

## Assignment -4

### Docker and Kubernetes

Assignment Date	09 November 2022
Student Name	kavinandhini U
Student Roll Number	421619104036
Maximum Marks	2 Marks

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

The image shows a two-part process. The top part is a screenshot of the Docker Hub website for the repository `uifd/ui-for-docker`. It indicates the repository is deprecated and suggests using Portainer. The bottom part is a screenshot of the Docker Playground interface. It shows a terminal window where the command `docker pull uifd/ui-for-docker:latest` is executed, followed by `docker run -d -p 3000:3000 --privileged --name /var/run/docker.sock /var/run/docker.sock uifd/ui-for-docker`. The terminal output shows the image being pulled from Docker Hub and the container being created and started.

**Docker Hub Screenshot:**

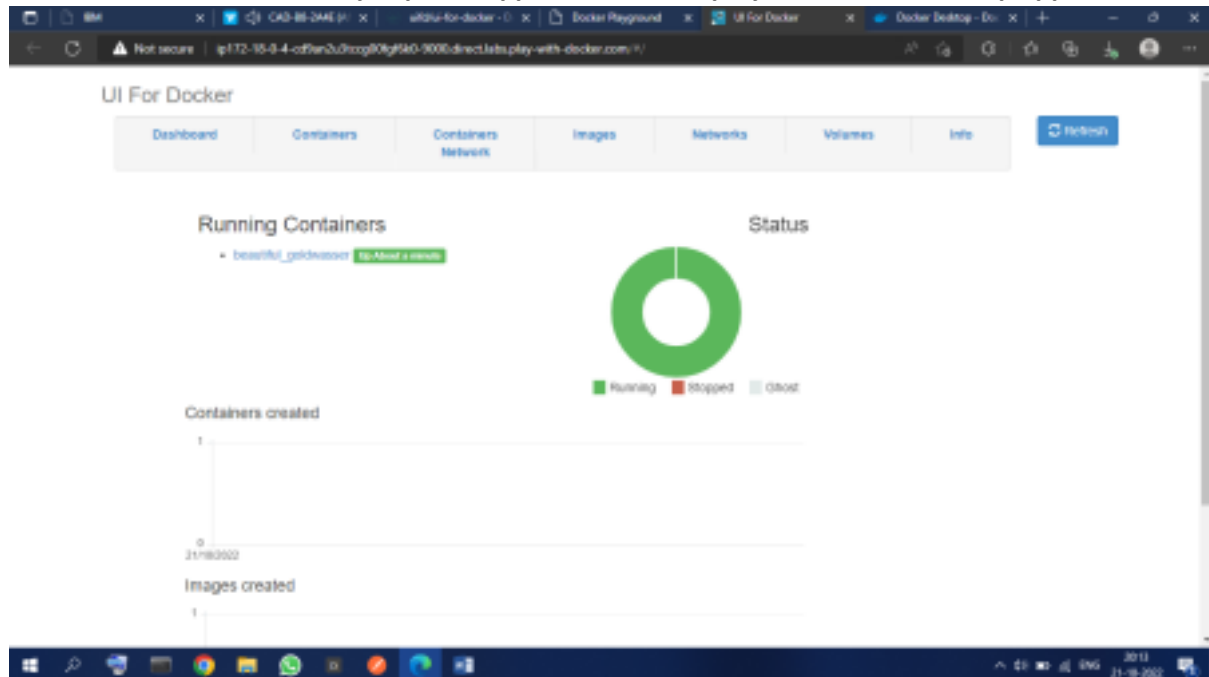
- Repository: `uifd/ui-for-docker`
- Status: By `uifd` • Updated 6 years ago
- Description: A web interface for Docker, formerly known as DockerUI. Deprecated, use Portainer for new features.
- Tags: Overview, Tags
- UI For Docker: This repo is deprecated. Development continues at: [portainer/portainer](#)
- Docker Pull Command: `docker pull uifd/ui-for-docker:latest`

**Docker Playground Screenshot:**

- Session ID: `cd9an2u3_cd9av060qau0008hbj50`
- IP: `192.168.8.13`
- Memory: 512MB
- CPU: 100%
- SSH: `ssh -p 172-18-0-4 cd9an2u3@cd9av060qau0008hbj50`
- Terminal Output:

```
This is a sandbox environment. Using personal credentials is HIGHLY discouraged. Any consequences of doing so are completely the user's responsibility.
The FNC team.
=====
root@192.168.8.13 ~
# docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
84194d080d8: Pull complete
Digest: sha256:fe371225a6954924973a5ab1244ddc0b634cbad244878572159b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
root@192.168.8.13 ~
# docker run -d -p 3000:3000 --privileged --name /var/run/docker.sock /var/run/docker.sock uifd/ui-for-docker
c5904d1c3101ae795b0ceaf6b3d49f6f6549cb5f246dcb9f17c1931503fcd8
root@192.168.8.13 ~
```

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



```
sha256:4517380049fc3c9aacceae7764fcf3500354b0ac8a47e4afb35b5b 1.16kB / 1.16kB ( 6
bb6d28039b8ceec9aa8d9032f9aa640a792a60c2cb1644691627bf0 6.58kB / 6.58kB 0.0
=> =>
sha256:df9b9388f04ad6279a7410b85cedfdbc2208c0a003da7ab5613af7 2.81MB / 2.81MB 6.4s
=> => sha256:3bf6d738020517f4622814e8c21db4b4aaa78ae7cab4e4f872c1 4.19MB / 24.91MB 23.1s
=> => extract
ng sha256:df9b9388f04ad6279a7410b85cedfdbc2208c0a003da7ab5613af710791 1.1s
=> => sha256:7939e601ee5e4737cf7fdb6d1dfe31ca4c2697109290462f69471 1.05MB / 2.36MB 23.1s
=> => sha256:31f0fb9de071269230cb0f786012ae4e81d26e489b1fe922e57b5201e6 451B / 451B 8.2s[+] Bui
[+] Building 99.1s (23/27)
=> => sha256:121e2d9f6af29eabd4ae2a52625c5a00d1208589259c989b4842f82b29aceff9 625B / 625B 1.5s
=> => sha256:6a07d505af0fac2dc907688187e796549a8d294dac1fa4ef0dbdcfea640b2f9b 960B / 960B 1.4sn
=> => sha256:3e8957b70867da3e0f1f0a51f96c3c666fefb635648f6dc168f8fbc1b58e72c7 773B / 773B 2.0se
=> => sha256:2806408d582ebcf09c12dc43d07148e367d606a72116630d31ed472feb5 1.41kB / 1.41kB 2.2s
=> => extracting sha256:ae98275d0ecb61b725943a77d453c4de98444b1752482861a5c1e57e350a70b5 2.4sn
=> => extracting sha256:121e2d9f6af29eabd4ae2a52625c5a00d1208589259c989b4842f82b29aceff9 0.0s
=> => extracting sha256:6a07d505af0fac2dc907688187e796549a8d294dac1fa4ef0dbdcfea640b2f9b 0.0s>
=> => extracting sha256:3e8957b70867da3e0f1f0a51f96c3c666fefb635648f6dc168f8fbc1b58e72c7 0.0s
=> => extracting sha256:2806408d582ebcf09c12dc43d07148e367d606a72116630d31ed472feb59d62 0.0s>
=> [internal] load build context
=> => transferring context: 10.45MB
=> [base 1/4] FROM docker.io/library/python:alpine@sha256:2a068b9442f61f4480306d44e3b166 29.9s
=> => resolve docker.io/library/python:alpine@sha256:2a068b9442f61f4480306d44e3b166bfe334 0.2s>
=> => sha256:2a068b9442f61f4480306d44e3b166bfe3343761e9bd57c38f66302ebf28 1.65kB / 1.65kB 0.0s
=> => sha256:610aac6d972a31b2d4174a8b260e2cdf69de2d73cf03f4131ca24e61157f 1.37kB / 1.37kB 0.0s>
=> => sha256:5f9e8f452a5cfbe2a8c89fe59891ce54792be85da888fale8a7e12f1870d 7.03kB / 7.03kB 0.0s
=> => sha256:47858aee13bf9c7c2b62cfaccdc9ce2524efef339df0c0ed8935c65 673.19kB / 673.19kB 11.4s>
=> => sha256:975aa27f4e8a241efc1693410f46b3d9c096c5457d25ab3a88f2b9cb6 13.00MB / 13.00MB 25.3s
=> => extracting sha256:47858aee13bf9c7c2b62cfaccdc9ce2524efef339df0c0ed8935c6587a376d60 1.4s>
=> => sha256:6a71c7b1785ee86f214d01b35ce433602ca768e44d0543e73f8b5296a8a9741 230B / 230B 12.7s6
=> => sha256:0002f9a00c2bf5e9c29cb0a37b5fba6b2827de51b8c98846c8bd25f208b 3.06MB / 3.06MB 18.4s
=> => extracting sha256:975aa27f4e8a241efc1693410f46b3d9c096c5457d25ab3a88f2b9cb699871a1 2.9s
=> => extracting sha256:6a71c7b1785ee86f214d01b35ce433602ca768e44d0543e73f8b5296a8a97418 0.0s]
=> => extracting sha256:0002f9a00c2bf5e9c29cb0a37b5fba6b2827de51b8c98846c8bd25f208be23c7 0.5sc
=> [base 2/4] WORKDIR /app 1.3si
=> [base 3/4] COPY requirements.txt . 0.5sy
=> [base 4/4] RUN pip install -r requirements.txt 59.2s1
=> => # Building wheel for PyYAML (pyproject.toml): finished with status 'done' d
=> => # Created wheel for PyYAML: filename=PyYAML-6.0-cp311-cp311-linux_x86_64.whl size=453308
=> => # sha256=4fcdb0cb2477a9c76c1bd6747ae21b5ec4fb604485d4a66b4415d7ae37b4381b 8
=> => # Stored in directory: /root/.cache/pip/wheels/e4/64/08/efad557443d4ad855cd74372fe1906f
=> => # 8c800bcfa611ea50df6
=> => # Building wheel for watchdog (setup.py): started
```

### 3.Create a IBM container registry and deploy hello world app

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19044.1682]
(c) Microsoft Corporation. All rights reserved.

C:\Users\dell>wsl --install
Copyright (c) Microsoft Corporation. All rights reserved.

Usage: wsl.exe [Argument] [Options...] [CommandLine]

Arguments for running Linux binaries:

    If no command line is provided, wsl.exe launches the default shell.

    --exec, -e <CommandLine>
        Execute the specified command without using the default Linux shell.

    --
        Pass the remaining command line as is.

Options:
    --cd <Directory>
        Sets the specified directory as the current working directory.
        If ~ is used the Linux user's home path will be used. If the path begins
        with a / character, it will be interpreted as an absolute Linux path.
        Otherwise, the value must be an absolute Windows path.

    --distribution, -d <Distro>
        Run the specified distribution.

    --user, -u <UserName>
        Run as the specified user.

Arguments for managing Windows Subsystem for Linux:

    --help
        Display usage information.

    --install [Options]
        Install additional Windows Subsystem for Linux distributions.
        For a list of valid distributions, use 'wsl --list --online'.

Options:
```

