

Assignment -4

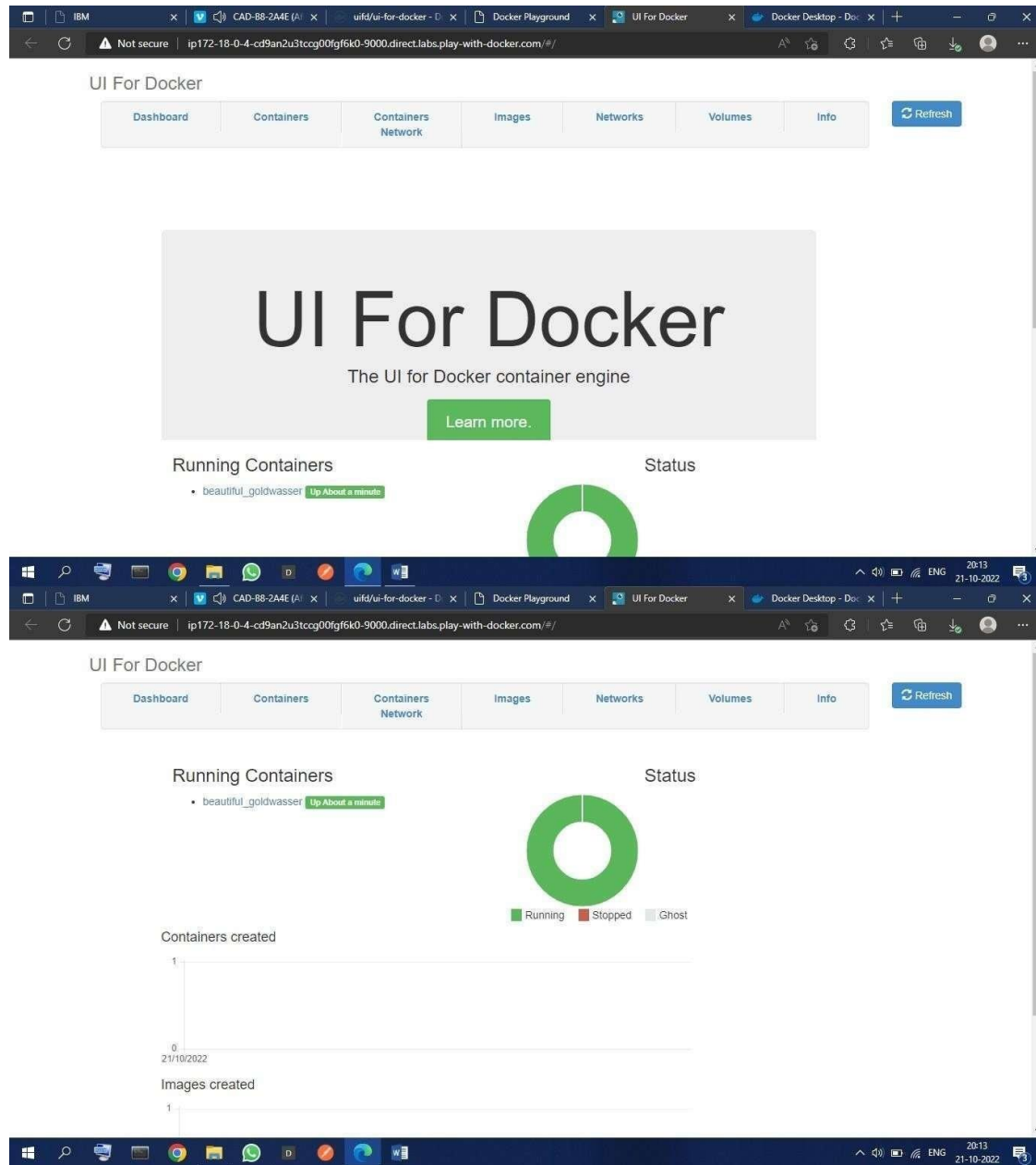
Docker and Kubernetes

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|---------------------|----------------|
| Assignment Date | 17 NOV 2022 |
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| Student Roll Number | 953419104028 |
| Maximum Marks | 2 Marks |

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

The screenshot is divided into two main parts. The top part shows the Docker Hub repository page for 'uifd/ui-for-docker'. The page includes the repository name, a star icon, and a note stating 'By uifd • Updated 6 years ago' and 'A web interface for Docker, formerly known as DockerUI. Deprecated, use Portainer for new features.' The 'Overview' tab is selected, showing a description of the repository and a 'chat' button. The 'Tags' tab is also visible. The bottom part of the screenshot shows the Docker Playground interface. The 'Instances' panel on the left shows a session titled 'cd9an2u3_cd9av060qau0008hbjso' with an IP address of '192.168.0.13'. The 'SSH' panel shows the command 'ssh ip172-18-0-4-cd9an2u3tccg00gf6k0@direct.labs.play-w'. The 'Terminal' panel shows the following commands and output:

```
# 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. #
#####
[model] (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:fc371f1fa69549269b24073a5ab1244dd4c0b834cbadf244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
docker.io/uifd/ui-for-docker:latest
[model] (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
c590dd163101ae795bdc0eb1dd98f6fe549cb5f24dab9ff7c1931923fc0d
[model] (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: 607B
[1/6] FROM docker.io/library/python:3.6@sha256:f8652afaf88c25f0d12354d547d892501067aad026a7fa9a0819df9f300af6fc
-> resolve docker.io/library/python:3.6@sha256:f8652afaf88c25f0d12354d547d892501067aad026a7fa9a0819df9f300af6fc
-> sha256:f8652afaf88c25f0d12354d547d892501067aad026a7fa9a0819df9f300af6fc 1.86kB / 1.86kB
-> sha256:d097a907a8ec79d5fac31872359c1de510f82214c0440e92693b376d3600d 2.22kB / 2.22kB
-> sha256:5420603d07c5e3ad24ce21fc889abbc048a27634c0802080f71f3f44b104 9.27kB / 9.27kB
-> sha256:0e29546d541cdd309281d21a73e9d1d078065c1b95b74f32b00e0b77a6e1e3 54.92MB / 54.92MB
-> sha256:0b029c73b52002b97d5c07a4f00f3e921095a29cc714b53a2ee7d19231fc0 5.15MB / 5.15MB
-> sha256:d307ee3b1722f070ec23f35823e211aa5d01d0d95c2a95a530740c0d54 10.87MB / 10.87MB
-> sha256:6a94e4811622b31c027ccac32ca463037f4085f50a93e6f15c01aade718793 54.57MB / 54.57MB
-> sha256:0f9f74806df03f0e1721504fab85e0b4e0a0481a0f0fd0112efc7e4d3c78f7 196.51MB / 196.51MB
-> sha256:5e3b1213efc50590e78bd002083045c164de2a37205e06a02dada23124dc743 6.20MB / 6.20MB
-> extracting sha256:0e29546d541cdd309281d21a73e9d1d078065c1b95b74f32b00e0b77a6e1e3
-> sha256:9fdddc5c33af2e6defad7c2d11f927a59c4e4d8bc5478070f41c1244a00702 14.21MB / 14.21MB
-> extracting sha256:9fdddc5c33af2e6defad7c2d11f927a59c4e4d8bc5478070f41c1244a00702 14.21MB / 14.21MB
-> extracting sha256:cb0b7ae61722f070ec23f35823e211aa5d01d0d95c2a95a530740c0d54 4.05
-> sha256:404f02044bac0432ca522cbb9f254b1c91fcea0800bfeef06e0b243b2f31ba07 235B / 235B
-> sha256:c4f42be2be53b00ebffcb040c1df13de538434ccc5f5d954a56048a6160a3a3f 2.21MB / 2.21MB
-> extracting sha256:6a94e4811622b31c027ccac32ca463037f4085f50a93e6f15c01aade718793
-> extracting sha256:0f9f74806df03f0e1721504fab85e0b4e0a0481a0f0fd0112efc7e4d3c78f7
-> extracting sha256:5e3b1213efc50590e78bd002083045c164de2a37205e06a02dada23124dc743
-> extracting sha256:9fdddc5c33af2e6defad7c2d11f927a59c4e4d8bc5478070f41c1244a00702
-> extracting sha256:404f02044bac0432ca522cbb9f254b1c91fcea0800bfeef06e0b243b2f31ba07
-> extracting sha256:c4f42be2be53b00ebffcb040c1df13de538434ccc5f5d954a56048a6160a3a3f
[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 layers
-> writing image sha256:1756719486df002fad5dae305c5221513f2ff2d1b49a8d242b32a28af037919
-> 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>
```

