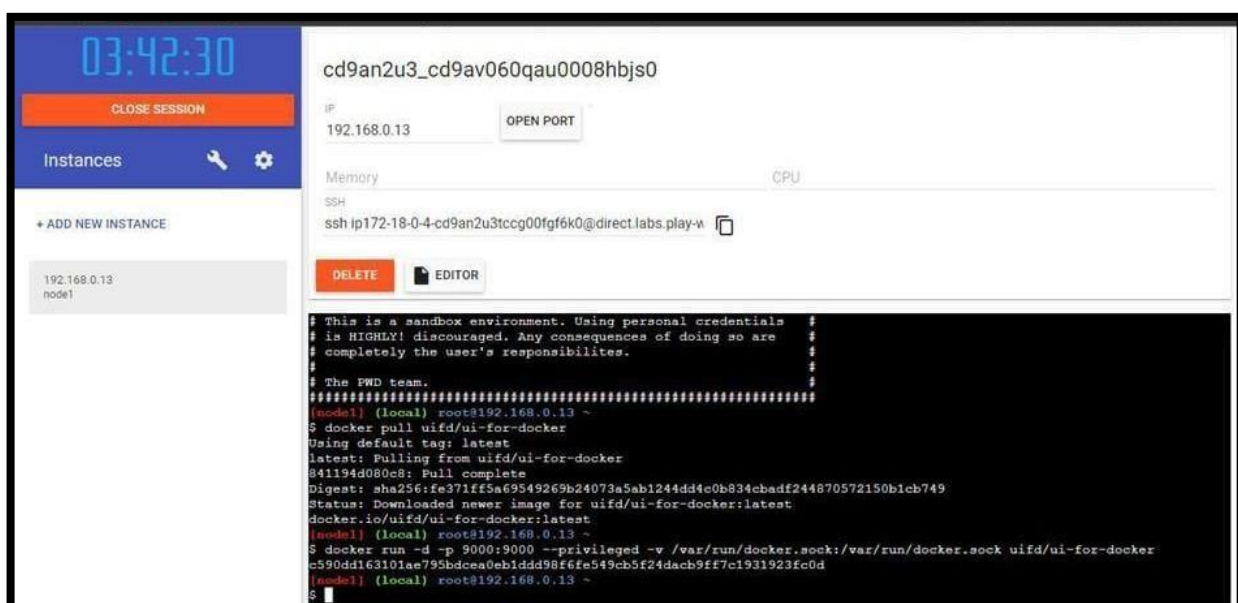
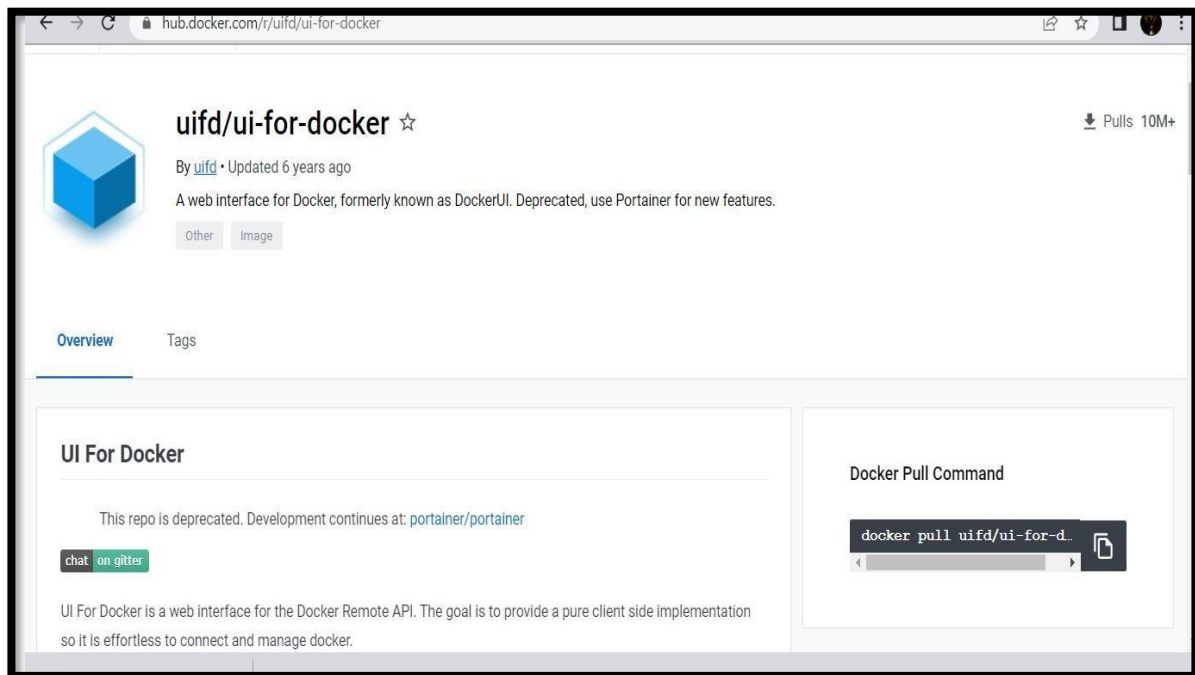
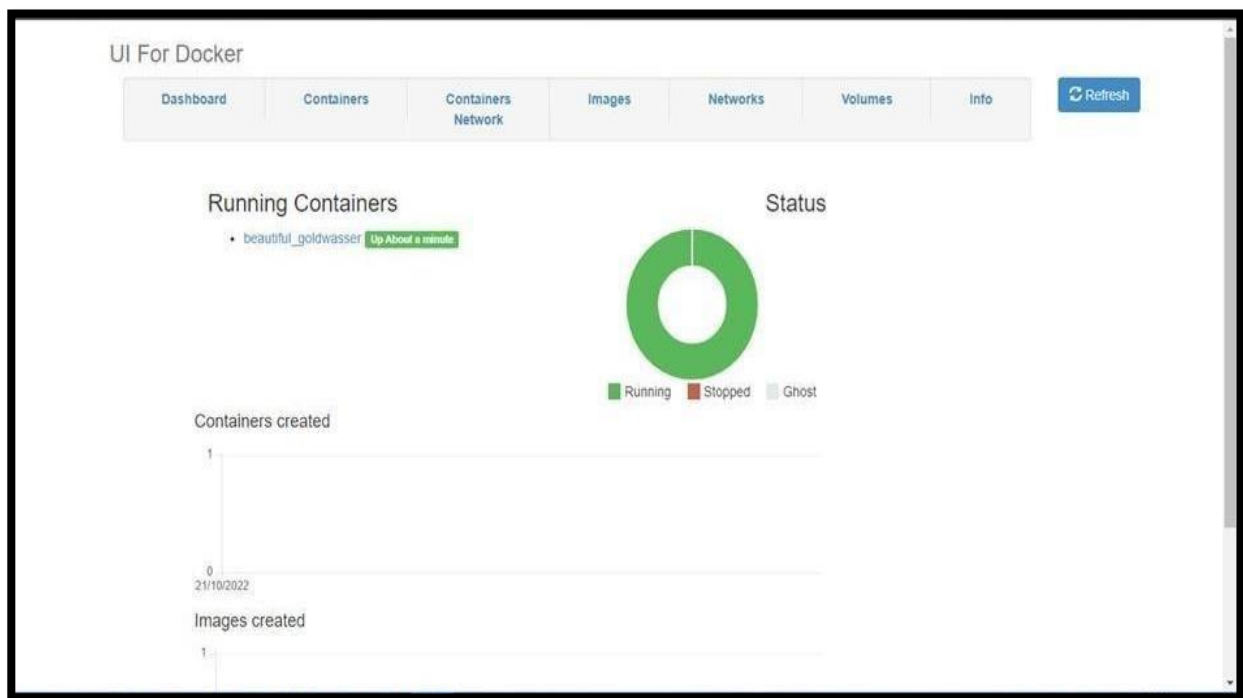
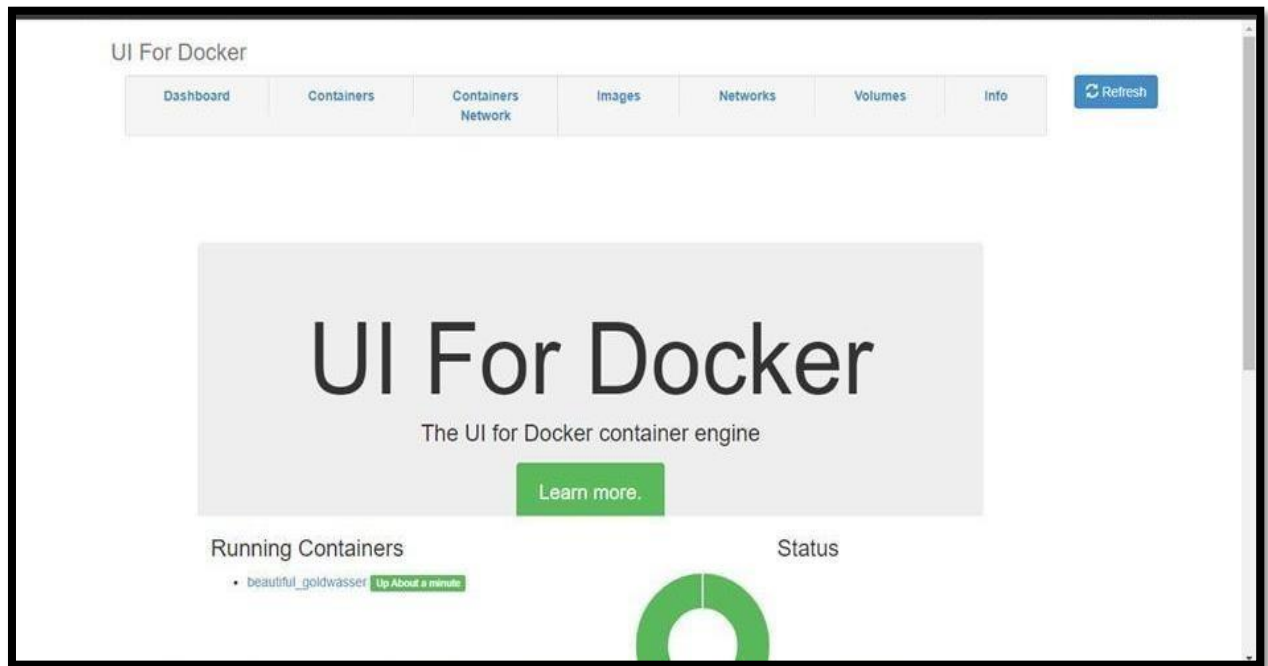


Assignment – 4

Question 1:

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

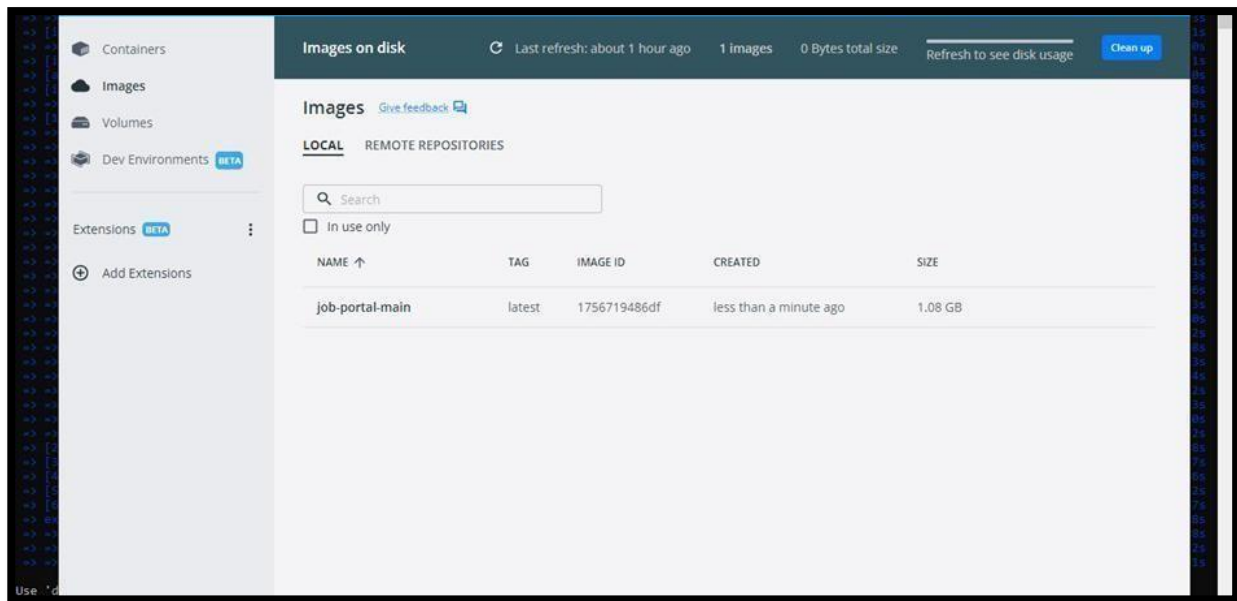




Question 2:

Create a docker file for the job portal application and deploy it in Docker Desktop Application

```
>>> [Internal] load build definition from dockerfile
>>> transferring dockerfile: 32B
>>> [Internal] load .dockignore
>>> transferring context: 2B
>>> [Internal] load metadata for docker.io/library/python:3.6
>>> [auth] library/python:pull token for registry-1.docker.io
>>> [Internal] load build context
>>> transferring context: 687B
>>> [1/6] FROM docker.io/library/python:3.6@sha256:f8652afaf88c25f8d22354d547d892591867aa4026a7fa9a0819df9f300af6fc
>>> resolve docker.io/library/python:3.6@sha256:f8652afaf88c25f8d22354d547d892591867aa4026a7fa9a0819df9f300af6fc
>>> sha256:f8652afaf88c25f8d22354d547d892591867aa4026a7fa9a0819df9f300af6fc 1.86kB / 1.86kB
>>> sha256:d897a4087a8ec878df5ac31872359c2de510f82214c0448e826393b376d3b60d 2.22kB / 2.22kB
>>> sha256:54768c38007c9e3a24cc621fc889a0bc848c677634c807208a77f1f3f4ab104 9.27kB / 9.27kB
>>> sha256:8e295462544cd07d92b1d21a7509d1d078685c1595b74f320409e0b77ade1e3 54.92MB / 54.92MB
>>> sha256:90829c73652b02b97d5c87a54fb8f3a921995a296c714b51a32ae67019231fcd 5.15MB / 5.15MB
>>> sha256:c85b7ae361722f478eca53f35823ed71baa85d61d5d95cd5a95ab53d740cdd56 10.87MB / 10.87MB
>>> sha256:8494e4811622b31c027ccac322ca463937fd895f569a93e6f15c01aade718793 54.57MB / 54.57MB
>>> sha256:6f9f74896df93fe0172f504fab85e0b4e8a0481a0fef0d112efc7e4d3c78f7 196.51MB / 196.51MB
>>> sha256:5e3b1213efc56598e78bd607083045c164de2a37205e06a62ada823124dc743 6.29MB / 6.29MB
>>> extracting sha256:0e295462544cd07d92b1d21a7509d1d078685c1595b74f320409e0b77ade1e3
>>> sha256:9fd0f4c56334f2e6efad7e241bf5e7459c40ed185c5478676f41c1244bd96762 14.21MB / 14.21MB
>>> extracting sha256:9b828c73652b02b97d5c87a54fb8f3a921995a296c714b51a32ae67019231fcd 2.35
>>> extracting sha256:c85b7ae361722f478eca53f35823ed71baa85d61d5d95cd5a95ab53d740cdd56 4.86
>>> sha256:48a7620440ac0432ca522cb09f25401c91fcaa080b0fee0be0b243b2f31bab7 2350 / 2350
>>> sha256:c8442b2be53b908ebffc040c1df13de53843acc5f5d954a50848a6169a3a3f 2.21MB / 2.21MB
>>> extracting sha256:6494e4811622b31c027ccac322ca463937fd895f569a93e6f15c01aade718793 27.34
>>> extracting sha256:6f9f74896df93fe0172f504fab85e0b4e8a0481a0fef0d112efc7e4d3c78f7 133.44
>>> sha256:5e3b1213efc56598e78bd607083045c164de2a37205e06a62ada823124dc743 8.2x
>>> extracting sha256:9fd0f4c56334f2e6efad7e241bf5e7459c40ed185c5478676f41c1244bd96762 11.3x
>>> extracting sha256:48a7620440ac0432ca522cb09f25401c91fcaa080b0fee0be0b243b2f31bab7 0.0x
>>> extracting sha256:c8442b2be53b908ebffc040c1df13de53843acc5f5d954a50848a6169a3a3f 2.7x
>>> [2/6] WORKDIR /app
>>> [3/6] ADD ./ /app
>>> [4/6] COPY requirements.txt /app
>>> [5/6] RUN python3 -m pip install -r requirements.txt
>>> [6/6] RUN python3 -m pip install ihm_db
>>> exporting to image
>>> exporting layers
>>> uplling image sha256:1756719480df002fad5dae305c5225131f2ff2d1b49a80242b22a20af0379f19
>>> naming to docker.io/library/job-portal:main
>>> Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
```



Question 3:

Create an IBM container registry and deploy helloworld app or Job portal app.

```
PS C:\Users\HP> docker tag hello-world icr.io/0034ns/helloworld
PS C:\Users\HP> docker push icr.io/0034ns/helloworld
Using default tag: latest
The push refers to repository [icr.io/0034ns/helloworld]
e07ee1baac5f: Pushed
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
```

Question 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.

