

## 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

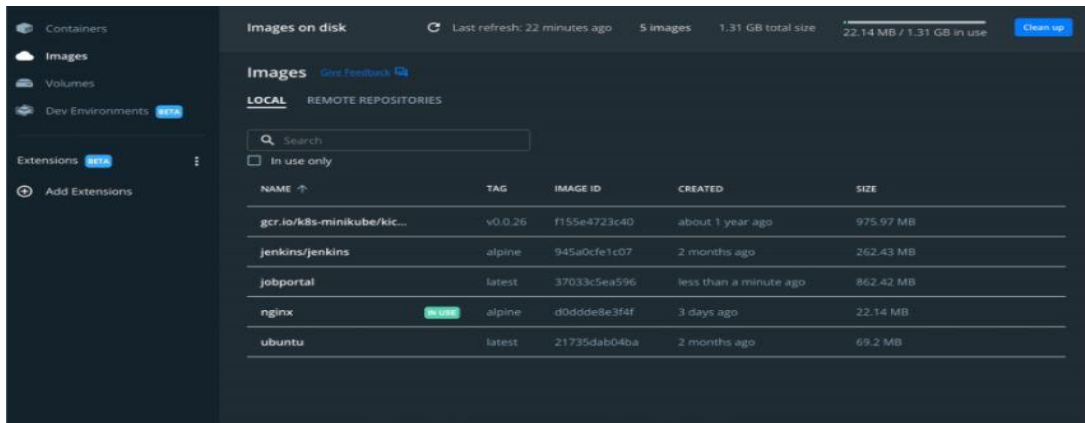
COPY ./app/

RUN cp .env .env

EXPOSE 5000

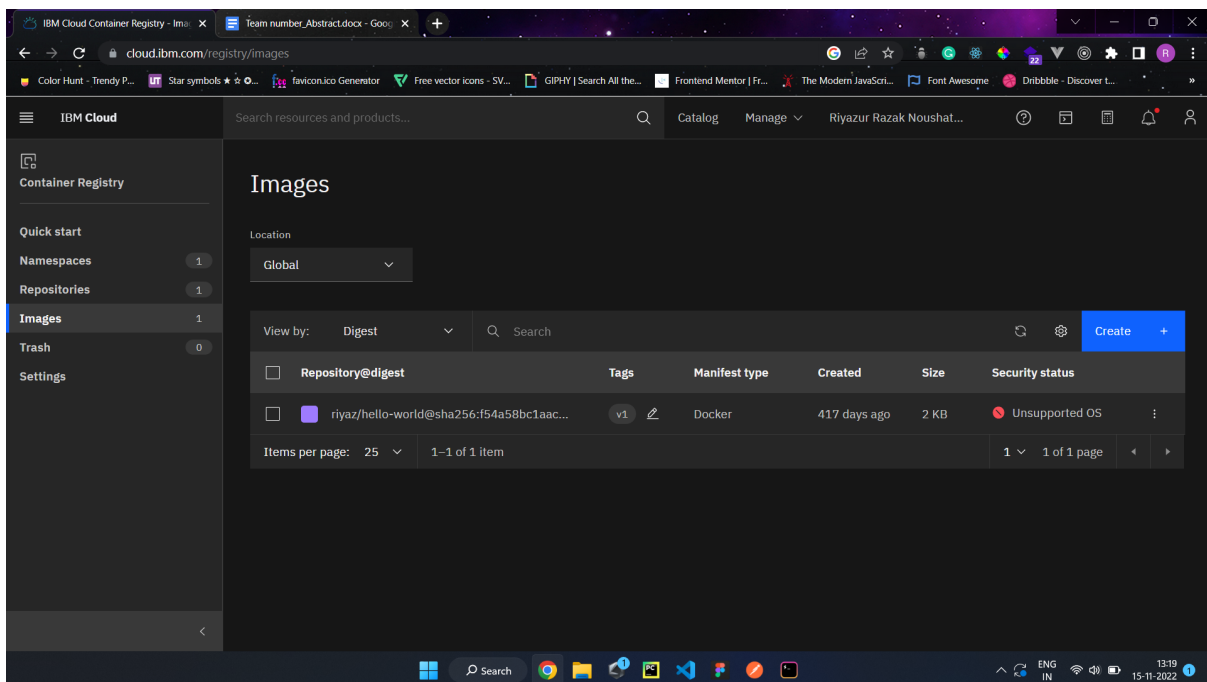
RUN chmod +x entrypoint.sh

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



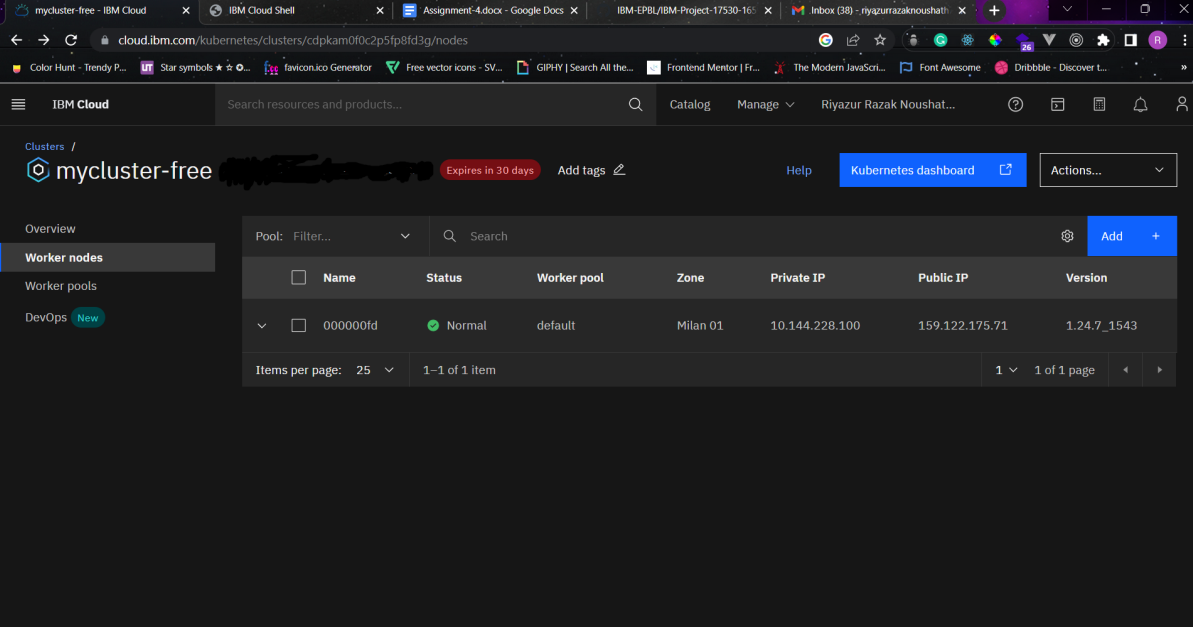
### Question 3

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 shows the IBM Cloud console interface for a Kubernetes cluster named 'mycluster-free'. The 'Worker nodes' section is active, displaying a table with one worker node. The table columns are Name, Status, Worker pool, Zone, Private IP, Public IP, and Version. The worker node has a status of 'Normal' and is part of the 'default' worker pool in the 'Milan 01' zone.

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