

ASSIGNMENT - 4

DOCKER AND KUBERNETES

Assignment Date	21 OCTOBER 2022
Student Name	M .AAISHA
Team Id	PNT2022TMID36938
Project Name	Smart Fashion Recommender Application

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

The image shows a two-part screenshot. The top part is a browser window displaying the Docker Hub page for the repository `uifd/ui-for-docker`. The page indicates that the repository is deprecated and suggests using Portainer instead. It shows the Docker Pull Command as `docker pull uifd/ui-for-docker`. The bottom part is a screenshot of the Docker Playground interface. It shows a terminal window where the user has successfully pulled the `uifd/ui-for-docker` image and run it with the command `docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker`. The terminal output shows the image being pulled and the container running.

Docker Hub Page:

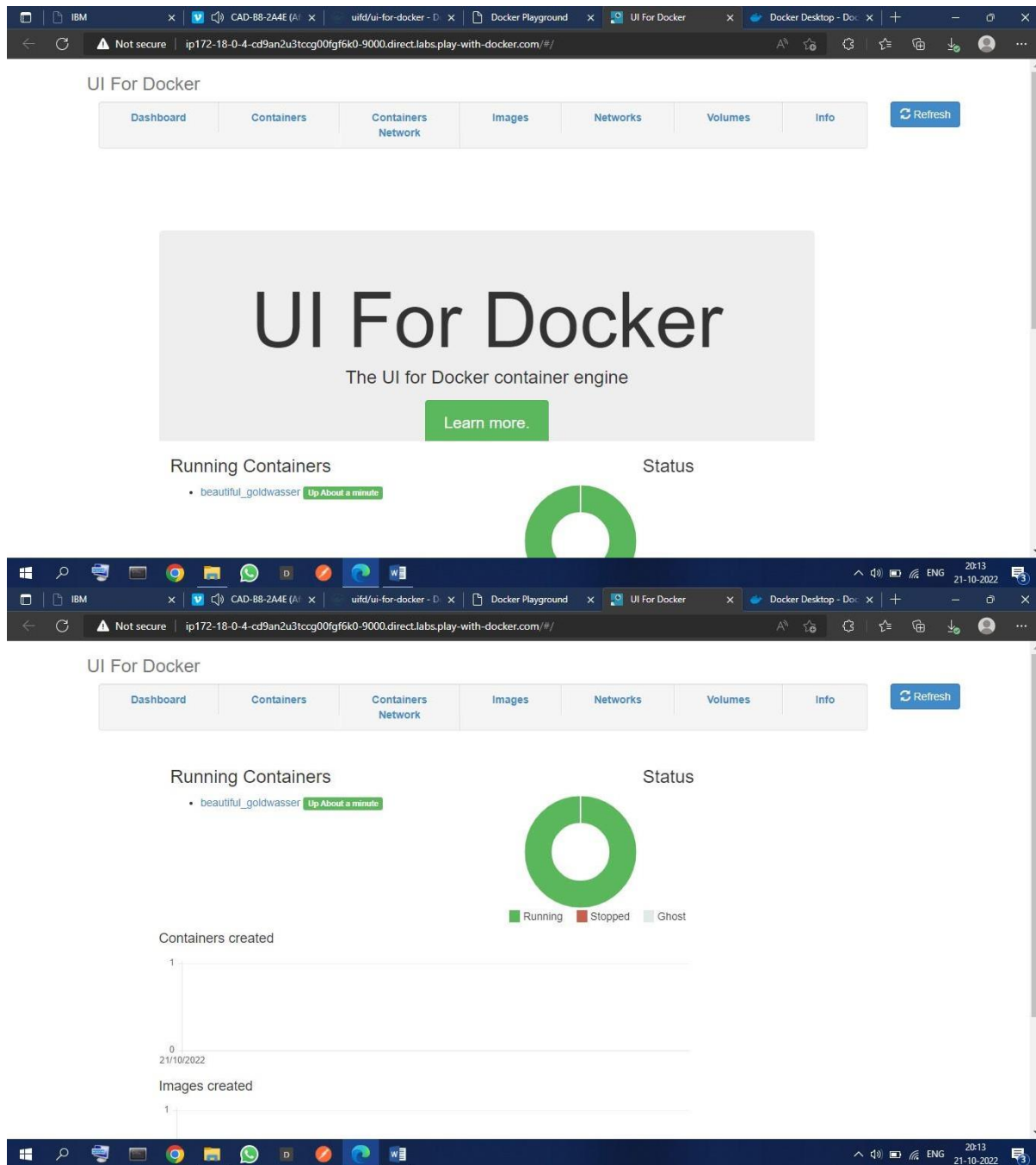
- Repository: `uifd/ui-for-docker`
- By: `uifd` • Updated 6 years ago
- Description: A web interface for Docker, formerly known as DockerUI. Deprecated, use Portainer for new features.
- Docker Pull Command: `docker pull uifd/ui-for-docker`

Docker Playground Interface:

- Instance Name: `cd9an2u3_cd9av060qau0008hbjs0`
- IP: `192.168.0.13`
- Memory: `192.168.0.13`
- CPU: `node1`
- SSH: `ssh ip172-18-0-4-cd9an2u3tccg00fg6k0@direct.labs.play-w`
- Terminal Output:

```
# 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: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
c590dd163101ae795bdcea0eb1ddd98f6f6e549cb5f24dab9ff7c1931923fc0d
[node1] (local) root@192.168.0.13 ~
$
```

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



3. Create an IBM container registry and deploy hello word app

The screenshot displays the Docker Desktop interface. The top pane shows the output of a Docker build command, which includes the following steps:

- 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
- FROM docker.io/library/python:3.6@sha256:f852afaf88c25f0d22354d547d892591067aa4076a7f99a6819df9f308af6fc
- resolve docker.io/library/python:3.6@sha256:f852afaf88c25f0d22354d547d892591067aa4076a7f99a6819df9f308af6fc
- sha256:f852afaf88c25f0d22354d547d892591067aa4076a7f99a6819df9f308af6fc: 1.86kB / 1.86kB
- sha256:d9974a997a8ec679df5ac31872359c2de510f82214c8448e926393b376d3b60d: 2.22kB / 2.22kB
- sha256:54266638007c5e3ad24c6e21fc889abbcb486a27634c8092086ff7f13f44b104: 9.27kB / 9.27kB
- sha256:0e29546d541cddb309281d21a73a9d1db78665c1b95b74f32b009a0b77ae1e3: 54.92MB / 54.92MB
- sha256:9b829c73b52b92b97d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd: 5.15MB / 5.15MB
- sha256:cb5b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56: 10.87MB / 10.87MB
- sha256:6494e4011622b31c027ccac322ca463937fd805f560a93a6f15c01aade718793: 54.57MB / 54.57MB
- sha256:6f9774896df92f0e17f594fabaa5e04a0a4a1a0ef09112efc74403c7077: 196.51MB / 196.51MB
- sha256:5e3b1213efc550b078dd001983045164d02a37205e06a320adb23124dc743: 0.29MB / 0.29MB
- extracting sha256:0e29546d541cddb309281d21a73a9d1db78665c1b95b74f32b009a0b77ae1e3: 27.3%
- sha256:9fd9dfdc5633af2e6efad7a241bf5e7459c40ed195c5478676f41c1244bd96752: 14.21MB / 14.21MB
- extracting sha256:9b829c73b52b92b97d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd: 2.3%
- extracting sha256:cb5b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56: 4.0%
- sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7: 235B / 235B
- sha256:c4f42be2be53b900ebffcc040c1df13de538434ccc5f5d954a56848a6169a3a3f: 2.21MB / 2.21MB
- extracting sha256:6494e4011622b31c027ccac322ca463937fd805f560a93a6f15c01aade718793: 27.3%
- extracting sha256:6f9774896df92f0e17f594fabaa5e04a0a4a1a0ef09112efc74403c7077: 121.4%
- extracting sha256:5e3b1213efc550b078dd001983045164d02a37205e06a320adb23124dc743: 8.2%
- sha256:9fd9dfdc5633af2e6efad7a241bf5e7459c40ed195c5478676f41c1244bd96752: 11.3%
- extracting sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7: 0.0%
- extracting sha256:c4f42be2be53b900ebffcc040c1df13de538434ccc5f5d954a56848a6169a3a3f: 2.2%
- [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 sha256:1756719486df002fad5dae305c5221513f2ff2d1b49a8d242b22a28af0379f19
- 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

The bottom pane shows the Docker Desktop interface with the following information:

- Containers: 11
- Images: 11
- Volumes: 11
- 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
- Search:
- In use only
- Table with 5 columns: NAME, TAG, IMAGE ID, CREATED, SIZE
- Table with 1 row: job-portal-main, latest, 1756719486df, less than a minute ago, 1.08 GB
- RAM: 2.53 GB, CPU: 1.56%, Connected to Hub, v4.13.0