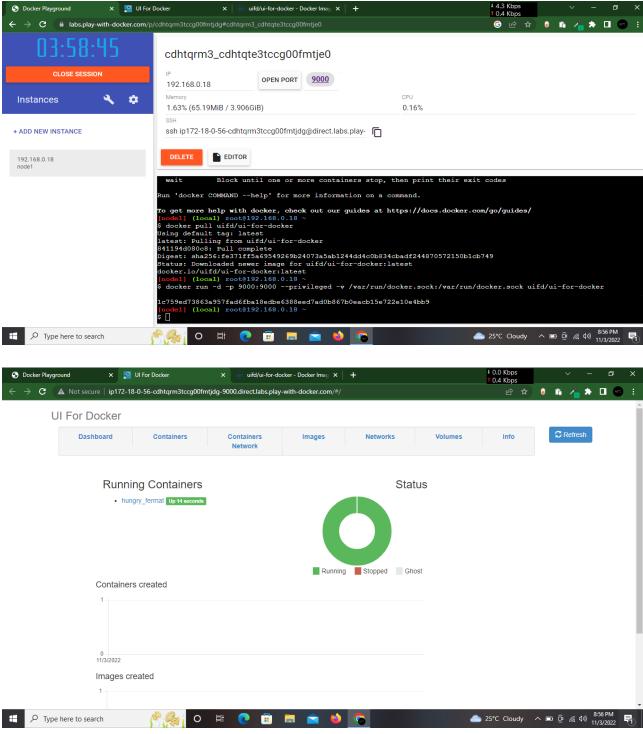
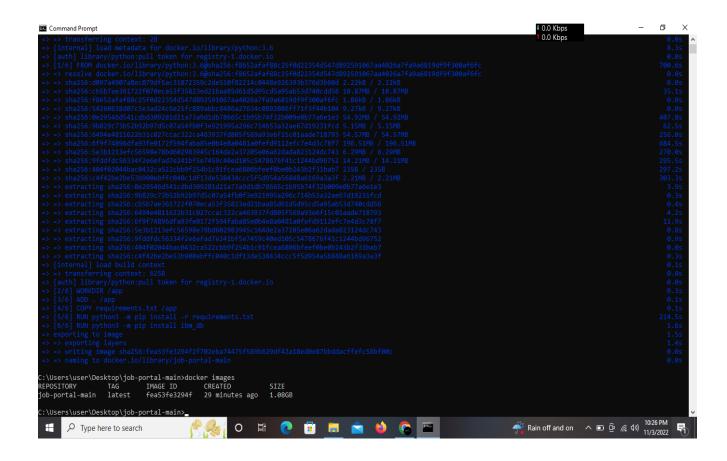
## Assignment -4

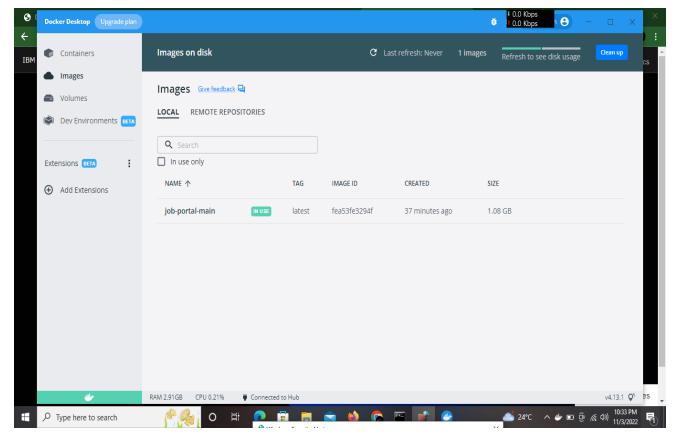
## **Docker and Kubernetes**

1. Pull an image from docker hub and run it in docker Playground.

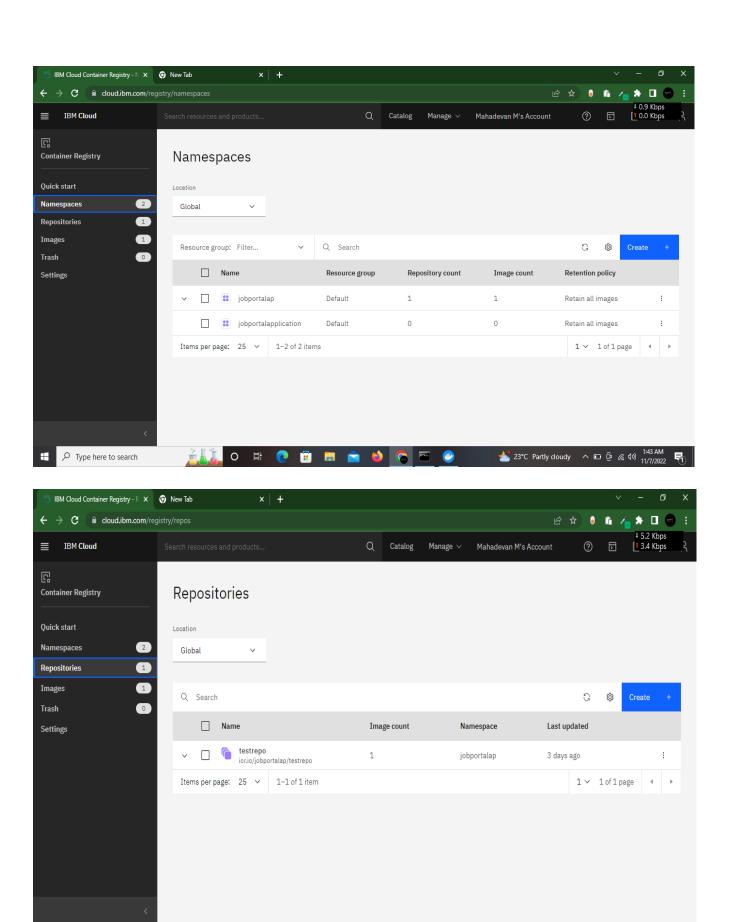


2. Create a docker file for the job portal application and deploy it in Docker desktop application





3.Create a IBM container registry and deploy helloword app



```
ø
Command Prompt - docker run -p 4000:4000 icr.io/jobportalap/testrepo@sha256:ef3608d0cf4c21ce5e9c5e42caa10349538d25697a6e8660476a5b5558c89898
11936051f93b: Layer already exists
jobportaltest: digest: sha256:ef3608d0cf4c21ce5e9c5e42caa10349538d25697a6e8660476a5b5558c89898 size: 3259
 :\Users\user> ibmcloud cr image-list
isting images...
                                                                                                                                                                                                                                                            1 59.1 Kbps
1 40.2 Kbps
                                                                                                                         Created Size
3 days ago 435 MB
 Repository Tag
icr.io/jobportalap/testrepo jobportaltest
                                                                         Digest
ef3608d0cf4c
                                                                                                 Namespace
jobportalap
                                                                                                                                                             Security status
  :\Users\user>docker run -p 5070:5070 icr.io/jobportalap/testrepo
nable to find image 'icr.io/jobportalap/testrepo:latest' locally
ocker: Error response from daemon: manifest for icr.io/jobportalap/testrepo:latest not found: manifest unknown: manifest unknown.
ee 'docker run --help'.
  :\Users\user>docker pull icr.io/jobportalap/testrepo
sing default tag: latest
rror response from daemon: manifest for icr.io/jobportalap/testrepo:latest not found: manifest unknown: manifest unknown
  :\Users\user>docker run -p 4000:4000 icr.io/jobportalap/testrepo@sha256:ef3608d0cf4c21ce5e9c5e42caa10349538d25697a6e8660476a5b5558c89898
* Serving Flask app 'app' (lazy loading)
* Environment: production
   Serving Flask app app (lazy loading)
Environment: production
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
Debug mode: off
Running on all addresses.
WARNING: This is a development server. Do not use it in a production deployment.
Running on http://172.17.0.2:5000/ (Press CTRL+C to quit)
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```

4. Create a Kubernetes cluster in IBM cloud and deploy hello world image and also expose the same app to run in node port.

