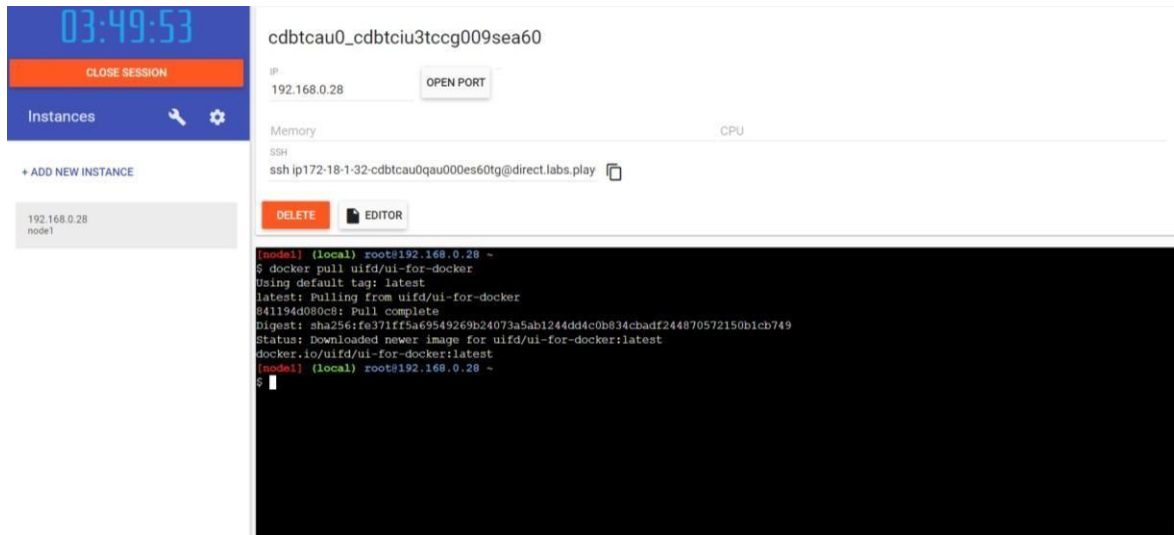
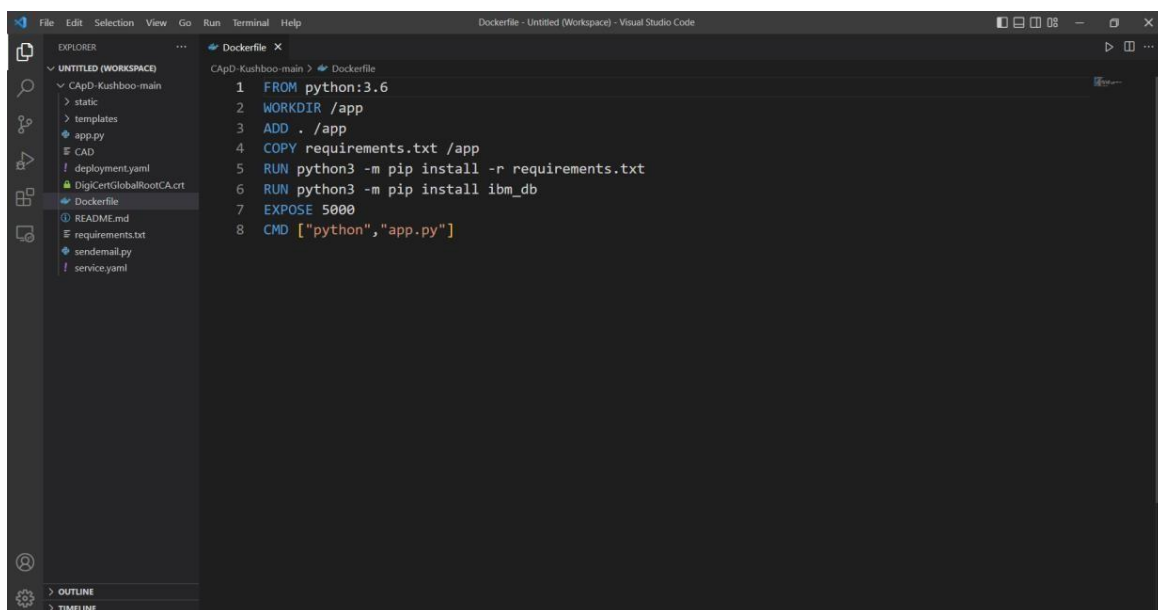


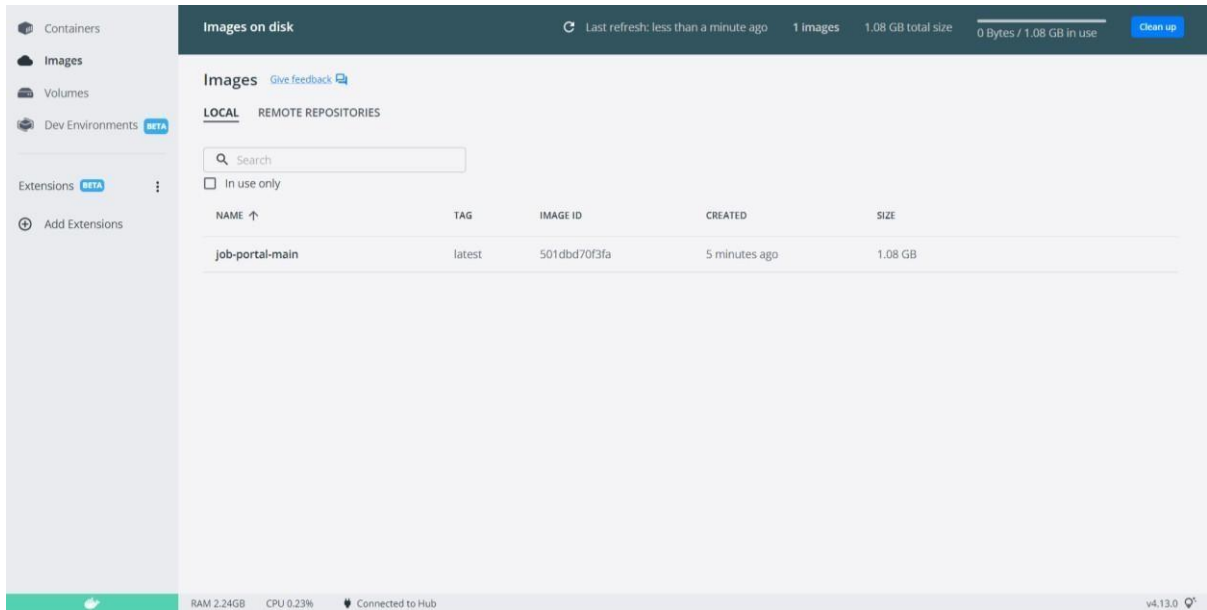
# Assignment – 4

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

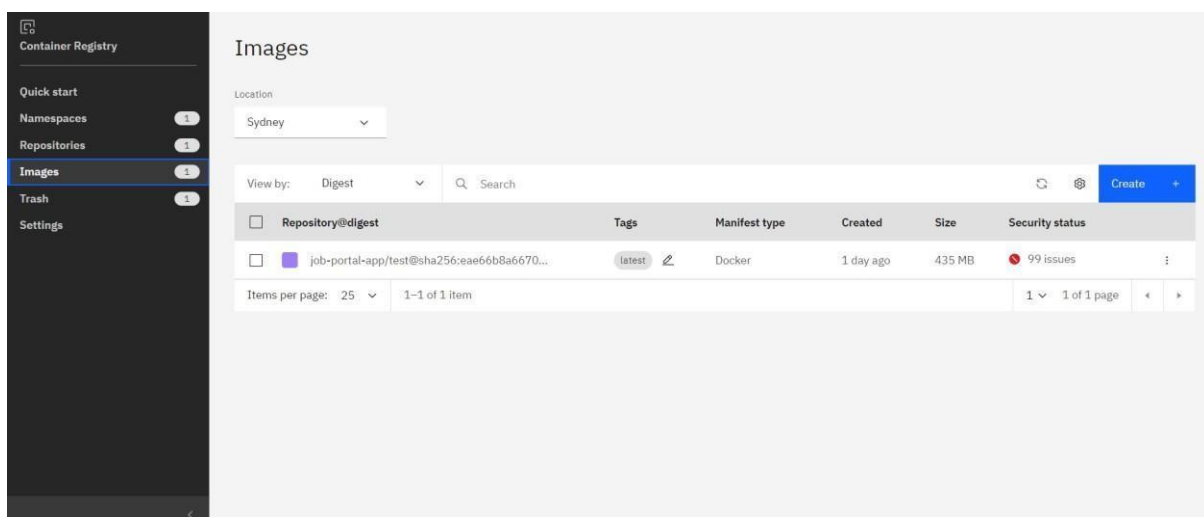
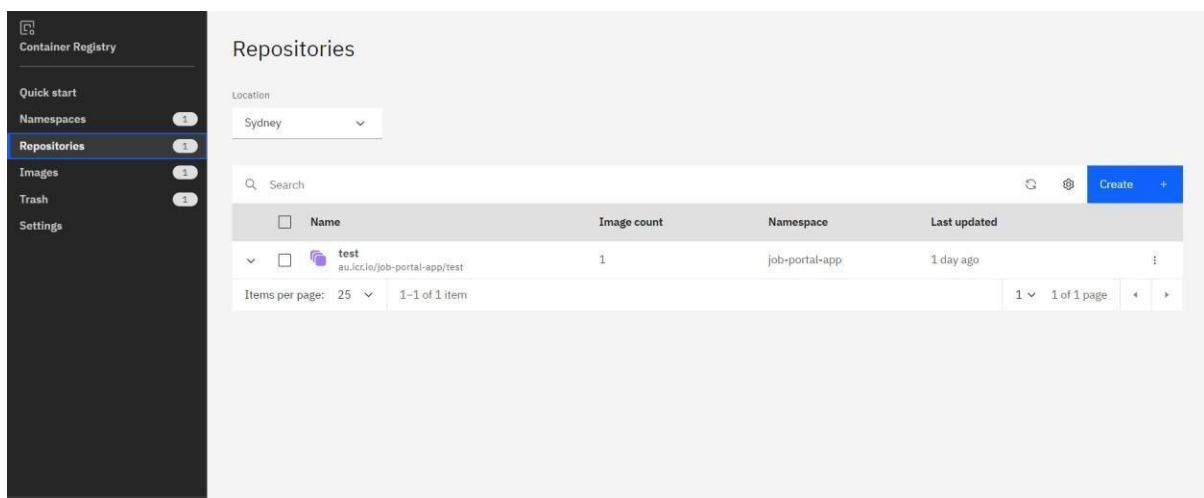


- 2) Create a docker file for the job portal application and deploy it in Docker desktop application.





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



```
Command Prompt - docker run -p 5000:5000 au.icr.io/job-portal-app/test

C:\Users\User>docker push job-portal-main au.icr.io/job-portal-app/test
"docker push" requires exactly 1 argument.
See 'docker push --help'.

Usage:  docker push [OPTIONS] NAME[:TAG]

Push an image or a repository to a registry

C:\Users\User>docker tag job-portal-main au.icr.io/job-portal-app/test

C:\Users\User>docker push au.icr.io/job-portal-app/test
Using default tag: latest
The push refers to repository [au.icr.io/job-portal-app/test]
90ff7c20340: Mounted from job-portal-app/testrepo
3eb3ce3cfab0b: Mounted from job-portal-app/testrepo
4667e693b201: Mounted from job-portal-app/testrepo
324f7e08c4b5: Mounted from job-portal-app/testrepo
789453578d11: Mounted from job-portal-app/testrepo
aa4c808c19f6: Mounted from job-portal-app/testrepo
8ba9f690e8ba: Mounted from job-portal-app/testrepo
3e607d59ef9f: Mounted from job-portal-app/testrepo
1a18e7efce2: Mounted from job-portal-app/testrepo
c3a0d593ed24: Mounted from job-portal-app/testrepo
26a504e63be4: Mounted from job-portal-app/testrepo
8bf42db0de72: Mounted from job-portal-app/testrepo
31892cc314ab: Mounted from job-portal-app/testrepo
11936051493b: Mounted from job-portal-app/testrepo
latest: digest: sha256:eae66b8a6670d0f8f4a8fab20d08acc277b93348a54e0755caa586242ba2c01b size: 3259

C:\Users\User>docker pull au.icr.io/job-portal-app/test
Using default tag: latest
latest: Pulling from job-portal-app/test
Digest: sha256:eae66b8a6670d0f8f4a8fab20d08acc277b93348a54e0755caa586242ba2c01b
Status: Image is up to date for au.icr.io/job-portal-app/test:latest
au.icr.io/job-portal-app/test:latest

C:\Users\User>docker run -p 5000:5000 au.icr.io/job-portal-app/test
* 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)
172.17.0.1 - - [27/Oct/2022 13:43:20] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [27/Oct/2022 13:43:20] "GET /css/style.css HTTP/1.1" 404 -
172.17.0.1 - - [27/Oct/2022 13:43:21] "GET /static/img/smartinternz.png HTTP/1.1" 404 -
```

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

The screenshot shows the 'mycluster-free' dashboard. At the top, it indicates the cluster is 'Normal' and 'Expires in 30 days'. A sidebar on the left has links for 'Overview', 'Worker nodes', 'Worker pools', and 'DevOps' (marked as 'New'). The main area features four status cards: 'Node status' (1 of 1, Normal), 'Add-on status' (0 of 0, Normal), 'Master status' (Normal), and 'Ingress status' (Unknown). Below these is a 'Details' section with a table of cluster information:

Cluster ID	Version	Infrastructure	Zones
cdd9137f80hksau52o0	1.23.13_1550	Classic	Milan 01

Additional details include 'Created' (27/10/2022, 7:37 pm), 'Resource group' (Default), and an 'Image security enforcement' toggle set to 'Enable'. A 'Node health' section is partially visible at the bottom.

