

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 page indicates that the repository is deprecated and suggests using Portainer instead. The second tab is Docker Playground, showing a new instance named `cd9an2u3_cd9av060qau0008hbjso`. The instance details show the IP address `192.168.0.13` and the SSH command `ssh ip172-18-0-4-cd9an2u3tccg00fgf6k0@direct.labs.play-w`. 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.
#####
[modul] (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
[modul] (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
c590dd163101ae795bdcea0eb1dd98f6fe549cb5f24dab9ff7c1931923fc0d
[modul] (local) root@192.168.0.13 ~
$
```



UI For Docker



Refresh



Running Containers

• beautiful_gottmiser Up About a minute

Status



UI For Docker



Refresh

Running Containers

• beautiful_gottmiser Up About a minute

Status



Running Stopped Ghost

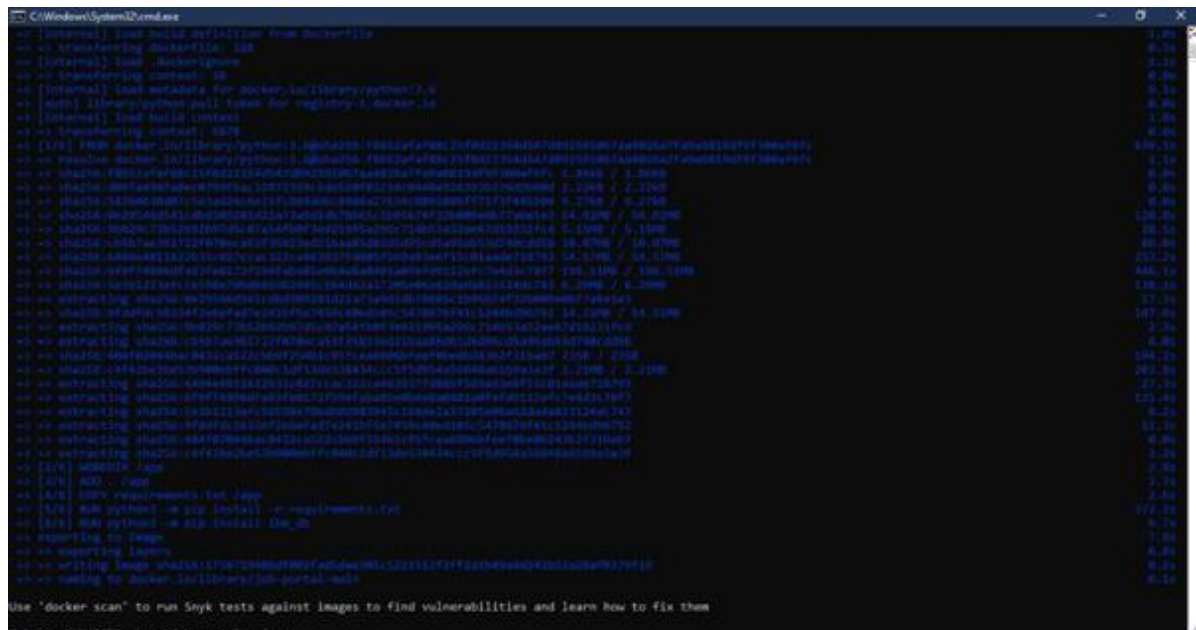
Containers created



Images created



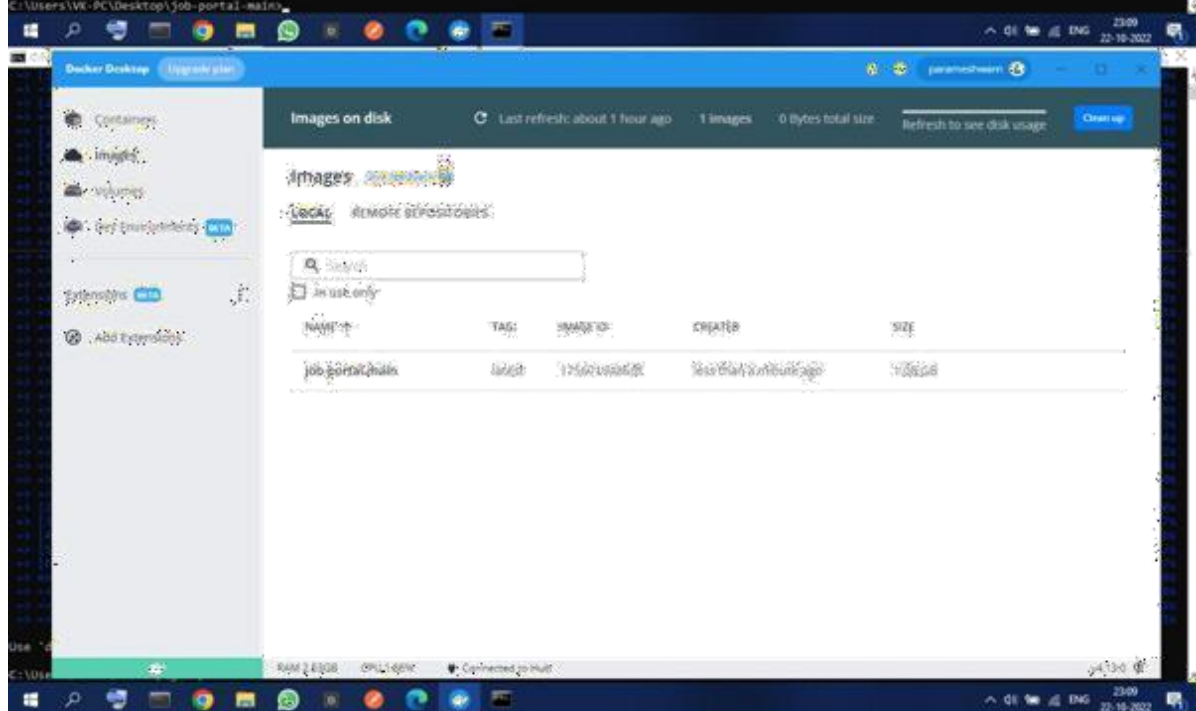
2. Create a docker file for the job portal application and deploy it in Docker desktop application



```
C:\Windows\System32\cmd.exe
[Internal] Load build definition from Dockerfile
--> FROM docker.io/library/python:3.9-slim
--> RUN apt-get update && apt-get install -y gcc g++
--> COPY . /app
--> WORKDIR /app
--> CMD ["python", "main.py"]
--> EXPOSE 8080
--> ENTRYPOINT ["python", "main.py"]
--> HEALTHCHECK --interval=30s --timeout=30s --start-period=30s --retries=3 CMD curl -f http://localhost:8080/health || exit 1
```

Use "docker scan" to run Snyk tests against images to find vulnerabilities and learn how to fix them

C:\Users\VE-PC\Desktop\job-portal-main>



Docker Desktop

Images on disk

Last refresh: about 1 hour ago | 1 images | 0 bytes total size | Refresh to see disk usage | Clean up

Images

Local Remote repositories

Search

In use only

NAME	TAG	IMAGE ID	CREATOR	SIZE
jobportalmain	latest	775d7c9d8d8f	6666666666666666	708.6MB

RAM 2.4GB | CPU 1.6%

C:\Users\VE-PC\Desktop\job-portal-main>