

Assignment -4

Student Name	Riyazur Razak N
Student Roll Number	737819ECR144
Maximum Marks	2 Marks

Question 1

Pull an image from the docker hub and run it in the docker playground

```
MINGW64/C:/Users/Riyazur-Razak

Riyazur Razak@LAPTOP-GKU7KQHB MINGW64 ~ (master)
$ docker pull nginx:alpine
alpine: Pulling from library/nginx
ca7d9ec2225: Pull complete
76a48b9f5898: Pull complete
2f12a8e7c01d: Pull complete
1a7b9b9b6ef6: Pull complete
b784883c57af: Pull complete
4342b1ab382e: Pull complete
Digest: sha256:455c39afeb4d498ef26dd78284aa86e6810b0485af5f4f222b19b89758cabf1e
Status: Downloaded newer image for nginx:alpine
docker.io/library/nginx:alpine

Riyazur Razak@LAPTOP-GKU7KQHB MINGW64 ~ (master)
$ docker run --name nginx-run -d -p 8888:80 nginx:alpine
58aa976f35911c42f723ca4eb4c8bde87d1aacdda5658f7ccd8892e83bf6158

Riyazur Razak@LAPTOP-GKU7KQHB MINGW64 ~ (master)
$
```

Question 2

Create a docker file for the job portal application and deploy it

From python:3.8-bluster

WORKDIR /app

COPY requirements.txt /app/

RUN pip install -r requirements.py

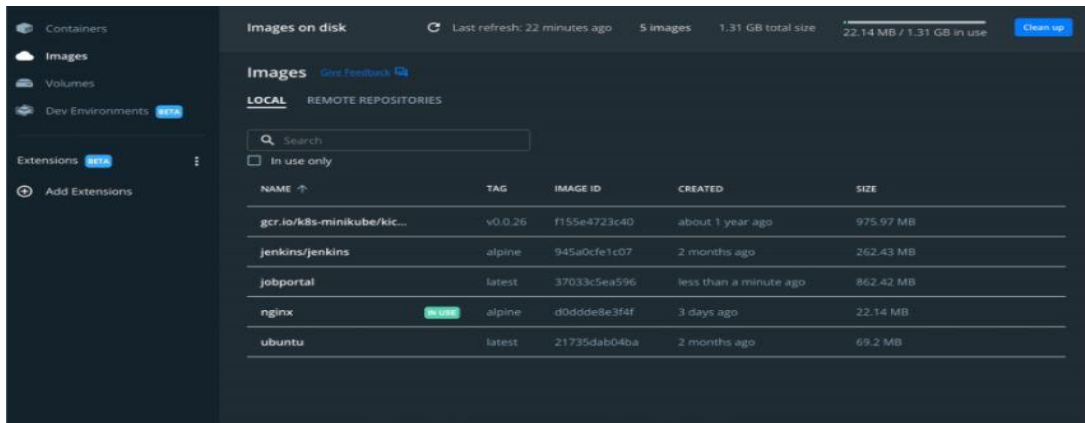
COPY ./app/

RUN cp .env .env

EXPOSE 5000

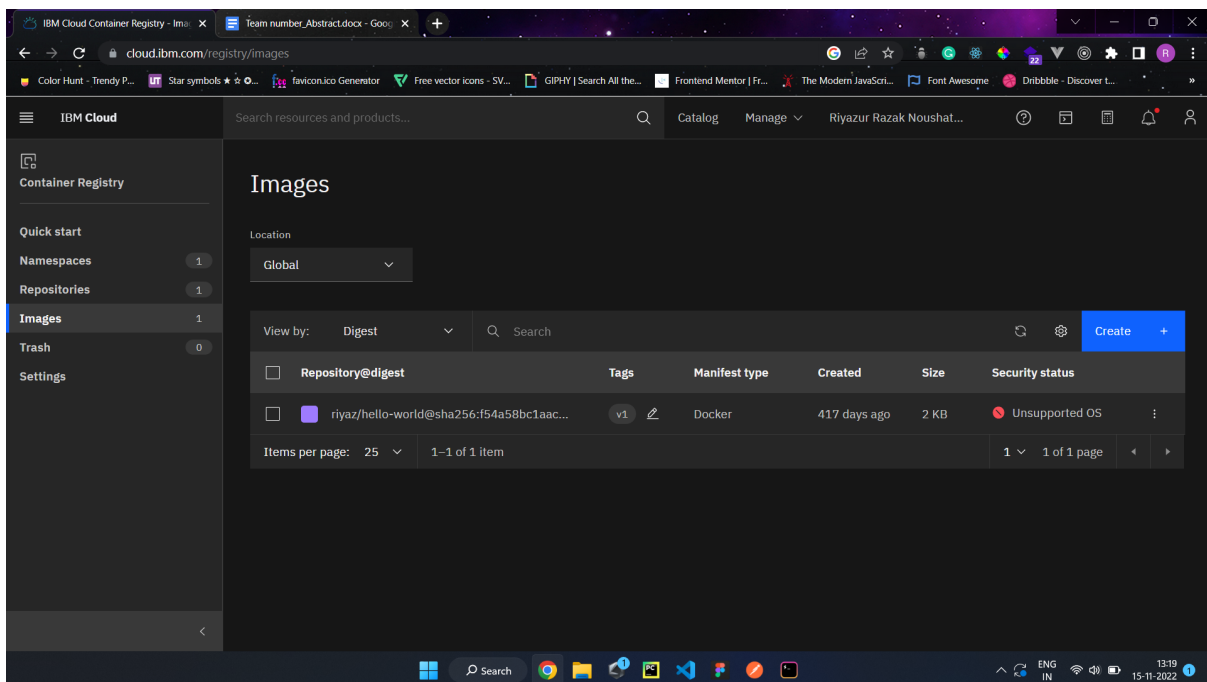
RUN chmod +x entrypoint.sh

CMD ["sh", "entrypoint.sh"]



Question 3

Create an IBM container repository and deploy HelloWorld



Question 4

Create a kubernetes cluster in ibm cloud and deploy helloworld image and also expose the same app to run in nodeport

The screenshot displays the IBM Cloud console interface for a Kubernetes cluster named 'mycluster-free'. The cluster is in a 'Normal' state and expires in 30 days. The 'Worker nodes' section is active, showing a table with one node.

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
000000fd	Normal	default	Milan 01	10.144.228.100	159.122.175.71	1.24.7_1543

The interface includes a sidebar with navigation options: Overview, Worker nodes (selected), Worker pools, and DevOps. The top navigation bar shows the IBM Cloud logo, a search bar, and various utility links like Catalog, Manage, and Help. The bottom status bar indicates the time as 13:53 on 15-11-2022.