

DOCKER AND KUBERNETES

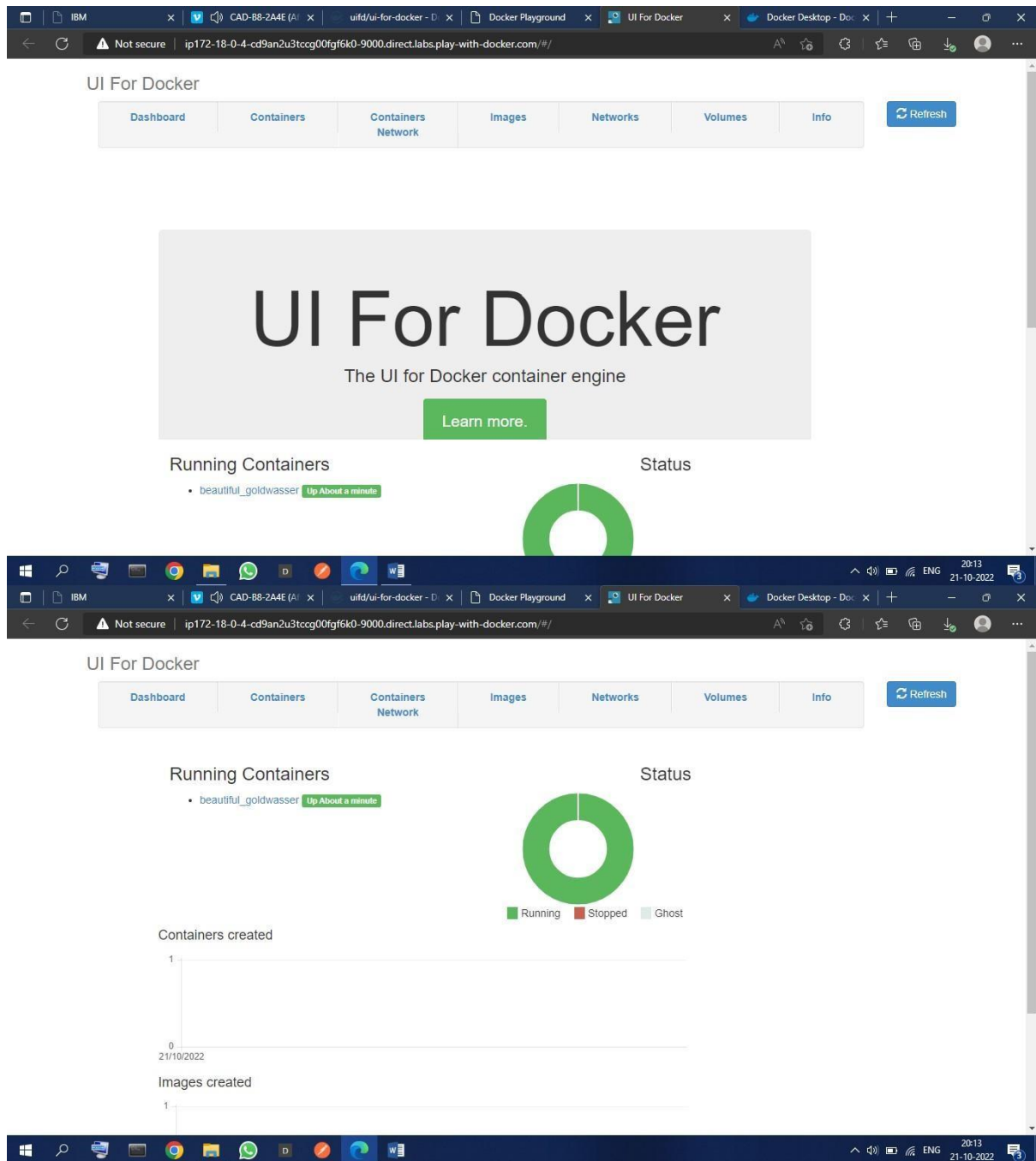
Assignment Date	27 October 2022
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Maximum Marks	2 Marks

- 1. Pull an image from docker hub and run it in docker Playground and**
- 2. Create a docker file for the job portal application and deploy it in Docker desktop application**

The image is a composite screenshot showing two parts of a Docker workflow. The top part is a browser window displaying the Docker Hub page for the repository `uifd/ui-for-docker`. The page indicates that the repository is deprecated and development has moved to `portainer/portainer`. It shows the repository was updated 6 years ago and has over 10 million pulls. A Docker Pull Command box displays `docker pull uifd/ui-for-docker`. The bottom part of the image shows a Docker Playground instance named `cd9an2u3_cd9av060qau0008hbjs0`. The instance's IP is `192.168.0.13`. The terminal window within the playground 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. #
#####
[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:fe371ff5a69549269b24073a5ab1244dd4c0b834cbadf244870572150b1cb749
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
c590dd163101ae795bdce0eb1dd498f6fe549cb5f24dab9ff7c1931923fc0d
[node1] (local) root@192.168.0.13 ~
$
```

3.Create an IBM container registry and deploy helloworld or job portal app.



4. Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal app image and also expose the same app to run in nodeport.

```
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 1.86kB / 1.86kB
-> sha256:d097a4907a8ec079df5ac31072359c2de510f82214c0448e926393b376d3b60d 2.22kB / 2.22kB
-> sha256:54260638d07c5e3ad24c6e21fc889abbc8486a27634c0092086ff7f13f44b104 9.27kB / 9.27kB
-> sha256:0e29546d541cddb309281d21a73a9d1db78665c1b95b74f32b009e0b77a6e1e3 54.92MB / 54.92MB
-> sha256:90b29c73b52b92b97d5c07a54f06f3e921995a296c714b53a32ae67d19231fcd 5.15MB / 5.15MB
-> sha256:05b7ae361722f070ec253f5e321021baa85d61dc095cd595e0530740cdd50 10.87MB / 10.87MB
-> sha256:6494e4811622b31c027ccac322ca463937fd805f509a93e6f15c01aade718793 54.57MB / 54.57MB
-> sha256:6f9f74896dfa93fe0172f594fab85e0b4e8a0481a0efef9112efc7e4d3c78f7 196.51MB / 196.51MB
-> sha256:5e3b1213efc56598e78bd0e2983945c164de2a37205e06a67dada823124dc743 6.29MB / 6.29MB
-> extracting sha256:0e29546d541cddb309281d21a73a9d1db78665c1b95b74f32b009e0b77a6e1e3
-> sha256:9fd9fcd56334f2e6fad7e241bf5e7459c40ed105c5478676f41c1244bd96752 14.21MB / 14.21MB
-> extracting sha256:90b29c73b52b92b97d5c07a54f06f3e921995a296c714b53a32ae67d19231fcd
-> extracting sha256:cb5b7ae361722f070ec253f5e321021baa85d61dc095cd595e0530740cdd50
-> sha256:404f02044bac8432ca522cbb9f254b1c91fca68006bfef0be0b243b2f31bab7 235B / 235B
-> sha256:44f42be3b53b900ebf4c04c1d613de53e43cc5fcd954a56848a6169a3a3f 2.21MB / 2.21MB
-> extracting sha256:6494e4811622b31c027ccac322ca463937fd805f509a93e6f15c01aade718793
-> extracting sha256:6f9f74896dfa93fe0172f594fab85e0b4e8a0481a0efef9112efc7e4d3c78f7
-> extracting sha256:5e3b1213efc56598e78bd0e2983945c164de2a37205e06a67dada823124dc743
-> extracting sha256:9fd9fcd56334f2e6fad7e241bf5e7459c40ed105c5478676f41c1244bd96752
-> extracting sha256:404f02044bac8432ca522cbb9f254b1c91fca68006bfef0be0b243b2f31bab7
-> extracting sha256:44f42be3b53b900ebf4c04c1d613de53e43cc5fcd954a56848a6169a3a3f
-> [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
-> exporting layers
-> 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>

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

☐ 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