Assignment 4

Assignment date	06 November 2022
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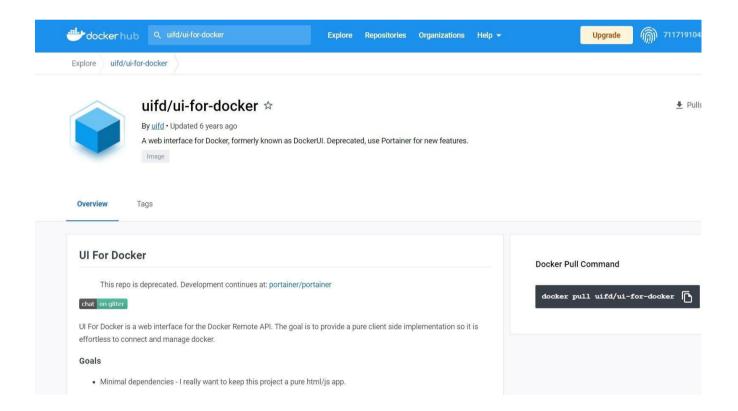
Question 1:

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

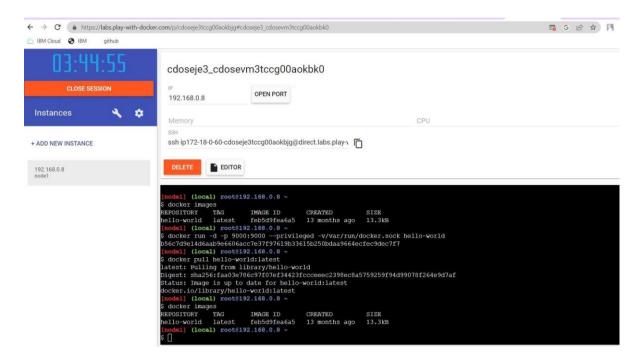
Solution 1:

docker pull uifd/ui-for-docker

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



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

```
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FROM python: 3.10.6

WORKDIR /app

3 COPY requirements.txt ./

4 RUN pip install -r requirements.txt

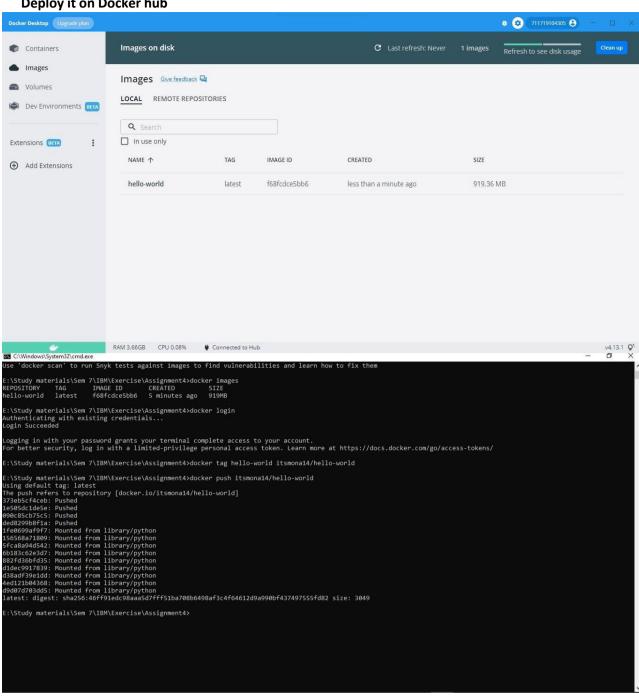
5 COPY .

6 EXPOSE 5000

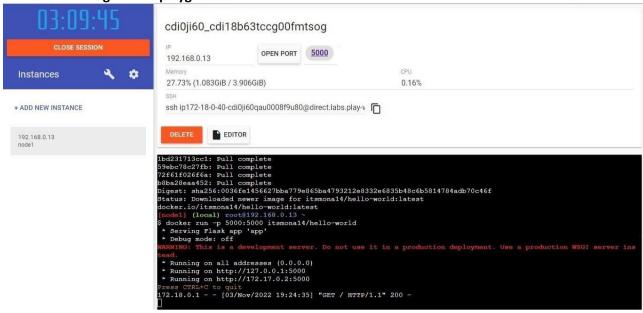
7 CMD ["python","./app.py"]
```

Bulid Docker image

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:

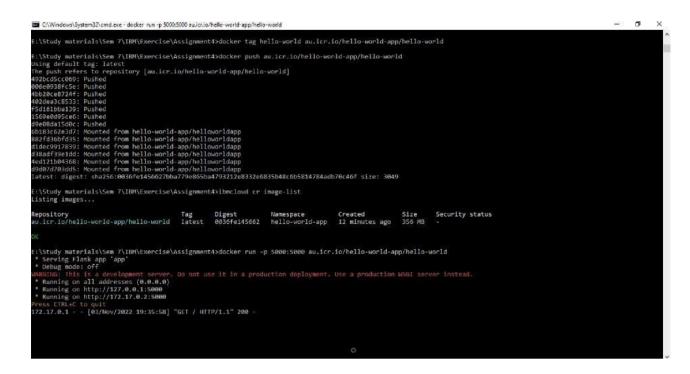
My image link: au.icr.io/hello-world-app/hello-world

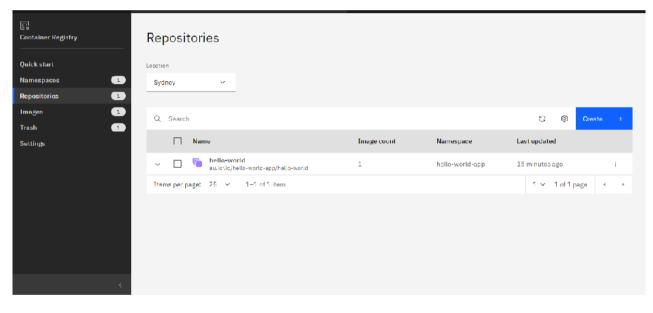
```
Command Prompt doctor puth autoschiello-morid-apphielomoridapp

C:\Users\Monashree>ibmcloud plugin install container-registry
Looking up 'container-registry' from repository' IBM cloud'.

Rigg: no container-registry' from repository 'IBM cloud'.

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```





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: 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
```

