

## Assignment -4

### Docker and Kubernetes

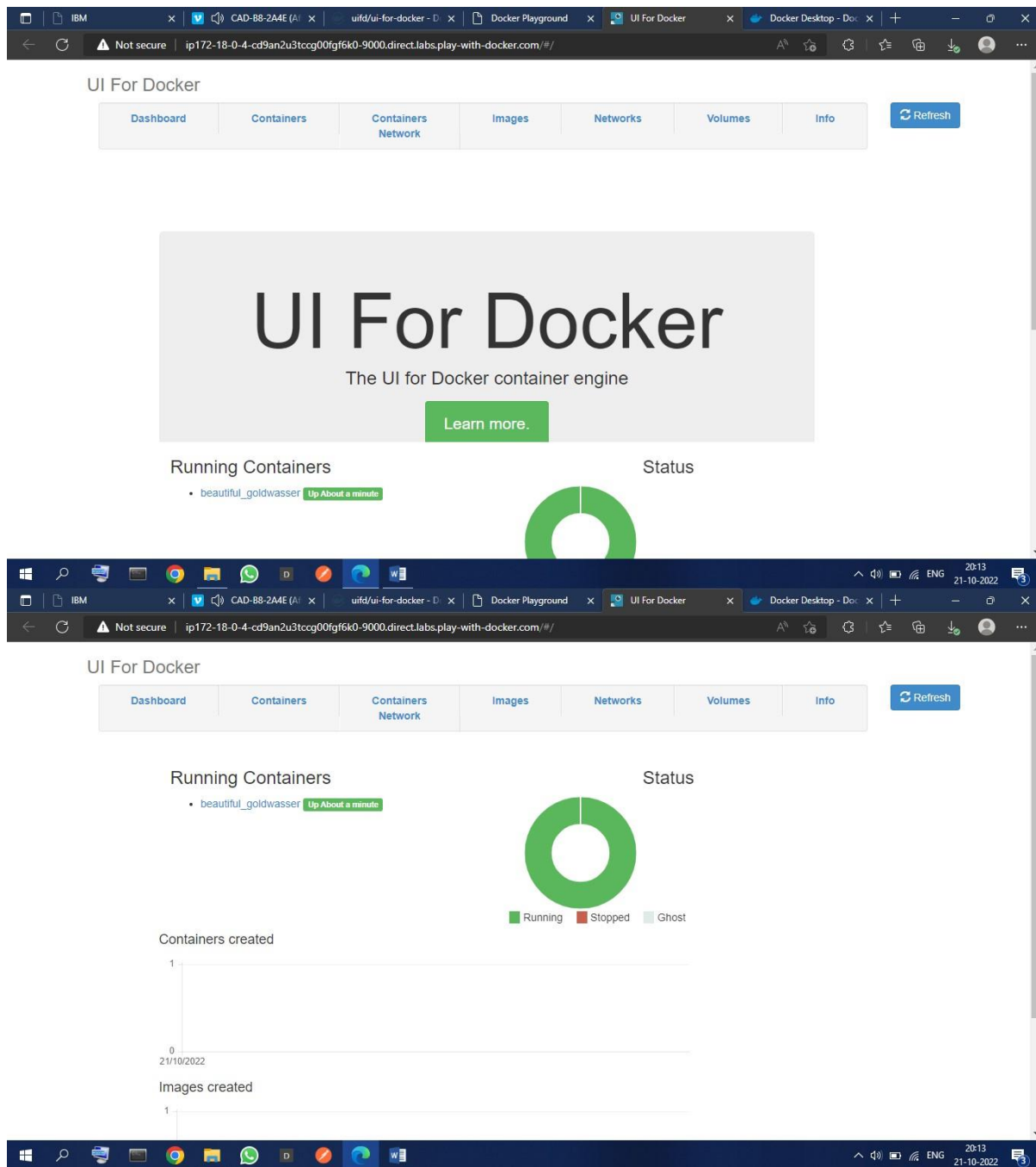
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#### 1.Pull an image from docker hub and run it in docker Playground

The screenshot shows a web browser with the Docker Hub page for the repository `uifd/ui-for-docker`. The page indicates that the repository is deprecated and suggests using Portainer instead. Below this, there is a section for the Docker Pull Command, which is `docker pull uifd/ui-for-docker`.

Below the Docker Hub page, the Docker Playground interface is visible. It shows a session titled `cd9an2u3_cd9av060qau0008hbjs0` with an IP address of `192.168.0.13`. The interface includes a terminal window where the following commands are executed:

```
# This is a sandbox environment. Using personal credentials #
# is HIGHLY discouraged. Any consequences of doing so are #
# completely the user's responsibilities. #
# #
# The PWD 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:fe371ff5a69549269b24073a5ab1244dd4c0b834cbadef244870572150b1cb749
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
c590dd163101ae795bdcea0eb1ddd98f6fe549cb5f24dadb9ff7c1931923fc0d
[node1] (local) root@192.168.0.13 ~
$
```



1. 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
639.11s
-> resolve docker.io/library/python:3.6@sha256:f8652afaf88c25f0d22354d547d892591067aa4026a7fa9a6819df9f300af6fc
1.1s
-> sha256:f8652afaf88c25f0d22354d547d892591067aa4026a7fa9a6819df9f300af6fc 1.86kB / 1.86kB
-> sha256:d097a409f8ec075d75ac11972359c2de510f92214c04bae26393b376d3b00d0 2.22kB / 2.22kB
-> sha256:5420083087c5e3ad246e21fc089abbcb486a27634c0092086ff71f3f44d104 9.27kB / 9.27kB
-> sha256:0e29546d541cddb309201d21a73a9d1db78665c1b95b74f32b089e0b77a8e1e3 54.92MB / 54.92MB
-> sha256:0b029c73052b92b07d5c07e54f00f3e921995a296c714b53a32ae67d19231fcd 5.15MB / 5.15MB
-> sha256:cb507ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56 10.87MB / 10.87MB
-> sha256:6404e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793 54.57MB / 54.57MB
-> sha256:6f9f74896df93fe0172f594faba85e0b4e8a0481a0fef9d9112efc7e4d3c78f7 196.51MB / 196.51MB
-> sha256:Se3b1213efc56598e78bd082983945c164de2a37205e06a62dada823124dc743 6.29MB / 6.29MB
-> extracting sha256:0e29546d541cddb309201d21a73a9d1db78665c1b95b74f32b089e0b77a8e1e3
27.3s
-> sha256:9fd0dc5633af2e6efad70241bf5e7459c4bed105c547867f41c1244b096752 14.21MB / 14.21MB
-> extracting sha256:9b029c73052b92b07d5c07e54f00f3e921995a296c714b53a32ae67d19231fcd
2.3s
-> extracting sha256:cb507ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56
4.0s
-> sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7 235B / 235B
-> sha256:c4f42be2be53b900ebffcc040c1df13de538434ccc5f50954a56848a169a3a3f 2.21MB / 2.21MB
-> extracting sha256:6404e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793
27.3s
-> extracting sha256:6f9f74896df93fe0172f594faba85e0b4e8a0481a0fef9d9112efc7e4d3c78f7
131.4s
-> extracting sha256:Se3b1213efc56598e78bd082983945c164de2a37205e06a62dada823124dc743
8.2s
-> extracting sha256:9fd0dc5633af2e6efad70241bf5e7459c4bed105c547867f41c1244b096752
11.3s
-> extracting sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7
0.0s
-> extracting sha256:c4f42be2be53b900ebffcc040c1df13de538434ccc5f50954a56848a169a3a3f
2.7s
-> [2/6] WORKDIR /app
2.8s
-> [3/6] ADD . /app
2.7s
-> [4/6] COPY requirements.txt /app
2.6s
-> [5/6] RUN python3 -m pip install -r requirements.txt
372.2s
-> [6/6] RUN python3 -m pip install ibm_db
9.7s
-> exporting layers
7.8s
-> writing image sha256:1756719486df002fad5dae305c5221513f2ff2d1b49a8d242b22a2a8f0379f19
6.8s
-> naming to docker.io/library/job-portal-main
0.1s
```

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

