Assignment 4

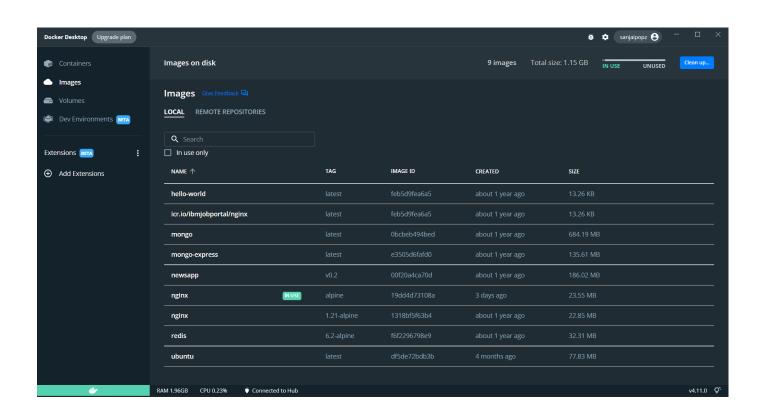
| Student Name | Sanjai R |
|---------------------|-----------------------------------|
| Student Roll Number | 737819ECR155 |
| Project Name | Skill/Job Recommender Application |

1)Pull an Image from docker hub and run it in docker playground

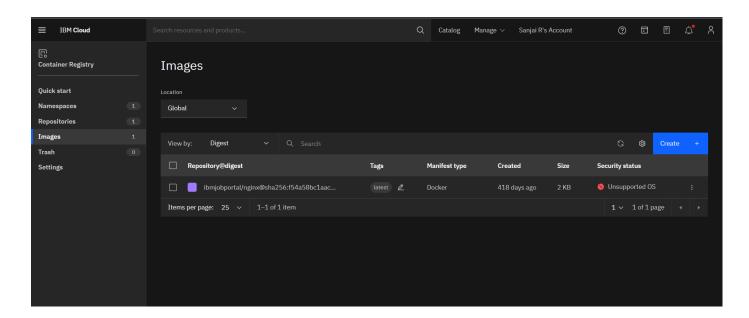
```
C:\Users\sANJAI R>docker images
REPOSITORY
                            TAG
                                          IMAGE ID
                                                          CREATED
                                                                          SIZE
nginx
                            alpine
                                          19dd4d73108a
                                                          3 days ago
                                                                          23.5MB
ubuntu
                            latest
                                          df5de72bdb3b
                                                          3 months ago
                                                                          77.8MB
                                                                          13.3kB
hello-world
                            latest
                                          feb5d9fea6a5
                                                          13 months ago
icr.io/ibmjobportal/nginx
                            latest
                                          feb5d9fea6a5
                                                          13 months ago
                                                                          13.3kB
                            v0.2
                                          00f20a4ca70d
                                                         14 months ago
                                                                          186MB
newsapp
mongo-express
                            latest
                                          e3505d6fafd0
                                                        14 months ago
                                                                          136MB
mongo
                            latest
                                          0bcbeb494bed
                                                         14 months ago
                                                                          684MB
redis
                                          f6f2296798e9
                                                          14 months ago
                            6.2-alpine
                                                                          32.3MB
                                          1318bf5f63b4
nginx
                            1.21-alpine
                                                          14 months ago
                                                                          22.8MB
C:\Users\sANJAI R>docker pull nginx:alpine
alpine: Pulling from library/nginx
Digest: sha256:455c39afebd4d98ef26dd70284aa86e6810b0485af5f4f222b19b89758cabf1e
Status: Image is up to date for nginx:alpine
docker.io/library/nginx:alpine
C:\Users\sANJAI R>
```

2)Create a docker file for the jobportal application and deploy it in Docker desktop application

```
1 FROM python:3.8-bluster
2
3 WORKDIR /app
4
5 COPY requirements.txt /app/
6 RUN pip install -r requirements.py
7 COPY hello.txt ./app/
8 RUN cp .env .env
9 EXPOSE 5000
10 RUN chmod +x entrypoint.sh
11
12 CMD ["sh", "entrypoint.sh"]
```



3)Create a IBM container registry and deploy helloworld app or jobportalapp



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.

