

## Assignment – 4

Assignment Date	21-OCT-2022
Team ID	PNT2022TMID50562
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Student Roll Number	952819104040
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 name, a description stating it is deprecated and to use Portainer instead, and a 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 then run it with the command `docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker`. The terminal output shows the image being pulled and the container running successfully.

## 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:3.8
[auth] library/python:pull token for registry-1.docker.io
[Internal] load build context
-> transferring context: 697B
[1/6] FROM docker.io/library/python:3.8@sha256:f8652f4f88c25f6d22354d547d802501867aa4026a7f9a0815d9f380eaf6fc
-> resolve docker.io/library/python:3.8@sha256:f8652f4f88c25f6d22354d547d802501867aa4026a7f9a0815d9f380eaf6fc
-> sha256:f8652f4f88c25f6d22354d547d802501867aa4026a7f9a0815d9f380eaf6fc 1.86kB / 1.86kB
-> sha256:d8074a087abec079d9f5ac31072359c2de510f82214c0448e926303b376d3b60d 2.22kB / 2.22kB
-> sha256:5420863bd07c5e3ad24ce21fc889abbcc8480a27634c0092080ff71f3f44b104 9.27kB / 9.27kB
-> sha256:0e29546d541c8bd309281d21a73a9d1b78665c1b95b74f32b000eb77a6e1e3 54.92MB / 54.92MB
-> sha256:0b829c73b52b097d5c07a54f8f3e921995a296c714b53a32ae67d10231fcd 5.15MB / 5.15MB
-> sha256:cd5b7ae61722f070eca53f35823ed21baa8d61dd95cd5a9f5ab530746cd56 10.07MB / 10.07MB
-> sha256:6404e4811622b31c827cca322ca463937f9085f569a93a6f5c01ade718793 54.57MB / 54.57MB
-> sha256:6f9f7486d9a3f0e172f504faba85e0b4a8a81a0fef09112efc7e4d3c78f7 106.51MB / 106.51MB
-> sha256:5e3b1211efc56590e78bd602983945c164de2a37205e0eae2dada823124dc743 6.29MB / 6.29MB
-> extracting sha256:0e29546d541c8bd309281d21a73a9d1b78665c1b95b74f32b000eb77a6e1e3
-> sha256:9fddfd56334f2edf7e241bf5e7459c40ed105c5478b70f41c1244bd96752 14.21MB / 14.21MB
-> extracting sha256:0b829c73b52b097d5c07a54f8f3e921995a296c714b53a32ae67d10231fcd
-> extracting sha256:cd5b7ae61722f070eca53f35823ed21baa8d61dd95cd5a9f5ab530746cd56
-> sha256:404f02044bac0432ca522cb09f254b1c91fcea6080bfeef0be0b243b2f31bab7 0.00B / 0.00B
-> extracting sha256:6404e4811622b31c827cca322ca463937f9085f569a93a6f5c01ade718793
-> extracting sha256:6f9f7486d9a3f0e172f504faba85e0b4a8a81a0fef09112efc7e4d3c78f7
-> extracting sha256:5e3b1211efc56590e78bd602983945c164de2a37205e0eae2dada823124dc743
-> extracting sha256:9fddfd56334f2edf7e241bf5e7459c40ed105c5478b70f41c1244bd96752
-> extracting sha256:404f02044bac0432ca522cb09f254b1c91fcea6080bfeef0be0b243b2f31bab7
-> extracting sha256:c4f42be2be53b909b0b7f80401d0f13de538434cc5f5d954a5648a8160a3a3f
-> [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 lib_db
-> exporting to image
-> exporting layers
-> writing image sha256:1756719486df002fad5d0e305c5221513f2f2d1b49a0d242b22a28af0379f19
-> 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 screenshots. The top screenshot is the 'UI For Docker' web interface. It has a navigation bar with 'Dashboard', 'Containers', 'Containers Network', 'Images', 'Networks', 'Volumes', and 'Info'. The main content area displays 'UI For Docker' with the tagline 'The UI for Docker container engine' and a 'Learn more' button. Below this, it shows 'Running Containers' with one container named 'beautiful\_goldwasser' and a 'Status' section with a green progress indicator.

The bottom screenshot is a terminal window with a sidebar on the left showing a clock at 03:42:30, a 'CLOSE SESSION' button, and an 'Instances' section with a '+ ADD NEW INSTANCE' button. The main terminal area shows the command prompt for a container named 'cd9an2u3\_cd9av060qau0008hbjs0'. The IP address is 192.168.0.13. The terminal output shows the following commands and their 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. #
#####
[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] 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
c590dd163101ae795bdca0eb1ddd98f6fe549cb5f24dab9ff7c1931923fc0d
[local] root@192.168.0.13 ~
$
```