

Assignment -4
Docker and Kubernetes

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|---------------------|-----------------|
| Assignment Date | 21 October 2022 |
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| Student Roll Number | 721919104022 |
| Maximum Marks | 2 Marks |


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

IBM x CAD-B8-2A4E (Afternoo x uifd/ui-for-docker - Docker l x Docker Playground x Docker Desktop - Docker x + -

https://hub.docker.com/u/uifd/ui-for-docker

dockerhub uifd/ui-for-docker Explore Repositories Organizations Help Upgrade

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.

Other Image

Overview Tags

UI For Docker

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

[chat on gitter](#)

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

Memory CPU

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

DELETE EDITOR

```
# 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  
e590dd163101ae795bdeea0eb1dd98f6fe549cb5f24dab9ff7c1931923fc0d  
[node1] (local) root@192.168.0.13 ~  
$
```

UI For Docker

Dashboard Containers Containers Network Images Networks Volumes Info Refresh

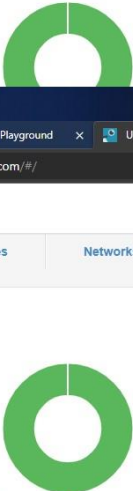
UI For Docker

The UI for Docker container engine

Learn more.

Running Containers Status

- beautiful_goldwasser Up About a minute



Containers created

Images created

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: 887B
>> [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:d097a4907a8ec079df5ac31872359c2de510f82214c0448e926393b376d3b0d0 2.22kB / 2.22kB
>> sha256:54200638d07c5e3ad24c6e21fc889abbc8486a27634c0892006ff71f3f44b104 0.27kB / 0.27kB
>> sha256:0e29546d541cddb309261d21a73e9ad1db7665c1b95b74f32b009e0b7796e1e3 54.92MB / 54.92MB
>> sha256:0e829c73b52b92b9705c07a54f0e3a021095a296c714b33a32ae67d19231fcd 5.15MB / 5.15MB
>> sha256:cb5b7ae361722f070ecac53f35823ad21baa85d61d5d95cd5a95ab53d740ecd56 10.87MB / 10.87MB
>> sha256:6404e4811622b31c027ccac322ca463937fd805f569a93eeff15c01aade718793 54.57MB / 54.57MB
>> sha256:6f9f74896dfa93fe0172f594fab85e0b4e8a0481a0fef09112efc7e4d3c78f7 196.51MB / 196.51MB
>> sha256:5e3b1213efc56598e78bd002983945c164de2a37205e06ae2dada823124dc743 6.29MB / 6.29MB
>> extracting sha256:0e29546d541cddb309261d21a73e9ad1db7665c1b95b74f32b009e0b7796e1e3
>> sha256:9fdddfdc56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 14.21MB / 14.21MB
>> extracting sha256:0e829c73b52b92b97d5c07a54f0e3a021095a296c714b33a32ae67d19231fcd 2.35
>> extracting sha256:cb5b7ae361722f070ecac53f35823ad21baa85d61d5d95cd5a95ab53d740ecd56 4.00
>> sha256:404f02044bac0432ca522cbb9f254b1c91fcae800bfeef0be0b243b2f31bab7 235B / 235B
>> sha256:c4f42be2be53b000ebffcc040c1df13de538434ccc5f5d954a5684ba6169a3a3f 2.21MB / 2.21MB
>> extracting sha256:6404e4811622b31c027ccac322ca463937fd805f569a93eeff15c01aade718793 27.35
>> extracting sha256:6f9f74896dfa93fe0172f594fab85e0b4e8a0481a0fef09112efc7e4d3c78f7 131.48
>> extracting sha256:5e3b1213efc56598e78bd002983945c164de2a37205e06ae2dada823124dc743 8.25
>> extracting sha256:9fdddfdc56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 11.35
>> extracting sha256:404f02044bac0432ca522cbb9f254b1c91fcae800bfeef0be0b243b2f31bab7 0.05
>> extracting sha256:c4f42be2be53b000ebffcc040c1df13de538434ccc5f5d954a5684ba6169a3a3f 2.85
>> [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 sha256:1756719486df002fad5dae385c5221513f2ff2d1b49a8d242b22a28af0379f19
>> 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

Containers Images Volumes Dev Environments

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

| 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