Assignment 4

Team ID	PNT2022TMID14117
Project Name	Plasma donor application

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 Foi Dockei is a web inteiface foi the Dockei Remote API. I he goal is to piovide a puie client-side implementation so it is effoitless to connect and manage dockei.

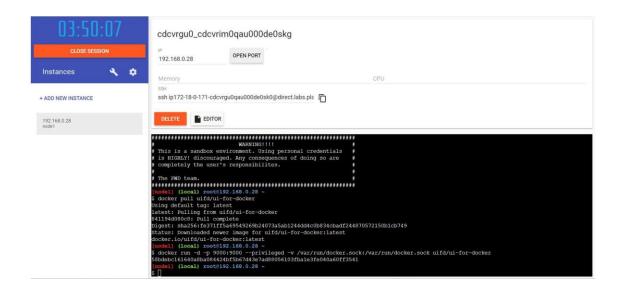
Pull the uifd/ui-for-docker image from the docker hub.

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

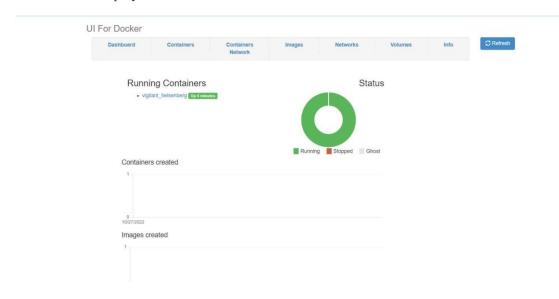
Run uifd/ui-for-docker: docker run -d -p 9000:9000 --privileged -v

/var/run/docker.sock uifd/ui-for-docker.





Open your browser to http://ip172-18-0-171-cdcvrgu0qau000de0sk0-9000.direct.labs.play-with-docker.com/#/



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..

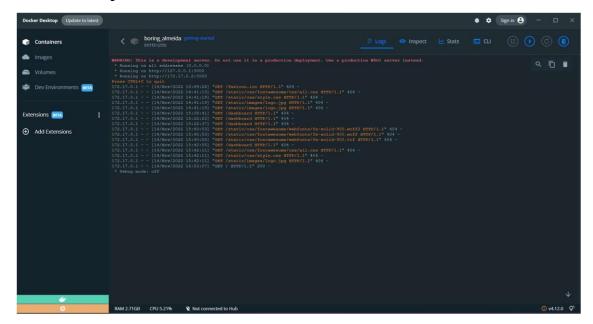
CMD ["python", "-m" , "flask", "run", "--host=0.0.0.0"]

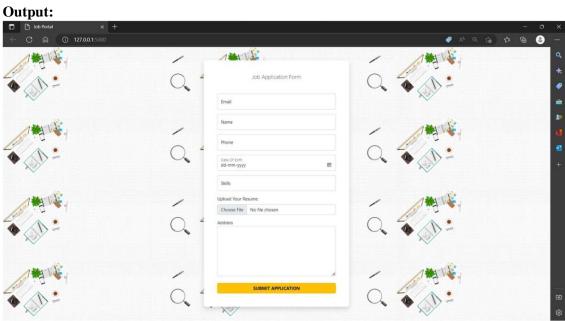
EXPOSE 5000

Requirements:

flask

Docker Desktop:





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:

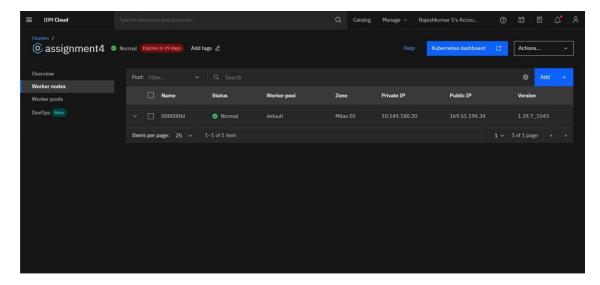
containers:

- name: repo2

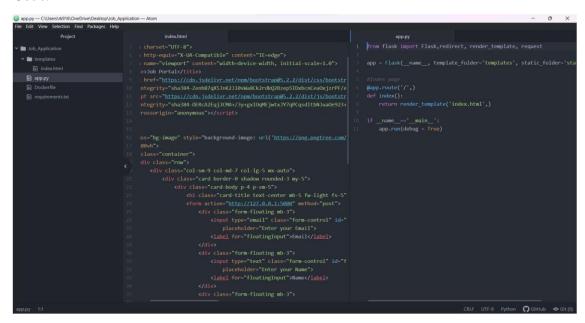
image: docker.io/sriram/plasmaasignment4:

- containerPort: 5000

protocol: TCP



Code:



Output:

