

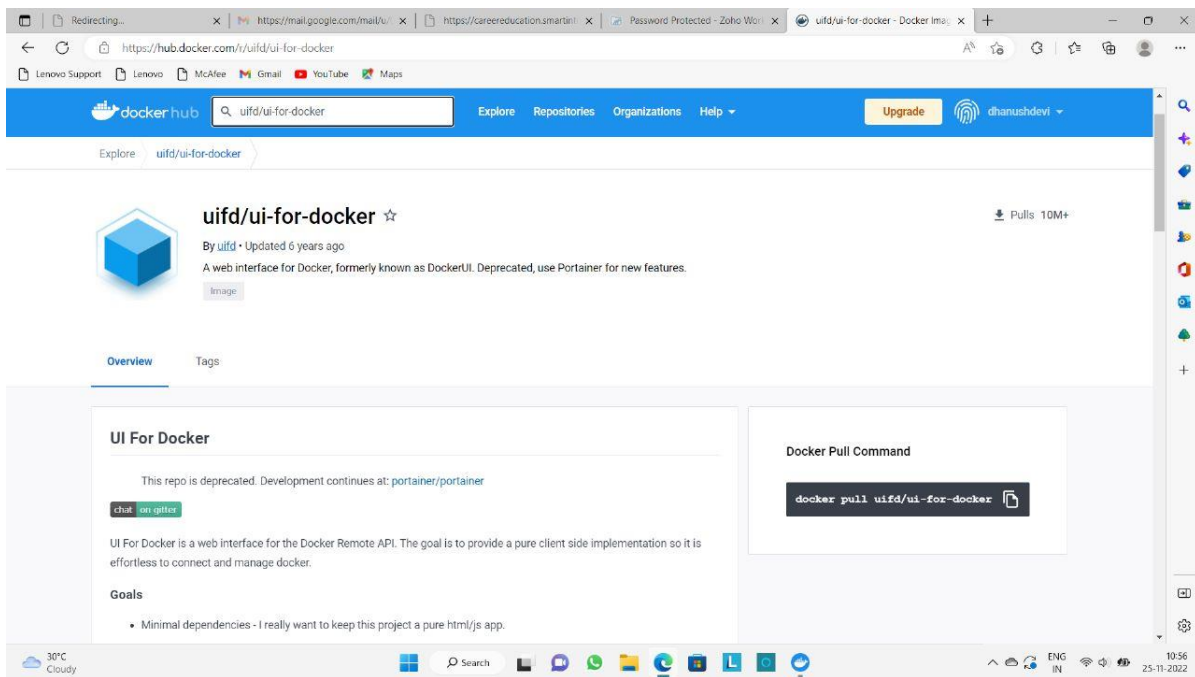
Assignment -4

DOCKER AND KUBERNETES

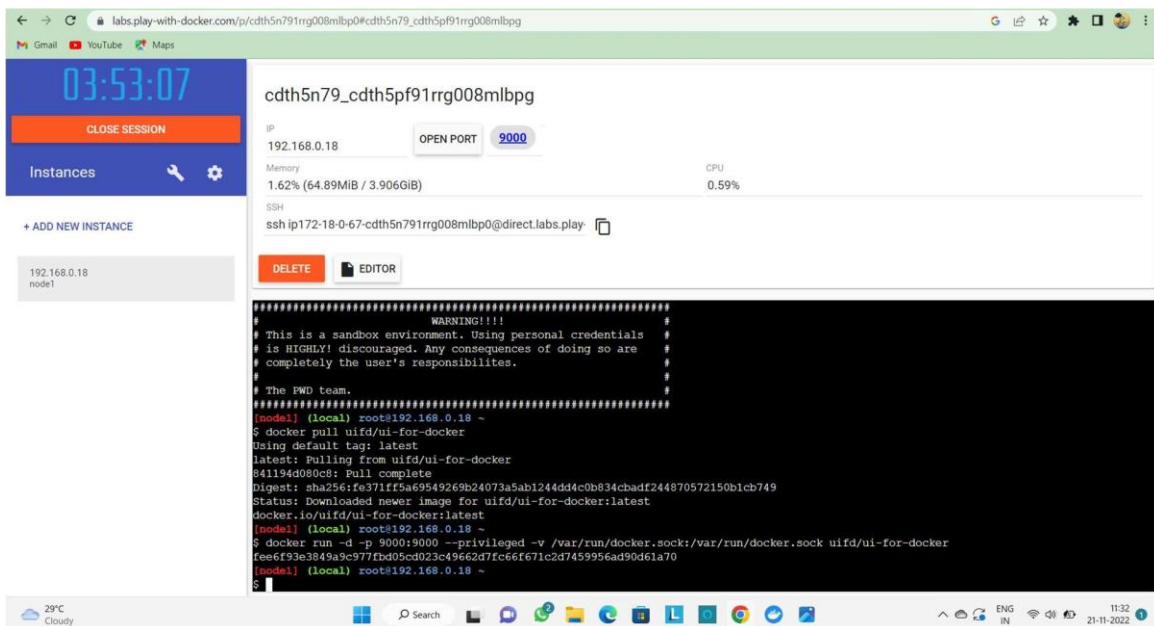
Assignment Date	25 November 2022
Student Name	ARAVIND BABU.V
Student Roll Number	820319104006
Maximum Marks	2 Marks

Question-1:

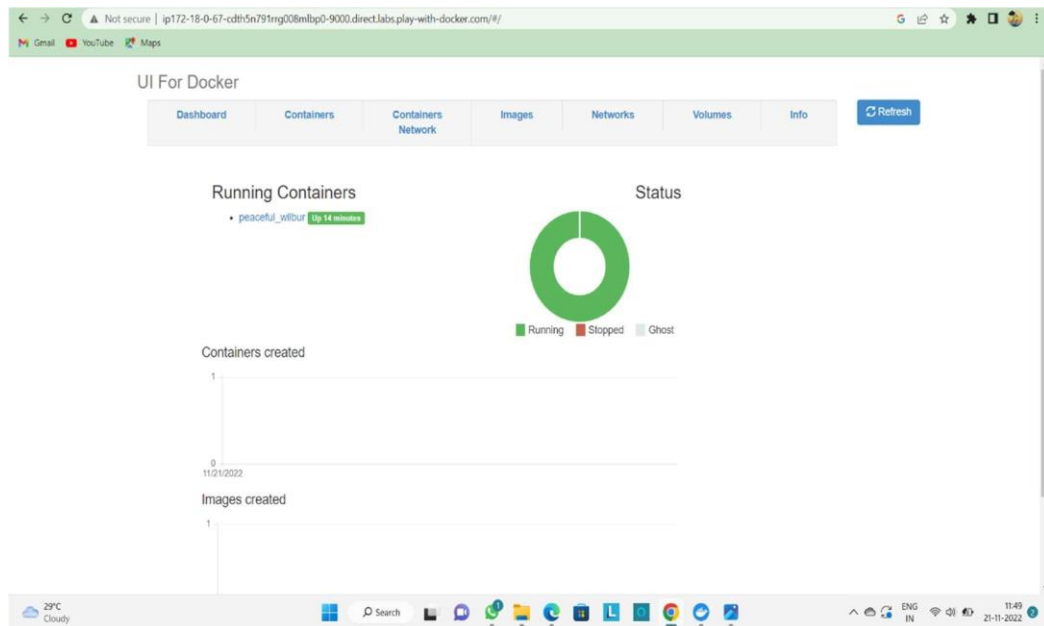
Pull an Image from docker hub and run it in docker playground.



The screenshot shows the Docker Hub page for the repository `uifd/ui-for-docker`. The page header includes the Docker Hub logo, a search bar with the text `uifd/ui-for-docker`, and navigation links for Explore, Repositories, Organizations, and Help. The repository name `uifd/ui-for-docker` is displayed with a star icon and a pull count of 10M+. Below the repository name, it states "By uifd · Updated 6 years ago" and "A web interface for Docker, formerly known as DockerUI. Deprecated, use Portainer for new features." The page has two tabs: Overview and Tags. The Overview tab is active, showing a description of the repository and a Docker Pull Command: `docker pull uifd/ui-for-docker`. The description mentions that the repository is deprecated and development continues at `portainer/portainer`. It also lists goals, including minimal dependencies.



The screenshot shows the Docker Playground interface. On the left, there is a sidebar with a timer showing 03:53:07, a CLOSE SESSION button, and a list of instances. The main area displays the details of a specific instance named `cdth5n79_cdth5pf91rrg008mlbpg`. The instance details include its IP address (192.168.0.18), memory usage (1.62% / 64.89MiB / 3.906GiB), CPU usage (0.59%), and an SSH command. Below the details, there is a terminal window showing the execution of the `docker pull uifd/ui-for-docker` command. The terminal output shows the pull progress and the resulting image ID. The interface also includes a DELETE button and an EDITOR button.



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
80844c29ef5a: 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

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Images

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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

Search

	NAME	TAG	STATUS	CREATED	SIZE	ACTIONS
<input type="checkbox"/>	<div>docker101tutorial</div> <div>3edaaa2413c3</div>	latest	In use	5 days ago	28.91 MB	<div>▶ ⋮ 🗑</div>
<input type="checkbox"/>	<div>alpine/git</div> <div>22d84a65cda4</div>	latest	In use	5 days ago	43.61 MB	<div>▶ ⋮ 🗑</div>
<input type="checkbox"/>	<div>docker/getting-started</div> <div>cb90f98fd791</div>	latest	In use	8 months ago	28.78 MB	<div>▶ ⋮ 🗑</div>
<input type="checkbox"/>	<div>testcontainers/helloworld</div> <div>69746690e52b</div>	latest	In use	about 2 years ago	12.66 MB	<div>▶ ⋮ 🗑</div>

Showing 4 items

30°C Cloudy

RAM 1.47GB CPU 0.22% Connected to Hub

Search

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ENG IN

11:03 25-11-2022