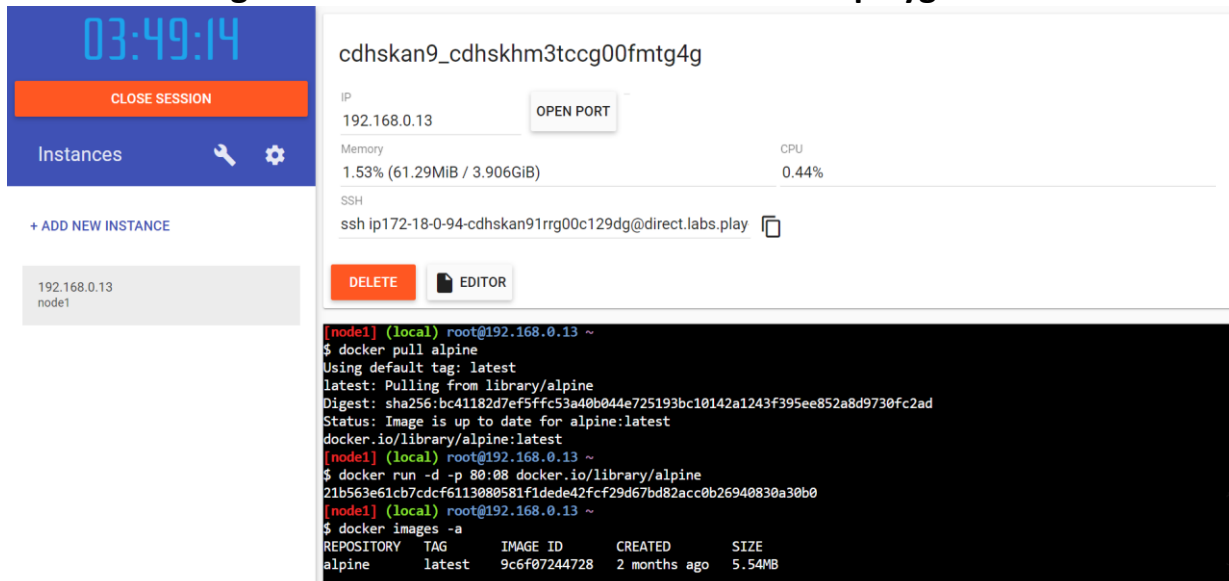


# Assignment 4

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



cdhskan9\_cdhskhm3tccg00fmtg4g

IP: 192.168.0.13

Memory: 1.53% (61.29MiB / 3.906GiB)

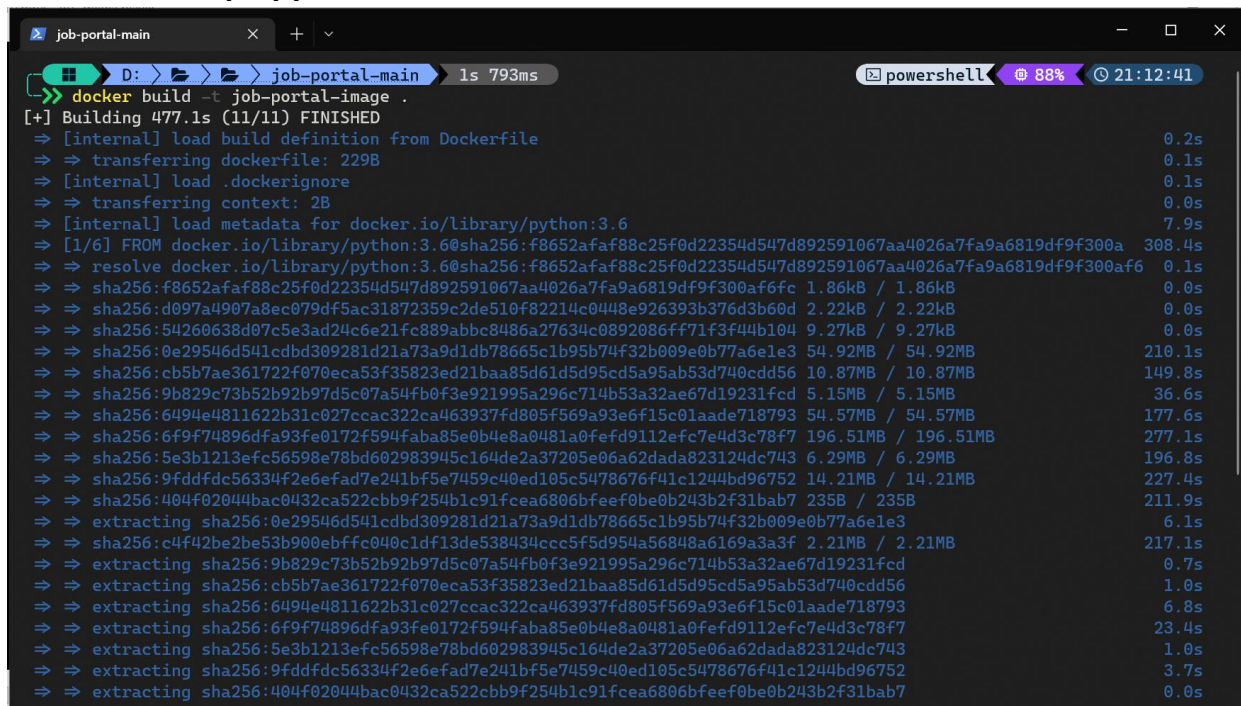
CPU: 0.44%

SSH: ssh ip172-18-0-94-cdhskan91rrg00c129dg@direct.labs.play

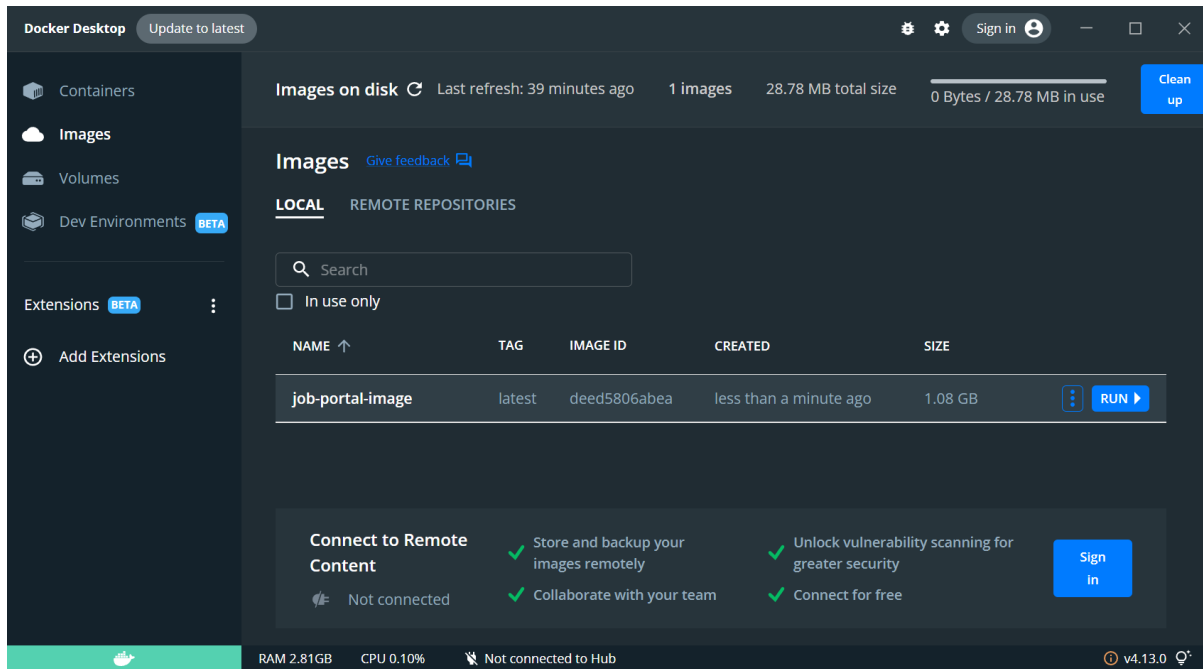
DELETE EDITOR

```
[node1] (local) root@192.168.0.13 ~
$ docker pull alpine
Using default tag: latest
latest: Pulling from library/alpine
Digest: sha256:bc41182d7ef5ffc53a40b044e725193bc10142a1243f395ee852a8d9730fc2ad
Status: Image is up to date for alpine:latest
docker.io/library/alpine:latest
[node1] (local) root@192.168.0.13 ~
$ docker run -d -p 80:88 docker.io/library/alpine
21b563e61cb7cdcf6113080581f1dede42fcf29d67bd82acc0b26940830a30b0
[node1] (local) root@192.168.0.13 ~
$ docker images -a
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
alpine               latest          9c6f07244728   2 months ago   5.54MB
```

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



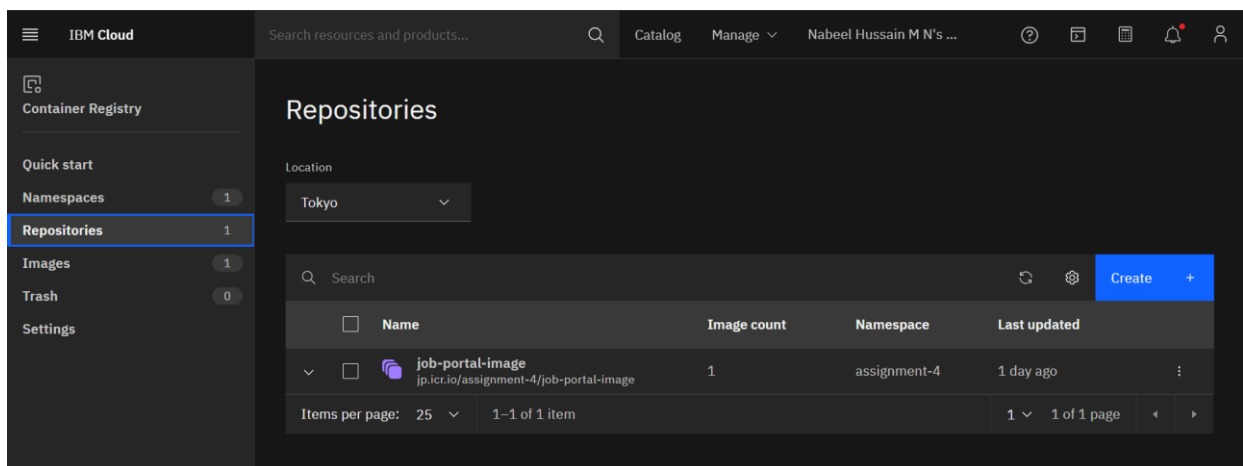
```
D:\job-portal-main ls 793ms
> docker build -t job-portal-image .
[+] Building 477.1s (11/11) FINISHED
=> [internal] load build definition from Dockerfile 0.2s
=> => transferring dockerfile: 229B 0.1s
=> [internal] load .dockerignore 0.1s
=> => transferring context: 2B 0.0s
=> [internal] load metadata for docker.io/library/python:3.6 7.9s
=> [1/6] FROM docker.io/library/python:3.6@sha256:f8652afaf88c25f0d22354d547d892591067aa4026a7fa9a6819df9f300a 308.4s
=> => resolve docker.io/library/python:3.6@sha256:f8652afaf88c25f0d22354d547d892591067aa4026a7fa9a6819df9f300af6 0.1s
=> => sha256:f8652afaf88c25f0d22354d547d892591067aa4026a7fa9a6819df9f300af6fc 1.86kB / 1.86kB 0.0s
=> => sha256:d097a4907a8ec079df5ac31872359c2de510f82214c0448e926393b376d3b60d 2.22kB / 2.22kB 0.0s
=> => sha256:54260638d07c5e3ad24c6e21fc889abb8c486a27634c0892086ff71f3f44b104 9.27kB / 9.27kB 0.0s
=> => sha256:0e29546d541cddb309281d21a73a9d1db78665c1b95b74f32b009e0b77a6e1e3 54.92MB / 54.92MB 210.1s
=> => sha256:cb5b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56 10.87MB / 10.87MB 149.8s
=> => sha256:9b829c73b52b92b97d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd 5.15MB / 5.15MB 36.6s
=> => sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793 54.57MB / 54.57MB 177.6s
=> => sha256:6f9f74896dfa93fe0172f594faba85e0b4e8a0481a0fef9112efc7e4d3c78f7 196.51MB / 196.51MB 277.1s
=> => sha256:5e3b1213efc56598e78bd602983945c164de2a37205e06a62dada823124dc743 6.29MB / 6.29MB 196.8s
=> => sha256:9fddfdc56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 14.21MB / 14.21MB 227.4s
=> => sha256:40f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7 235B / 235B 211.9s
=> => extracting sha256:0e29546d541cddb309281d21a73a9d1db78665c1b95b74f32b009e0b77a6e1e3 6.1s
=> => sha256:c4f42be2be53b900ebfbc040c1df13de538434ccc5f5d995a56848a6169a3a3f 2.21MB / 2.21MB 217.1s
=> => extracting sha256:9b829c73b52b92b97d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd 0.7s
=> => extracting sha256:cb5b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56 1.0s
=> => extracting sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793 6.8s
=> => extracting sha256:6f9f74896dfa93fe0172f594faba85e0b4e8a0481a0fef9112efc7e4d3c78f7 23.4s
=> => extracting sha256:5e3b1213efc56598e78bd602983945c164de2a37205e06a62dada823124dc743 1.0s
=> => extracting sha256:9fddfdc56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 3.7s
=> => extracting sha256:40f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7 0.0s
```



### 3. Create a IBM container registry and deploy hello world app or job portal app

```

D:\> cd > job-portal-main > 9s 888ms
>> docker push jp.icr.io/assignment-4/job-portal-image:latest
The push refers to repository [jp.icr.io/assignment-4/job-portal-image]
1123cd971779: Pushed
371132460927: Pushed
31ad0315bd33: Pushed
4b2875ca3326: Pushed
2b3f5aac8b57: Pushed
aa4c808c19f6: Pushed
8ba9f690e8ba: Pushed
3e607d59ef9f: Pushed
1e18e7e1fcc2: Pushed
c3a0d593ed24: Pushed
26a504e63be4: Pushed
8bf42db0de72: Pushed
31892cc314cb: Pushed
11936051f93b: Pushed
latest: digest: sha256:07e869893f7f8bc1e3ba9df888ae907f29d28ba7bda3b3f3e39b6a7aa1106cec size: 3260
  
```



4.Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in nodeport.

