

Assignment -4

Docker and Kubernetes

Assignment Date	26 October 2022
Student Name	CASSANDRA MARIA MURPHY
Student Roll Number	711719104018
Maximum Marks	2 Marks

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

The screenshot displays the Docker Hub page for the `uifd/ui-for-docker` repository. The page indicates that the repository is deprecated and development has moved to `portainer/portainer`. A Docker Pull Command box shows the command: `docker pull uifd/ui-for-docker`.

Below the Docker Hub page, the Docker Playground interface is shown. It displays the instance ID `cd9an2u3_cd9av060qau0008hbjs0` and the IP address `192.168.0.13`. The instance is running on a node with the IP `192.168.0.13`.

The terminal output shows the following commands and results:

```
# 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 ~
$
```

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




UI For Docker

Dashboard Containers Containers Network Images Networks Volumes Info Refresh

Running Containers

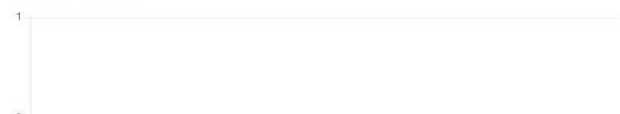
- beautiful_goldwasser Up About a minute

Status




Running Stopped Ghost

Containers created



Images created



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:3.8
-> [auth] library/python:pull token for registry-1.docker.io
-> [Internal] load build context
-> => transferring context: 688B
-> [1/6] FROM docker.io/library/python:3.8@sha256:f852aef86c25f0d22354d547d892591067aa4028a7fa0ad810df9f30aaf6fc
-> resolve docker.io/library/python:3.8@sha256:f852aef86c25f0d22354d547d892591067aa4028a7fa0ad810df9f30aaf6fc
-> sha256:f852aef86c25f0d22354d547d892591067aa4028a7fa0ad810df9f30aaf6fc 1.0kB / 1.0kB
-> sha256:d09744907a6c07f0f5a11872359c2de510f02214c8448e26393b376dbb6d 2.22kB / 2.22kB
-> sha256:5420663807c3e3ad24c6e21fc889abbcb486a27634c0091086ff71f3f44b104 0.27kB / 0.27kB
-> sha256:0e29546d541cdd309201d21a73a9d1db78665c1095b74f32b090e0b77a6e1e3 54.92MB / 54.92MB
-> sha256:00029c73b52b92b97d5c07a54fb0f3e921995a296c714b53a32ae67d10231fcd 5.15MB / 5.15MB
-> sha256:cb5b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d748cdd5e 10.07MB / 10.07MB
-> sha256:04044481162b31c0277c3c322ca463927f0805f569a93e6f16c01a0d710793 54.57MB / 54.57MB
-> sha256:6f9f7489ed923f0122f504fabd5e004e04812a0f00112efc704d0c7997 196.51MB / 196.51MB
-> sha256:5e3b12130fc56598e78b0602981045c164de2a37285e06a620ada823124dc743 6.29MB / 6.29MB
-> extracting sha256:0e29546d541cdd309201d21a73a9d1db78665c1095b74f32b090e0b77a6e1e3
-> sha256:9fddfd56334f2e6efad7a241bf5e7459c40ed105c5478676f41c1244bd90752 14.21MB / 14.21MB
-> extracting sha256:90829c73b52b92b97d5c07a54fb0f3e921995a296c714b53a32ae67d10231fcd 2.35
-> extracting sha256:cb5b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d748cdd5e 4.08
-> sha256:404f02044bac0432ca522cbb9f254b1c91fcea680bfeef0be0b24302f31ba07 235B / 235B
-> sha256:c4f42be2be53b900ebffcc040c1df13de530434ccc5f5d954a5684a6169a3a3f 2.23MB / 2.23MB
-> extracting sha256:64044481162b31c0277c3c322ca463927f0805f569a93e6f16c01a0d710793
-> extracting sha256:6f9f7489ed923f0122f504fabd5e004e04812a0f00112efc704d0c7997 77.35
-> extracting sha256:5e3b12130fc56598e78b0602981045c164de2a37285e06a620ada823124dc743 5.29
-> extracting sha256:9fddfd56334f2e6efad7a241bf5e7459c40ed105c5478676f41c1244bd90752 11.35
-> sha256:404f02044bac0432ca522cbb9f254b1c91fcea680bfeef0be0b24302f31ba07 0.00
-> extracting sha256:c4f42be2be53b900ebffcc040c1df13de530434ccc5f5d954a5684a6169a3a3f 2.25
-> [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 sha256:1756710486df002fad5dae305c5221513f2ff2d1b40a0d242b22a28af0379f19
-> 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>
```

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