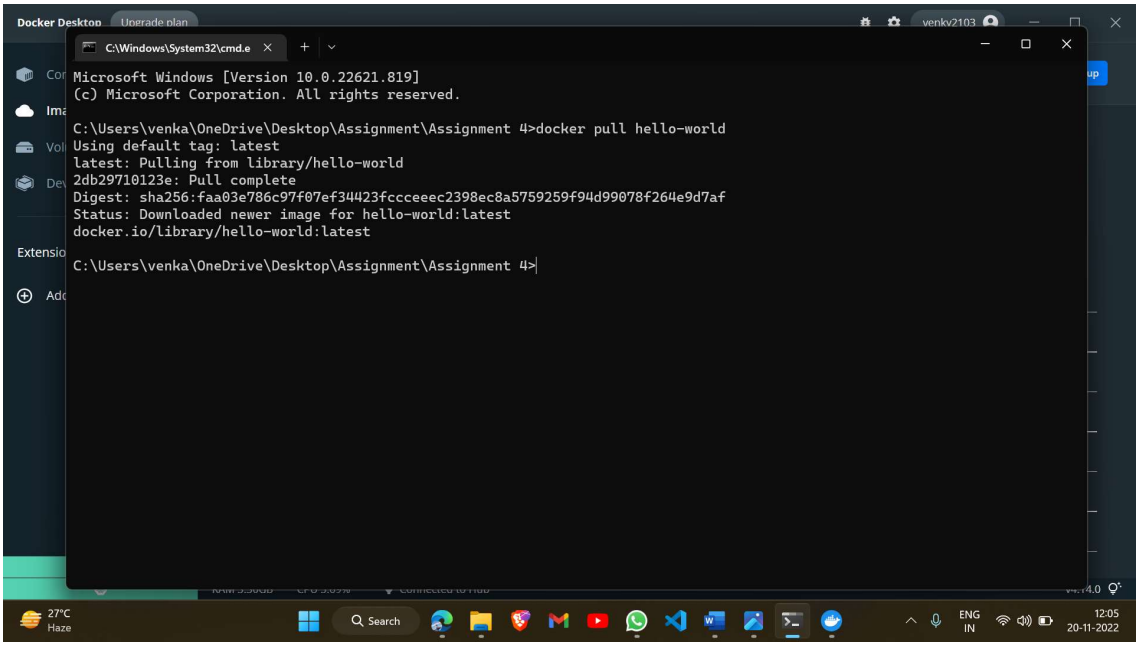
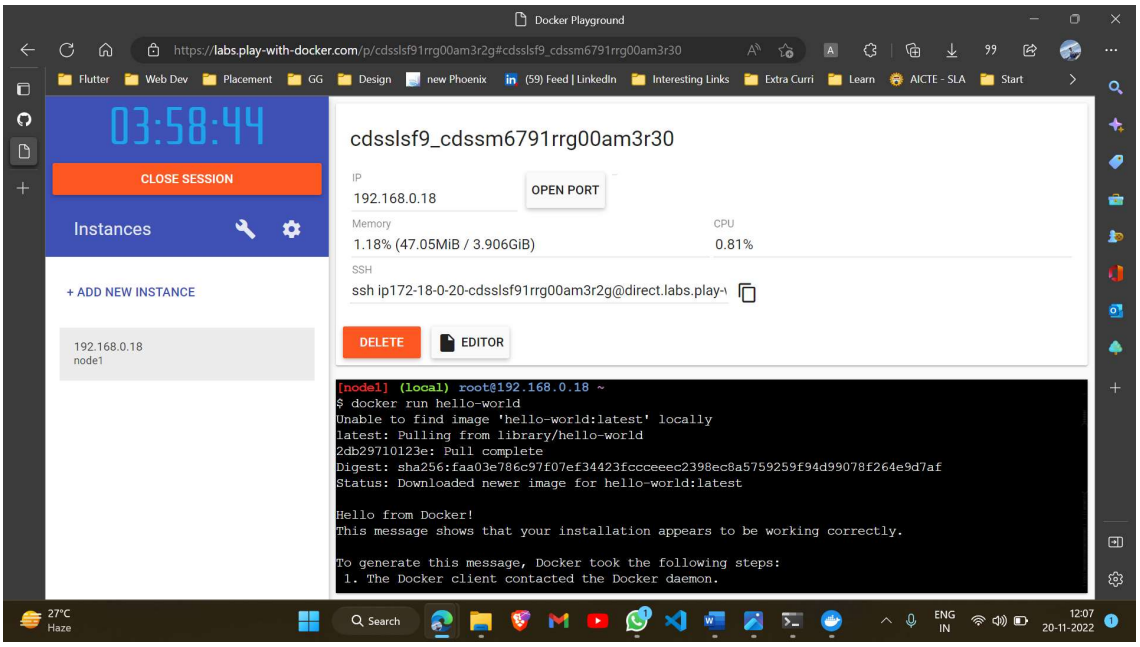
Assignment 4

Kubernetes / Docker

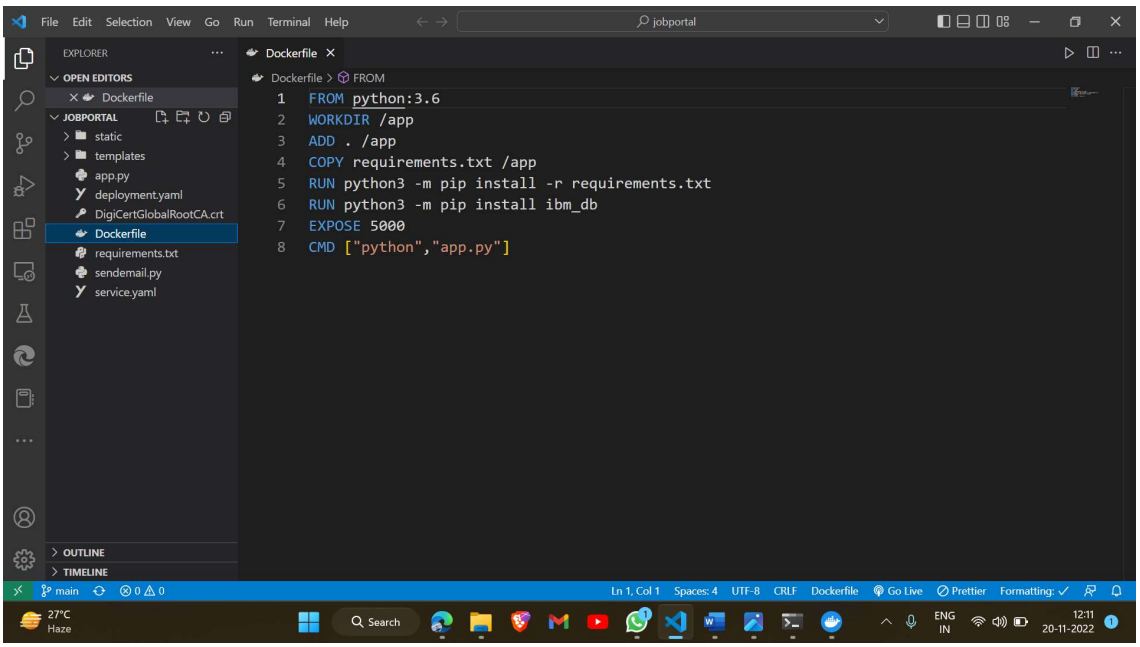
1. Pull an image from docker hub



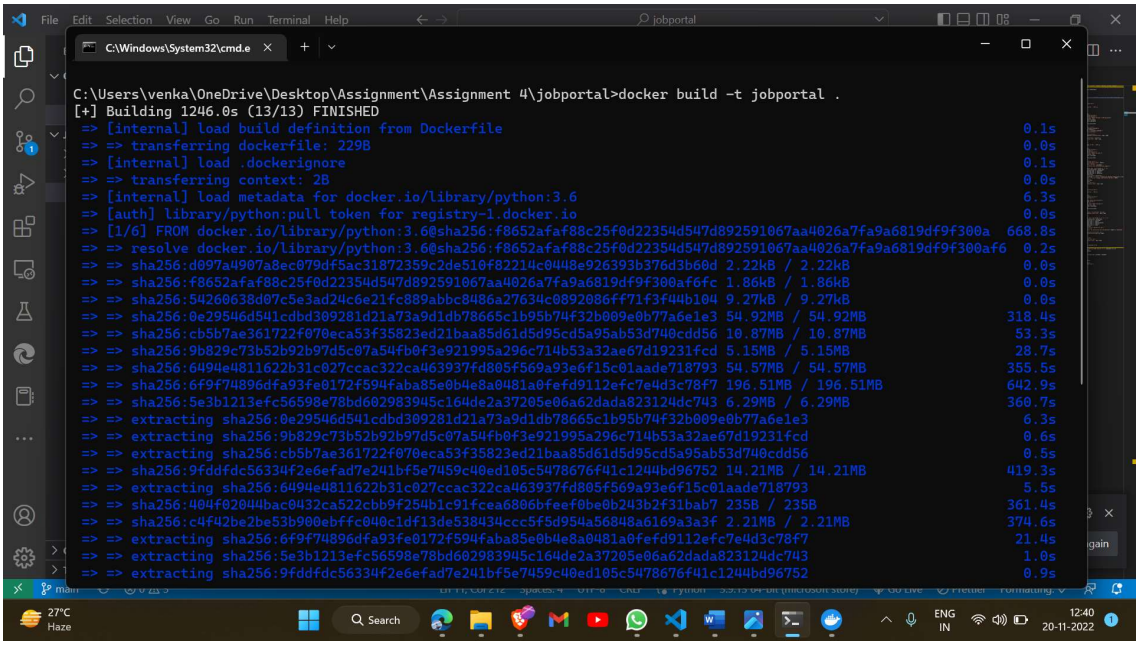
Run in docker playground

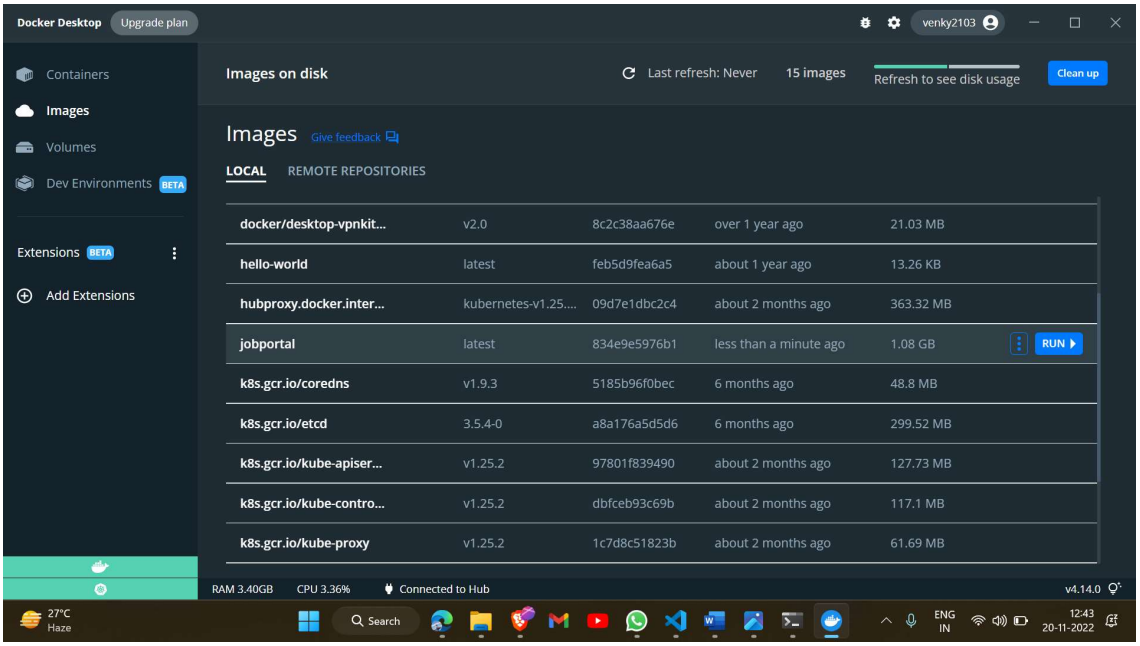


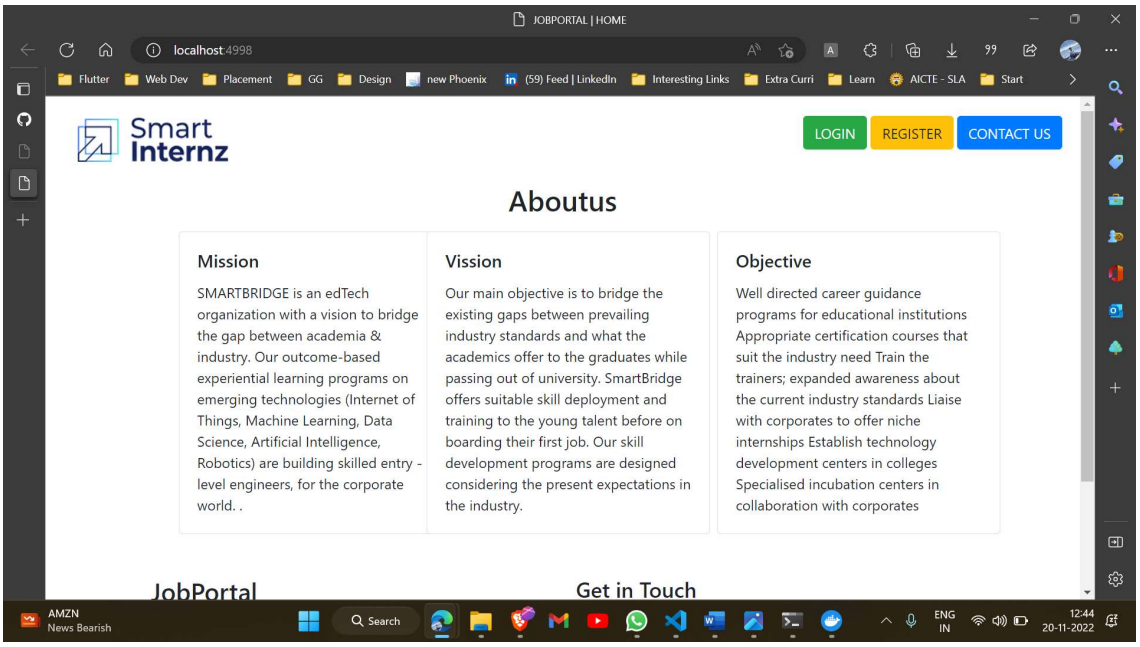
2. Create a docker file for the jobportal application



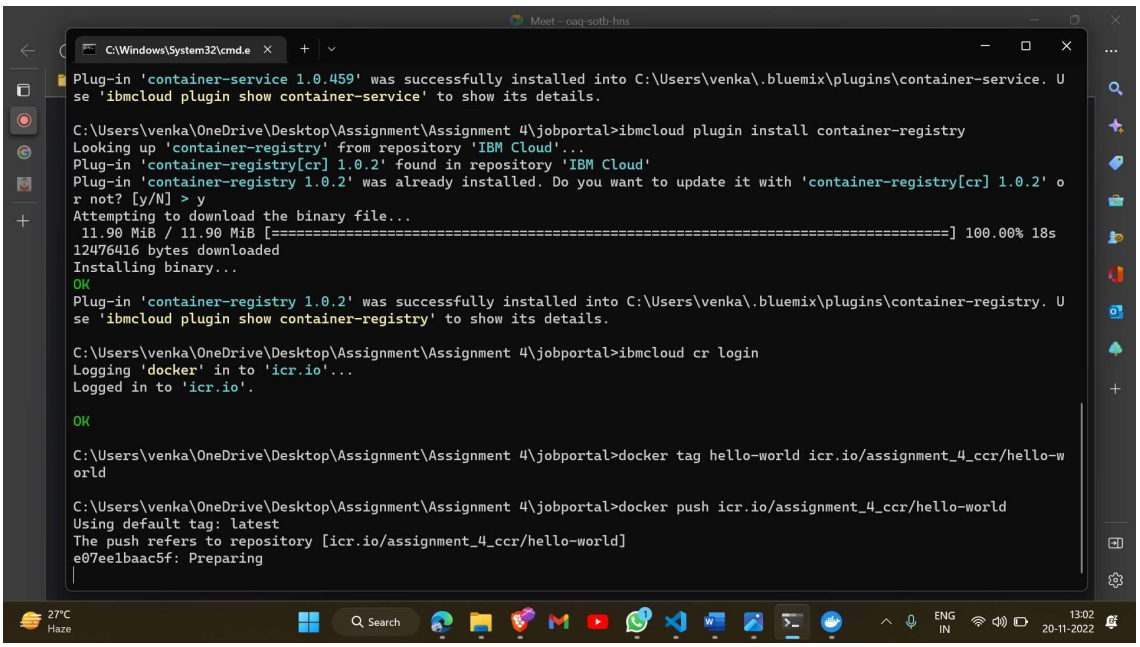
Deploy it in docker application

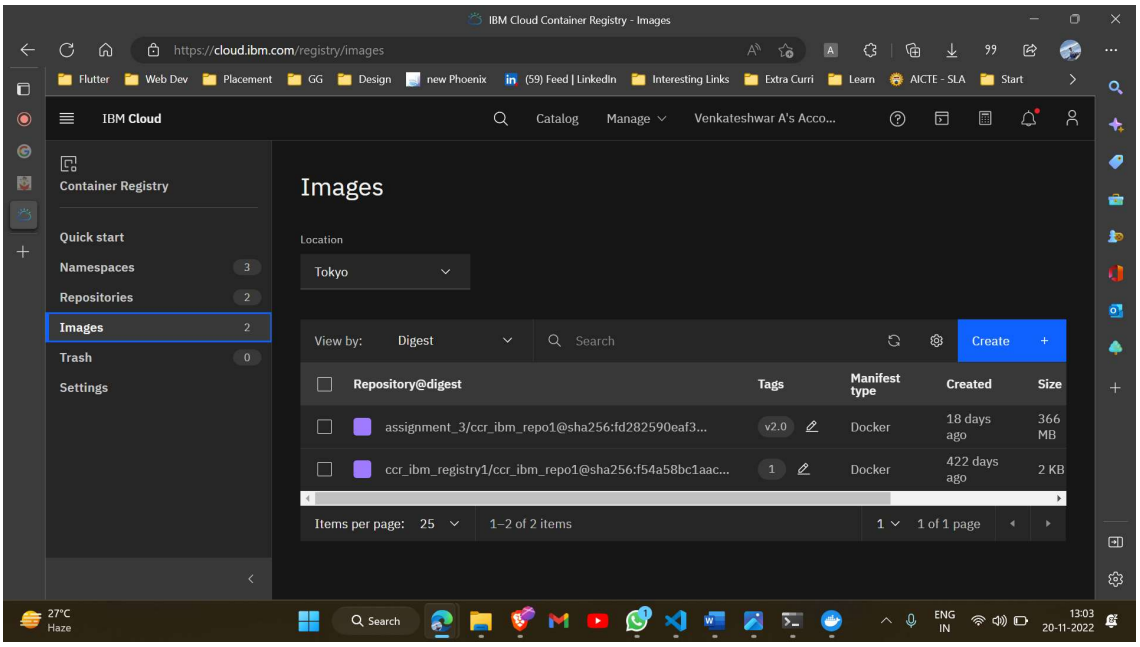

C:\Windows\System32\cmd.e
C:\Users\venka\OneDrive\Desktop\Assignment\Assignment 4\jobportal>docker build -t jobportal .
[+] Building 1246.0s (13/13) FINISHED
=> [internal] load build definition from Dockerfile 0.1s
=> => transferring dockerfile: 229B 0.0s
=> [internal] load .dockerignore 0.1s
=> => transferring context: 2B 0.0s
=> [internal] load metadata for docker.io/library/python:3.6 6.3s
=> [auth] library/python:pull token for registry-1.docker.io 0.0s
=> [1/6] FROM docker.io/library/python:3.6@sha256:f8652afaf88c25f0d22354d547d892591067aa4026a7fa9a6819df9f300a 668.8s
=> => resolve docker.io/library/python:3.6@sha256:f8652afaf88c25f0d22354d547d892591067aa4026a7fa9a6819df9f300af6 0.2s
=> => sha256:d097a4907a8ec079df5ac31872359c2de510f82214c0448e926393b376d3b60d 2.22kB / 2.22kB 0.0s
=> => sha256:f8652afaf88c25f0d22354d547d892591067aa4026a7fa9a6819df9f300af6fc 1.86kB / 1.86kB 0.0s
=> => sha256:54260638d07c5e3ad24c6e21fc889abbc8486a27634c0892086ff71f3f44b104 9.27kB / 9.27kB 0.0s
=> => sha256:0e29546d541cdbd309281d21a73a9d1db78665c1b95b74f32b009e0b77a6e1e3 54.92MB / 54.92MB 318.4s
=> => sha256:cb5b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56 10.87MB / 10.87MB 53.3s
=> => sha256:9b829c73b52b92b97d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd 5.15MB / 5.15MB 28.7s
=> => sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793 54.57MB / 54.57MB 355.5s
=> => sha256:6f9f74896dfa93fe0172f594faba85e0b4e8a0481a0fefd9112efc7e4d3c78f7 196.51MB / 196.51MB 642.9s
=> => sha256:5e3b1213efc56598e78bd602983945c164de2a37205e06a62dada823124dc743 6.29MB / 6.29MB 360.7s
=> => extracting sha256:0e29546d541cdbd309281d21a73a9d1db78665c1b95b74f32b009e0b77a6e1e3 6.3s
=> => extracting sha256:9b829c73b52b92b97d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd 0.6s
=> => extracting sha256:cb5b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56 0.5s
=> => sha256:9fddfdc56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 14.21MB / 14.21MB 419.3s
=> => extracting sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793 5.5s
=> => sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7 235B / 235B 361.4s
=> => sha256:c4f42be2be53b900ebffc040c1df13de538434ccc5f5d954a56848a6169a3a3f 2.21MB / 2.21MB 374.6s
=> => extracting sha256:6f9f74896dfa93fe0172f594faba85e0b4e8a0481a0fefd9112efc7e4d3c78f7 21.4s
=> => extracting sha256:5e3b1213efc56598e78bd602983945c164de2a37205e06a62dada823124dc743 1.0s
=> => extracting sha256:9fddfdc56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 0.9s
27°C Haze
Search
ENG IN
12:40 20-11-2022


Docker Desktop
Upgrade plan
venky2103
Containers
Images
Volumes
Dev Environments BETA
Extensions BETA
Add Extensions
Images on disk
Last refresh: Never
15 images
Refresh to see disk usage
Clean up
Images
Give feedback
LOCAL
REMOTE REPOSITORIES
docker/desktop-vpnkit... v2.0 8c2c38aa676e over 1 year ago 21.03 MB
hello-world latest feb5d9fea6a5 about 1 year ago 13.26 KB
hubproxy.docker.inter... kubernetes-v1.25.... 09d7e1dbc2c4 about 2 months ago 363.32 MB
jobportal latest 834e9e5976b1 less than a minute ago 1.08 GB RUN
k8s.gcr.io/coredns v1.9.3 5185b96f0bec 6 months ago 48.8 MB
k8s.gcr.io/etcd 3.5.4-0 a8a176a5d5d6 6 months ago 299.52 MB
k8s.gcr.io/kube-apiser... v1.25.2 97801f839490 about 2 months ago 127.73 MB
k8s.gcr.io/kube-contro... v1.25.2 dbfceb93c69b about 2 months ago 117.1 MB
k8s.gcr.io/kube-proxy v1.25.2 1c7d8c51823b about 2 months ago 61.69 MB
RAM 3.40GB
CPU 3.36%
Connected to Hub
v4.14.0
27°C Haze
Search
ENG IN
12:43 20-11-2022



3. Create a IBM container registry and deploy helloworld app





4. Create a Kubernetes cluster in IBM Cloud and deploy helloworld images and also expose the same app to run in nodeport