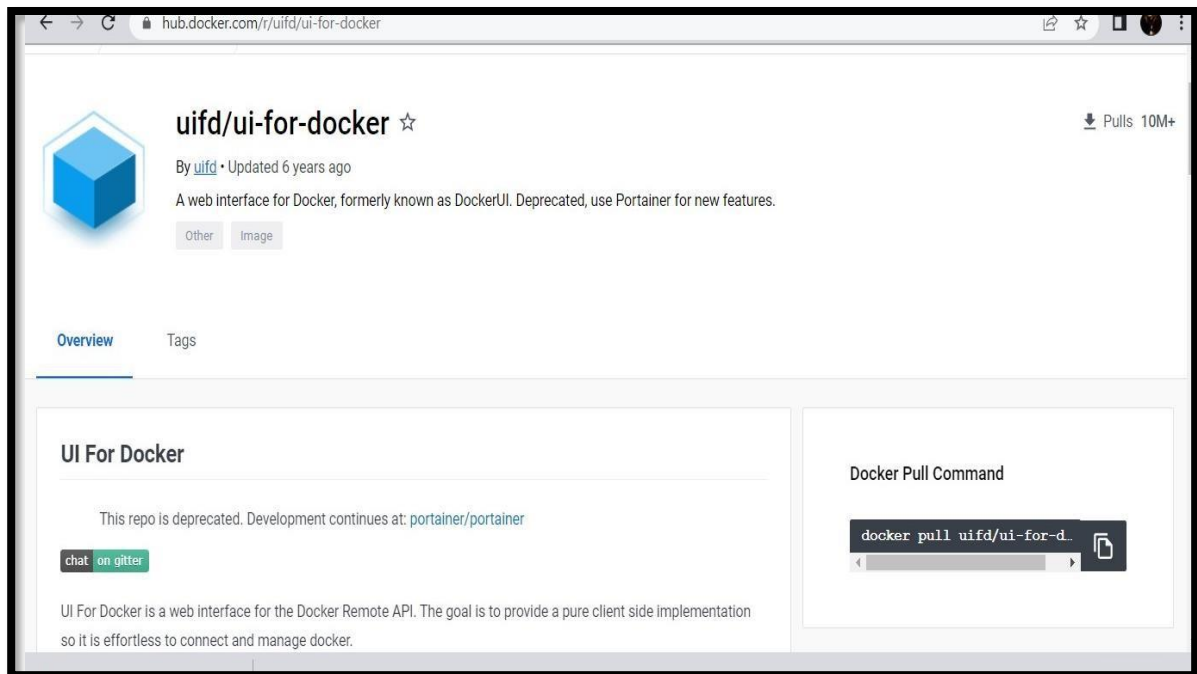


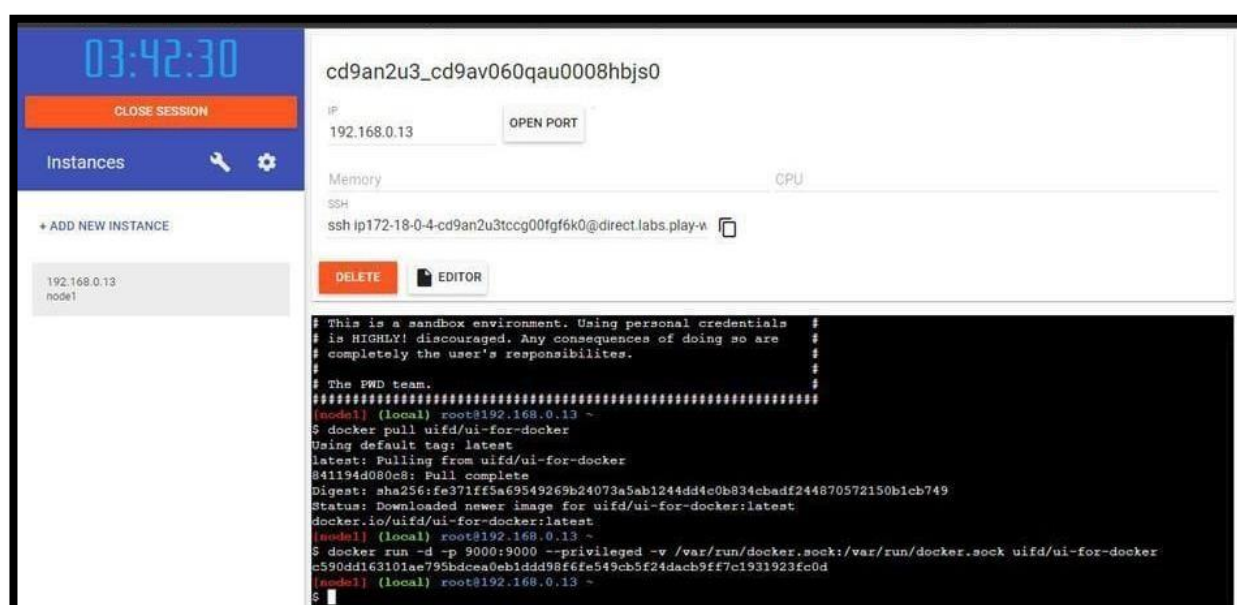
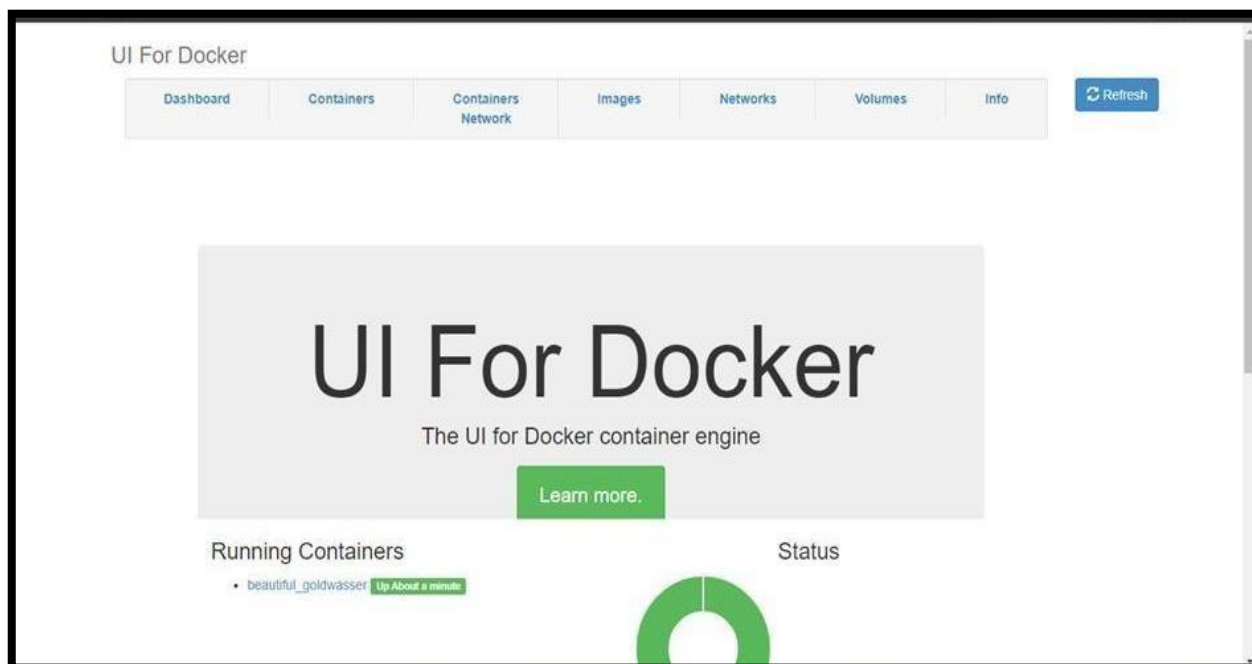
## Assignment – 4

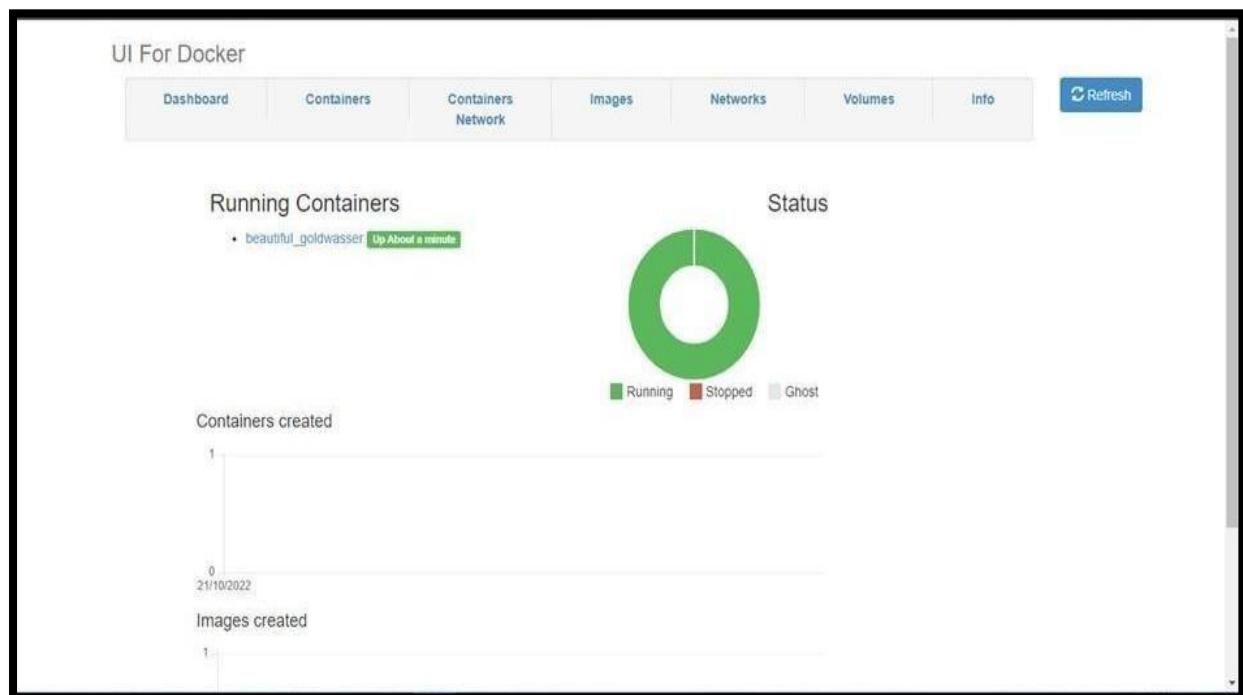
Assignment Date	15 oct 2022
Team ID	PNT2022TMID01767
Maximum Marks	2 Marks

### Question 1:

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







## Question 2:

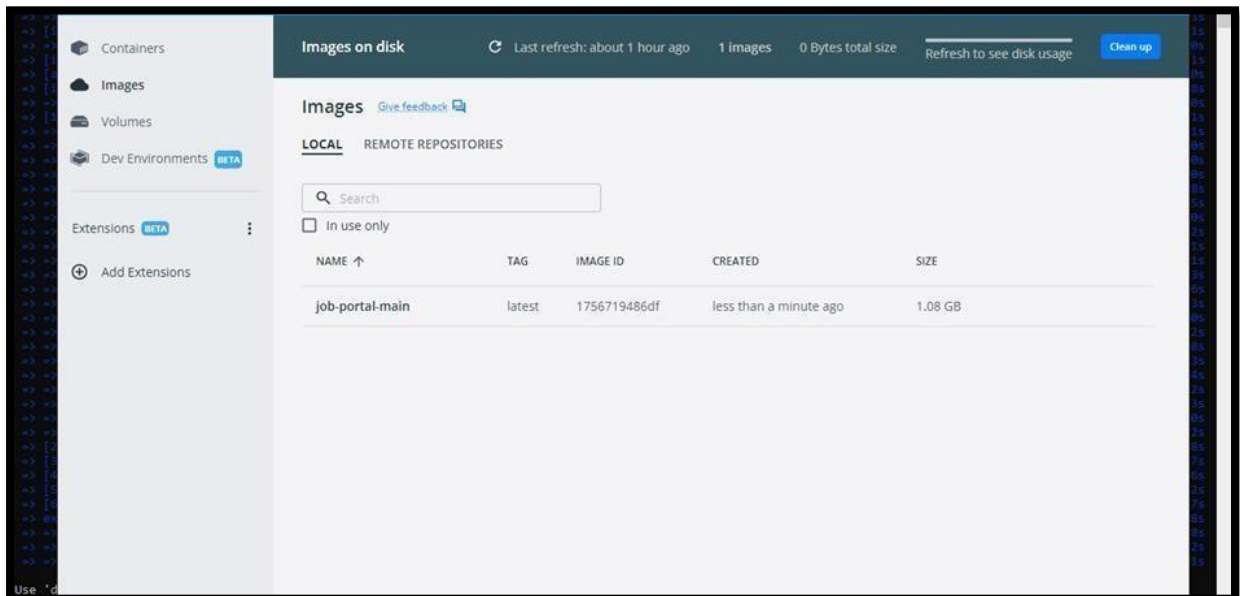
Create a docker file for the job portal application and deploy it in Docker Desktop Application

```

-> [internal] load build definition from dockerfile
-> transferring dockerfile: 32B
-> [internal] load .dockerignore
-> 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:f8652afaf88c25f8d223540547d892591067aa4026a7fa9a0190f9f300af0fc
-> resolve docker.io/library/python:3.6@sha256:f8652afaf88c25f8d223540547d892591067aa4026a7fa9a0190f9f300af0fc
-> sha256:f8652afaf88c25f8d223540547d892591067aa4026a7fa9a0190f9f300af0fc 1.80kB / 1.80kB
-> sha256:d097a087a0ec0790f5ac11072350c3de510f8221ac8448e876393b37d3b60d 2.22kB / 2.22kB
-> sha256:54260e38087c5a3ad24c6e21f889abbcc848ea27634c0092080ef771f3f44b104 9.27kB / 9.27kB
-> sha256:0e29546d54cd0d309201d21a73a0d1db7665c1b95b74f320009eb77a6e1e3 54.92MB / 54.92MB
-> sha256:9b828c73b52b92b97d5c07a54fb0f3e921995a296c714b53a32ae67019231fcd 5.15MB / 5.15MB
-> sha256:c5b77ae361722f078eca53f35823ed21baa85d616d095cd5a92ab53d740cdd56 10.87MB / 10.87MB
-> sha256:6404e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793 54.57MB / 54.57MB
-> sha256:0f9f74090dfap3f6e8172f504faba85e084a8481aeef09112efc764d3c7877 196.51MB / 196.51MB
-> sha256:9e01212ef56598c780d60908395c154de2a37780e0eaf4ada22124dc743 6.29MB / 6.29MB
-> extracting sha256:0e29546d54cd0d309201d21a73a0d1db7665c1b95b74f320009eb77a6e1e3
-> sha256:9fd0fd56334f2e6ead7e241bf5c7450c40ed105c5478676f41c1244bd06752 14.21MB / 14.21MB
-> extracting sha256:9b828c73b52b92b97d5c07a54fb0f3e921995a296c714b53a32ae67019231fcd
-> extracting sha256:c5b77ae361722f078eca53f35823ed21baa85d616d095cd5a92ab53d740cdd56
-> sha256:404f02044bac0432ca522cb09f254b1c91fcea0806feef0be0b243b2f31bab7 235B / 235B
-> sha256:c4f42be2be53b900ebfffc040c1df13de538434cc5f5d954a50848a6109a3a3f 2.21MB / 2.21MB
-> extracting sha256:6404e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793
-> extracting sha256:0f9f74090dfap3f6e8172f504faba85e084a8481aeef09112efc764d3c7877
-> extracting sha256:5e3b1213efc5590e780d602083945c164d62a37720e0d6a20ad023124dc743
-> extracting sha256:9fd0fd56334f2e6ead7e241bf5c7450c40ed105c5478676f41c1244bd06752
-> extracting sha256:404f02044bac0432ca522cb09f254b1c91fcea0806feef0be0b243b2f31bab7
-> extracting sha256:c4f42be2be53b900ebfffc040c1df13de538434cc5f5d954a50848a6109a3a3f
-> [2/6] WORKDIR /app
-> [3/6] ADD . /app
-> [4/6] COPY requirements.txt /app
-> [5/6] RUN python3 -m pip install -r requirements.txt
-> [5/6] RUN python3 -m pip install lm_db
-> exporting to image
-> exporting layers
-> writing image sha256:1756719486df002fa05dae305c5221513f2f2d1b49a80242b23a28af0379f19
-> 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.

