

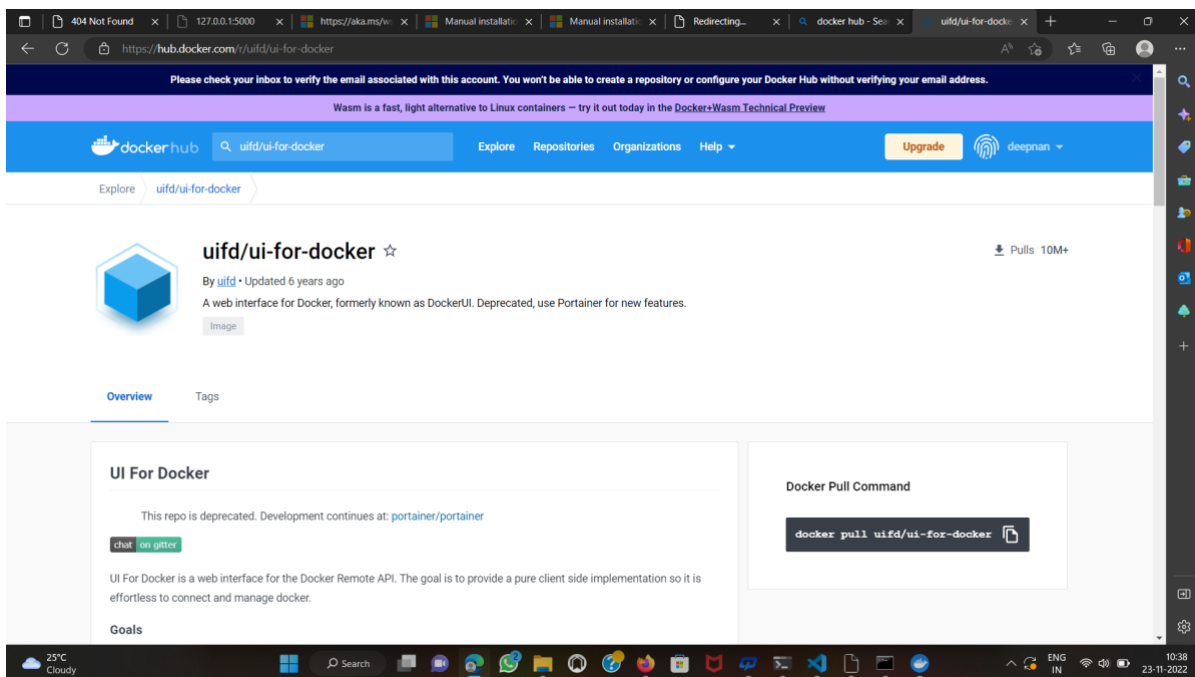
## Assignment –4

### DOCKER AND KUBERNETES

Assignment Date	23 November 2022
Student Name	Sivasankar. M
Student Roll Number	820319104040
Maximum Marks	2 Marks

#### Question-1:

Pull an Image from docker hub and run it in docker playground.



03:56:33

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.8  
node1

cduqq5v9\_cduqq8f91rrg008mo9m0

IP: 192.168.0.8 OPEN PORT

Memory CPU

SSH  
ssh ip172-18-0-117-cduqq5v91rrg008mo9lg@direct.labs.pla

DELETE EDITOR

```
##### WARNING!!!! #####
# This is a sandbox environment. Using personal credentials
# is HIGHLY discouraged. Any consequences of doing so are
# completely the user's responsibilities.
#
# The FWD team.
#####

[node1] (local) root@192.168.0.8 ~
$ docker pull uifd/ui-for-docker
Using default tag: latest
Error response from daemon: pull access denied for uifd/ui-for-docker, repository does not exist or may require 'docker login': denied: requested access to the resource is denied
[node1] (local) root@192.168.0.8 ~
$ docker run -d -p 9000:9000 --privileged --v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
Unable to find image 'uifd/ui-for-docker:latest' locally
latest: Pulling from uifd/ui-for-docker
841194d080c8: Pull complete
Digest: sha256:fe371ff5a69549269b24073a5ab1244dd4c0b834cbadf244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
c2ab9029ab285d3c94a87d467b9e558a23ed8aac96c75b686918e90767f61cf
[node1] (local) root@192.168.0.8 ~
```

25°C Cloudy

UI For Docker

Dashboard Containers Containers Network Images Networks Volumes Info Refresh

Running Containers

- gifted\_voihard Up 17 minutes

Status

Running Stopped Ghost

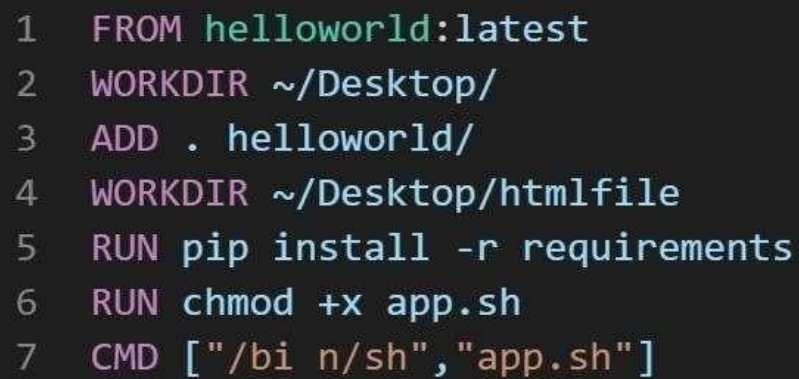
Containers created

Images created

25°C Cloudy

### 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.

```
Select Command Prompt
Microsoft Windows [Version 10.0.22000.1000]
(c) Microsoft Corporation. All rights reserved.

C:\Users\deepi>docker push docker.io/testcontainers/helloworld
Using default tag: latest
The push refers to repository [docker.io/testcontainers/helloworld]
An image does not exist locally with the tag: testcontainers/helloworld

C:\Users\deepi>docker pull docker/testcontainers/helloworld
Using default tag: latest
Error response from daemon: unknown image in /v1.41/images/create?fromImage=docker%2Ftestcontainers%2Fhelloworld&tag=latest

C:\Users\deepi>docker pull testcontainers/helloworld
Using default tag: latest
latest: Pulling from testcontainers/helloworld
4f20fa9351a1: Pull complete
7d694ce25b07: Pull complete
99f5116afda5: Pull complete
Digest: sha256:4ee5b32ef6ee533df7224b804d4cc9ab219599014f408d0b69690be94c396
Status: Downloaded newer image for testcontainers/helloworld:latest
docker.io/testcontainers/helloworld:latest

C:\Users\deepi>docker push docker.io/testcontainers/helloworld
Using default tag: latest
The push refers to repository [docker.io/testcontainers/helloworld]
802cc1a1560: Layer already exists
80b7fe966245: Layer already exists
80644c29ef5a: Layer already exists
errors:
denied: requested access to the resource is denied
unauthorized: authentication required

C:\Users\deepi>
```

### 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.

