

Assignment 4

Docker and Kubernetes


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|---------------------|-----------------|
| Assignment Date | 21 October 2022 |
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| Student Roll Number | CITC1905056 |
| Maximum Marks | 2 Marks |

Questions:

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.

Image

Overview

Tags

UI For Docker

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

chat on github

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

- Minimal dependencies - I really want to keep this project a pure html/js app.

Docker Pull

Pull command copied

`docker pull uifd/ui-for-docker`

cdlmmg63_cdlmmhm3tccg00aeik6g

IP

192.168.0.18

OPEN PORT

Memory

1.61% (64.32MiB / 3.906GiB)

CPU

4.05%

SSH

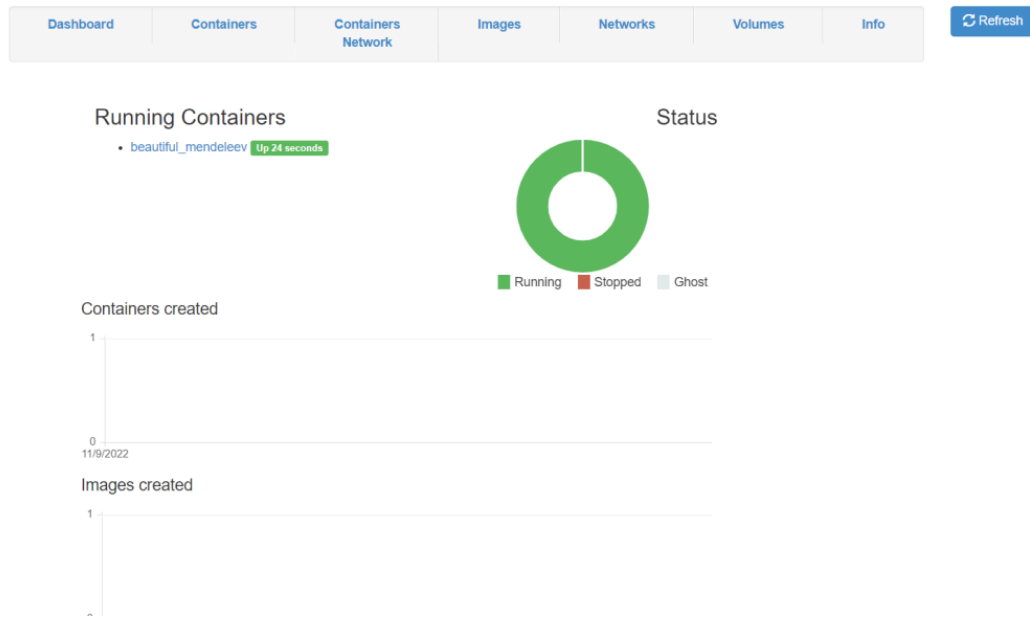
ssh ip172-18-0-4-cdlmmg63tccg00aeik60@direct.labs.play

DELETE

EDITOR

```
#####
#                               #
#   WARNING!!!!                #
#   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@192.168.0.18 ~
$ 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@192.168.0.18 ~
$ docker run -d --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
a975f965820f7df6e86f25151825f418f0f258eed7a4e405516eb31ae22cd366
(node1) (local) root@192.168.0.18 ~
$
```

UI For Docker



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

```
Dockerfile
1
2 FROM python
3 WORKDIR /ibmlast
4 COPY requirements.txt requirements.txt
5 RUN /usr/local/bin/python -m pip install --upgrade pip
6 RUN /usr/local/bin/python -m pip install ibm_db
7 RUN /usr/local/bin/python -m pip install flask
8 ENV IBM_DB_HOME /ibmlast/db2_license/licenses/clidriver
9 ENV LD_LIBRARY_PATH /ibmlast/db2_license/licenses/clidriver/lib:$LD_LIBRARY_PATH
10 EXPOSE 5000
11 COPY . .
12 CMD [ "python3", "-m", "flask", "--debug", "run" ]
13
```

Build Log Dashboard

```
Step 9/11 : EXPOSE 5000
---> Using cache
---> 22526517563c
Step 10/11 : COPY . .
---> 933590780154
Step 11/11 : CMD [ "python3", "-m", "flask", "--debug", "run" ]
---> Running in 720bc49aaf0f
Removing intermediate container 720bc49aaf0f
---> 38233b69867f

Successfully built 38233b69867f
Successfully tagged jobportal:latest
'jobportal Dockerfile: Dockerfile' has been deployed successfully.
```

