

### Assignment - 3

#### Docker and Kubernetes

Assignment Date	21 October 2022
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Maximum Marks	2 Marks

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

The screenshot displays two browser windows. The top window shows the Docker Hub page for the repository `uifd/ui-for-docker`. The page indicates that the repository is deprecated and suggests using Portainer instead. It shows the repository was updated 6 years ago and has over 10M pulls. The 'Image' tab is selected, showing the 'latest' tag. A 'Docker Pull Command' box contains the command: `docker pull uifd/ui-for-docker`.

The bottom window shows the Docker Playground interface. It displays a session titled `cd9an2u3_cd9av060qau0008hbjs0` with an IP address of `192.168.0.13`. The 'Instances' section shows a single instance named `node1`. The terminal output shows the following commands and results:

```
# 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@192.168.0.13 ~  
$ docker pull uifd/ui-for-docker  
Using default tag: latest  
latest: Pulling from uifd/ui-for-docker  
841194d000c8: Pull complete  
Digest: sha256:fe371ff5a69549269b24073a5ab1244dd4c0b834cbadef244870572150b1cb749  
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  
c590dd163101ae795bdcea0eb1ddd98f6fe549cb5f24dab9ff7c1931923fc0d  
[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



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Refresh

## Running Containers

- beautiful\_goldwasser [Up About a minute](#)

## Status



Running Stopped Ghost

## Containers created

1

21/10/2022

## Images created

1



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

The image shows a Windows terminal window with a Dockerfile being edited. The Dockerfile contains instructions to build a Docker image for a job portal application. The instructions include setting the base image to `python:3.9-slim`, installing dependencies, and running the application. The terminal output shows the successful build of the image with the name `job-portal-main` and the tag `latest`.

```
FROM python:3.9-slim
WORKDIR /app
COPY requirements.txt .
RUN pip install --no-cache-dir -r requirements.txt
COPY . .
CMD ["python", "main.py"]
```

The Docker Desktop interface shows the list of images on disk. The image `job-portal-main` is listed with the tag `latest` and a size of 1.08 GB.

NAME	TAG	IMAGE ID	CREATED	SIZE
job-portal-main	latest	1756719486df	less than a minute ago	1.08 GB