

## Assignment – 4

Assignment Date	21-OCT-2022
Team ID	PNT2022TMID50562
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Maximum Marks	2 Marks

### Questions:

1. Pull an image from docker hub and run it in docker playground.

The image shows two screenshots. The top screenshot is of the Docker Hub page for the repository 'uifd/ui-for-docker'. It shows the repository details, including the description 'A web interface for Docker, formerly known as DockerUI. Deprecated, use Portainer for new features.' and the Docker Pull Command: `docker pull uifd/ui-for-docker`.

The bottom screenshot is of the Docker Playground interface. It shows a terminal window where the user has pulled the 'uifd/ui-for-docker' image and run it. The terminal output shows the image being pulled and the container running successfully. The Docker Playground interface also shows the IP address 192.168.0.13 and the SSH command to connect to the instance.

## 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:f8652afaf88c25f6d22354d547d892591867aa4026a7f9a6815df9f380aef6fc
-> resolve docker.io/library/python:3.6@sha256:f8652afaf88c25f6d22354d547d892591867aa4026a7f9a6815df9f380aef6fc
-> sha256:f8652afaf88c25f6d22354d547d892591867aa4026a7f9a6815df9f380aef6fc 1.86kB / 1.86kB
-> sha256:d8074a087abec079d9fac31072359c2de510f82214c0448e926393b376d3b60d 2.22kB / 2.22kB
-> sha256:542063bd07c5e3ad24ce21fc889abbcc8486a27634c0092086ff71f3f44b104 9.27kB / 9.27kB
-> sha256:0e29546d541c8bd309281d21a73a9d1b78665c1b95b74f32b000eb77a6e1e3 54.92MB / 54.92MB
-> sha256:9b829c73b52b097d5c07a54f8f3e921995a296c714b53a3a67d10231fcd 5.15MB / 5.15MB
-> sha256:cd5b7ae61722f078eca53f35823bd21baa8d61dd95cd5a9fab530746cd56 16.07MB / 16.07MB
-> sha256:6484e49110231c07ccac32c0463977f9805f509a36df15c01ade718793 54.57MB / 54.57MB
-> sha256:6f9f7486d9a3f6e172f504fab85e0b4a8a0481a0fef09112efc7e4d3c78f7 196.51MB / 196.51MB
-> sha256:5e3b1211efc56598e78bd602983945c164de2a37205e0eae2dada823124dc743 6.29MB / 6.29MB
-> extracting sha256:0e29546d541c8bd309281d21a73a9d1b78665c1b95b74f32b000eb77a6e1e3
-> sha256:9fddfd56334f2edf7e241bf5e7459c40ed105c5478b76f41c1244bd96752 14.21MB / 14.21MB
-> extracting sha256:9b829c73b52b097d5c07a54f8f3e921995a296c714b53a3a67d10231fcd
-> extracting sha256:cd5b7ae61722f078eca53f35823bd21baa8d61dd95cd5a9fab530746cd56
-> sha256:6484e49110231c07ccac32c0463977f9805f509a36df15c01ade718793 2.21MB / 2.21MB
-> extracting sha256:6484e49110231c07ccac32c0463977f9805f509a36df15c01ade718793
-> sha256:6f9f7486d9a3f6e172f504fab85e0b4a8a0481a0fef09112efc7e4d3c78f7
-> extracting sha256:5e3b1211efc56598e78bd602983945c164de2a37205e0eae2dada823124dc743
-> extracting sha256:9fddfd56334f2edf7e241bf5e7459c40ed105c5478b76f41c1244bd96752
-> extracting sha256:404f02044bac0432ca522cb09f254b1c91fcea6800bfeef0be0b243b2f31bab7
-> extracting sha256:c4f42be2be53b909b0b7f80401d7f13de538434cc5f5d954a5648a8160a3a3f
-> [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 job_db
-> exporting to image
-> exporting layers
-> writing image sha256:1756719486df002fad5d0e305c5221513f2f2d1b49abd242b22a28af0379f19
-> 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>
```

Docker Desktop Upgrade plan

Containers Images Volumes Dev Environments **EXTENSIONS** Add Extensions

Images on disk Last refresh: about 1 hour ago 1 Images 0 Bytes total size Refresh to see disk usage Clean up

Images Give feedback

LOCAL REMOTE REPOSITORIES

Search

☐ In use only

NAME	TAG	IMAGE ID	CREATED	SIZE
job-portal-main	latest	1756719486df	less than a minute ago	1.08 GB

RAM 2.53GB CPU 1.56% Connected to Hub v4.13.0

### 3. Create an IBM container registry and deploy helloworld app or jobportalapp.

The image shows two overlapping screenshots. The top screenshot is the 'UI For Docker' web interface, which is a dashboard for managing Docker containers. It features a navigation bar with tabs for Dashboard, Containers, Containers Network, Images, Networks, Volumes, and Info. The main content area displays 'Running Containers' with a list of containers (e.g., 'beautiful\_goldwasser') and a 'Status' section with a green progress indicator. The bottom screenshot is a terminal window showing the execution of Docker commands. The terminal output includes the command 'docker pull uifd/ui-for-docker', the resulting digest and status, and the command 'docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker'. The terminal also shows a warning about using personal credentials in a sandbox environment.

UI For Docker

Dashboard Containers Containers Network Images Networks Volumes Info Refresh

# UI For Docker

The UI for Docker container engine

Learn more.

Running Containers

- beautiful\_goldwasser Up About a minute

Status

03:42:30

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.13 node1

cd9an2u3\_cd9av060qau0008hbjs0

IP: 192.168.0.13 OPEN PORT

Memory CPU

SSH

ssh ip172-18-0-4-cd9an2u3tccg00fg6k0@direct.labs.play-w

DELETE EDITOR

```
# 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. #
#####
[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
[local] (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
c590dd163101ae795bdc0e0eb1ddd98f6fe549cb5f24dab9ff7c1931923fc0d
[local] (local) root@192.168.0.13 ~
$
```