

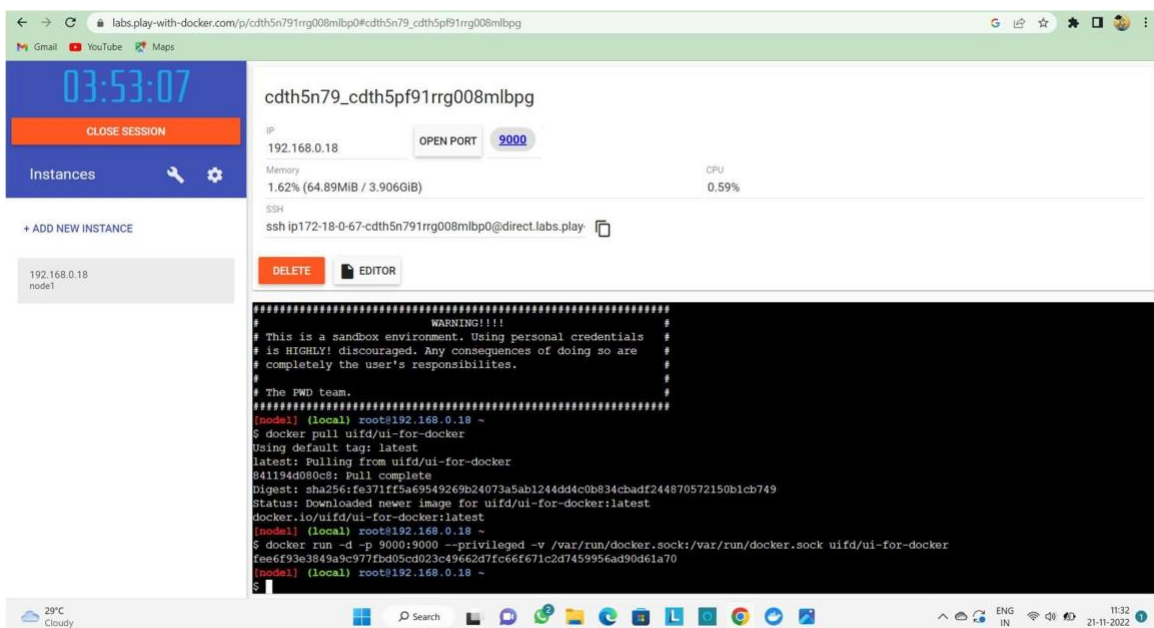
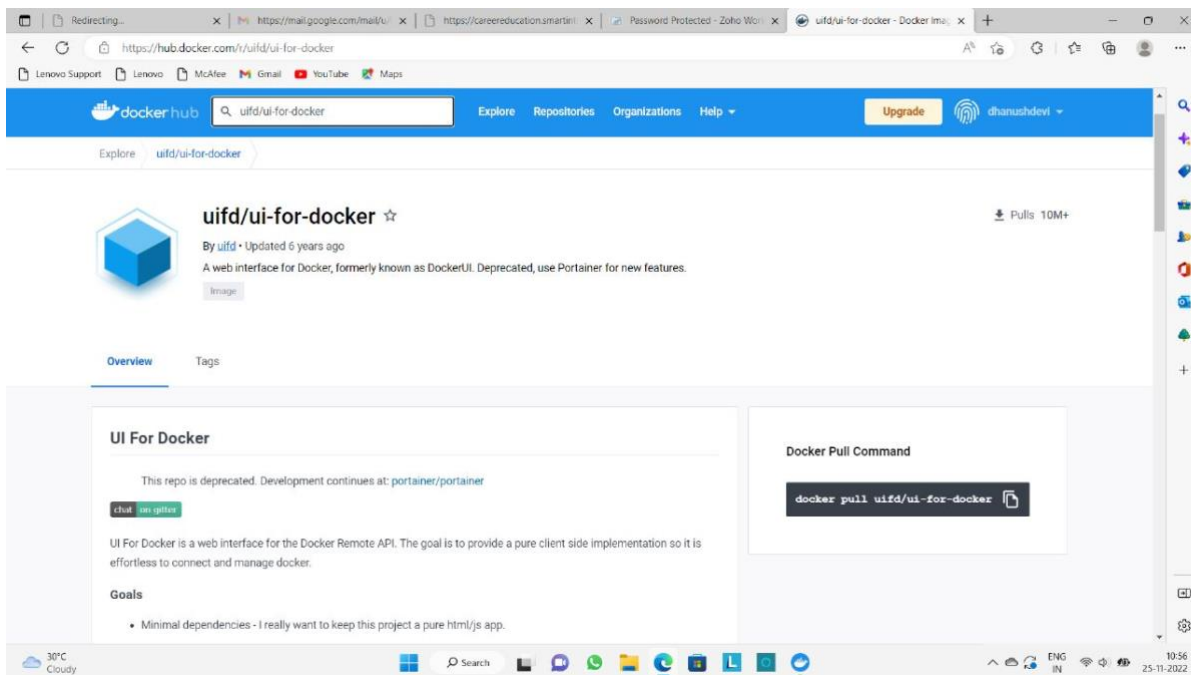
Assignment –4

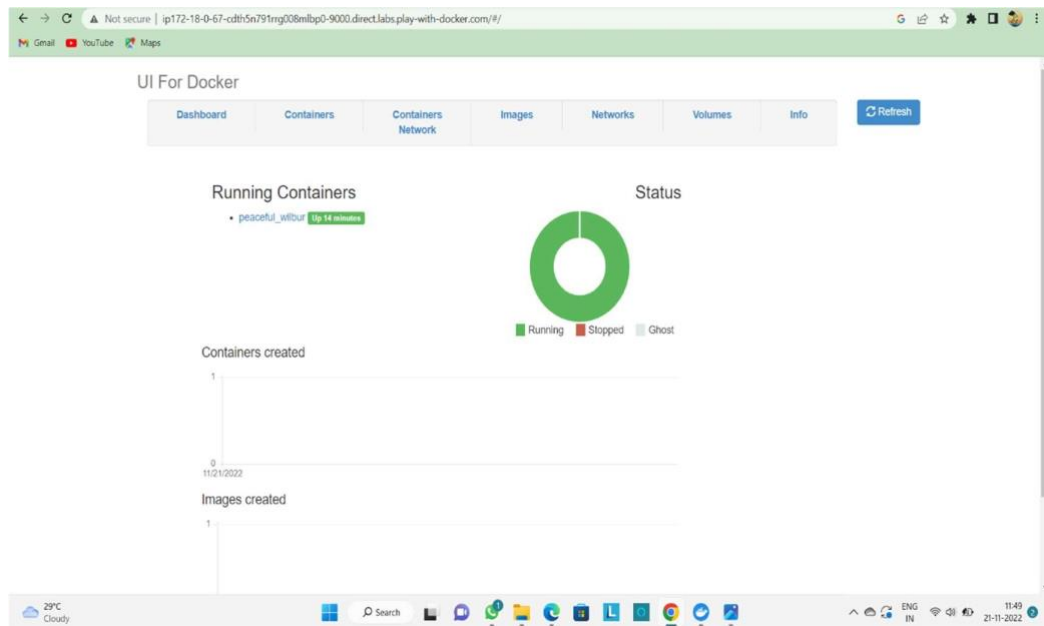
DOCKER AND KUBERNETES

Assignment Date	25 November 2022
Student Name	DHANUSH N
Student Roll Number	820319104013
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 ["/bin/sh", "app.sh"]
```

Question-3:

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

```
Command Prompt
Microsoft Windows [Version 10.0.22000.1219]
(c) Microsoft Corporation. All rights reserved.

C:\Users\reshmaa>docker pull testcontainers/helloworld
Using default tag: latest
latest: Pulling from testcontainers/helloworld
Digest: sha256:4ee5a832ef6eee533df7224b80d4cceb9ab219599014f408d0b69690be94c396
Status: Image is up to date 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]
802cc11a560: Layer already exists
80b7fe966245: Layer already exists
90844c29ef5a: 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.

Docker Desktop

Upgrade plan

Containers

Images

Volumes

Dev Environments

Extensions

Add Extensions

Give feedback

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

LOCAL

REMOTE REPOSITORIES

108.41 MB / 108.41 MB in use 4 images

Last refresh: 2 days ago

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	NAME	TAG	STATUS	CREATED	SIZE	ACTIONS
<input type="checkbox"/>	docker101tutorial 3edaaa2413c3	latest	In use	5 days ago	28.91 MB	<div></div> <div></div>
<input type="checkbox"/>	alpine/git 22d84a656cda4	latest	In use	5 days ago	43.61 MB	<div></div> <div></div>
<input type="checkbox"/>	docker/getting-started cb90f98fd791	latest	In use	8 months ago	28.78 MB	<div></div> <div></div>
<input type="checkbox"/>	testcontainers/helloworld 6974669e52b	latest	In use	about 2 years ago	12.66 MB	<div></div> <div></div>

Showing 4 items

RAM 1.47GB

CPU 0.22%

Connected to Hub

30°C Cloudy

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ENG IN

11:03 25-11-2022