


## Assignment -4

### Docker and Kubernetes

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

Explore

uifd/ui-for-docker



**uifd/ui-for-docker** ☆

Pulls 10M+

By [uifd](#) • Updated 6 years ago

A web interface for Docker, formerly known as DockerUI. Deprecated, use Portainer for new features.

OtherImage

OverviewTags

### UI For Docker

This repo is deprecated. Development continues at: [portainer/portainer](#)

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UI For Docker is a web interface for the Docker Remote API. The goal is to provide a pure client side implementation so it is effortless to connect and manage docker.

#### Goals

### Docker Pull Command

```
docker pull uifd/ui-for-docker
```

03:42:30

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.13  
node1

cd9an2u3\_cd9av060qau0008hbjs0

IP  
192.168.0.13

OPEN PORT

MemoryCPU

SSH  
ssh ip172-18-0-4-cd9an2u3tccg00fgf6k0@direct.labs.play-w

DELETEEDITOR

```
# 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
c590dd163101ae795bdcea0eb1dd98f6fe549cb5f24dadb9ff7c1931923fc0d
[node1] (local) root@192.168.0.13 ~
$
```

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

The screenshot displays the UI For Docker web interface in a browser window. The browser's address bar shows the URL: `ip172-18-0-4-cd9an2u3tccg00fgf6k0-9000.direct.labs.play-with-docker.com/#/`. The interface features a navigation bar with tabs: Dashboard, Containers, Containers Network, Images, Networks, Volumes, and Info. A 'Refresh' button is located on the right. The main content area has a large header 'UI For Docker' with the subtitle 'The UI for Docker container engine' and a 'Learn more.' button. Below this, the 'Running Containers' section lists a container named 'beautiful\_goldwasser' with a status of 'Up About a minute'. The 'Status' section shows a green donut chart representing the system's health. At the bottom, there are two line graphs: 'Containers created' and 'Images created', both showing a count of 1 on the y-axis and the date '21/10/2022' on the x-axis. A legend for the status chart indicates 'Running' (green), 'Stopped' (red), and 'Ghost' (grey).

### 3. Create an IBM container registry and deploy helloworld app

```
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:d097a4907a8ec079df5ac31872359c2de510f82214c0448e926393b376d3b60d 2.22kB / 2.22kB
-> => sha256:54260638d07c5e3ad24c6e21fc889abb8486a27634c0892086ff71f3f44b104 9.27kB / 9.27kB
-> => sha256:0e29546d541cddb309281d21a73a9d1db78665c1b95b74f32b009e0b77a6e1e3 54.92MB / 54.92MB
-> => sha256:90829c73b52b92b97d5c07a54fb0f3e921995a296c714b53a2ae67d19231fcd 5.15MB / 5.15MB
-> => sha256:cb507ae361722f070ec93f95923ed21bae85d61d5d95cd5a95ab53d740cdd56 10.87MB / 10.87MB
-> => sha256:6494a481162b31c027ccac322ca463937fd805f569a92e6f15c01aade718793 54.57MB / 54.57MB
-> => sha256:6f9f74896df93fe0172f594faba85e0b4e8a0481a0fef9d9112efc7e4d3c78f7 196.51MB / 196.51MB
-> => sha256:5e3b1213efc56598e78bd602983945c164de2a37205e06a62dada823124dc743 6.29MB / 6.29MB
-> => extracting sha256:0e29546d541cddb309281d21a73a9d1db78665c1b95b74f32b009e0b77a6e1e3
-> => sha256:9fd9ddfd56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 14.21MB / 14.21MB
-> => extracting sha256:9b829c73b52b92b97d5c07a54fb0f3e921995a296c714b53a2ae67d19231fcd
-> => extracting sha256:cb507ae361722f070ec93f95923ed21bae85d61d5d95cd5a95ab53d740cdd56
-> => sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7 235B / 235B
-> => sha256:c4f42be2be53b900ebff040c1df13de538434cc5f5d954a56848a6169a3a3f 2.21MB / 2.21MB
-> => extracting sha256:6494a481162b31c027ccac322ca463937fd805f569a92e6f15c01aade718793
-> => extracting sha256:6f9f74896df93fe0172f594faba85e0b4e8a0481a0fef9d9112efc7e4d3c78f7
-> => extracting sha256:5e3b1213efc56598e78bd602983945c164de2a37205e06a62dada823124dc743
-> => extracting sha256:9fd9ddfd56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752
-> => extracting sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7
-> => extracting sha256:c4f42be2be53b900ebff040c1df13de538434cc5f5d954a56848a6169a3a3f
-> [2/6] WORKDIR /app
-> [3/6] ADD . /app
-> [4/6] COPY requirements.txt /app
-> [5/6] RUN python2 -m pip install -r requirements.txt
-> [6/6] RUN python3 -m pip install ibm_db
-> exporting to image
-> => exporting layers
-> => writing image sha256:1756719486df02fad5dae305c5221513f2ff2d1b49a8d242b22a28af0379f19
-> => 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\Desktop\job-portal-main>
```

The screenshot shows the Docker Desktop application window. The main panel is titled 'Images on disk' and shows a list of local images. Under the 'LOCAL' tab, there is one image named 'job-portal-main' with the tag 'latest'. The image ID is '1756719486df' and it was created 'less than a minute ago'. The size of the image is '1.08 GB'. The interface also includes a sidebar on the left with navigation options like 'Containers', 'Images', 'Volumes', and 'Dev Environments'. The top bar shows the user 'parameshwam' and system status like 'RAM 2.53GB' and 'CPU 1.56%'. The bottom status bar shows 'Connected to Hub' and 'v4.13.0'.