

## Docker and Kubernetes

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

The image shows a two-part workflow. The top part is a screenshot of the Docker Hub repository page for `uifd/ui-for-docker`. The repository is marked as deprecated, with a note stating 'This repo is deprecated. Development continues at: portainer/portainer'. A 'chat on gitter' button is visible. The 'Overview' tab is selected, showing a description: '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.' A 'Tags' section is also present. A 'Docker Pull Command' box displays the command: `docker pull uifd/ui-for-docker`.

The bottom part is a screenshot of the Docker Playground interface. The top bar shows the session ID `cd9an2u3_cd9av060qau0008hbjs0` and the IP address `192.168.0.13`. The 'Instances' section on the left shows a list of instances, including one named `node1` with IP `192.168.0.13`. The main terminal area shows the following commands and output:

```
# 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
641194d080c8: 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
c590dd163101ae795bdcea0eb1ddd98f6fe549cb5f24dcb9ff7c1931923fc0d
(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

- beautiful\_goldwasser Up About a minute

Status




UI For Docker

Dashboard Containers Containers Network Images Networks Volumes Info Refresh

Running Containers

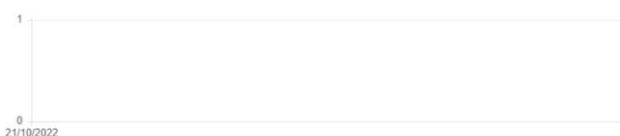
- beautiful\_goldwasser Up About a minute

Status




Running Stopped Ghost

Containers created



Images created



## 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: 328
[Internal] load .dockerignore
-> transferring context: 28
[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:f8652afaf88c25f8d22354d547d892591067aa4026a7fa9a6810df9f30aef6fc
-> resolve docker.io/library/python:3.6@sha256:f8652afaf88c25f8d22354d547d892591067aa4026a7fa9a6810df9f30aef6fc
-> sha256:f8652afaf88c25f8d22354d547d892591067aa4026a7fa9a6810df9f30aef6fc 1.86kB / 1.86kB
-> sha256:d097a997a9ec079df5ac31872359c2de510f82214c0448e926393b376d3b6ad 2.22kB / 2.22kB
-> sha256:5a200638d07c5e3ad24ce21fc889abb8486a27634c0891066ff71f3f44b104 9.27kB / 9.27kB
-> sha256:0e20546d541cdd309281d21a73a9d1db78665c1b95b74f32b000e0b77a6e1e3 54.92MB / 54.92MB
-> sha256:9b829c73b52b92b97d5c07a54fb0f3e921995a296c714b53a32a67d19231fcd 5.15MB / 5.15MB
-> sha256:cb5b7ae361722f070eca53f35823ed21baa85d01d5d95cd5a95ab53d740cdd56 10.87MB / 10.87MB
-> sha256:6494e4811622b31c027ccac322ca463937fd805f560a93e6f15c01aade718793 54.57MB / 54.57MB
-> sha256:d097a997a9ec079df5ac31872359c2de510f82214c0448e926393b376d3b6ad 2.22kB / 2.22kB
-> sha256:5e3b1213efc56598e78bd602083945c1642e2a37205e06a61dad0823124c743 6.29MB / 6.29MB
-> extracting sha256:0e20546d541cdd309281d21a73a9d1db78665c1b95b74f32b000e0b77a6e1e3
-> sha256:9fddfd56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 14.21MB / 14.21MB
-> extracting sha256:9b829c73b52b92b97d5c07a54fb0f3e921995a296c714b53a32a67d19231fcd
-> extracting sha256:cb5b7ae361722f070eca53f35823ed21baa85d01d5d95cd5a95ab53d740cdd56
-> sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7 2358 / 2358
-> sha256:c4f42be2be53b900bffc040c1df13de538434cc5f5d954a56848ae169a3a3f 2.21MB / 2.21MB
-> extracting sha256:6494e4811622b31c027ccac322ca463937fd805f560a93e6f15c01aade718793
-> extracting sha256:6f9f7480e4f93fe0172f594f0a0b50b4a80b401a0ef09112efc7e4d3c78f7
-> extracting sha256:5e3b1213efc56598e78bd602083945c1642e2a37205e06a61dad0823124c743
-> extracting sha256:9fddfd56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752
-> extracting sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7
-> extracting sha256:c4f42be2be53b900bffc040c1df13de538434cc5f5d954a56848ae169a3a3f
[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 lbw_db
-> exporting to image
-> exporting layers
-> writing image sha256:1756719486df02fad5dae805c5221513f2ff2d1b49a8d242b22a28uf0379f19
-> 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 Upgrade plan

Containers Images Volumes 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

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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

