

Assignment -4

Docker and Kubernetes

Assignment Date	21 October 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 a web browser with multiple tabs. The active tab is Docker Hub, displaying the repository page for `uifd/ui-for-docker`. The page indicates that the repository is deprecated and suggests using Portainer instead. A Docker Pull Command box shows the command: `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 IP `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 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
c590dd163101ae795bdcea0eb1ddd98f6fe549cb5f24dab9ff7c1931923fc0d
[node1] (local) root@192.168.0.13 ~
$
```

The image displays two screenshots of the 'UI For Docker' web application interface. The top screenshot shows the 'Running Containers' section with a list of containers, including 'beautiful_goldwasser' which is 'Up About a minute'. A 'Status' donut chart is also visible. The bottom screenshot shows the 'Containers created' and 'Images created' line graphs, both showing a count of 1 on the y-axis for the date 21/10/2022 on the x-axis. The interface includes a navigation bar with tabs for Dashboard, Containers, Containers Network, Images, Networks, Volumes, and Info, along with a Refresh button.

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: 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:d097a4907a8ec079df5ac31872359c2de510f82214c0448e926393b376d3b60d 2.22kB / 2.22kB
>> => sha256:54260638d07c5e3ad24c6e21fc889abbc8486a27634c0892086ff71f3f44b104 9.27kB / 9.27kB
>> => sha256:0e29546541cddb309281d21473a9d1db78665c1b95b74f32b009e0b77a6e1e3 54.92MB / 54.92MB
>> => sha256:08020c73b52b92b97d5c07a54fb0f9e21995a296c714b53a32ae67d19231fcd 5.15MB / 5.15MB
>> => sha256:cb5b7ae361722f070eca53f35823ad21baa85d61d5d95cd5a95ab53d740ecd56 10.87MB / 10.87MB
>> => sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793 54.57MB / 54.57MB
>> => sha256:6f9f74896df9a3fe0172f594faba85e0b4e8a0481a0fef9d9112efc7e4d3c78f7 196.51MB / 196.51MB
>> => sha256:5e3b1213efc56598e78bd002983945c164de2a37205e06ac2dada823124dc743 6.29MB / 6.29MB
>> => extracting sha256:0e29546541cddb309281d21473a9d1db78665c1b95b74f32b009e0b77a6e1e3
>> => sha256:9fd0ddfd56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 14.21MB / 14.21MB
>> => extracting sha256:08020c73b52b92b97d5c07a54fb0f9e21995a296c714b53a32ae67d19231fcd 2.35 / 2.35
>> => extracting sha256:cb5b7ae361722f070eca53f35823ad21baa85d61d5d95cd5a95ab53d740ecd56 4.04 / 4.04
>> => sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7 235B / 235B
>> => sha256:c4f42be2be53b900ebffcc040c1df13de538434ccc5f5d954a56848a6169a3a3f 2.21MB / 2.21MB
>> => extracting sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793 27.35 / 27.35
>> => extracting sha256:6f9f74896df9a3fe0172f594faba85e0b4e8a0481a0fef9d9112efc7e4d3c78f7 131.45 / 131.45
>> => extracting sha256:5e3b1213efc56598e78bd002983945c164de2a37205e06ac2dada823124dc743 8.25 / 8.25
>> => extracting sha256:9fd0ddfd56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 11.35 / 11.35
>> => extracting sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7 0.05 / 0.05
>> => extracting sha256:c4f42be2be53b900ebffcc040c1df13de538434ccc5f5d954a56848a6169a3a3f 2.85 / 2.85
>> [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 sha256:1756719486df002fad54ae385c5221513f2ff2d1b49a8d242b22a28af0379f19
>> => 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\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