Assignment 4

Assignment date	7th november 2022
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Student roll no	951319104045
Maximum Marks	2 Marks

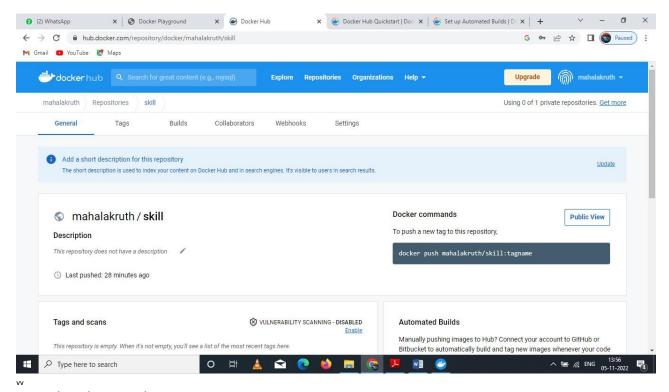
Question 1:

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

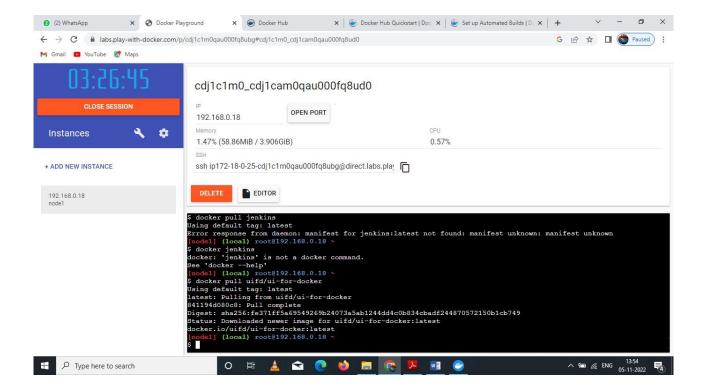
Solution 1:

docker pull uifd/ui-for-docker

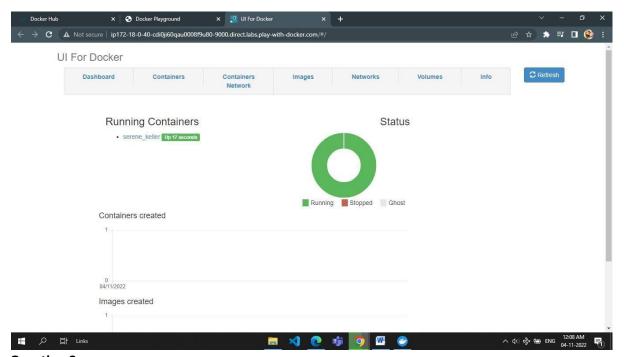
docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for- docker



Docker playground:



Docker UI:



Question 2:

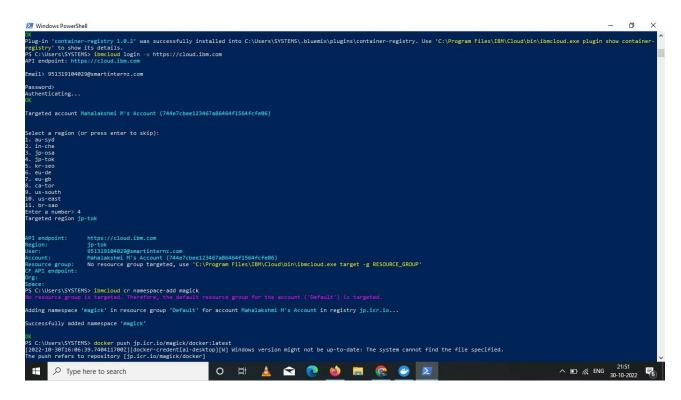
Create a docker file for the job portal app or hello world app and deploy it in docker desktop app.

Solution 2:

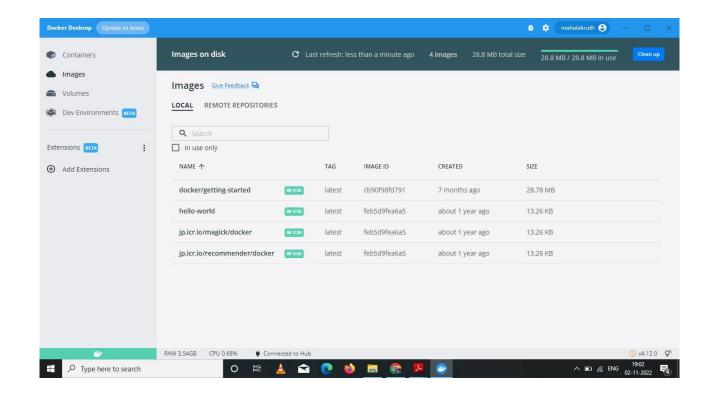
DockerFile

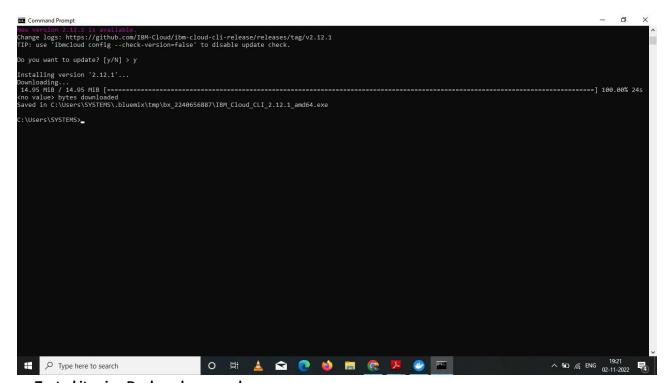
```
Dockerfile - Notepad
File Edit Format View Help
FROM python:3.8
WORKDIR /app
ADD . /app
COPY requirements.txt /app
RUN python3 -m pip install -r requirements.txt
EXPOSE 5000
CMD ["python", "app.py"]
```

Bulid Docker image

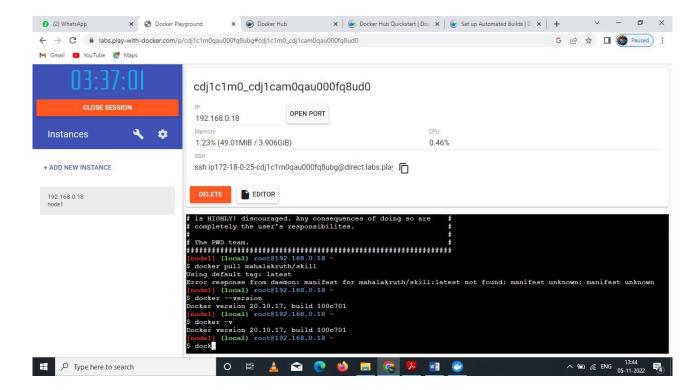


Deploy it on Docker hub





Tested it using Docker playground

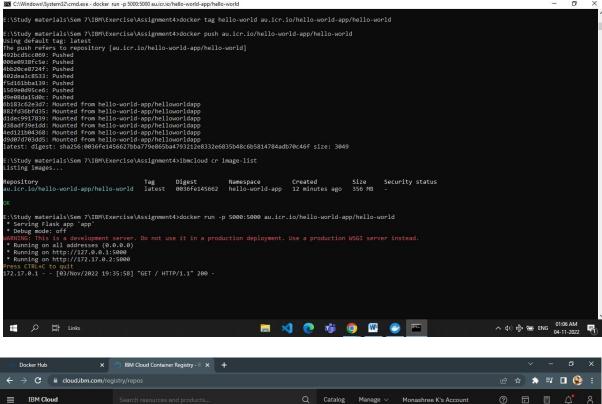


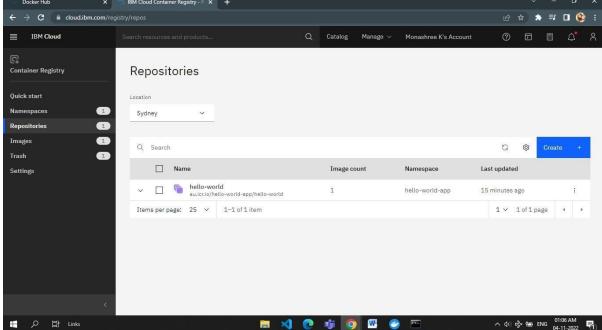
Question 3:

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





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-worlddeployment 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/helloworld imagePullPolicy: Always ports: - containerPort: 5000

