Assignment –4

DOCKER AND KUBERNETES

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Assignment Date	21 November 2022
Student Name	Pavithra E
Student Roll Number	820319104028
Maximum Marks	2 Marks

Question-1:

Pull an Image from docker hub and run it in docker playground.
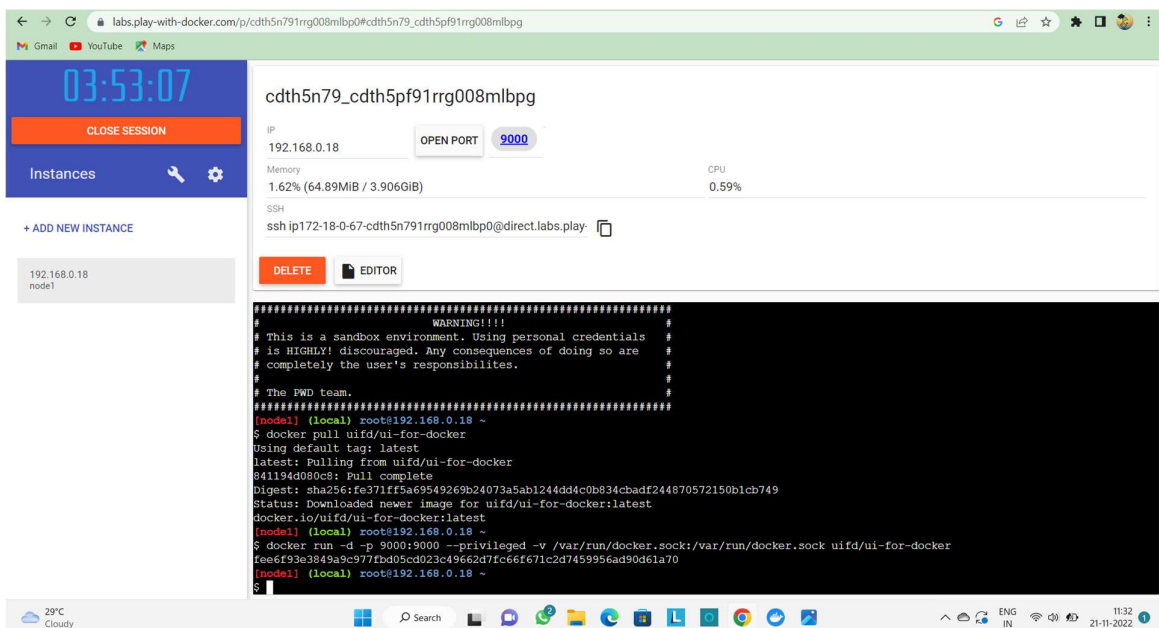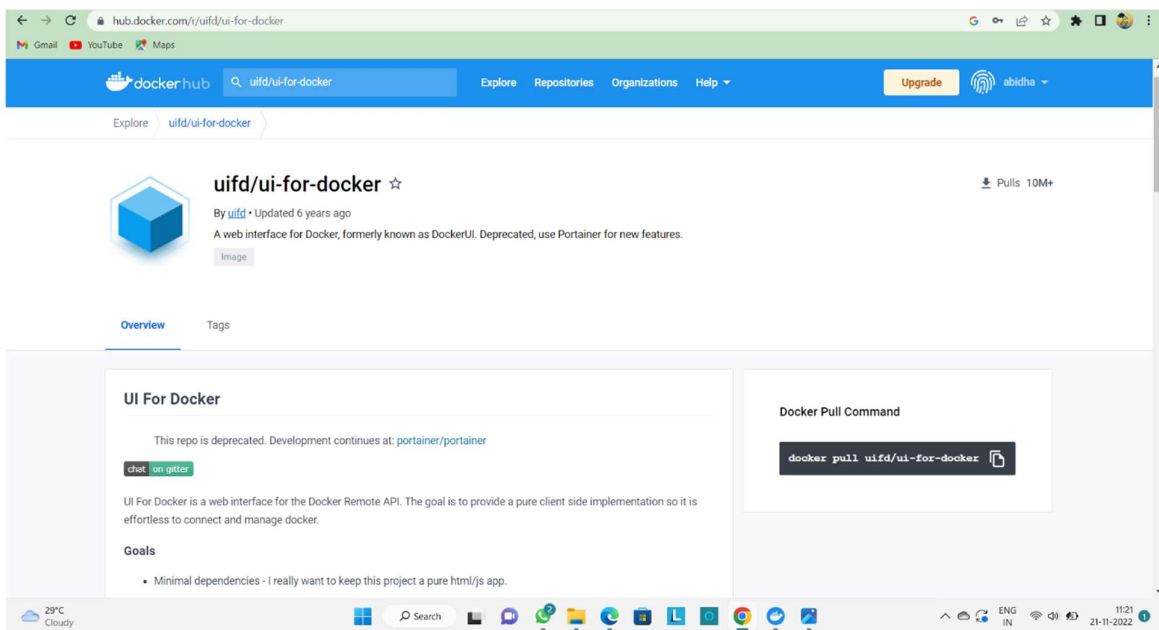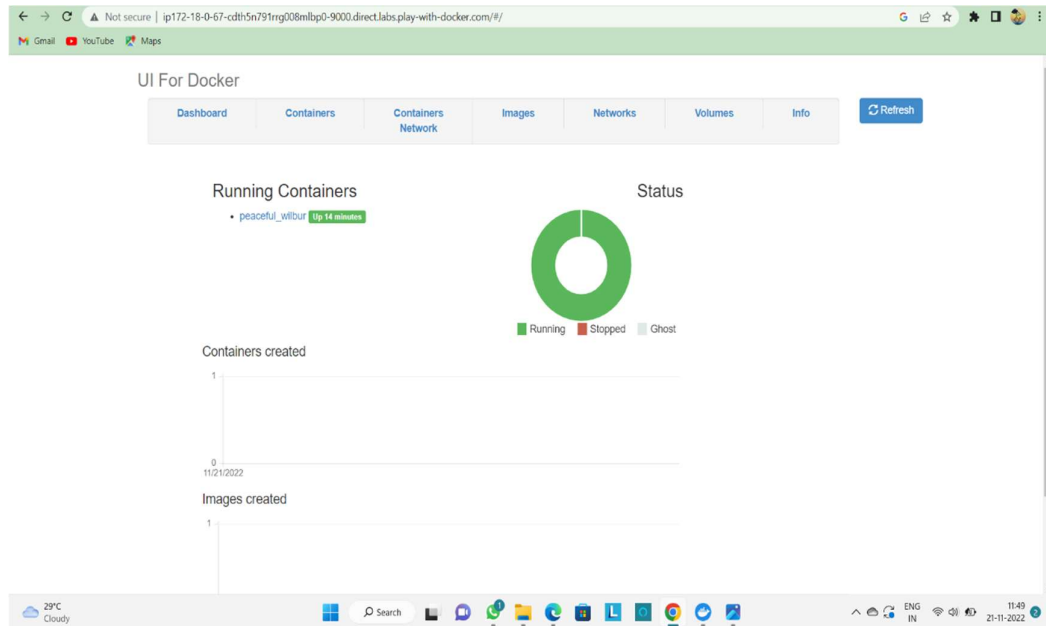
Question-2:

Create a docker file for the job portal application and deploy it in Docker desktop application.


```
1   FROM helloworld:latest
2   WORKDIR ~/Desktop/
3   ADD . helloworld/
4   WORKDIR ~/Desktop/htmlfile
5   RUN pip install -r requirements
6   RUN chmod +x app.sh
7   CMD ["/bi n/sh","app.sh"]
```

Question-3:

Create an IBM container registry and deploy hello world app or job portal app.


```
Command Prompt
e5e13b0c77cb: Preparing
denied: requested access to the resource is denied

C:\Users\reshmaa>docker push docker.io/testcontainers/helloworld
Using default tag: latest
The push refers to repository [docker.io/testcontainers/helloworld]
7e7c945770f2: Preparing
2ea9f9c8643d: Preparing
e5e13b0c77cb: Preparing
denied: requested access to the resource is denied

C:\Users\reshmaa>docker pull testcontainers/helloworld
Using default tag: latest
latest: Pulling from testcontainers/helloworld
Digest: sha256:4ee5a832ef6eee533df7224b80d4cceb9ab219599014f408d0b69690be94c396
Status: Downloaded newer image for testcontainers/helloworld:latest
docker.io/testcontainers/helloworld:latest

C:\Users\reshmaa>docker push docker.io/testcontainers/helloworld
Using default tag: latest
The push refers to repository [docker.io/testcontainers/helloworld]
802cca11a560: Layer already exists
80b7fe966245: Layer already exists
50644c29ef5a: Layer already exists
errors:
denied: requested access to the resource is denied
unauthorized: authentication required

C:\Users\reshmaa>
```

Question-4:

Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.

Images   Give feedback

An image is a read-only template with instructions for creating a Docker container.   Learn more

LOCAL   REMOTE REPOSITORIES

108.41 MB / 66.97 MB in use   4 images   Last refresh: about 21 hours ago

	NAME	TAG	STATUS	CREATED	SIZE	ACTIONS
☐	docker101tutorial 3edaaa2413c3	latest	In use	about 21 hours ago	28.91 MB	▶ ⋮ 🗑
☐	alpine/git 22d84a66cda4	latest	In use	1 day ago	43.61 MB	▶ ⋮ 🗑
☐	docker/getting-started cb90f98fd791	latest	In use	7 months ago	28.78 MB	▶ ⋮ 🗑
☐	testcontainers/helloworld 6974669be52b	latest	In use	about 2 years ago	12.66 MB	▶ ⋮ 🗑

Showing 4 items

Containers

Images

Volumes

Dev Environments BETA

Extensions BETA

Add Extensions

RAM 1.84GB   CPU 0.21%   Connected to Hub   v4.14.1

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Cloudy

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