

## Assignment -4

### Docker and Kubernetes

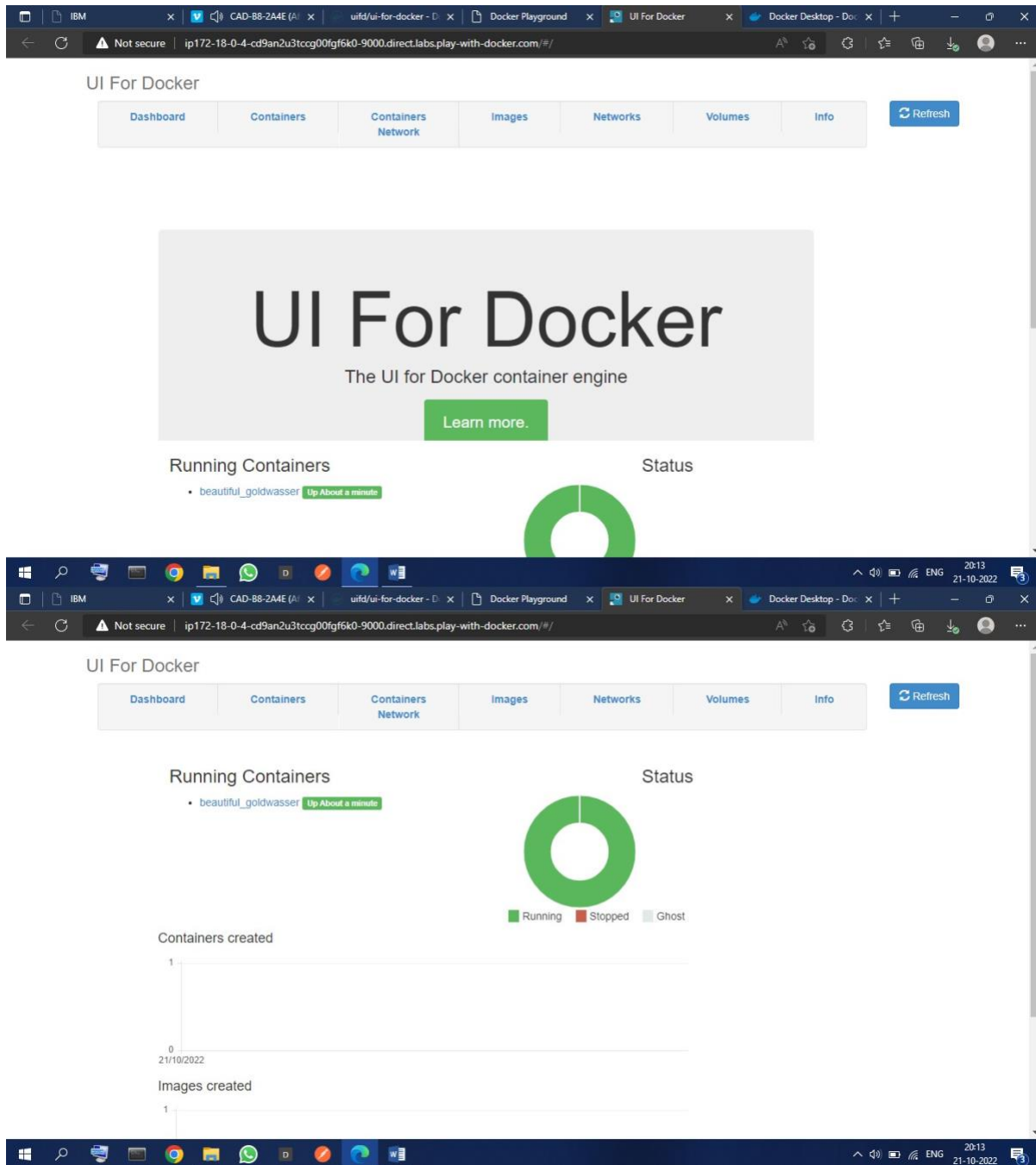
Assignment Date	31 October2022
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Student Roll Number	822219104037
Maximum Marks	2 Marks

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

The screenshot displays two browser windows. The top window shows the Docker Hub page for the repository `uifd/ui-for-docker`. The page indicates that the repository is deprecated and suggests using Portainer for new features. It shows the Docker Pull Command: `docker pull uifd/ui-for-docker`.

The bottom window shows the Docker Playground interface. It displays the instance details for `cd9an2u3_cd9av060qau0008hjs0`, including the IP address `192.168.0.13` and the SSH command: `ssh ip172-18-0-4-cd9an2u3tccg00fg6k0@direct.labs.play-w`. The terminal output shows the following commands and 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.
#####
[node1] (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:fe371fff5a69549269b24073a5ab1244dd4c0b834cbadf244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
docker.io/uifd/ui-for-docker:latest
[node1] (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
c590dd163101ae795bdcea0eb1ddd98f6fe549cb5f24dab9ff7c1931923fc0d
[node1] (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:3.6
>> [auth] library/python:pull token for registry-1.docker.io
>> [internal] load build context
>> >> transferring context: 887B
>> [1/6] FROM docker.io/library/python:3.6@sha256:f8652a7af88c25f0d22354d547d892591067aa4026a7fa9a6019df9f300af6fc
>> resolve docker.io/library/python:3.6@sha256:f8652a7af88c25f0d22354d547d892591067aa4026a7fa9a6019df9f300af6fc
>> sha256:f8652a7af88c25f0d22354d547d892591067aa4026a7fa9a6019df9f300af6fc 1.0GB / 1.0GB
>> sha256:d892591067aa4026a7fa9a6019df9f300af6fc 2.22kB / 2.22kB
>> sha256:54260638097c5e3ad24c6e21fc889abbcb486a27634c8092806ff71f3f44b104 9.27kB / 9.27kB
>> sha256:0e29546d541cdd389281d21e73a9d1db78665c1b95b74f32b009e0b77ade1e3 54.92MB / 54.92MB
>> sha256:98029c73052b92b97d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd 5.15MB / 5.15MB
>> sha256:cb5b7ae301722f070eca53f35823ed21ba085d61d5d95cd5a95ab53d740cdd56 10.87MB / 10.87MB
>> sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e0f15c01ade718793 54.57MB / 54.57MB
>> sha256:6f9f74806df93fe0172f594fabd5e0b4e0a481a0f9fd9112efc7e4d3c78f7 196.51MB / 196.51MB
>> sha256:5e3b1211efc56508e78b0602003945c164de2a37205e06ac2dadab23124dc743 6.29MB / 6.29MB
>> extracting sha256:0e29546d541cdd389281d21e73a9d1db78665c1b95b74f32b009e0b77ade1e3
>> sha256:9fd0dfc56334f2e6efad7e241bf507458c48d185c5478676f41c1244b096752 14.21MB / 14.21MB
>> extracting sha256:98029c73052b92b97d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd
>> extracting sha256:cb5b7ae301722f070eca53f35823ed21ba085d61d5d95cd5a95ab53d740cdd56
>> sha256:48a4f02044bac0432ca522cbb9f254b1c91fcea6080bfeef0be0b243b2f31ba07 235B / 235B
>> sha256:c4f42be2b53b900ebffcd40c1df13de538434ccc5f5d954a5684a6169a3a3f 2.21MB / 2.21MB
>> extracting sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e0f15c01ade718793
>> extracting sha256:6f9f74806df93fe0172f594fabd5e0b4e0a481a0f9fd9112efc7e4d3c78f7
>> extracting sha256:5e3b1211efc56508e78b0602003945c164de2a37205e06ac2dadab23124dc743
>> extracting sha256:9fd0dfc56334f2e6efad7e241bf507458c48d185c5478676f41c1244b096752
>> extracting sha256:48a4f02044bac0432ca522cbb9f254b1c91fcea6080bfeef0be0b243b2f31ba07
>> extracting sha256:c4f42be2b53b900ebffcd40c1df13de538434ccc5f5d954a5684a6169a3a3f
>> [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 lbw_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

C:\Users\VK-PC\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

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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 a IBM container registry and deploy helloworld app