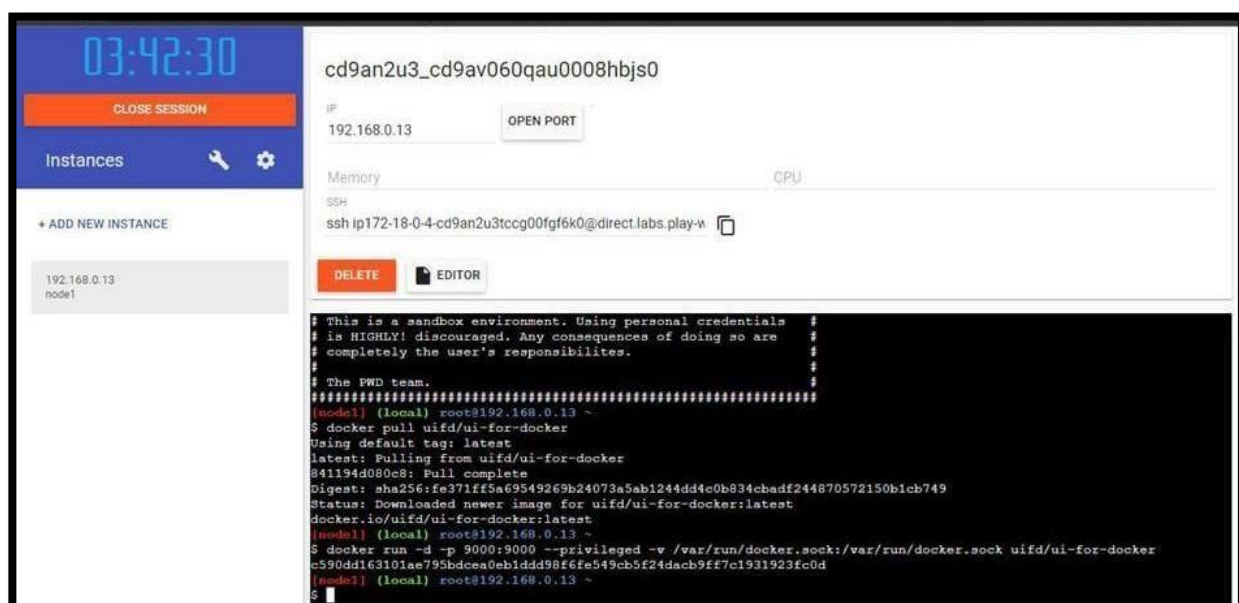
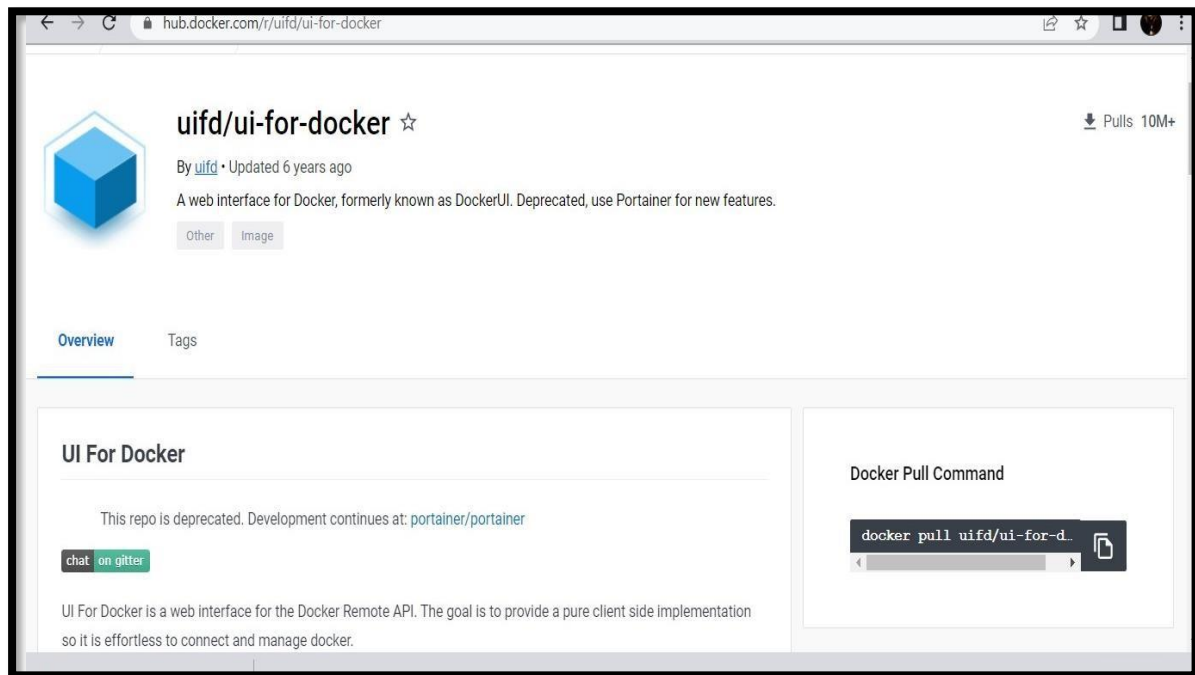
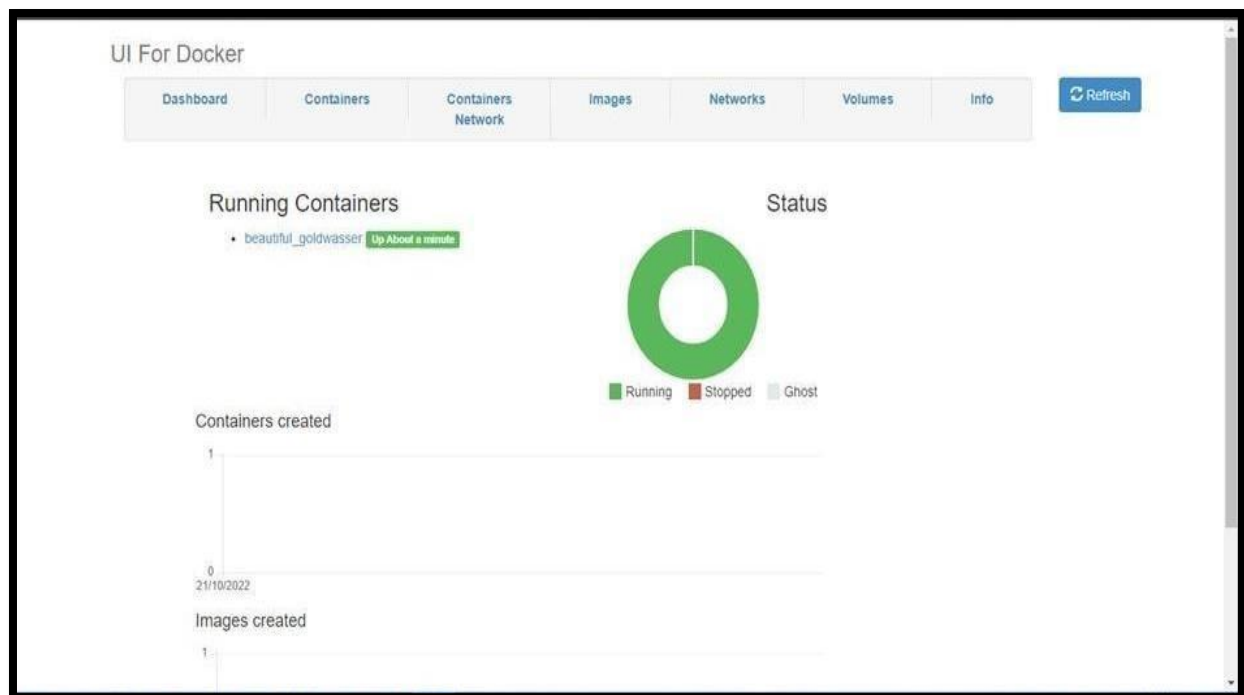
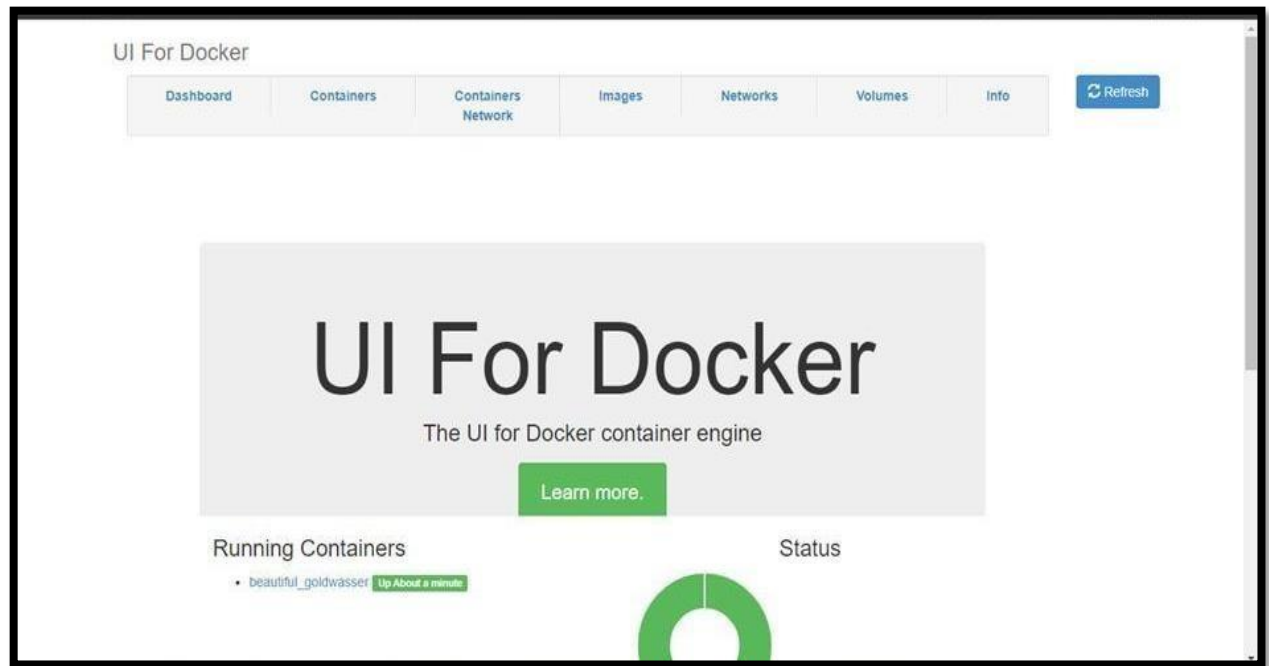


Assignment – 4

Question 1:

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





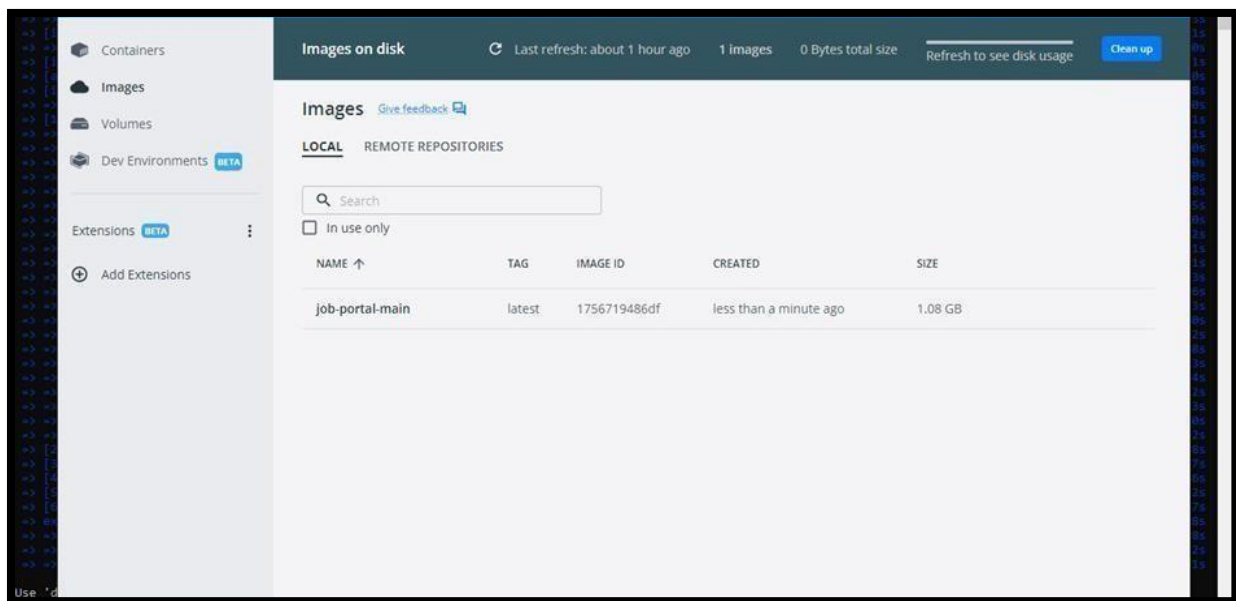
Question 2:

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:f8652afaf88c25fbd22354d547d892591067aa4026a7fa9a6819ef9f300af6fc
->> resolve docker.io/library/python:3.6@sha256:f8652afaf88c25fbd22354d547d892591067aa4026a7fa9a6819ef9f300af6fc
->> sha256:f8652afaf88c25fbd22354d547d892591067aa4026a7fa9a6819ef9f300af6fc 1.86kB / 1.86kB
->> sha256:d097a007a8ec879df5ac31872350c2de510f82214c0448e926393b376d3b60d 2.22kB / 2.22kB
->> sha256:5476862807c6eadd4c6621c480eb0c8486a27634c00708af771f3744b104 9.27kB / 9.27kB
->> sha256:8e295462c4c0b092b1021a79a9d1d72685c1b55b74f3204090b77ade1e3 54.92MB / 54.92MB
->> sha256:90829c73652b02b97d5c87a54fb8f3e921995a296c714b51a37ae67d19231fcd 5.15MB / 5.15MB
->> sha256:c8567ae361722f470eca53f35823ed71baa85d61d5d95cd5a95ab53d740cdd56 10.87MB / 10.87MB
->> sha256:6494e4811622b31c027ccac322ca463937fd805f569a91e6f15c01aade718793 54.57MB / 54.57MB
->> sha256:6f9f74890df93fe0172f504fab85e0b4e8a0481a0fef0112efc7e4d3c78f7 196.51MB / 196.51MB
->> sha256:5e3b1213efc56598e78bd602983945c164de2a37285e06a62ada823124dc743 6.29MB / 6.29MB
->> extracting sha256:0e29546d541c0b309281d21a73a9d1db78665c1d95b74f32b009e0b77abe1e3 27.33
->> sha256:9fd0f0c5e33f2a6efa37e241df5e7459cd0ed186c5e78676f41c1244b096752 14.21MB / 14.21MB
->> extracting sha256:0e29546d541c0b309281d21a73a9d1db78665c1d95b74f32b009e0b77abe1e3 2.35
->> extracting sha256:c8567ae361722f470eca53f35823ed71baa85d61d5d95cd5a95ab53d740cdd56 0.80
->> sha256:404f62044bac0432ca522c0b9f254b1c91fcaad800bfee0be0b243b2f31bab7 2350 / 2350
->> sha256:c4f42be2be53b900bfff040c1d0f13de530434ccc5f5d954a50848d109a3a3f 2.21MB / 2.21MB
->> extracting sha256:6404e4811622b31c027ccac322ca463937fd805f569a91e6f15c01aade718793 27.33
->> extracting sha256:6f9f74890df93fe0172f504fab85e0b4e8a0481a0fef0112efc7e4d3c78f7 131.45
->> sha256:5e3b1213efc56598e78bd602983945c164de2a37285e06a62ada823124dc743 0.28
->> extracting sha256:9fd0f0c5e33f2a6efa37e241df5e7459cd0ed186c5e78676f41c1244b096752 11.38
->> extracting sha256:404f62044bac0432ca522c0b9f254b1c91fcaad800bfee0be0b243b2f31bab7 0.00
->> extracting sha256:c4f42be2be53b900bfff040c1d0f13de530434ccc5f5d954a50848d109a3a3f 2.74
->> [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
->> writing image sha256:1756719486df002fad5dae305c522513f2ff2d1b49a8d242b2a20ef0379f19
->> 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

export DOCKER_CLI_EXPERIMENTAL=enabled



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.

