

Assignment -4

Docker and Kubernetes

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

The image shows two overlapping screenshots. The top screenshot is a web browser displaying the Docker Hub page for the repository `uifd/ui-for-docker`. The page indicates that the repository is deprecated and development continues at `portainer/portainer`. It shows the Docker Pull Command: `docker pull uifd/ui-for-docker`.

The bottom screenshot shows the Docker Playground interface. On the left, there's a sidebar with a timer at 03:42:30, a 'CLOSE SESSION' button, and a list of instances including '192.168.0.13 node1'. The main area displays the instance details for 'cd9an2u3_cd9av060qau0008hbjs0' with IP '192.168.0.13'. Below this, there's a terminal window showing the following commands and output:

```
[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:fe371ff3a69549269b24073a5ab1244dd4c0b834cbadf244870572150b1eb749
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
c590dd163101ae793bdc0e0eb1ddd98f6fe549cb5f24dab9ff7c1931923fc0d
[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

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Running Containers

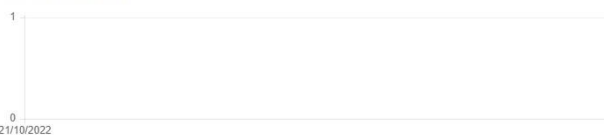
• beautiful_goldwasser Up About a minute

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

The image shows a Windows command prompt window with the following output:

```
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:f8652afaf88c25f0d22354d547d892591067aa026a7fa9ae819df9f300af6fc
-> resolve docker.io/library/python:3.6@sha256:f8652afaf88c25f0d22354d547d892591067aa026a7fa9ae819df9f300af6fc
-> sha256:f8652afaf88c25f0d22354d547d892591067aa026a7fa9ae819df9f300af6fc 1.86kB / 1.86kB
-> sha256:d097e4907a8ec079df5ac31872359c2de510f82214c0448e926393b376d3b60d 2.22kB / 2.22kB
-> sha256:54260638d07c5e3ad24c6e21fc889abbcb486a27634c0892006ff71f3f44b104 9.27kB / 9.27kB
-> sha256:0e29546d541cddb309281d21a73a9d1db78665c1b95b74f32b009e0b77a6e1e3 54.92MB / 54.92MB
-> sha256:9b829c73052b92b07d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd 5.15MB / 5.15MB
-> sha256:c65b7ae361722f070ecae53f35823ed21baa85d61d5d05cd5a959eb33740cdd86 10.87MB / 10.87MB
-> sha256:6494e4811622b31c077ccac322ca463937f0885f599a9366f15c01ade718793 54.57MB / 54.57MB
-> sha256:6f9f74896df993fe0172f504fab85e0b4e8a8481a0fef09112efc7e4d3c78f7 196.51MB / 196.51MB
-> sha256:5e3b1213efc56598e78bd002983945c164de2a37705e06ae2dada823124d743 6.29MB / 6.29MB
-> extracting sha256:0e29546d541cddb309281d21a73a9d1db78665c1b95b74f32b009e0b77a6e1e3
-> sha256:9fdddfdc56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 14.21MB / 14.21MB
-> extracting sha256:9b829c73052b92b07d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd
-> extracting sha256:c65b7ae361722f070ecae53f35823ed21baa85d61d5d05cd5a959eb33740cdd86
-> sha256:484f02044bac0432ca522cbb9f254b1c91fcea680bfeef0be0b743b2f31bab7 235B / 235B
-> sha256:c4f42be2b53b900ebffc040c1df13de538434ccc5f5d954a56848a6160a3a3f 2.21MB / 2.21MB
-> extracting sha256:6494e4811622b31c077ccac322ca463937f0885f599a9366f15c01ade718793
-> extracting sha256:6f9f74896df993fe0172f504fab85e0b4e8a8481a0fef09112efc7e4d3c78f7
-> sha256:5e3b1213efc56598e78bd002983945c164de2a37705e06ae2dada823124d743 8.25
-> extracting sha256:9fdddfdc56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 11.38
-> extracting sha256:484f02044bac0432ca522cbb9f254b1c91fcea680bfeef0be0b743b2f31bab7 0.00
-> extracting sha256:c4f42be2b53b900ebffc040c1df13de538434ccc5f5d954a56848a6160a3a3f 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 sha256:1756719486df002fad5dae305c5221513f2f2d1b49a8d242b22a28af0379f19
-> 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>

The Docker Desktop interface shows the following information:

- Containers: 1
- Images: 1
- Volumes: 0
- Dev Environments: 0
- Extensions: 0

The Images section shows a table with the following data:

NAME	TAG	IMAGE ID	CREATED	SIZE
job-portal-main	latest	1756719486df	less than a minute ago	1.08 GB

The bottom status bar shows: RAM 2.53GB, CPU 1.56%, Connected to Hub, v4.13.0.