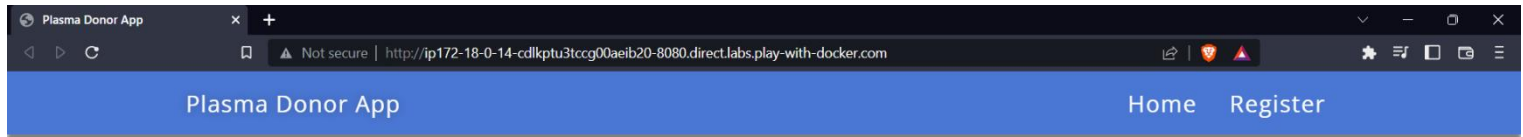


# ASSIGNMENT – 4

TEAM ID : PNT2022TMID39311

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

```
Windows PowerShell
[node1] (local) root@192.168.0.18 ~
$ docker pull sandeepdoodigani/sandeepplasmaapp
Using default tag: latest
latest: Pulling from sandeepdoodigani/sandeepplasmaapp
ff3a5c916c92: Already exists
44014a6ad6bc: Already exists
9e372a7142ef: Already exists
3ab6d28ced3c: Already exists
27f34cba021a: Already exists
e41edf8b2dfb: Already exists
b81dfcb06cd2: Already exists
77da8c55ef4f: Already exists
059c5afdc011: Already exists
Digest: sha256:2bada5a8fdea96f2333cac7c7d3b1f6cd70ac0f3ab8d7ebf76b1d59242682da2
Status: Downloaded newer image for sandeepdoodigani/sandeepplasmaapp:latest
docker.io/sandeepdoodigani/sandeepplasmaapp:latest
[node1] (local) root@192.168.0.18 ~
$ docker run -d -p 8080:8080 sandeepdoodigani/sandeepplasmaapp
49df12c8b214dfa018e19d39b1cdac7985ba51d4ecb7fc6531465221c59ddb27
[node1] (local) root@192.168.0.18 ~
$ docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS                    NAMES
49df12c8b214   sandeepdoodigani/sandeepplasmaapp   "python app.py"         14 seconds ago Up 13 seconds   0.0.0.0:8080→8080/tcp    heuristic_euler
cd341e53a165   uifd/ui-for-docker                  "/ui-for-docker"       10 minutes ago Up 10 minutes   0.0.0.0:9000→9000/tcp    tender_pascal
[node1] (local) root@192.168.0.18 ~
$
```



Login

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

Dockerfile

Assignment-4 > Task - 2 > JOB PORTAL > Dockerfile

1

FROM python:3.6

2

WORKDIR /app

3

ADD . /app

4

COPY requirements.txt /app

5

RUN python3 -m pip install -r requirements.txt

6

RUN python3 -m pip install ibm\_db

7

EXPOSE 5000

8

CMD ["python", "app.py"]

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README.md

TERMINAL

[+] Building 299.0s (12/12) FINISHED

=> [internal] load build definition from Dockerfile 0.1s

=> => transferring dockerfile: 229B 0.0s

=> [internal] load .dockerignore 0.1s

=> => transferring context: 2B 0.0s

=> [internal] load metadata for docker.io/library/python:3.6 3.7s

=> [auth] library/python:pull token for registry-1.docker.io 0.0s

=> [1/6] FROM docker.io/library/python:3.6@sha256:f8652afaf88c25f0d22354d547d892591067aa026a7fa9a6819df9f300af6fc 65.2s

=> => resolve docker.io/library/python:3.6@sha256:f8652afaf88c25f0d22354d547d892591067aa026a7fa9a6819df9f300af6fc 0.0s

=> => sha256:f8652afaf88c25f0d22354d547d892591067aa026a7fa9a6819df9f300af6fc 1.86kB / 1.86kB 0.0s

=> => sha256:d097a4907a8ec079df5ac31872359c2de510f82214c0448e926393b376d3b60d 2.22kB / 2.22kB 0.0s

=> => sha256:5426b638d07c5e3ad24c6e21fc889abb8486a27634c0892086ff71f3f44b104 9.27kB / 9.27kB 0.0s

=> => sha256:0e29546d541cddb309281d21a73a9d1db78665c1b95b74f32b009e0b77a6e1e3 54.92MB / 54.92MB 23.2s

=> => sha256:9b829c73b52b92b97d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd 5.15MB / 5.15MB 2.4s

=> => sha256:cb5b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56 10.87MB / 10.87MB 6.6s

=> => sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793 54.57MB / 54.57MB 29.5s

=> => sha256:6f9f74896dfa93fe0172f594faba85e0b4e8a0481a0fef9112efc7e4d3c78f7 196.51MB / 196.51MB 56.2s

=> => sha256:5e3b1213efc56598e78bd602983945c164de2a37205e06a62dada823124dc743 6.29MB / 6.29MB 28.2s

=> => extracting sha256:0e29546d541cddb309281d21a73a9d1db78665c1b95b74f32b009e0b77a6e1e3 3.1s

=> => extracting sha256:9b829c73b52b92b97d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd 0.3s

=> => extracting sha256:cb5b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56 0.4s

=> => sha256:9fddfdc56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 14.21MB / 14.21MB 34.2s

=> => sha256:404f02044bac8432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7 235B / 235B 29.8s

=> => extracting sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793 3.5s

=> => sha256:c4f42be2be53b900ebffc040c1df13de538434ccc5f5d954a56848a6169a3a3f 2.21MB / 2.21MB 31.6s

=> => extracting sha256:6f9f74896dfa93fe0172f594faba85e0b4e8a0481a0fef9112efc7e4d3c78f7 7.1s

=> => extracting sha256:5e3b1213efc56598e78bd602983945c164de2a37205e06a62dada823124dc743 0.3s

=> => extracting sha256:9fddfdc56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 0.6s

=> => extracting sha256:404f02044bac8432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7 0.0s

=> => extracting sha256:c4f42be2be53b900ebffc040c1df13de538434ccc5f5d954a56848a6169a3a3f 0.2s

=> [internal] load build context 0.0s

=> => transferring context: 33.97kB 0.0s

=> [2/6] WORKDIR /app 0.3s

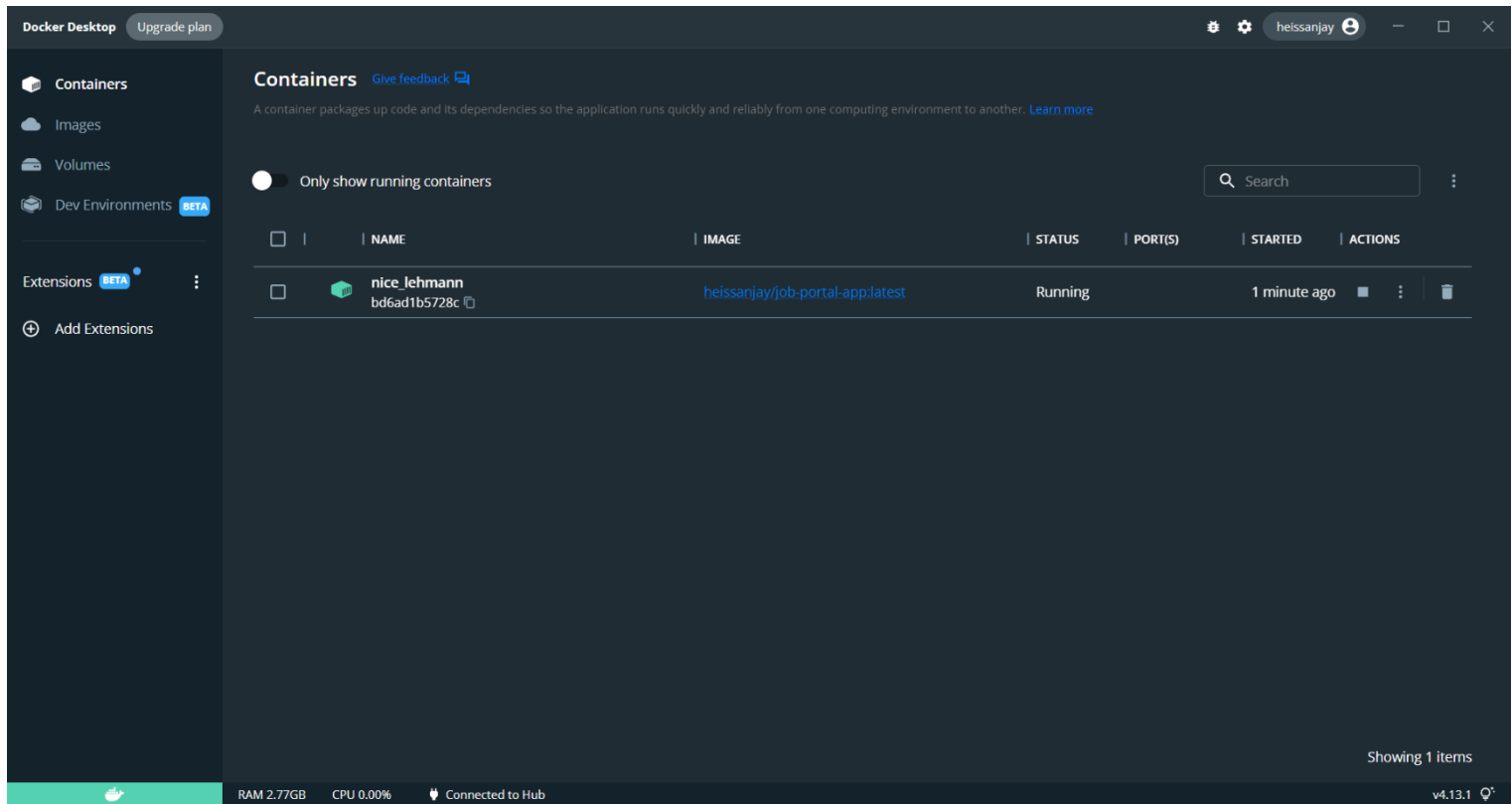
=> [3/6] ADD . /app 0.0s

=> [4/6] COPY requirements.txt /app 0.0s

=> [5/6] RUN python3 -m pip install -r requirements.txt 227.4s

=> [6/6] RUN python3 -m pip install ibm\_db 1.1s

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3. Create an IBM container registry and deploy helloworld app or jobportalapp.

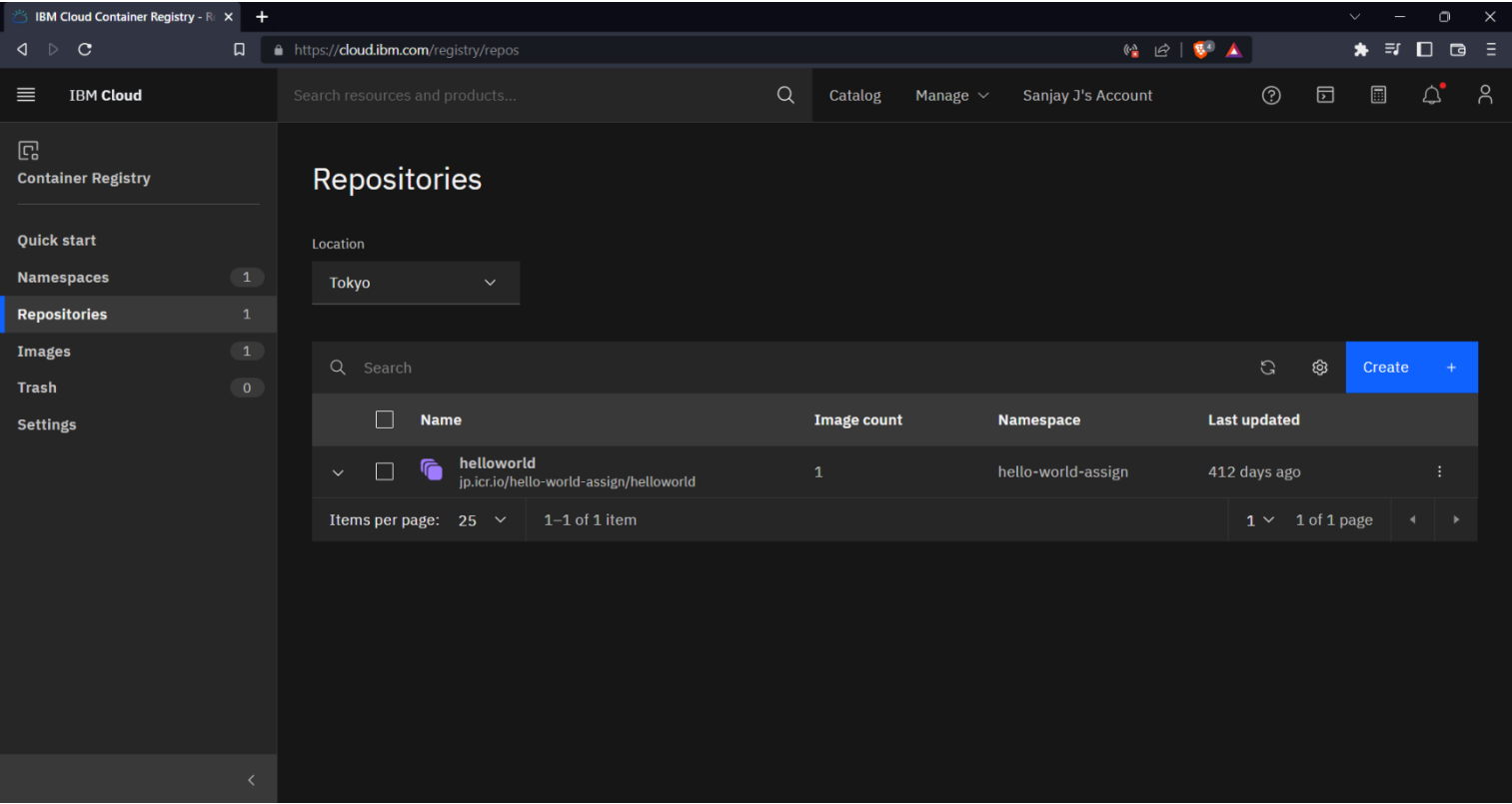
```

PS C:\Users\heiss> ibmcloud cr login
Logging 'docker' in to 'jp.icr.io'...
FAILED
Failed to 'docker login' to 'jp.icr.io' with error: Error saving credentials: error storing credentials - err: exit status 1, out: `getting entitlement: request to https://accounts-api.s.us-east-1.aws.dckr.io/v2/users/heissanjay/orgs/?page_size=2147483647 failed with status 403: {"message":"access is forbidden with a JWT issued from a personal access token","errinfo":{}}`
.

PS C:\Users\heiss> ibmcloud cr login
Logging 'docker' in to 'jp.icr.io'...
Logged in to 'jp.icr.io'.

OK
PS C:\Users\heiss> docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:e18f0a777aefabe047a671ab3ec3eed05414477c951ab1a6f352a06974245fe7
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
PS C:\Users\heiss> docker tag hello-world jp.icr.io/hello-world-assign/helloworld:hello-world-assignment
PS C:\Users\heiss> docker push jp.icr.io/hello-world-assign/helloworld
Using default tag: latest
The push refers to repository [jp.icr.io/hello-world-assign/helloworld]
tag does not exist: jp.icr.io/hello-world-assign/helloworld:latest
PS C:\Users\heiss> docker push jp.icr.io/hello-world-assign/helloworld:hello-world-assignment
The push refers to repository [jp.icr.io/hello-world-assign/helloworld]
e07ee1baac5f: Pushed
hello-world-assignment: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
PS C:\Users\heiss> |

```



4. Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.

