Assignment 4

Assignment date	3 September 2022
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Student roll no	951319104042
Maximum Marks	2 Marks

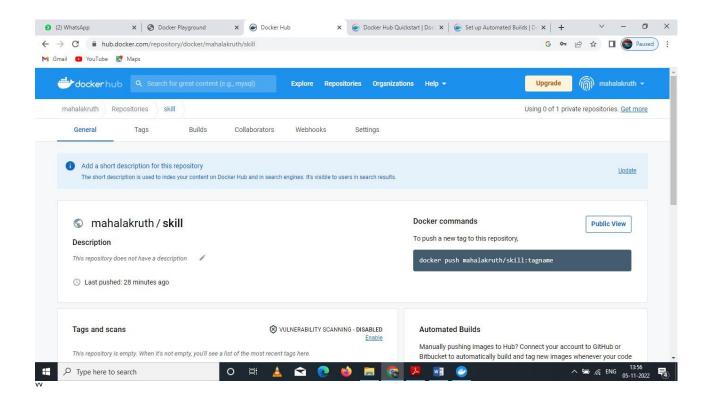
Question 1:

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

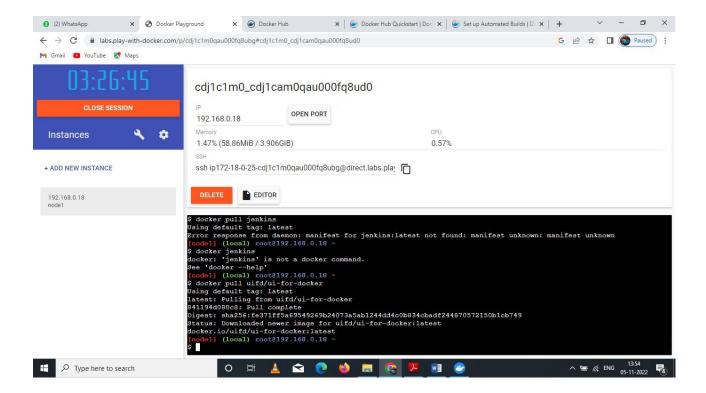
Solution 1:

docker pull uifd/ui-for-docker

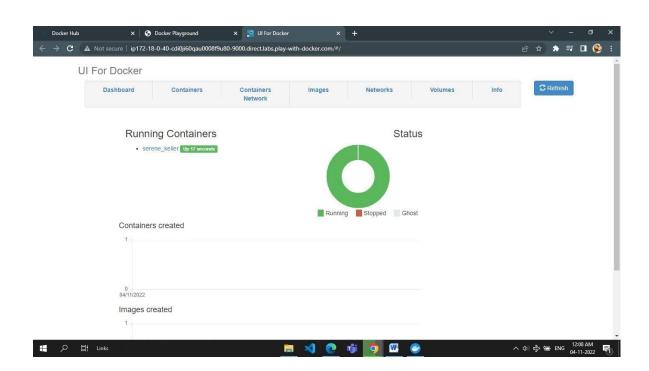
docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker



Docker playground:



Docker UI:



Question 2:

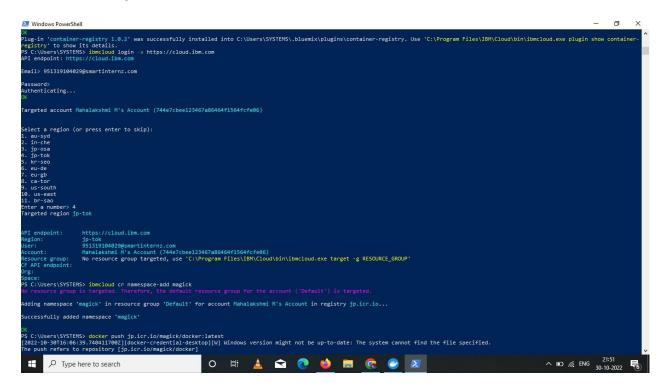
Create a docker file for the job portal app or hello world app and deploy it in docker desktop app.

Solution 2:

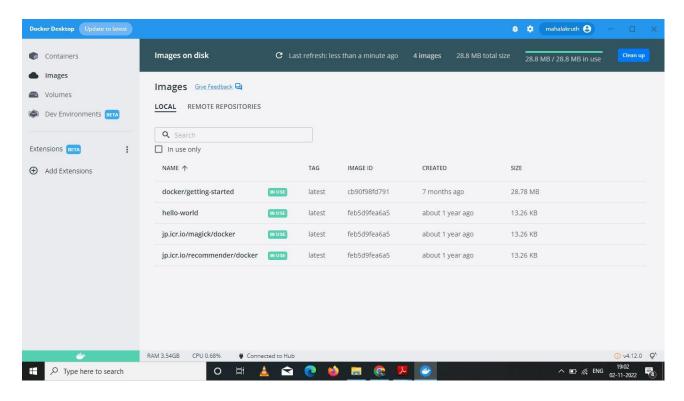
DockerFile

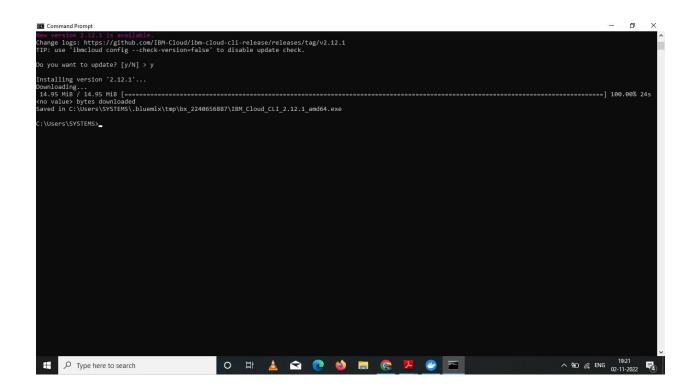
```
Dockerfile - Notepad
File Edit Format View Help
FROM python:3.8
WORKDIR /app
ADD . /app
COPY requirements.txt /app
RUN python3 -m pip install -r requirements.txt
EXPOSE 5000
CMD ["python", "app.py"]
```

Bulid Docker image

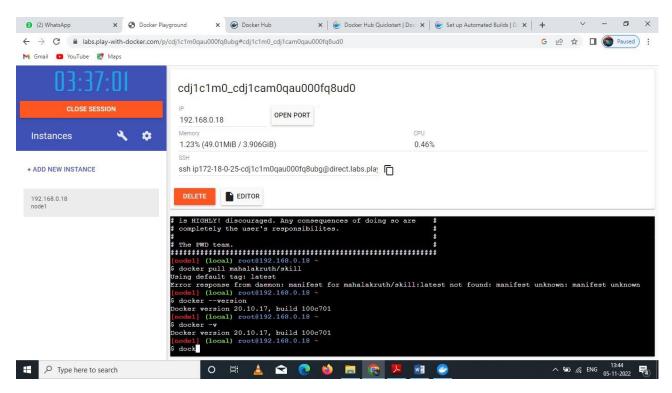


Deploy it on Docker hub





Tested it using Docker playground



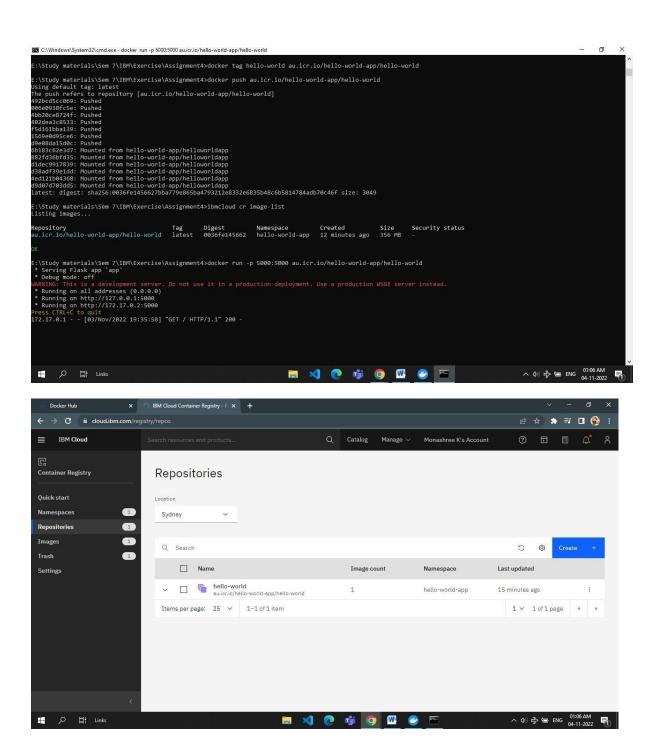
Question 3:

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 - docker push auticio/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-world-pgp/hello-wor
```



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
   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
```

