

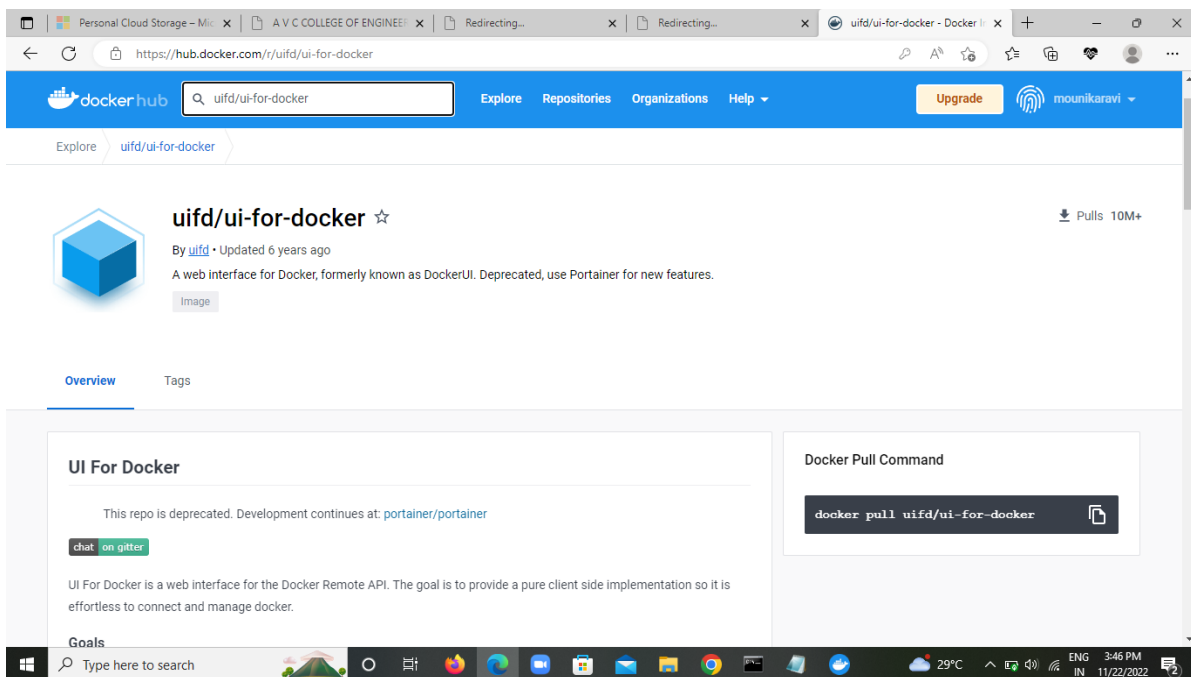
Assignment -4

DOCKER AND KUBERNETES

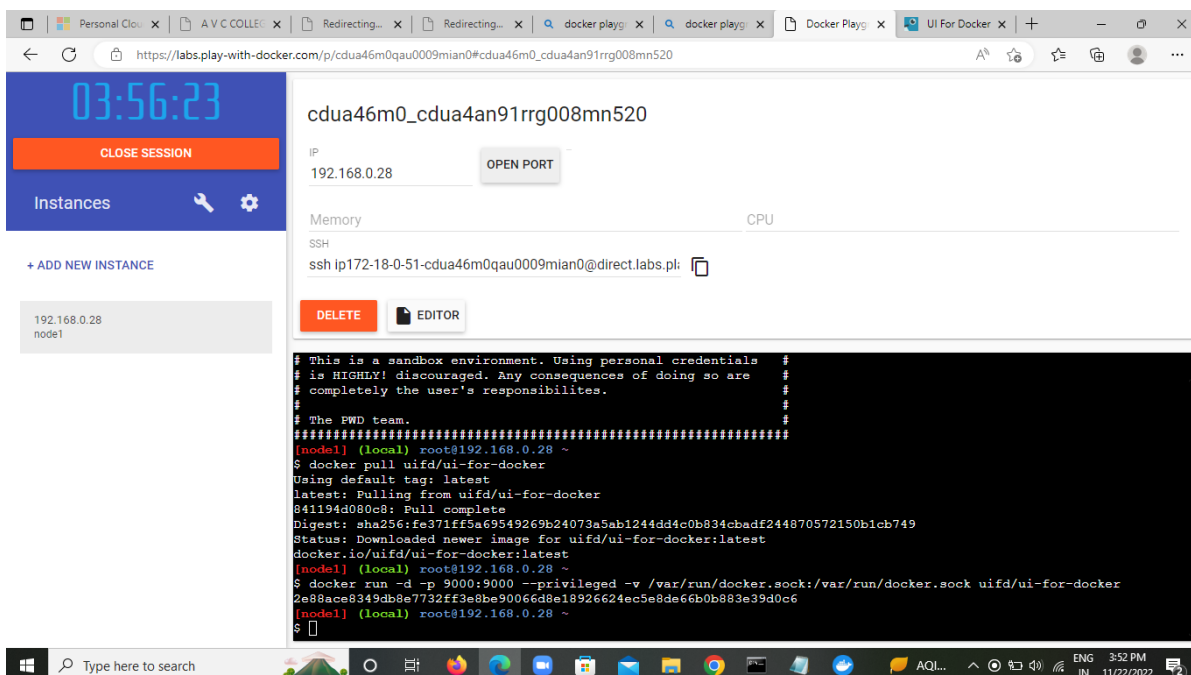
Assignment Date	22 November 2022
Student Name	Mounika R
Student Roll Number	820319104025
Maximum Marks	2 Marks

Question-1:

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

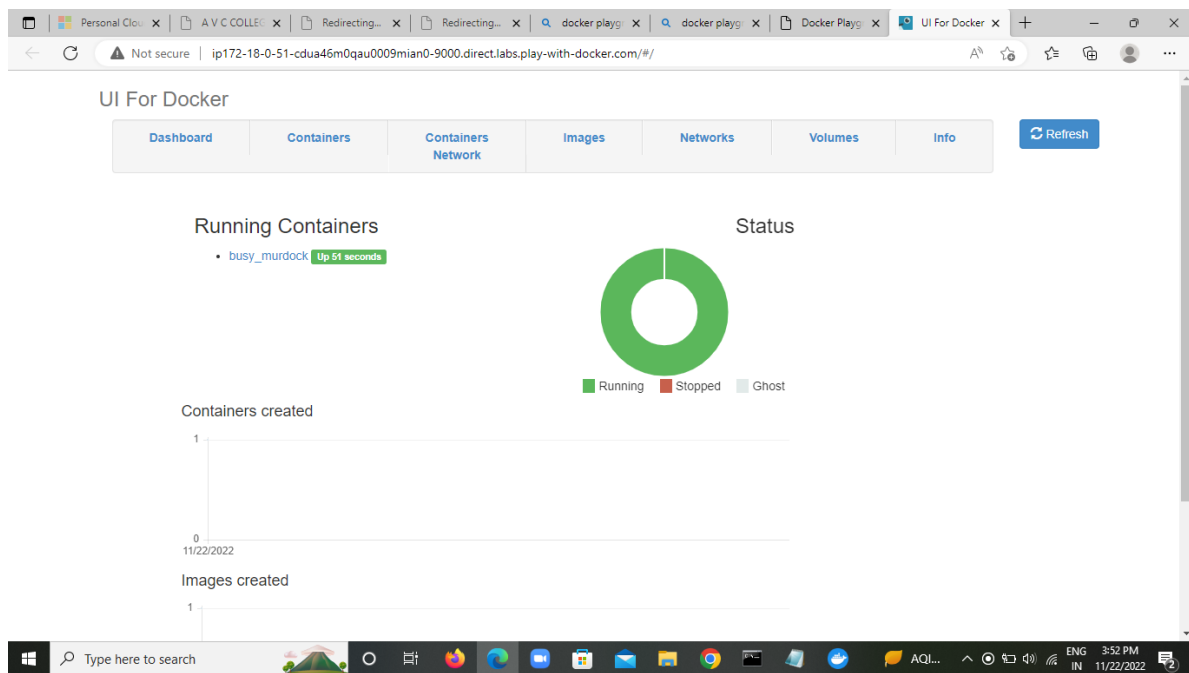


The screenshot shows the Docker Hub repository page for 'uifd/ui-for-docker'. The page is titled 'uifd/ui-for-docker' and includes a search bar with the text 'uifd/ui-for-docker'. Below the search bar, there is a section for 'UI For Docker' with a description: 'This repo is deprecated. Development continues at: portainer/portainer'. There is also a 'Goals' section and a 'Tags' section. On the right side, there is a 'Docker Pull Command' section with the command 'docker pull uifd/ui-for-docker'.



The screenshot shows the Docker Playground interface. On the left, there is a sidebar with a clock showing '03:56:23', a 'CLOSE SESSION' button, and an 'Instances' section. The main area displays the IP address '192.168.0.28' and a button to 'OPEN PORT'. Below this, there is a terminal window showing the following commands and output:

```
# 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@192.168.0.28 ~
$ docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
841194d080c8: Pull complete
Digest: sha256:fe371ff5a69549269b24073a5ab1244dd4c0b834cbad244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
docker.io/uifd/ui-for-docker:latest
[node1] (local) root@192.168.0.28 ~
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
2e88ace8349db8e7732ff3e8be90066d8e18926624ec5e8de66b0b883e39d0c6
[node1] (local) root@192.168.0.28 ~
$
```



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 10.0.19044.2251]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Compro>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\Compro>docker pull testcontainers/helloworld
Using default tag: latest
latest: Pulling from testcontainers/helloworld
df20fa9351a1: Pull complete
7d694ce25b07: Pull complete
99f5116afd5: Pull complete
Digest: sha256:4ee5a832ef6eee533df7224b80d4cceb9ab219599014f408d0b69690be94c396
Status: Downloaded newer image for testcontainers/helloworld:latest
docker.io/testcontainers/helloworld:latest

C:\Users\Compro>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\Compro>
```

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

Search

Ctrl+K

Containers

Images

Volumes

Dev Environments BETA

Extensions BETA

+

Add Extensions

Images

Give feedback

An image is a read-only template with instructions for creating a Docker container. [Learn more](#)

LOCAL

REMOTE REPOSITORIES

34.32 MB / 34.32 MB in use

3 images

Last refresh: about 2 hours ago

Refresh

Search

	NAME	TAG	STATUS	CREATED	SIZE	ACTIONS
<input type="checkbox"/>	alpine bfe296a52501	latest	In use	10 days ago	5.54 MB	<div></div> <div></div> <div></div>
<input type="checkbox"/>	docker/getting-started cb90f98fd791	latest	In use	7 months ago	28.78 MB	<div></div> <div></div> <div></div>
<input type="checkbox"/>	testcontainers/helloworld 6974669be52b	latest	Unused	about 2 years ago	12.66 MB	<div></div> <div></div> <div></div>

Showing 3 items

RAM 1.60GB

CPU 0.60%

Connected to Hub

v4.14.1

3:58 PM

11/22/2022