

Assignment -4

Docker and Kubernetes

Assignment Date	26 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 displays the Docker Hub interface for the `uifd/ui-for-docker` repository. The repository is marked as deprecated, with a note stating: "This repo is deprecated. Development continues at: portainer/portainer". The Docker Pull Command is shown as `docker pull uifd/ui-for-docker`.

Below the repository page, the Docker Playground interface is visible. It shows a session titled `cd9an2u3_cd9av060qau0008hbjs0` with an IP address of `192.168.0.13`. The interface includes a terminal window where the following commands are executed:

```
# 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:fe371ff5a60549269b24073a5ab1244dd4c0b834cbadf244870572150b1cb749
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
c590dd163101ae795bdcea0eb1ddd98f6fe549cb5f24dab9ff7c1931923fc0d
(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

Dashboard Containers Containers Network Images Networks Volumes Info Refresh

Running Containers

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Status



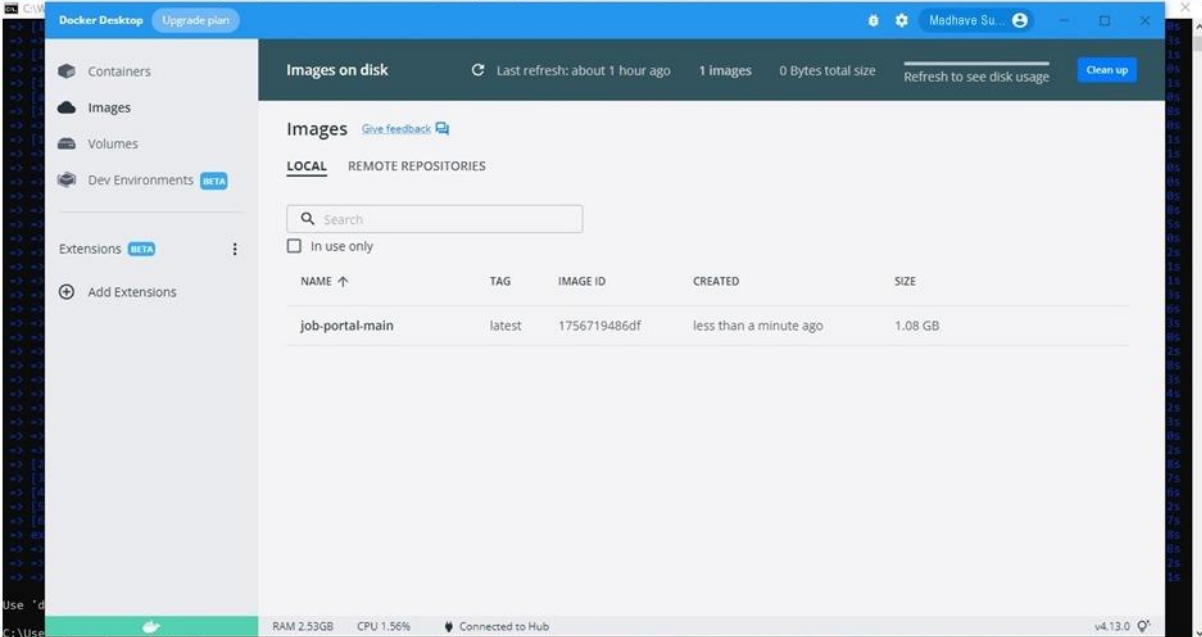
Containers created

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
-> 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:f8652afa88c25f0d22354d547d802501007aa4026a7fa9a6819df9f30aaf6fc
-> resolve docker.io/library/python:3.6@sha256:f8652afa88c25f0d22354d547d802501007aa4026a7fa9a6819df9f30aaf6fc
-> sha256:f8652afa88c25f0d22354d547d802501007aa4026a7fa9a6819df9f30aaf6fc 1.8kB / 1.8kB
-> sha256:a0974a987a8ec0789df5a11872359c2d6510f82214c8448a026303b376d3b6a0d 2.22kB / 2.22kB
-> sha256:5426663807c5a3ad24c6e21fc889abbc8486a27634c009200a7f71f3f4ab104 9.22kB / 9.22kB
-> sha256:0a29544d541cd0d309281d21a73a9d1db78665c1095b74f32b009e077ee1e3 54.92MB / 54.92MB
-> sha256:90829c73b52b92b0705c07a54fb0f3e921995a296c714b53a32aeb7d19231fcd 5.15MB / 5.15MB
-> sha256:cb5b7ae31722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56 10.87MB / 10.87MB
-> sha256:0494e4811622b31c027ccac322ca463937fd005f569a9366f15c01aade718793 54.57MB / 54.57MB
-> sha256:09f774896df93fe0172f594fab85e0b4e0a481a0ef09112efc7e4d3c78f7 196.51MB / 196.51MB
-> sha256:5a3b213eefc6590b70d600281945c164de2a37709e0c02c6da873124dc743 6.29MB / 6.29MB
-> extracting sha256:0a29544d541cd0d309281d21a73a9d1db78665c1095b74f32b009e077ee1e3 27.35
-> sha256:9fd9fd56334f2e6efad7e241bf5e7459c48ed185c547867641c1244b096752 14.21MB / 14.21MB
-> extracting sha256:90829c73b52b92b0705c07a54fb0f3e921995a296c714b53a32aeb7d19231fcd 2.35
-> extracting sha256:cb5b7ae31722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56 4.85
-> sha256:404f02044bac8432ca522cbb0f254b1c91fcea6800bfeef0be0b243b2f31bab7 235B / 235B
-> sha256:c442be2be53b900ebffcc048c1df13de53843ccc5f5d954a56848a6169a3a3f 2.21MB / 2.21MB
-> extracting sha256:0494e4811622b31c027ccac322ca463937fd005f569a9366f15c01aade718793 27.35
-> extracting sha256:09f774896df93fe0172f594fab85e0b4e0a481a0ef09112efc7e4d3c78f7 131.45
-> extracting sha256:5a3b213eefc6590b70d600281945c164de2a37709e0c02c6da873124dc743 8.25
-> extracting sha256:9fd9fd56334f2e6efad7e241bf5e7459c48ed185c547867641c1244b096752 13.35
-> extracting sha256:404f02044bac8432ca522cbb0f254b1c91fcea6800bfeef0be0b243b2f31bab7 0.40
-> extracting sha256:c442be2be53b900ebffcc048c1df13de53843ccc5f5d954a56848a6169a3a3f 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 llw_db
-> exporting to image
-> writing image sha256:1756710486df001fad5dae305c5221513f3ff2d1b49a0d242b22a28af0379f19
-> 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>
```



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

3. Create a IBM container registry and deploy helloworld app