

## Assignment -4

### Docker and Kubernetes

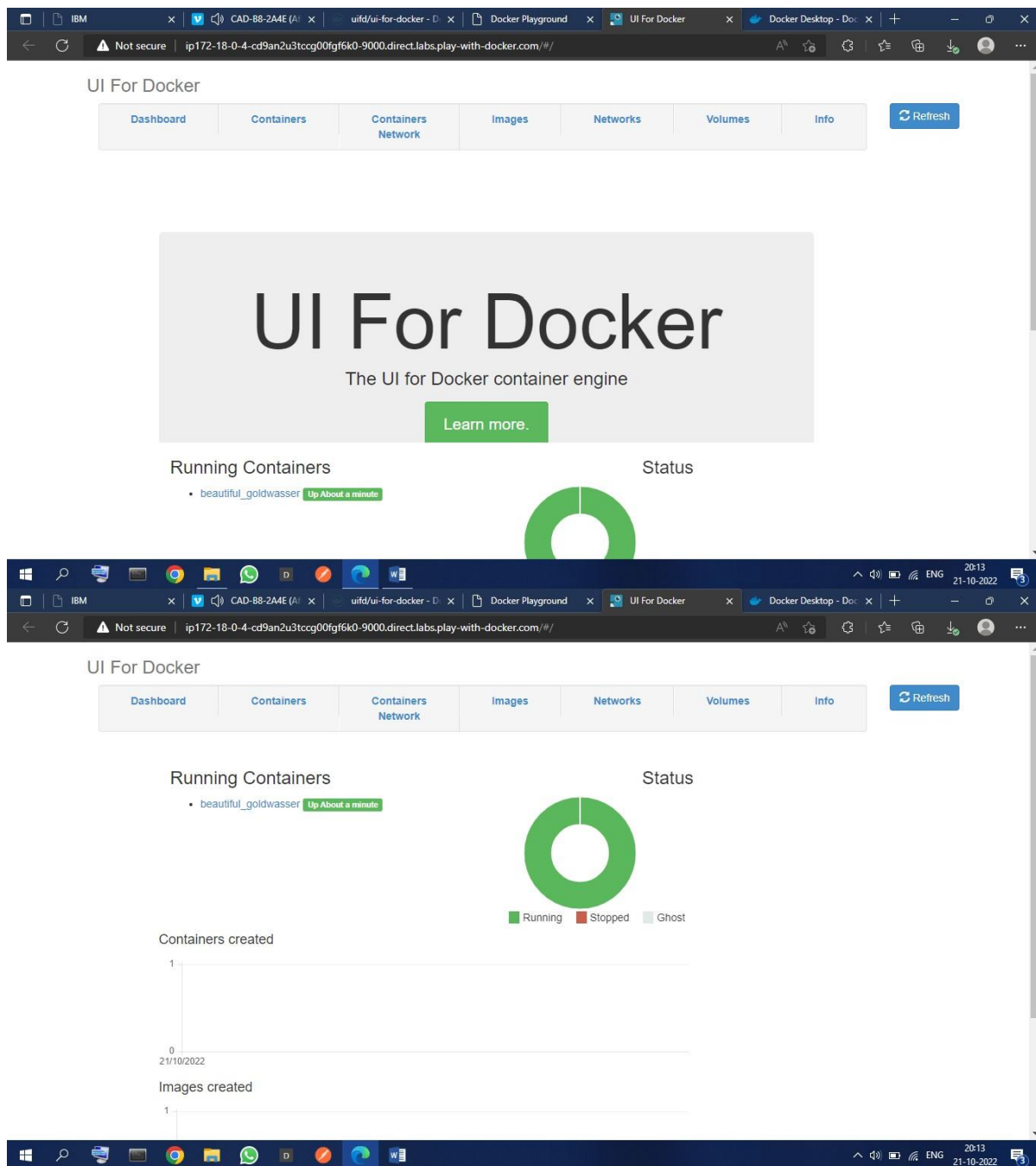
Assignment Date	21 October 2022
Student Name	Shibi R
Student Roll Number	311619104064
Maximum Marks	2 Marks

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

The image shows a two-part process. The top part is a screenshot of the Docker Hub repository page for `uifd/ui-for-docker`. The page indicates the repository is deprecated and suggests using `portainer/portainer` instead. It shows the Docker Pull Command as `docker pull uifd/ui-for-docker`.

The bottom part is a screenshot of the Docker Playground interface. It shows a session titled `cd9an2u3_cd9av060qau0008hbjso` with IP `192.168.0.13`. The terminal output shows the following commands and results:

```
[root@192.168.0.13 ~]# docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
041194d080c8: Pull complete
Digest: sha256:fe371ff5a69549269b24073a5ab1244dd4c0b834cbad244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
docker.io/uifd/ui-for-docker:latest
[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
c590dd163101ae795bdcea0eb1ddd98f6fe549cb5f24dab9ff7c1931923fe0d
[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:3.6
-> [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:f8652afaf88c25f0d22354d547d892591067aa4026a7fa9a6819df9f300af6fc
-> => resolve docker.io/library/python:3.6@sha256:f8652afaf88c25f0d22354d547d892591067aa4026a7fa9a6819df9f300af6fc
-> => sha256:f8652afaf88c25f0d22354d547d892591067aa4026a7fa9a6819df9f300af6fc 1.06KB / 1.06KB
-> => sha256:d097a4097a8ec07bdf5ac319722359c2de510f92214c04a8ee26393b376d3b060 2.22KB / 2.22KB
-> => sha256:5420083807c5e3ad46e21fc089abbcb486a27634c0932086ff71f144b104 9.27KB / 9.27KB
-> => sha256:0e29546d541cddb3892b1d21e73a9d1db78665c1b95b74f32b089e0b77a6e1e3 54.92MB / 54.92MB
-> => sha256:0b829c73652b92b07d5c07a54f0f3e921995a296c714b53a32ae67d19231fcd 5.15MB / 5.15MB
-> => sha256:c95b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56 10.87MB / 10.87MB
-> => sha256:6494e4811622b31c027ccac322ca463937fd805f569a93eef15c01aade718793 54.57MB / 54.57MB
-> => sha256:6f9f74896df93fe0172f594faba85e0b4e8a0481a0fef9d9112efc7e4d3c78f7 196.51MB / 196.51MB
-> => sha256:5e3b1213efc56598e78bd002983945c164de2a37205e06a62dada823124dc743 6.29MB / 6.29MB
-> => extracting sha256:0e29546d541cddb3892b1d21e73a9d1db78665c1b95b74f32b089e0b77a6e1e3
-> => sha256:9fd9de56334f2e0efad7e241bf5e7459c40ed105c478670f41c124ab096752 14.21MB / 14.21MB
-> => extracting sha256:9b029c72b52b92b07d5c07a54f0f3e921995a296c714b53a32ae67d19231fcd
-> => extracting sha256:rh5b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56
-> => sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7 235B / 235B
-> => sha256:c4f42be2be53b900ebffcc048c1df13de538434ccc5f5d954a56048a6169a3a3f 2.21MB / 2.21MB
-> => sha256:6494e4811622b31c027ccac322ca463937fd805f569a93eef15c01aade718793
-> => extracting sha256:6f9f74896df93fe0172f594faba85e0b4e8a0481a0fef9d9112efc7e4d3c78f7
-> => extracting sha256:5e3b1213efc56598e78bd002983945c164de2a37205e06a62dada823124dc743
-> => extracting sha256:9fd9de56334f2e0efad7e241bf5e7459c40ed105c478670f41c124ab096752
-> => extracting sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7
-> => extracting sha256:c4f42be2be53b900ebffcc048c1df13de538434ccc5f5d954a56048a6169a3a3f
-> [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 lbm_db
-> exporting to image
-> 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

