

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 two tabs: 'uifd/ui-for-docker - Docker' and 'Docker Playground'. The 'uifd/ui-for-docker' tab displays the Docker Hub page for the repository 'uifd/ui-for-docker'. The page indicates that the repository is deprecated and suggests using Portainer instead. The 'Overview' tab is selected, showing a description of the UI For Docker as a web interface for the Docker Remote API. A 'chat on gitter' button is visible. The 'Tags' tab is also present. The 'Docker Pull Command' section shows the command: `docker pull uifd/ui-for-docker`.

The 'Docker Playground' tab shows a session titled 'cd9an2u3_cd9av060qau0008hbjs0'. The IP address is 192.168.0.13. The 'Instances' section shows a list of instances with the first one being '192.168.0.13 node1'. The 'SSH' section shows the command: `ssh ip172-18-0-4-cd9an2u3tccg00fg6k0@direct.labs.play-w`. The 'DELETED' button is visible. The 'EDITOR' button is also present.

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 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:fe371ff5a69549269b24073a5ab1244dd4c0b834cbad244870572150b1cb749
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
c590d4163101ac795bdeea0eb1dd498f6fe549cb5f24dab9ff7c1931923fc0d
[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: 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
639.11s
-> sha256:f8652afaf88c25f0d22354d547d892591067aa4026a7fa9a6819df9f300af6fc 1.86kB / 1.86kB
-> sha256:d897a4097a8ec079df5ac31872359c2de510f02244c048a9e9203b376d3b66d 2.22kB / 2.22kB
-> sha256:5420683807c5e3adb46621fc889abbcb486a27634c0892086ff71f3f44b104 9.27kB / 9.27kB
-> sha256:0e29546d541cddb309281d21a73a9d1db78665c1b95b74f32b009e0b77a6e1e3 54.92MB / 54.92MB
-> sha256:9b829c73b52b92b07d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd 5.15MB / 5.15MB
-> sha256:cb5b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56 10.87MB / 10.87MB
-> sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793 54.57MB / 54.57MB
-> sha256:6f9f74896dfa93fe0172f594faba85e0b4e8a0481a0fef9d9112efc7e4d3c78f7 196.51MB / 196.51MB
-> sha256:5e3b1213efc56598e78bd002983945c164de2a37205e06a62dada823124dc743 6.29MB / 6.29MB
-> extracting sha256:0e29546d541cddb309281d21a73a9d1db78665c1b95b74f32b009e0b77a6e1e3
27.35s
-> sha256:9fddfd6c56334f2e6efad70241bf5e7459c40ed0105c478076f41c1244b096752 14.21MB / 14.21MB
-> extracting sha256:9b829c73b52b92b07d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd 2.35s
-> extracting sha256:cb5b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56 4.05s
-> sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7 235B / 235B
-> sha256:c4f42be2be53b900ebffcc040c1df13de53843ccc5f5d954a56848a6169a3a3f 2.21MB / 2.21MB
-> extracting sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793 27.35s
-> extracting sha256:6f9f74896dfa93fe0172f594faba85e0b4e8a0481a0fef9d9112efc7e4d3c78f7 131.45s
-> extracting sha256:5e3b1213efc56598e78bd002983945c164de2a37205e06a62dada823124dc743 8.25s
-> extracting sha256:9fddfd6c56334f2e6efad70241bf5e7459c40ed0105c478076f41c1244b096752 11.35s
-> extracting sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7 0.05s
-> extracting sha256:c4f42be2be53b900ebffcc040c1df13de53843ccc5f5d954a56848a6169a3a3f 2.25s
-> [2/6] WORKDIR /app
2.85s
-> [3/6] ADD . /app
2.75s
-> [4/6] COPY requirements.txt /app
2.65s
-> [5/6] RUN python3 -m pip install -r requirements.txt
372.25s
-> [6/6] RUN python3 -m pip install lbm_db
9.75s
-> exporting layers
7.85s
-> writing image sha256:1756719486df002fad5dae305c5221513f2ff2d1b49a8d242b22a28af0379f19
6.85s
-> naming to docker.io/library/job-portal-main
0.15s

```

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

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

Extensions BETA Add Extensions

Use 'd' RAM 2.53GB CPU 1.56% Connected to Hub v4.13.0