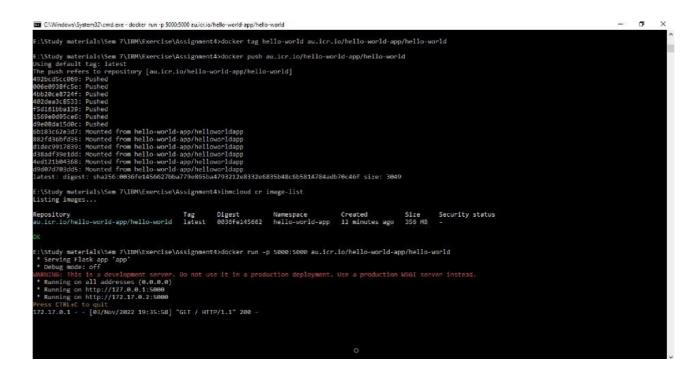
Select a region (or press enter to skip):

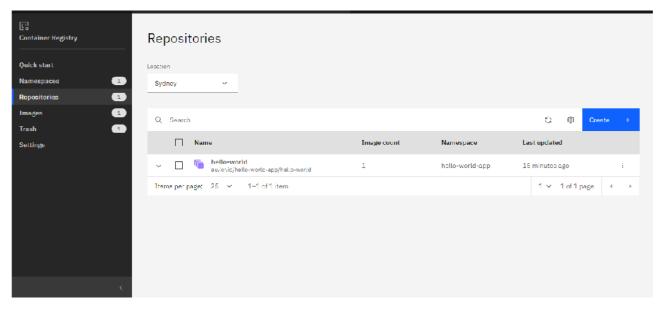
Lau-syd

Lin-che

Lip-osa

Li
```





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:

https://raw.githubusercontent.com/itsmona14/IBM-Assignment-cloud/main/deployment.yaml

```
apiVersion: v1
kind: Service
metadata:
  name: hello-world-deployment
spec:
  ports:
   - port: 5000
    targetPort: 5000
   selector:
    app: hello-world
apiVersion: apps/v1
kind: Deployment
metadata:
  name: hello-world-deployment
spec:
  replicas: 1
   selector:
     matchLabels:
      app: hello-world
   template:
     metadata:
       labels:
         app: hello-world
     spec:
       containers:
       - name: hello-world
         image: au.icr.io/hello-world-app/hello-world
         imagePullPolicy: Always
         ports:
         - containerPort: 5000
```

