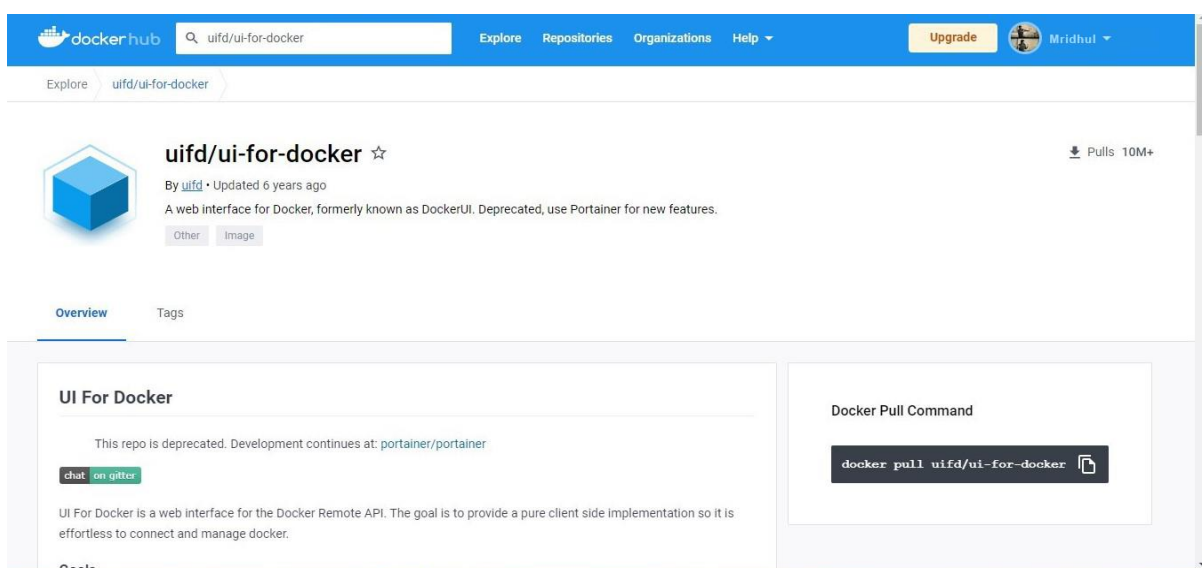


## Assignment -4

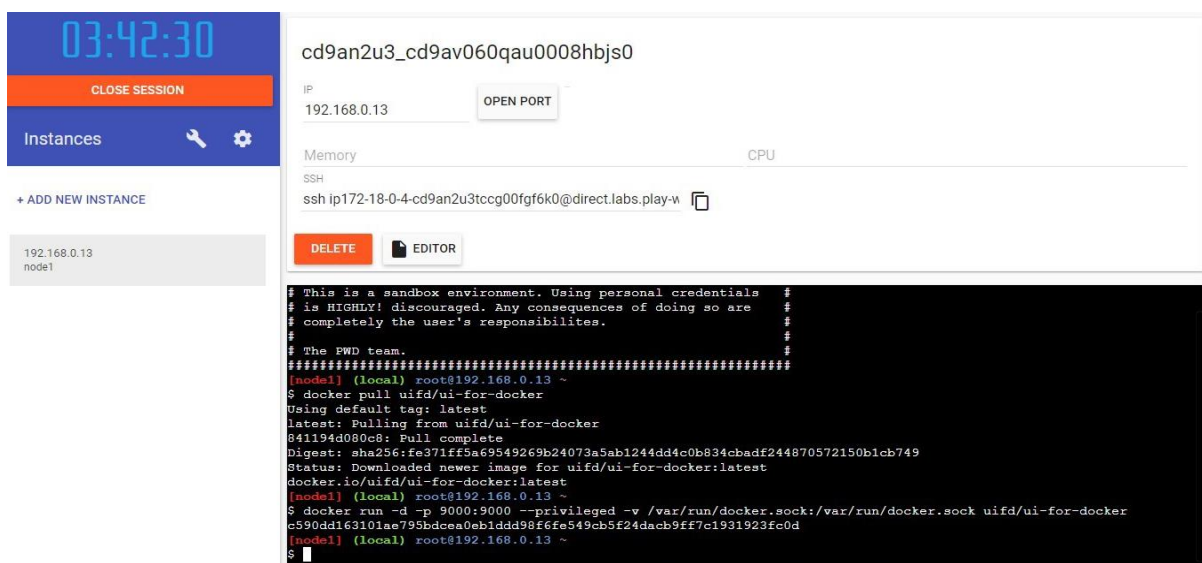
### Docker and Kubernetes

Assignment Date	26 October 2022
Student Name	MOSHE SAM
Student Roll Number	713319CS080
Maximum Marks	2 Marks

#### 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 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. A yellow 'Upgrade' button and a user profile for 'Mridhul' are also visible. The repository page itself features a blue cube icon, the name `uifd/ui-for-docker` with a star, and a note that the repository is deprecated, with development continuing at `portainer/portainer`. A 'Pulls 10M+' badge is shown. Below the repository name, there are tabs for 'Overview' and 'Tags'. The 'Overview' tab is active, showing a description of the repository as a web interface for the Docker Remote API. A 'chat on github' button is present. To the right, a 'Docker Pull Command' box displays the command `docker pull uifd/ui-for-docker`.



The screenshot shows the Docker Playground interface. On the left, there is a sidebar with a digital clock showing 03:42:30, a 'CLOSE SESSION' button, and a section for 'Instances' with a '+ ADD NEW INSTANCE' button. Below this, a list of instances shows one instance named 'node1' with IP address 192.168.0.13. The main area displays the details of the selected instance 'cd9an2u3\_cd9av060qau0008hbjs0'. It shows the IP address 192.168.0.13, an 'OPEN PORT' button, and fields for Memory and CPU. The SSH command is `ssh ip172-18-0-4-cd9an2u3tccg00fgf6k0@direct.labs.play-w`. Below this are 'DELETE' and 'EDITOR' buttons. The bottom section shows a terminal window with 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@192.168.0.13 ~
$ docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
841194d080c8: Pull complete
Digest: sha256:fe371ff5a69549269b24073a5ab1244dd4c0b834cbadf244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
docker.io/uifd/ui-for-docker:latest
[node1] (local) root@192.168.0.13 ~
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
c590dd163101ae795bdcea0eb1dd98f6fe549cb5f24dab9ff7c1931923fc0d
[node1] (local) root@192.168.0.13 ~
$
```

# UI For Docker

The UI for Docker container engine

Learn more.

## Running Containers

- beautiful\_goldwasser

Up About a minute

## Status



## Running Containers

- beautiful\_goldwasser

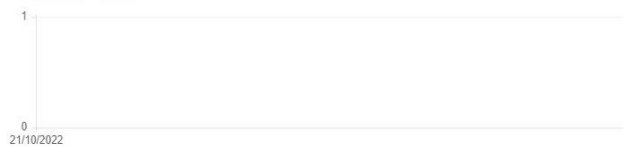
Up About a minute

## Status



Running Stopped Ghost

## Containers created



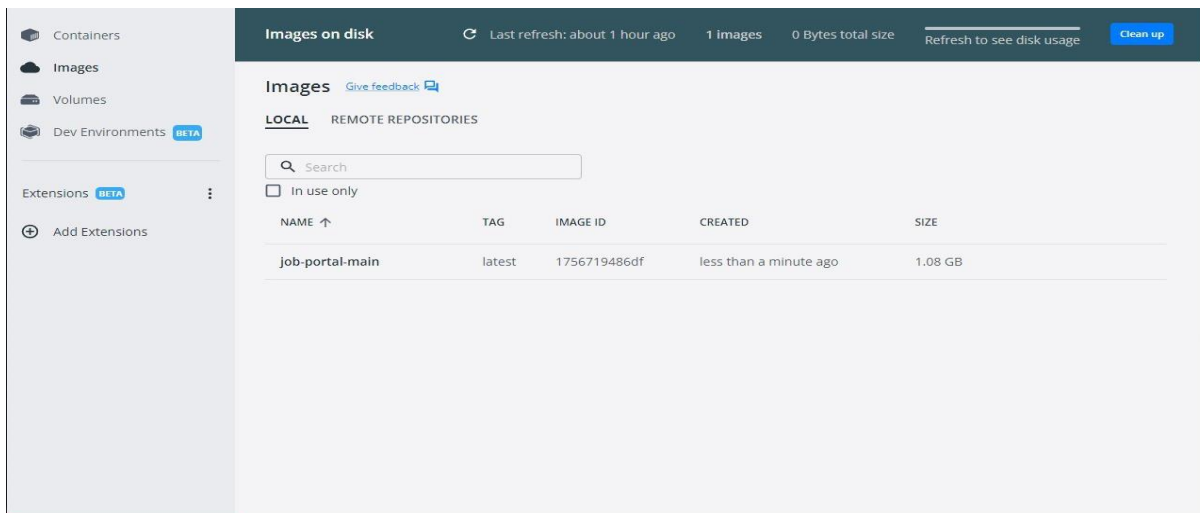
## Images created



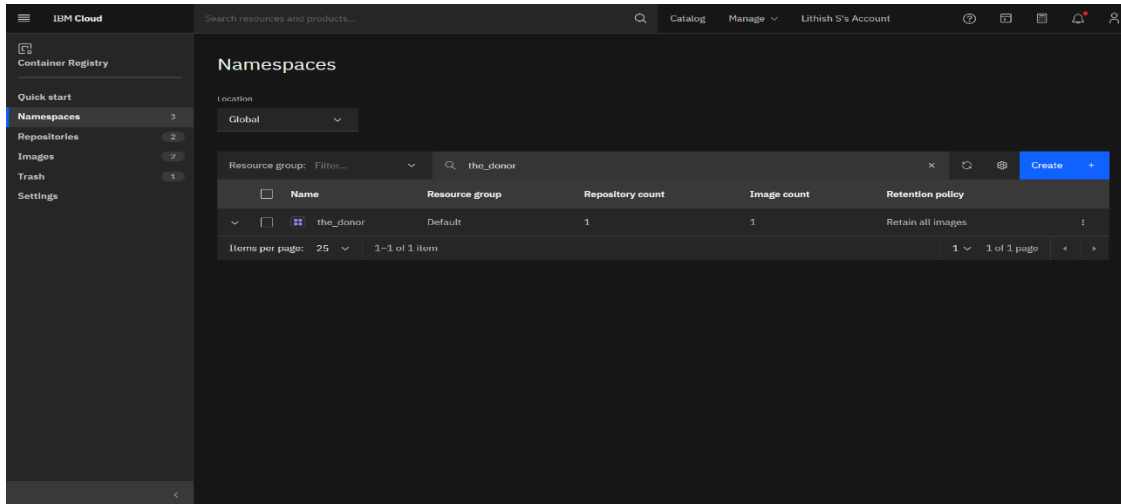
## 2. Create a docker file for the job portal application and deploy it in Docker desktop application

```
C:\Windows\System32\cmd.exe
-> [Internal] load build definition from Dockerfile
-> => transferring dockerfile: 32B
-> [Internal] load .dockerignore
-> => transferring context: 2B
-> [Internal] load metadata for docker.io/library/python:3.6
-> [auth] library/python:pull token for registry-1.docker.io
-> [Internal] load build context
-> => transferring context: 687B
-> [1/6] FROM docker.io/library/python:3.6@sha256:f8652afaf88c25f0d22354d547d892591067aa4026a7fa9ae819df9f300af6fc
-> resolve docker.io/library/python:3.6@sha256:f8652afaf88c25f0d22354d547d892591067aa4026a7fa9ae819df9f300af6fc
-> sha256:f8652afaf88c25f0d22354d547d892591067aa4026a7fa9ae819df9f300af6fc 1.86kB / 1.86kB
-> sha256:d097a4907a8ec079df5ac31872359c2de510f62214c0448e926393b376d3b06d0 2.22kB / 2.22kB
-> sha256:54260638d07c5e3ad24c6a21fc889abbc6486a27634c0892686ff71f3f44b104 0.27kB / 0.27kB
-> sha256:0e29546d541cddb092b1d21273a9a1db7665c1b95b74432b009e0b77ade1e3 54.92MB / 54.92MB
-> sha256:90829c73b52b02b7d5c07e54fb0f3a021995a296c714b53a32ae67d10231fcd 5.15MB / 5.15MB
-> sha256:cb5b7ae361722b31c027ccac322ca463937f0805f569a93eef15c01aade718793 54.57MB / 54.57MB
-> sha256:6494e4811622b31c027ccac322ca463937f0805f569a93eef15c01aade718793 54.57MB / 54.57MB
-> sha256:6f9f74896dffa93fe0172f594faba85e0b4e8a0481a0fef09112efc7e4d3c78f7 196.51MB / 196.51MB
-> sha256:5e3b1213efc56598e78bd602983945c164de2a37205e06a62dada823124dc743 6.29MB / 6.29MB
-> extracting sha256:0e29546d541cddb092b1d21273a9a1db7665c1b95b74432b009e0b77ade1e3
-> sha256:9fddfd56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 14.21MB / 14.21MB
-> extracting sha256:90829c73b52b02b7d5c07e54fb0f3a021995a296c714b53a32ae67d10231fcd 2.35 / 2.35
-> extracting sha256:cb5b7ae361722b31c027ccac322ca463937f0805f569a93eef15c01aade718793 4.06 / 4.06
-> sha256:484f02044bac8432ca522cb09f254b1c91fca6800bfeef0be0b243b2f31bab7 235B / 235B
-> sha256:c4f42be2be53b900ebffc048c1df13de538434ccc5f5d954a56048a6169a3a3f 2.21MB / 2.21MB
-> extracting sha256:6494e4811622b31c027ccac322ca463937f0805f569a93eef15c01aade718793 27.35 / 27.35
-> extracting sha256:6f9f74896dffa93fe0172f594faba85e0b4e8a0481a0fef09112efc7e4d3c78f7 131.44 / 131.44
-> extracting sha256:5e3b1213efc56598e78bd602983945c164de2a37205e06a62dada823124dc743 8.25 / 8.25
-> extracting sha256:9fddfd56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 11.35 / 11.35
-> extracting sha256:484f02044bac8432ca522cb09f254b1c91fca6800bfeef0be0b243b2f31bab7 0.06 / 0.06
-> extracting sha256:c4f42be2be53b900ebffc048c1df13de538434ccc5f5d954a56048a6169a3a3f 2.25 / 2.25
[2/6] WORKDIR /app
-> [3/6] ADD . /app
-> [4/6] COPY requirements.txt /app
-> [5/6] RUN python3 -m pip install -r requirements.txt
-> [6/6] RUN python3 -m pip install ibm_db
-> exporting layers
-> exporting image sha256:1756719486df003fad5dae305c5221513f2ff2d1b49abd242b22a28af0379f19
-> naming to docker.io/library/job-portal-main
-> 0.15

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
C:\Users\VK\Desktop\job-portal-main>
```



### 3.Create a IBM container registry



### 4) Container registry and deployment in Kubernetes

