#### **ASSIGNMENT - 4**

# **KUBERNETES, DOCKER**

| Assignment Date     | 28 October 2022 |
|---------------------|-----------------|
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## **Question-1**

Pull an image from Dockers hub and run it in Dockers playground.

#### **Solution:**

Step 1: Login to Dockers hub and get an image

Step 2: Open Dockers playground

Login with Dockers

Create new instance

**Step 3**: In the command prompt run the following

\$docker pull hello-world

\$docker run hello-world

```
(local) root@197.168.0.8
 docker pull hello-world
sing default tag: latest
|atest: Pulling from library/hello-world
|higest: sha256:18a657d0cclo7d0678a3fbea8b7eb4918bba25968d3e1b0adebfa7lcaddbc346
  atus: Image is up to date for hello-world:latest
tello from Docker!
This message shows that your installation appears to be working correctly.
to generate this message, Docker took the following steps:

1. The Docker client contacted the Docker daemon.

2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
3. The Docker daemon created a new container from that image which runs the
executable that produces the output you are currently reading.

4. The Docker deemon streamed that output to the Docker client, which sent it
    to your terminal.
to try something more ambitious, you can run an Ubuntu container with:
§ docker run -it ubuntu bash
Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/
or more examples and ideas, visit:
https://docs.docker.com/get-started/
П
```

### **Question 2**

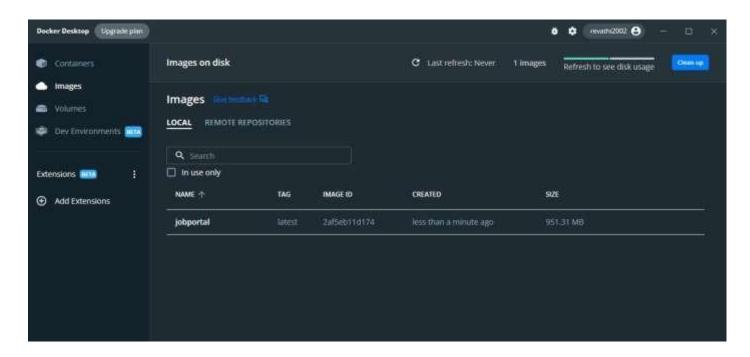
# Create A Dockers File And Deploy It In Dockers Desktop Application

#### **Solution:**

**Step 1 :** Create a flask application

Create a Dockerfile in the same folder

**Step 2 :** Run the following commands to deploy it in docker desktop \$docker build –t jobportal \$docker image ls

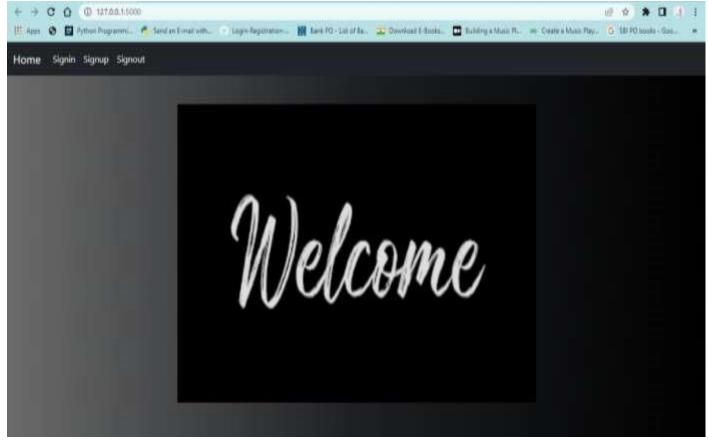


\$ docker container run -p 5000:5000 jobportal

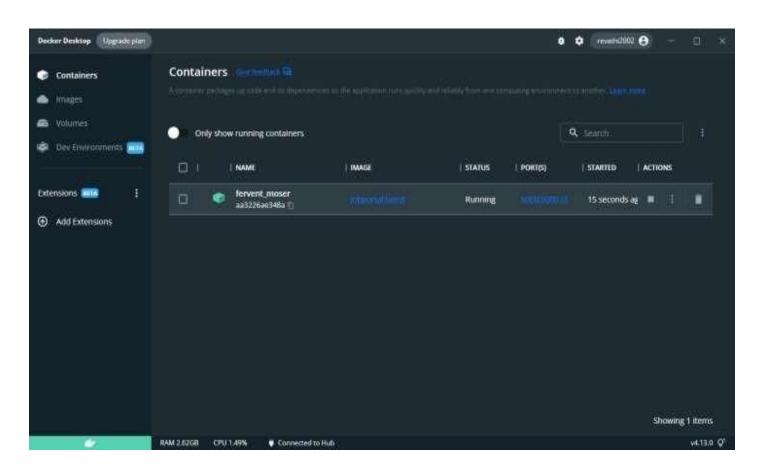
```
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* Benering a manalyse of the container of t
```

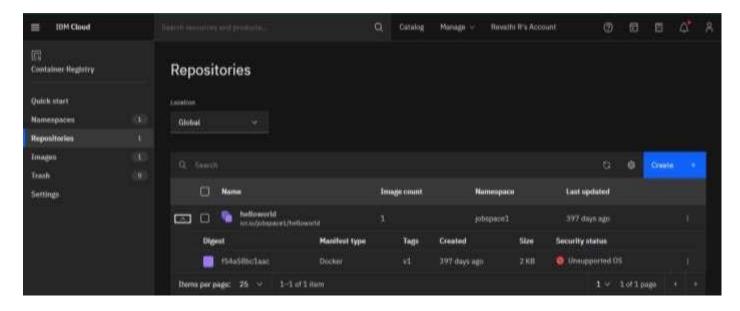


\$ docker container Is



### **Question 3:**

Create an IBM container registry and deploy hello-world-app or job-portal-app



# **Question 4:**

Create a Kubernetes cluster in IBM cloud and deploy hello-world-image or jobportal-image and also expose the same app to run in node-port.

