

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. The first tab is Docker Hub, displaying the repository page for `uifd/ui-for-docker`. The repository is marked as deprecated, with a note that development continues at `portainer/portainer`. The page shows the repository name, a star icon, and a pull count of 10M+. The second tab is Docker Playground, showing a session titled `cd9an2u3_cd9av060qau0008hbjs0`. The session details include the IP address `192.168.0.13` and the SSH command `ssh ip172-18-0-4-cd9an2u3tccg00fg6k0@direct.labs.play-with-docker.com`. The terminal output shows the following commands and their 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
c590dd163101ae795bdcea0eb1ddd98f6fe549cb5f24dacb9ff7c1931923fc0d
[node1] (local) root@192.168.0.13 ~
$
```

The image displays two screenshots of the 'UI For Docker' web application. The top screenshot shows the 'Running Containers' section with one container named 'beautiful_goldwasser' and a 'Status' donut chart. The bottom screenshot shows the 'Containers created' and 'Images created' sections with line graphs.

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

Running Stopped Ghost

Containers created

1
0
21/10/2022

Images created

1

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 1.06kB / 1.06kB
-> sha256:d097a4097a8ec07bdf5ac31072259c2de510f92214c048a8e26393b376d3b060 2.22kB / 2.22kB
-> sha256:542063807c5e3ad246e211fc089abbcb486a27634c0932086ff71f3f44b104 9.27kB / 9.27kB
-> sha256:0e2954d541cddb3092d1d21e73a9d1b78665c1b95b74f32b009e0b77a6e1e3 54.92MB / 54.92MB
-> sha256:0b029c73652b92b7d5c07e54f0f3e921995a296c714b53a32ae67d19231fcd 5.15MB / 5.15MB
-> sha256:cb5b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56 10.87MB / 10.87MB
-> sha256:6494e4811622b31c027ccac322ca463937fd805f569a93eef15c01aade718793 54.57MB / 54.57MB
-> sha256:6f9f74896df93fe0172f594faba85e0b4e8a0481a0fef9d9112efc7e4d3c78f7 196.51MB / 196.51MB
-> sha256:5e3b1213efc56598e78bd002983045c164de2a37205e06a62dada823124dc743 6.29MB / 6.29MB
-> extracting sha256:0e2954d541cddb3092d1d21e73a9d1b78665c1b95b74f32b009e0b77a6e1e3 27.36
-> sha256:9fd9d50334f2e0efad70241bf5e7d59c40ed105c478870f41c1244b096752 14.21MB / 14.21MB
-> extracting sha256:9b029c73652b92b7d5c07e54f0f3e921995a296c714b53a32ae67d19231fcd 2.35
-> extracting sha256:cb5b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56 4.06
-> sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7 235B / 235B
-> sha256:c4f42be2b053b900ebffcc048c1df13de538434ccc5f5d954a56048a6169a3a3f 2.21MB / 2.21MB
-> sha256:6494e4811622b31c027ccac322ca463937fd805f569a93eef15c01aade718793 27.36
-> extracting sha256:6f9f74896df93fe0172f594faba85e0b4e8a0481a0fef9d9112efc7e4d3c78f7 131.45
-> extracting sha256:5e3b1213efc56598e78bd002983045c164de2a37205e06a62dada823124dc743 8.25
-> extracting sha256:9fd9d50334f2e0efad70241bf5e7d59c40ed105c478870f41c1244b096752 11.35
-> extracting sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7 6.85
-> extracting sha256:c4f42be2b053b900ebffcc048c1df13de538434ccc5f5d954a56048a6169a3a3f 2.75
-> [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
-> writing image sha256:1756719486df002fad5dae305c5221513f2ff2d1b49a8d242b22a28af0379f19
-> 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

parameshwar

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