

Assignment – 4

Assignment Date	21-OCT-2022
Team ID	PNT2022TMID50562
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Student Roll Number	952819104011
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." The Docker Pull Command is displayed as `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 is as follows:

```
# 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.
#####
[model1] (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
[model1] (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
[model1] (local) root@192.168.0.13 ~
$
```

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: 687B
[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
-> sha256:5420863bd07c5e3ad24ce21fc889abb8480a27634c0092080ff71f3f44b104 9.27kB / 9.27kB
-> sha256:0e29546d541c8d309281d21a73a9d1d578665c1b95b74f32b000eb77a6e1e3 54.92MB / 54.92MB
-> sha256:0b829c73052b097d5c07a54fb0f3e921995a296c714b53a32ae67d10231fcd 5.15MB / 5.15MB
-> sha256:cd5b7ae61722f070eca53f35823ed21baa8d61dd95cd5a9f5ab530746cd56 10.07MB / 10.07MB
-> sha256:6404e4811622b31c827cca322ca463937f9085f569a93a6f5c01ade718793 54.57MB / 54.57MB
-> sha256:6f9f7486d9a3fe0172f504faba85e0a6a8a0481a0fef09112efc7e4d3c78f7 106.51MB / 106.51MB
-> sha256:5e3b1211efc56590e78bd602983945c164de2a37205e0eae2dada823124dc743 6.29MB / 6.29MB
-> extracting sha256:0e29546d541c8d309281d21a73a9d1d578665c1b95b74f32b000eb77a6e1e3
-> sha256:9fddfd56334f2edf7e241bf5e7459c40ed105c5478b70f41c1244bd96752 14.21MB / 14.21MB
-> extracting sha256:0b829c73052b097d5c07a54fb0f3e921995a296c714b53a32ae67d10231fcd
-> extracting sha256:cd5b7ae61722f070eca53f35823ed21baa8d61dd95cd5a9f5ab530746cd56
-> sha256:404f02044bac0432ca522cb09f254b1c91fcea6080bfeef0be0b243b2f31bab7 2.79MB / 2.79MB
-> extracting sha256:6404e4811622b31c827cca322ca463937f9085f569a93a6f5c01ade718793
-> sha256:6f9f7486d9a3fe0172f504faba85e0a6a8a0481a0fef09112efc7e4d3c78f7
-> extracting sha256:5e3b1211efc56590e78bd602983945c164de2a37205e0eae2dada823124dc743
-> extracting sha256:9fddfd56334f2edf7e241bf5e7459c40ed105c5478b70f41c1244bd96752
-> extracting sha256:404f02044bac0432ca522cb09f254b1c91fcea6080bfeef0be0b243b2f31bab7
-> extracting sha256:c4f42be2be53b909b0b7fc040c1d713de538434cc5f5d954a5648a8160a3a3f
-> [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 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 digital clock '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 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
c590dd163101ae795bdc0e0eb1ddd98f6fe549cb5f24dab9ff7c1931923fc0d
[local] root@192.168.0.13 ~
$
```