

Assignment -4

Docker and Kubernetes

Assignment Date	5 November 2022
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Maximum Marks	2 Marks

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

The screenshot displays the Docker Playground interface. At the top, the repository 'uifd/ui-for-docker' is shown, with a note that it is deprecated and development continues at 'portainer/portainer'. A 'chat on gitter' button is also visible. The 'Overview' tab is selected, showing a description of the UI For Docker project. To the right, the 'Docker Pull Command' is displayed as 'docker pull uifd/ui-for-docker'.

Below the repository information, the 'Goals' section is visible. The main area shows the 'Instances' list on the left, with one instance named '192.168.0.13 node1'. The right pane shows the details of the selected instance, including its IP address (192.168.0.13), memory, CPU, and SSH access. The 'SSH' section shows the command 'ssh ip172-18-0-4-cd9an2u3tccg00fgf6k0@direct.labs.play-w'.

The terminal window at the bottom shows the following commands and output:

```
# 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
c590dd163101ae795bdcea0eb1ddd98f6fe549cb5f24dadb9ff7c1931923fc0d
(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.

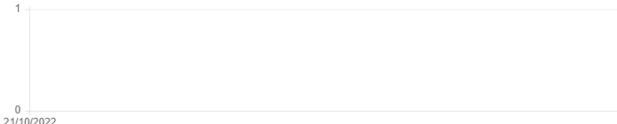
Running Containers

- beautiful_goldwasser Up About a minute

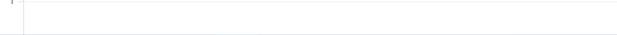
Status



Containers created



Images created



Running Stopped Ghost

20:13 21-10-2022

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 1.86kB / 1.86kB

→ sha256:d897a4907a8ec079df5ac31872359c2de510f02214c04a8e926393b376d3b60d 2.22kB / 2.22kB

→ sha256:5420093007c5e3ad246621fc089abbcb486a27634c0892008ff71f3f44b104 9.27kB / 9.27kB

→ sha256:0e29546d541cddb309291d21a72a9d1db78665c1b95b74f32b089e0b77a6e1e3 54.92MB / 54.92MB

→ sha256:90829c73b52b92b07d5c07a54fb0f3e021905a296c714b53a32ae67d19231fcd 5.15MB / 5.15MB

→ sha256:cb507ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56 10.87MB / 10.87MB

→ sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793 54.57MB / 54.57MB

→ sha256:6f9f74896dfa93fe0172f594faba85e0b4e8a8481a0fef9d9112efc7e4d3c78f7 196.51MB / 196.51MB

→ sha256:5e3b1213efc56598e78bd602983945c164de2a37205e06a62dada823124dc743 6.29MB / 6.29MB

→ extracting sha256:0e29546d541cddb309291d21a72a9d1db78665c1b95b74f32b089e0b77a6e1e3

→ sha256:9fdddfdc56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 14.21MB / 14.21MB

→ extracting sha256:90829c73b52b92b07d5c07a54fb0f3e021905a296c714b53a32ae67d19231fcd 2.35

→ extracting sha256:cb507ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56 4.08

→ sha256:404f02044bac0432ca522cbb9f254b1c91fcea6800bfeef0be0b243b2f31bab7 235B / 235B

→ sha256:c4f42be2be53b900ebffcc040c1df13de538434ccc5f5d954a56048a6169a3a3f 2.21MB / 2.21MB

→ extracting sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793

→ extracting sha256:6f9f74896dfa93fe0172f594faba85e0b4e8a8481a0fef9d9112efc7e4d3c78f7

→ extracting sha256:5e3b1213efc56598e78bd602983945c164de2a37205e06a62dada823124dc743

→ extracting sha256:9fdddfdc56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752

→ extracting sha256:404f02044bac0432ca522cbb9f254b1c91fcea6800bfeef0be0b243b2f31bab7

→ extracting sha256:c4f42be2be53b900ebffcc040c1df13de538434ccc5f5d954a56048a6169a3a3f

→ [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

→ exporting layers

→ writing image sha256:1756719486df002fad5dae395c5221513f2ff2d1b49a8d242b22a28af0379f19

→ 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

☐ 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

3. Create a IBM container registry and deploy helloworld app