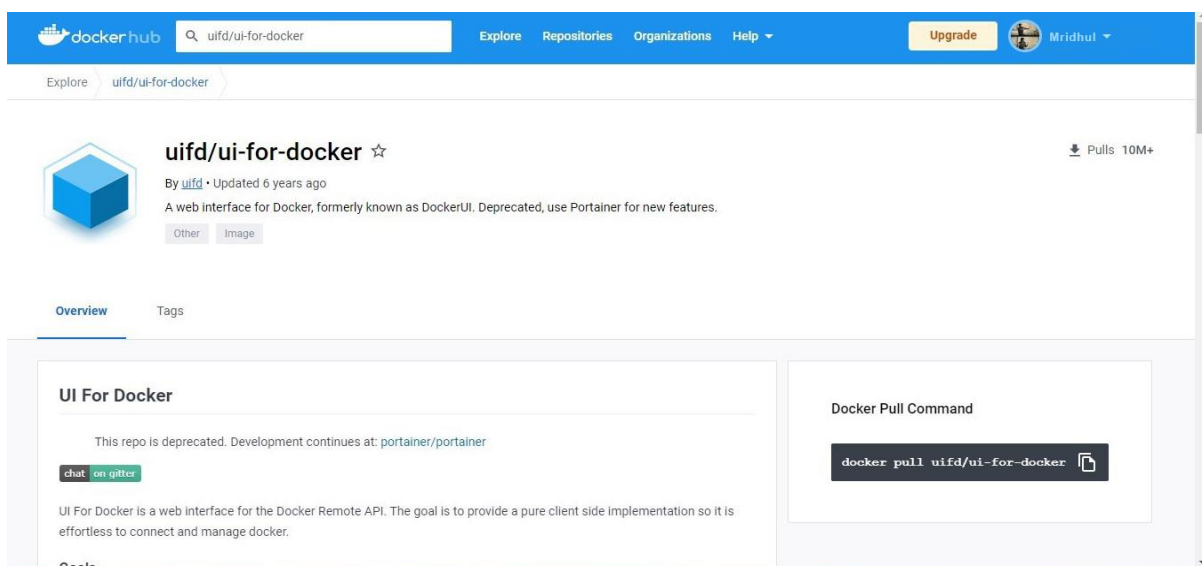


Assignment -4

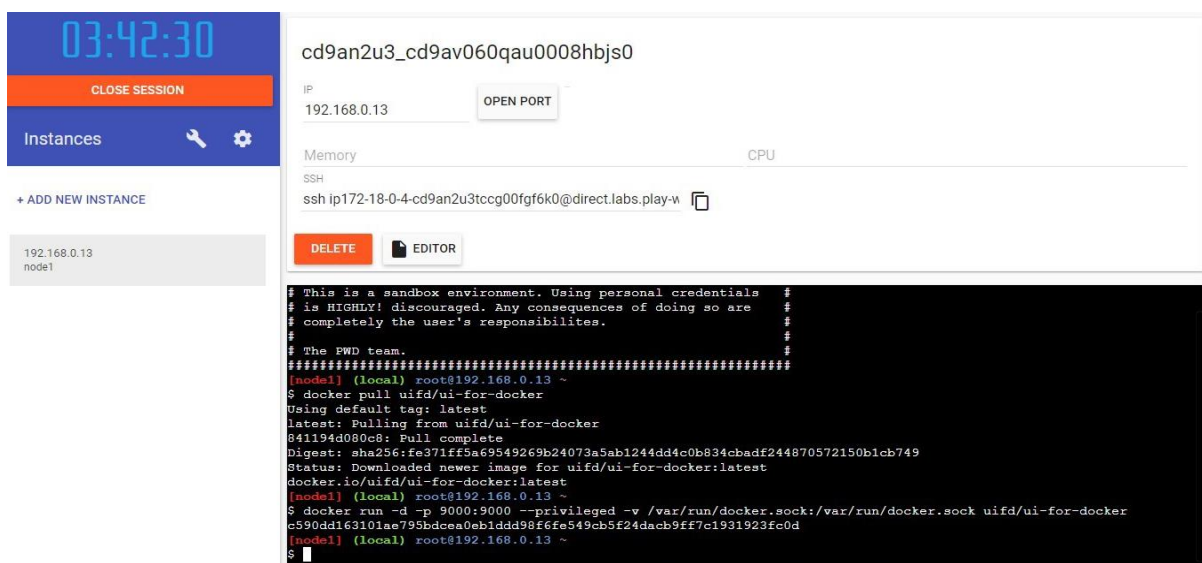
Docker and Kubernetes

Assignment Date	26 October 2022
Student Name	LITHISH S
Student Roll Number	713319CS069
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 repository is marked as deprecated, with a note stating "This repo is deprecated. Development continues at: [portainer/portainer](#)". The page includes a description: "A web interface for Docker, formerly known as DockerUI. Deprecated, use Portainer for new features." and a Docker Pull Command: `docker pull uifd/ui-for-docker`. The repository has over 10M pulls.



The screenshot shows the Docker Playground interface. On the left, there's a sidebar with a clock showing 03:42:30, a "CLOSE SESSION" button, and a list of instances. The main area displays the details of a running instance named `cd9an2u3_cd9av060qau0008hbjs0`. The instance is running on IP `192.168.0.13` with memory and CPU limits. The SSH command is `ssh ip172-18-0-4-cd9an2u3tccg00fgf6k0@direct.labs.play-w`. The terminal output shows the following commands and results:

```
# 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

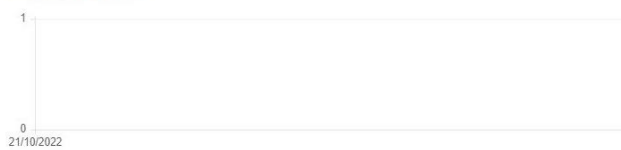
- beautiful_goldwasser Up About a minute

Status



Running Stopped Ghost

Containers created

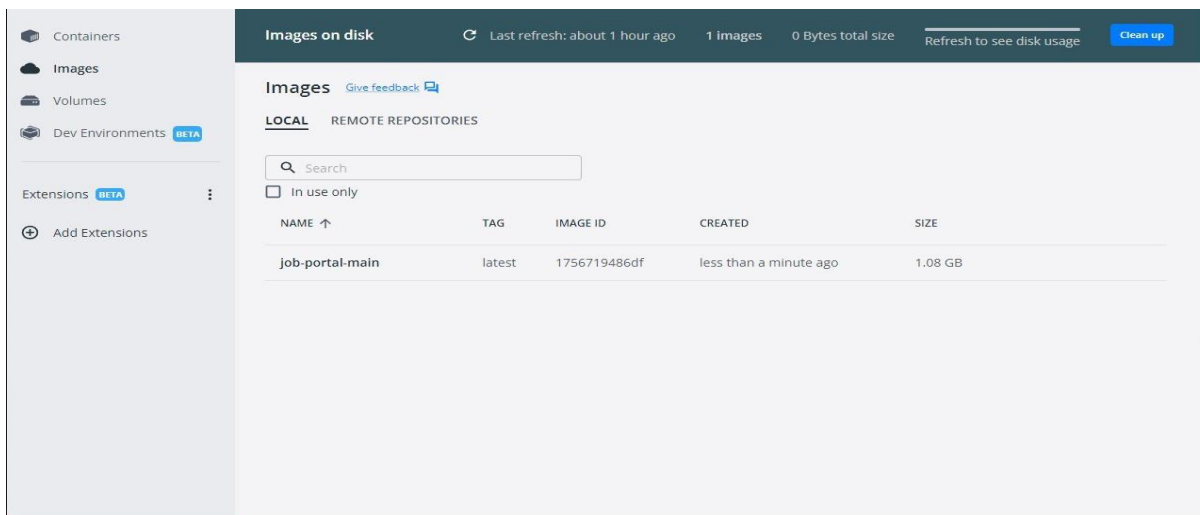


Images created

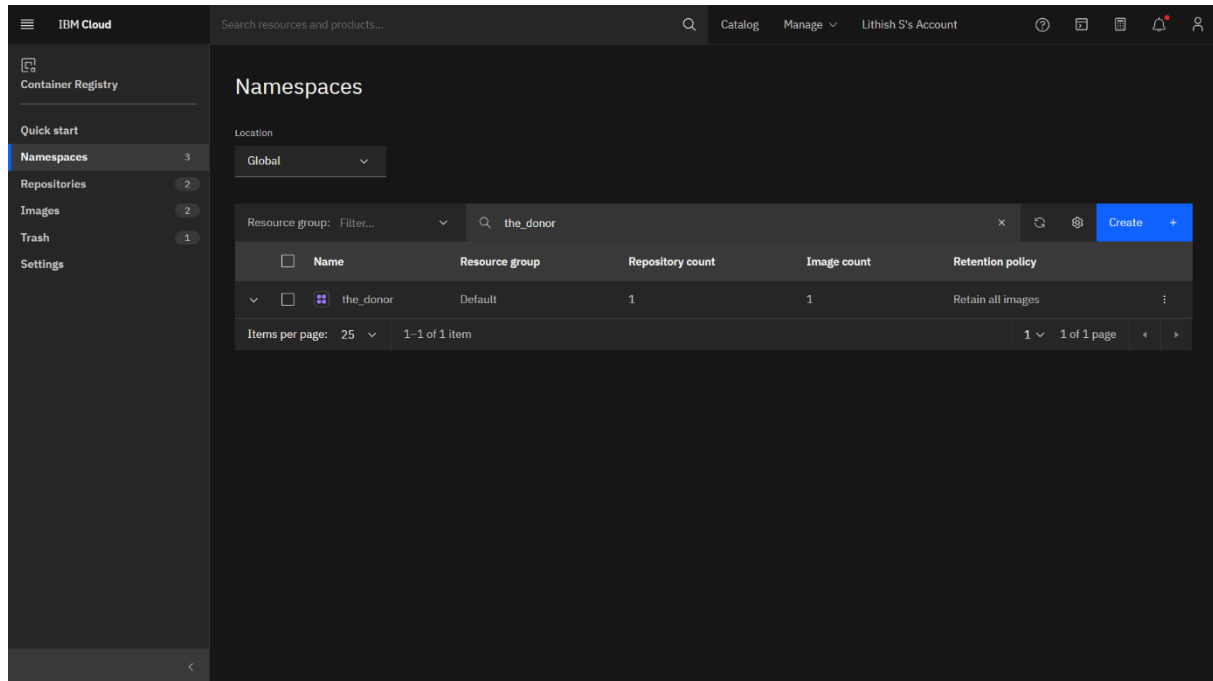


2. Create a docker file for the job portal application and deploy it in Docker desktop application

```
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:f8652aaf88c25f0d22354d547d892591867aad026a7fa9a6819df9f308af6fc
-> resolve docker.io/library/python:3.6@sha256:f8652aaf88c25f0d22354d547d892591867aad026a7fa9a6819df9f308af6fc
-> sha256:f8652aaf88c25f0d22354d547d892591867aad026a7fa9a6819df9f308af6fc 1.86kB / 1.86kB
-> sha256:d097a4907a8ec079df5ac31872359c1de510f82214c0448e926393b376d3b0d0 2.22kB / 2.22kB
-> sha256:54260638097c5e3ad24c6e21fc889abbcb486a27634c0892006ff71f3f44b104 0.27kB / 0.27kB
-> sha256:0e29546d541cddb309281d21a73a9d1db78665c1b95b74f32b009e0b77a6e1e3 54.92MB / 54.92MB
-> sha256:9b829c73b52b92b97d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd 5.15MB / 5.15MB
-> sha256:cb5b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56 10.87MB / 10.87MB
-> sha256:6404e481162b31c027ccac322ca463937f0805f569a93a0f15c01aade710793 54.57MB / 54.57MB
-> sha256:6f9f74896df93fe0172f504fab0a5e004e0b481a0fef0112efe7a4d3c7077 196.51MB / 196.51MB
-> sha256:5a3b1213efc56598e78bd602083945c164de2a37205e06a62dada823124dc743 6.29MB / 6.29MB
-> extracting sha256:0e29546d541cddb309281d21a73a9d1db78665c1b95b74f32b009e0b77a6e1e3
-> sha256:9fd0dfdc56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 14.21MB / 14.21MB
-> extracting sha256:9b829c73b52b92b97d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd
-> extracting sha256:cb5b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56
-> sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7 235B / 235B
-> sha256:c4f42be2be53b00ebffrc048c1d1f13de538434ccc5f5d954a56048a6169a3a3f 2.21MB / 2.21MB
-> extracting sha256:6404e481162b31c027ccac322ca463937f0805f569a93a0f15c01aade710793
-> extracting sha256:6f9f74896df93fe0172f504fab0a5e004e0b481a0fef0112efe7a4d3c7077
-> extracting sha256:5a3b1213efc56598e78bd602083945c164de2a37205e06a62dada823124dc743
-> extracting sha256:9fd0dfdc56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752
-> extracting sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7
-> extracting sha256:c4f42be2be53b00ebffrc048c1d1f13de538434ccc5f5d954a56048a6169a3a3f
-> [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 to image
-> => exporting layers
-> => writing image sha256:1756719486df002fad5dae305c5221513f2ff2d1b49a8d242b22a28af0379f19
-> => naming to docker.io/library/job-portal-main
Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
C:\Users\VK-PC\Desktop\job-portal-main>
```



3. Create a IBM container registry



4) Container registry and deployment in Kubernetes

