Assignment 4

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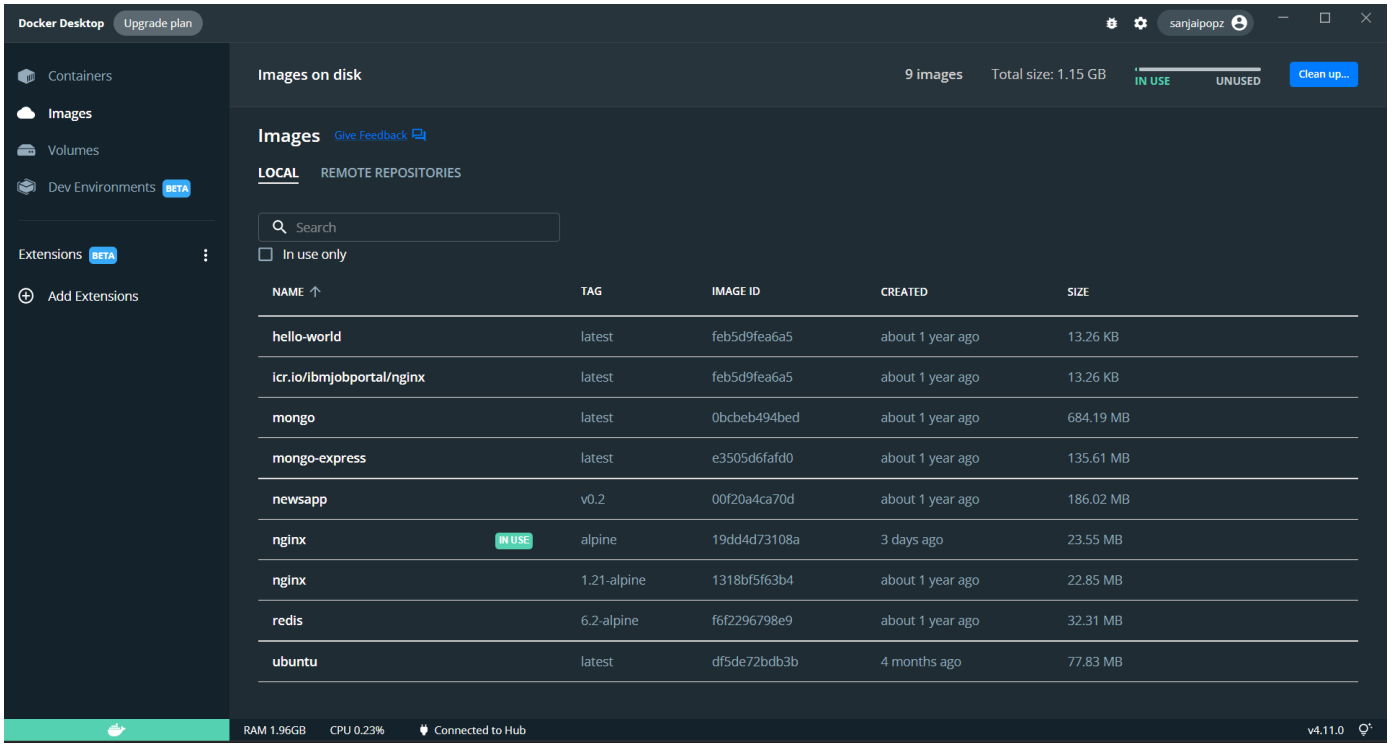
Project Name	Skill/Job Recommender Application

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

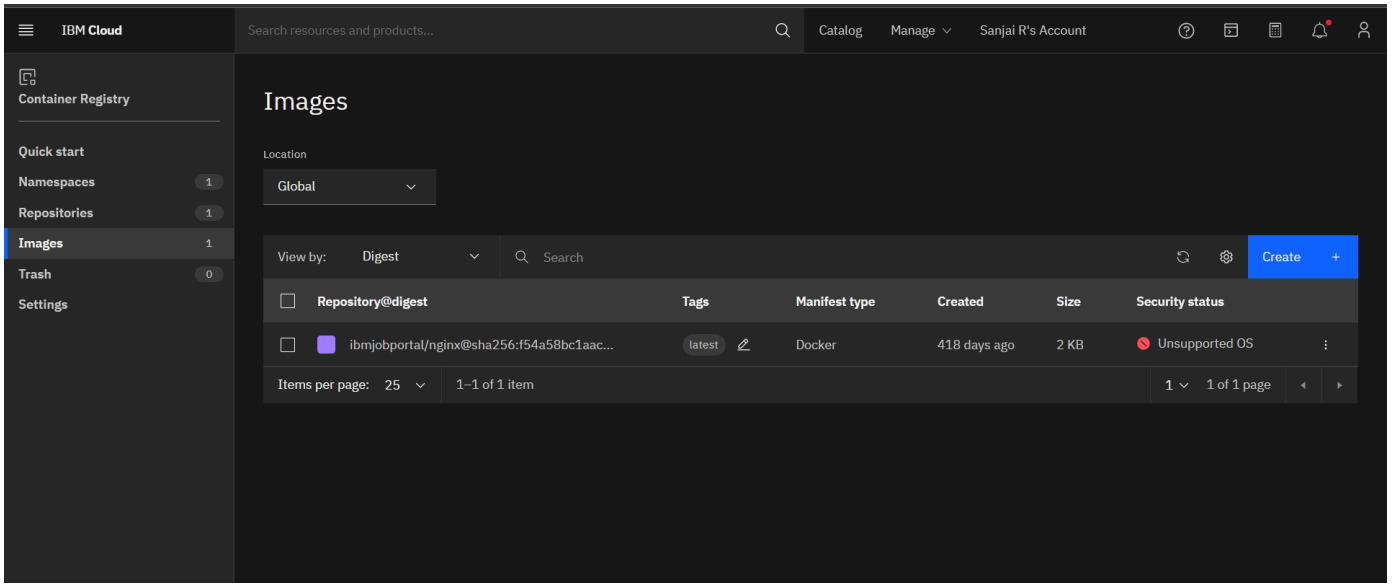
```
C:\Users\sANJAI R>docker images
REPOSITORY                  TAG          IMAGE ID       CREATED         SIZE
nginx                       alpine       19dd4d73108a   3 days ago      23.5MB
ubuntu                      latest       df5de72bdb3b   3 months ago    77.8MB
hello-world                 latest       feb5d9fea6a5   13 months ago   13.3kB
icr.io/ibmjobportal/nginx   latest       feb5d9fea6a5   13 months ago   13.3kB
newsapp                     v0.2         00f20a4ca70d   14 months ago   186MB
mongo-express               latest       e3505d6fafd0   14 months ago   136MB
mongo                       latest       0bcbeb494bed   14 months ago   684MB
redis                       6.2-alpine   f6f2296798e9   14 months ago   32.3MB
nginx                       1.21-alpine  1318bf5f63b4   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.