

Assignment -4

Docker and Kubernetes

| | |
|---------------------|-----------------|
| Assignment Date | 2 November 2022 |
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| Maximum Marks | 2 Marks |

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

The screenshot shows two browser windows. The top window is Docker Hub, displaying the repository page for `uifd/ui-for-docker`. The page indicates the repository is deprecated and suggests using `portainer/portainer` instead. It shows a pull count of 10M+ and a Docker pull command: `docker pull uifd/ui-for-docker`.

The bottom window is Docker Playground, showing a session with IP `192.168.0.13`. The terminal displays 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 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:fe371ff5a69549269b24073a5ab1244dd4c0b834cbad24487052150b1cb749
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
c590dd1f63101ac795bdeea0eb1dd498f6fe549cb5f24dab9ff7c1931923fc0d
[node1] (local) root@192.168.0.13 ~
$
```

UI For Docker

Dashboard Containers Containers Network Images Networks Volumes Info Refresh

UI For Docker

The UI for Docker container engine

Learn more.

Running Containers

- beautiful_goldwasser Up About a minute

Status



Containers created



Images created



Running Stopped Ghost

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: 328
>> [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: 6878
>> [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:d097a4907a8e0c094df5e31107235926e510f02214c0448e92639b30b76db060d 2.22kB / 2.22kB
>> sha256:54268638d07c5e3ad24c6e21fc889abbce8486a27634c8891086ff71f3f44b104 9.27kB / 9.27kB
>> sha256:0e29546d541cdd309281d21a73a9d1db78665c1b95b74f32b00e0b77a6e1e3 54.92MB / 54.92MB
>> sha256:9b829c73b52b92b97d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd 5.15MB / 5.15MB
>> sha256:cb5b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d748cdd56 10.87MB / 10.87MB
>> sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793 54.57MB / 54.57MB
>> sha256:6f9f74896dfa93fe0172f594faba85e0b4e8a0481a0fef9d9112efc7e4d3c78f7 196.51MB / 196.51MB
>> sha256:5e3b1213efc56598e78bd602983945c164de2a37205e06ae2dada823124dc743 6.29MB / 6.29MB
>> sha256:0e29546d541cdd309281d21a73a9d1db78665c1b95b74f32b00e0b77a6e1e3 54.92MB / 54.92MB
>> sha256:9fddfd56334f2eefad7e241bf5e7459c40ed105c5478676f41c1244bd96752 14.21MB / 14.21MB
>> extracting sha256:9b829c73b52b92b97d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd 2.3s
>> extracting sha256:cb5b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d748cdd56 4.0s
>> sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7 235B / 235B
>> sha256:c4f42be2b53b900ebffc040c1df13de538434ccc5f5d954a56848a6169a3a3f 2.21MB / 2.21MB
>> extracting sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793 27.3s
>> extracting sha256:6f9f74896dfa93fe0172f594faba85e0b4e8a0481a0fef9d9112efc7e4d3c78f7 131.4s
>> extracting sha256:5e3b1213efc56598e78bd602983945c164de2a37205e06ae2dada823124dc743 8.2s
>> sha256:9fddfd56334f2eefad7e241bf5e7459c40ed105c5478676f41c1244bd96752 11.3s
>> extracting sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7 0.0s
>> extracting sha256:c4f42be2b53b900ebffc040c1df13de538434ccc5f5d954a56848a6169a3a3f 2.2s
>> [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 to image
>> exporting layers
>> writing image sha256:1756719486df002fad5dae305c5221513f2ff2d1b49a8d242622a28af0379f19
>> 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\WK-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

☐ 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

3. Create a IBM container registry and deploy helloworld app