Assignment 4

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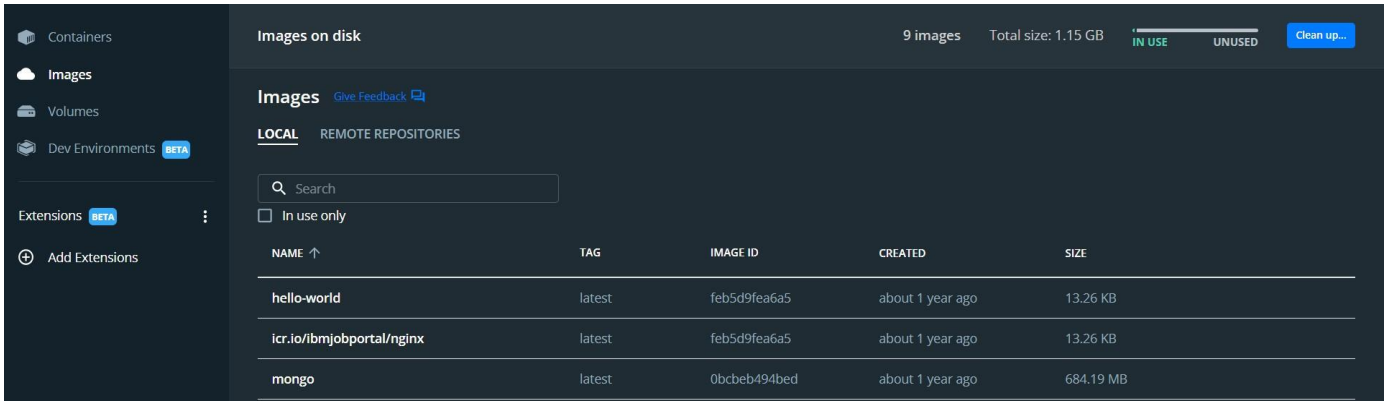
Project Name	Skill/Job Recommender Application

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

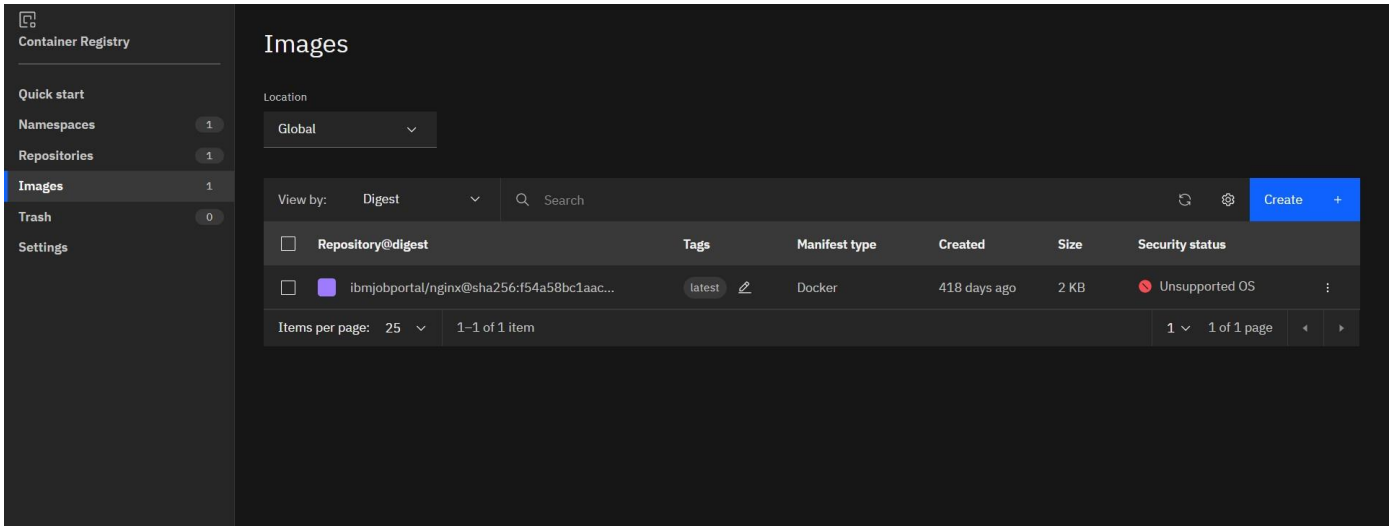
```
PS D:\Projects\Cloud> docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:faa03e786c97f07ef34423fccceeec2398ec8a5759259f94d99078f264e9d7af
Status: Image is up to date for hello-world:latest
docker.io/library/hello-world:latest
PS D:\Projects\Cloud> docker run hello-world

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent it
    to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
 $ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
 https://hub.docker.com/

For more examples and ideas, visit:
 https://docs.docker.com/get-started/

PS D:\Projects\Cloud>
```

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

```
FROM python:3.8

WORKDIR /app

COPY requirements.txt /app/

RUN pip install -r requirements.txt

COPY . /app/

RUN cp .env.dev.sample .env

EXPOSE 8080

RUN chmod +x entrypoint.sh

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



3) Create an IBM container registry and deploy HelloWorld app or job portal app



4) Create a Kubernetes cluster in the IBM cloud and deploy HelloWorld image or job portal image and also expose the same app to run in node port.