

Assignment 4

Team ID	PNT2022TMID14121
Project Name	Project – Inventory Management System for retailers.

Question:

1. Pull an Image from docker hub and run it in docker playground.
2. Create a docker file for the job portal application and deploy it in Docker desktop application.
3. Create an IBM container registry and deploy hello world app or job portal app.
4. Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.

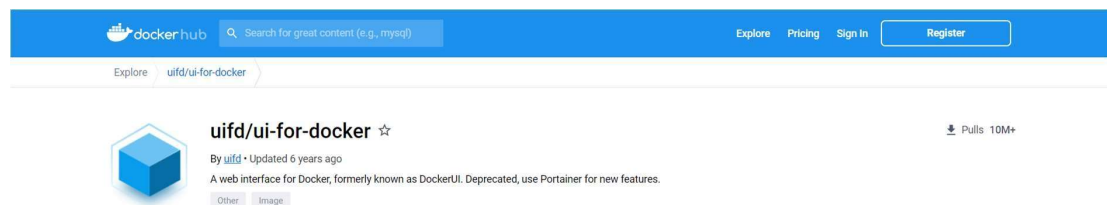
1. Pull an Image from docker hub and run it in docker playground.

uifd/ui-for-docker: UI Foí Dockeí is a web inteíface foí the Dockeí Remote API. Ít's goal is to píovide a puíe client-side implementation so it is effoítless to connect and manage dockeí.

Pull the uifd/ui-for-docker image from the docker hub.

Pull uifd/ui-for-docker: `docker pull uifd/ui-for-docker.`

Run uifd/ui-for-docker: `docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker.`



03:50:07

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.28
node1

cdcrgu0_cdcvrim0qau000de0skg

IP
192.168.0.28

OPEN PORT

Memory

CPU

SSH
ssh ip172-18-0-171-cdcrgu0qau000de0sk0@direct.labs.pl

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@192.168.0.28 ~
$ docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
441194d080c8: 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@192.168.0.28 ~
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
58b8ebc161640a8ba084424bf5b67d43e7ad88056103fba1e3fe040a60ff3541
(node1) (local) root@192.168.0.28 ~
$
```

Open your browser to <http://ip172-18-0-171-cdcrgu0qau000de0sk0-9000.direct.labs.play-with-docker.com/#/>

UI For Docker

Dashboard

Containers

Containers Network

Images

Networks

Volumes

Info

Refresh

Running Containers

vigilant_heisenberg

Up 6 minutes

Status

Running

Stopped

Ghost

Containers created

1

0

10/27/2022

Images created

1

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

Docker File:

```
FROM python:latest

WORKDIR Job_Application

COPY requirements.txt requirements.txt

RUN pip3 install -r requirements.txt

COPY . .

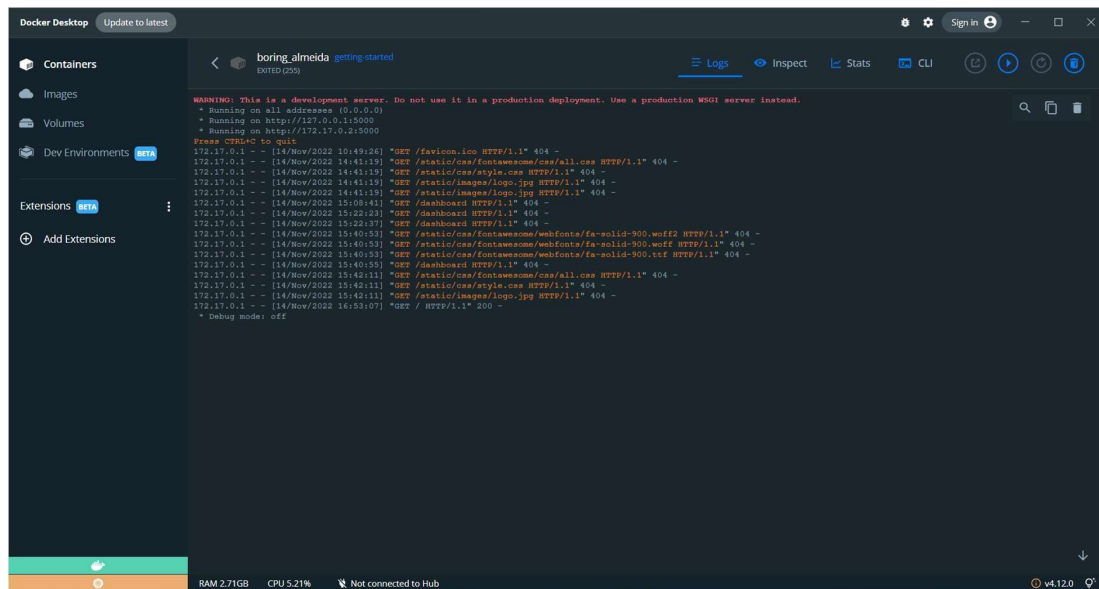
CMD [ "python", "-m", "flask", "run", "--host=0.0.0.0"]

EXPOSE 5000
```

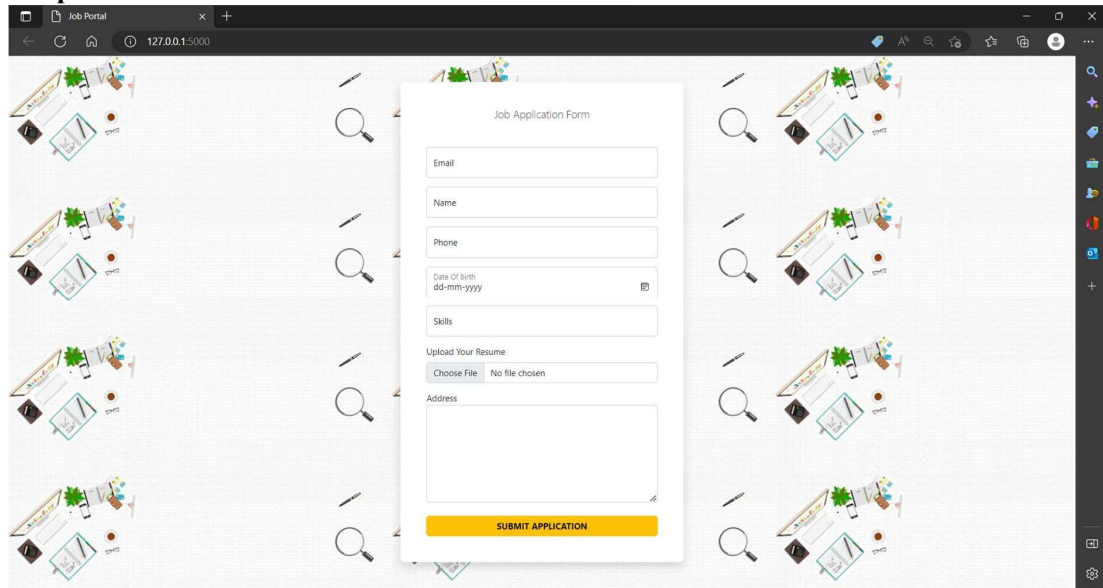
Requirements:

flask

Docker Desktop:



Output:



a.yaml

apiVersion: apps/v1

kind: Deployment

metadata:

name: flask-app

spec:

replicas: 3

selector:

matchLabels:

app: flask-app

template:

metadata:

labels:

app: flask-app

spec:

containers:

- name: repo2

image: docker.io/rajeshkumar2002/jobportalassignment4

ports:

- containerPort: 5000

protocol: TCP

