

# DOCKER AND KUBERNETES

Assignment Date	27 October 2022
Team ID	PNT2022TMID15298
Project Name	Plasma Donor Applications
Maximum Marks	2 Marks

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

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

The screenshot displays the Docker Hub page for the `uifd/ui-for-docker` repository. The repository is marked as deprecated, with a note stating 'A web interface for Docker, formerly known as DockerUI. Deprecated, use Portainer for new features.' The 'Overview' tab is selected, showing a description of the UI For Docker project. To the right, the 'Docker Pull Command' is shown as `docker pull uifd/ui-for-docker`.

Below the repository page, the Docker Playground interface is visible. It shows a session titled 'cd9an2u3\_cd9av060qau0008hbjso' with an IP address of 192.168.0.13. The 'Instances' section on the left shows a single instance named '192.168.0.13 node1'. The main terminal area displays 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. #
#####
[model] (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
[model] (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
c590dd163101ae795bdc0eb1ddd98f6fe549cb5f24dcb9ff7c1931923fc0d
[model] (local) root@192.168.0.13 ~
$
```

3. Create an IBM container registry and deploy helloworld or job portal app.

UI For Docker

Dashboard	Containers	Containers Network	Images	Networks	Volumes	Info
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Refresh

# UI For Docker

The UI for Docker container engine

Learn more.

UI For Docker

Dashboard	Containers	Containers Network	Images	Networks	Volumes	Info
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Refresh

## Running Containers

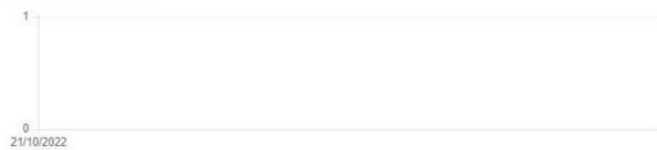
• beautiful\_goldwasser Up About a minute

## Status



Running Stopped Ghost

## Containers created



## Images created



4.Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal app image and also expose the same app to run in nodeport.

```
C:\Windows\System32\cmd.exe
-> [internal] load build definition from Dockerfile
-> => transferring dockerfile: 32B
-> [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:f8652afaf88c25f0d22554d547d892591067aa4026a7fa9a6819df9f300af8fc
-> resolve docker.io/library/python:3.6@sha256:f8652afaf88c25f0d22554d547d892591067aa4026a7fa9a6819df9f300af8fc
-> sha256:f8652afaf88c25f0d22554d547d892591067aa4026a7fa9a6819df9f300af8fc 1.06kB / 1.06kB
-> sha256:d097aa987a8ec070df5ac31872350c2de510f82214c0448e9263936376d3b60d 2.22kB / 2.22kB
-> sha256:54260638d07c5e3ad24cbe21fc889abbcb486a27634c0082606ff71f3f44b104 9.27kB / 9.27kB
-> sha256:0e29546d541cbb309281d21a73a9d1db78665c1b95074f32b00e0e0b77a6e1e3 54.92MB / 54.92MB
-> sha256:90829c73b52b29207d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd 5.15MB / 5.15MB
-> sha256:cb507ae361722f070eca53f35823ed21baa85d01d5d05cd5a95ab53d748cdd56 10.87MB / 10.87MB
-> sha256:6494e4811622b31c027ccac322ca463937fd805f509a93e6f15c01aade718793 54.57MB / 54.57MB
-> sha256:6f9f74896df493fde0122f504fab8e0b0e8a0481a9f6fd0112efc7a4d3c78f7 106.51MB / 106.51MB
-> sha256:5e3b1213efc50598e78bd0e92083945c164de2a37205e0e62dada823124dc743 6.25MB / 6.25MB
-> extracting sha256:0e29546d541cbb309281d21a73a9d1db78665c1b95074f32b00e0e0b77a6e1e3
-> sha256:9fd0f4c56334f2e6fad7e241bf5e7459c48ed105c5478b76f41c1244bd96752 14.21MB / 14.21MB
-> extracting sha256:9b029c73b52b29207d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd 2.35 / 2.35
-> extracting sha256:cb507ae361722f070eca53f35823ed21baa85d01d5d05cd5a95ab53d748cdd56 4.08 / 4.08
-> sha256:404f02044bac0432ca522cbb0f254b1c91fcea6006bfeef8be0b243b2f31bab7 2358 / 2358
-> sha256:c4f42be2be53b000ebffcc040c1df13de538434ccc5f5d954a56048a6169a3af 2.21MB / 2.21MB
-> extracting sha256:6494e4811622b31c027ccac322ca463937fd805f509a93e6f15c01aade718793 27.38 / 27.38
-> extracting sha256:6f9f74896df493fde0122f504fab8e0b0e8a0481a9f6fd0112efc7a4d3c78f7 131.48 / 131.48
-> extracting sha256:5e3b1213efc50598e78bd0e92083945c164de2a37205e0e62dada823124dc743 6.25 / 6.25
-> extracting sha256:9fd0f4c56334f2e6fad7e241bf5e7459c48ed105c5478b76f41c1244bd96752 11.38 / 11.38
-> extracting sha256:404f02044bac0432ca522cbb0f254b1c91fcea6006bfeef8be0b243b2f31bab7 0.06 / 0.06
-> extracting sha256:c4f42be2be53b000ebffcc040c1df13de538434ccc5f5d954a56048a6169a3af 2.25 / 2.25
[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 image
-> => exporting layers
-> => writing image sha256:1756719486df002fad5dae385c521513f2ff2d1b49a6d242b32a28af8379f19
-> => 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>
```

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

☐ 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