

#### Assignment -4

|                     |                 |
|---------------------|-----------------|
| Student Name        | Nanthakumaran S |
| Student Roll Number | 737819ECR113    |
| Maximum Marks       | 2 Marks         |

##### Question-1:

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

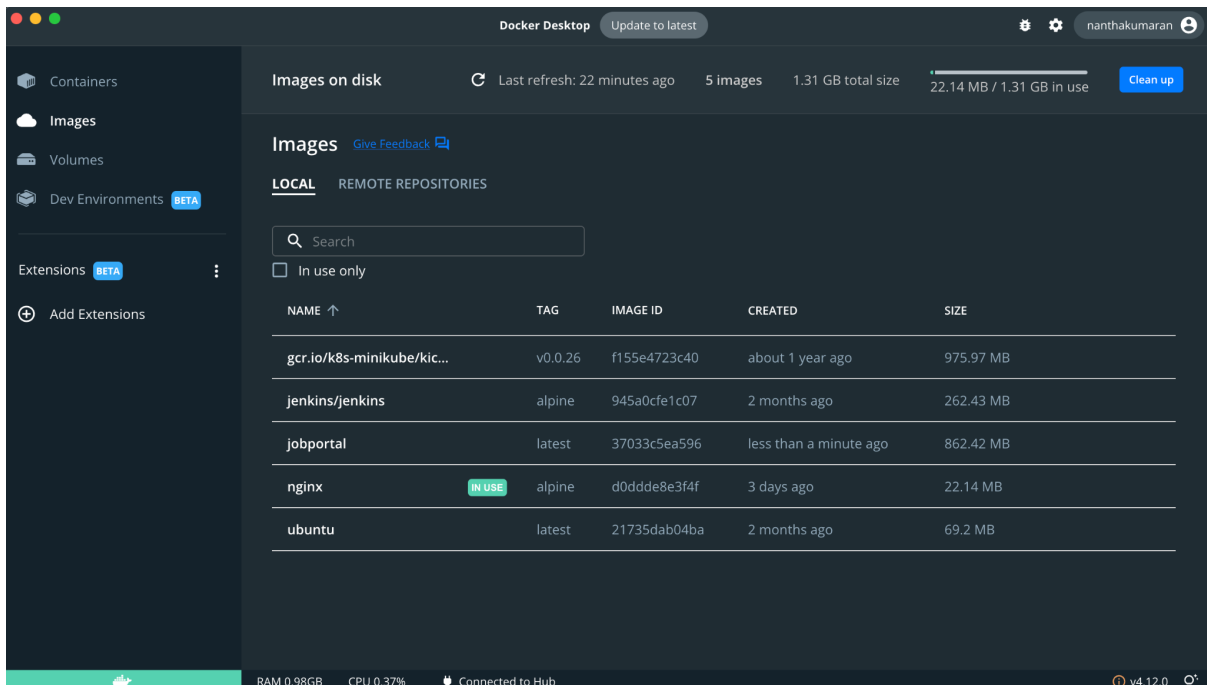
```
> docker images
REPOSITORY          TAG          IMAGE ID          CREATED           SIZE
jenkins/jenkins     alpine      945a0cfe1c07     2 months ago     262MB
ubuntu              latest      21735dab04ba     2 months ago     69.2MB
gcr.io/k8s-minikube/kicbase v0.0.26    f155e4723c40     14 months ago    976MB
> docker pull nginx:alpine
alpine: Pulling from library/nginx
6875df1f5354: Pull complete
3dd2cf41c001: Pull complete
dc1c566ee290: Pull complete
44b2c1db1a43: Pull complete
ab4936c9134e: Pull complete
3b70e1fb0aaf: Pull complete
Digest: sha256:455c39afebd4d98ef26dd70284aa86e6810b0485af5f4f222b19b89758cabf1e
Status: Downloaded newer image for nginx:alpine
docker.io/library/nginx:alpine
> docker run --name nginx-run -d -p 8080:80 nginx:alpine
c15c17ed613813b50c76eb55253c648fd778c141b238e8587bf16316f4bc3018
```



## Question-2:

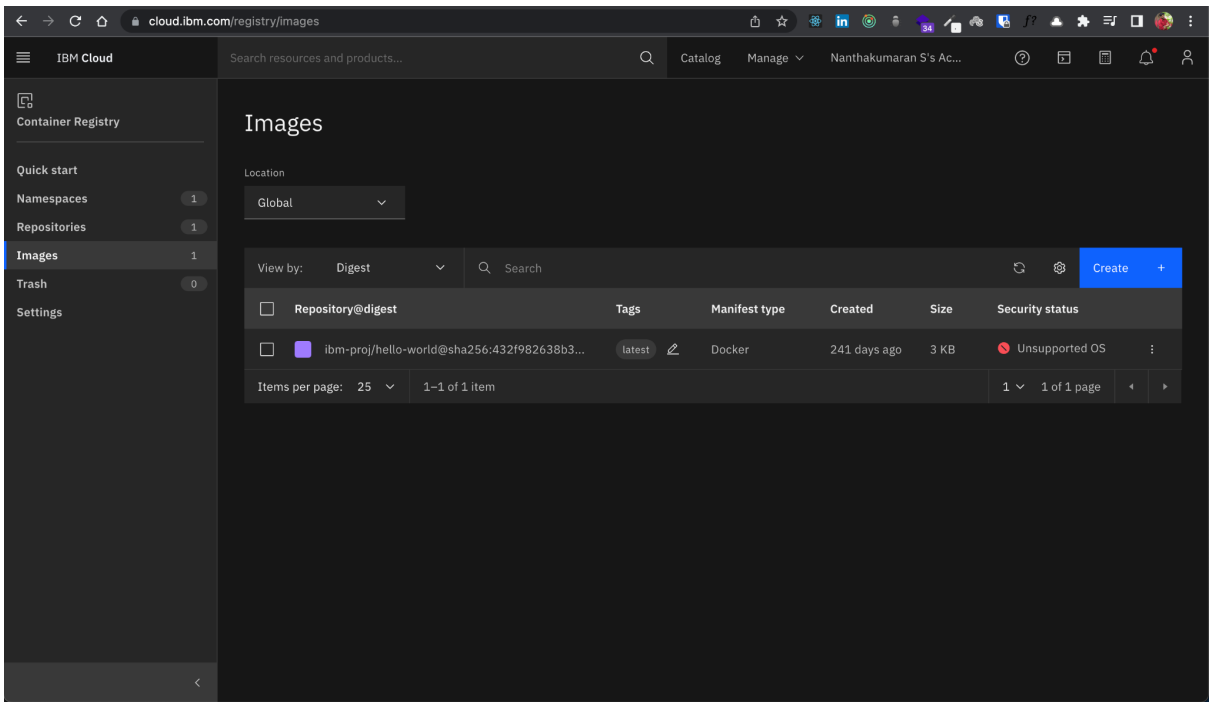
Create a docker file for the job portal application and deploy it in docker desktop

```
1 FROM python:3.8-bluster
2
3 WORKDIR /app
4
5 COPY requirements.txt /app/
6
7 RUN pip install -r requirements.txt
8
9 COPY . /app/
10
11 RUN cp .env.dev.sample .env
12
13 EXPOSE 8080
14
15 RUN chmod +x entrypoint.sh
16
17 CMD ["sh", "entrypoint.sh"]
18
```



Question-3:

Create a IBM container registry and deploy helloworld app or jobportalapp.



Question-4:

Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.

