

## Assignment -4

### Docker and Kubernetes

|                 |                  |
|-----------------|------------------|
| Assignment Date | 21 October 2022  |
| Team ID         | PNT2022TMID23453 |
| Maximum Marks   | 2 Marks          |

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

The screenshot displays the Docker Hub interface for the repository `uifd/ui-for-docker`. The repository is marked as deprecated, with a note stating: "This repo is deprecated. Development continues at: [portainer/portainer](#)". The Docker Pull Command is shown as `docker pull uifd/ui-for-docker`.

Below the Docker Hub interface, the Docker Playground interface is visible. It shows a session titled `cd9an2u3_cd9av060qau0008hbjs0` with an IP address of `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. #
#####
[mode1] (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
[mode1] (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
c590dd163101ae795bdcea0eb1ddd98f6fe549cb5f24dacb9ff7c1931923fc0d
[mode1] (local) root@192.168.0.13 ~
$
```

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

The image displays two screenshots of the 'UI For Docker' web application interface, accessed via a browser. The browser's address bar shows the URL: `ip172-18-0-4-cd9an2u3tccg00fgf6k0-9000.direct.labs.play-with-docker.com/#/`.

**Top Screenshot:** The interface shows the 'UI For Docker' title and a navigation bar with tabs: Dashboard, Containers, Containers Network, Images, Networks, Volumes, and Info. A 'Refresh' button is present. The main content area features a large 'UI For Docker' header with the subtitle 'The UI for Docker container engine' and a 'Learn more.' button. Below this, the 'Running Containers' section lists a single container named 'beautiful\_goldwasser' with a status of 'Up About a minute'. A green donut chart is partially visible, representing the system status.

**Bottom Screenshot:** This screenshot shows the same interface but with more details. The 'Running Containers' section remains the same. The 'Status' section displays a green donut chart indicating the system is 'Running'. A legend below the chart shows 'Running' (green), 'Stopped' (red), and 'Ghost' (grey). Additionally, there are two empty line graphs: 'Containers created' and 'Images created', both showing a count of 1 on the y-axis and the date '21/10/2022' on the x-axis.

### 3. Create a IBM container registry and deploy hello word app

```
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
-> [1/8] FROM docker.io/library/python:3.6@sha256:f8652afaf88c25f0d22354d547d892591067aa4826a7fa9a6810df9f308afefc
-> resolve docker.io/library/python:3.6@sha256:f8652afaf88c25f0d22354d547d892591067aa4826a7fa9a6810df9f308afefc
-> sha256:f8652afaf88c25f0d22354d547d892591067aa4826a7fa9a6810df9f308afefc 1.80kB / 1.80kB
-> sha256:609724987a8c879cfac31872359c2de510f87214c0448a92630377d3b060d 2.23kB / 2.23kB
-> sha256:5420636d97c5e3ad24ce21fc889abbc8486a27634c8892086ff71f3f44b104 9.27kB / 9.27kB
-> sha256:6e29546d541cdhd389261d21a73a0d1db78665c1b95b74f32b009e0b77a6e1e3 54.92MB / 54.92MB
-> sha256:9b029c73b52b02b97d5c07a54fb0f3e921995a296c714b53a32ae07d19231fcd 5.15MB / 5.15MB
-> sha256:cb5b7ae361722f07eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56 10.87MB / 10.87MB
-> sha256:6494e4811622b31c027ccac322ca463937fd805f560a93e0f15c01ade710793 54.57MB / 54.57MB
-> sha256:6f9f74896dfa93fe0172f594fab85c8b4e8a0481a0fef09112efc7e4d3c78f7 196.51MB / 196.51MB
-> sha256:5e6b1213efc568067b00e2983945c154d02a37205e0a22ada823124d749 6.29MB / 6.29MB
-> extracting sha256:0e29546d541cdhd389261d21a73a0d1db78665c1b95b74f32b009e0b77a6e1e3 27.35s
-> sha256:9fd0ddc56334f2e0efad7e241bf5e7459c48dd185c5478e76f41c1244b096752 14.21MB / 14.21MB
-> extracting sha256:9b029c73b52b02b97d5c07a54fb0f3e921995a296c714b53a32ae07d19231fcd 2.3s
-> sha256:cb5b7ae361722f07eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56 4.4s
-> sha256:404f02044bac0432ca522cbb9f254b1c91fca6080bfeef0be0b24302f31bab7 235B / 235B
-> sha256:c4f42be2b53b090ebffcf040c1df13de538434ccc5f5d954a50848a6169a3af 2.21MB / 2.21MB
-> extracting sha256:6494e4811622b31c027ccac322ca463937fd805f560a93e0f15c01ade710793 27.3s
-> sha256:6f9f74896dfa93fe0172f594fab85c8b4e8a0481a0fef09112efc7e4d3c78f7 131.4s
-> extracting sha256:5e6b1213efc568067b00e2983945c154d02a37205e0a22ada823124d749 0.2s
-> sha256:9fd0ddc56334f2e0efad7e241bf5e7459c48dd185c5478e76f41c1244b096752 11.3s
-> sha256:404f02044bac0432ca522cbb9f254b1c91fca6080bfeef0be0b24302f31bab7 0.0s
-> sha256:c4f42be2b53b090ebffcf040c1df13de538434ccc5f5d954a50848a6169a3af 2.2s
-> [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 sha256:1756719486df0e2fad5dee305c5221513f2ff2d1b49a8d242b22a20af0379f19
-> 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\Desktop>job-portal-main>
```

Docker Desktop Upgrade plan

Containers

Images

Volumes

Dev Environments BETA

Extensions BETA

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

