

## Assignment-4

### Plasma Donor Application

Team ID: PNT2022TMID37833

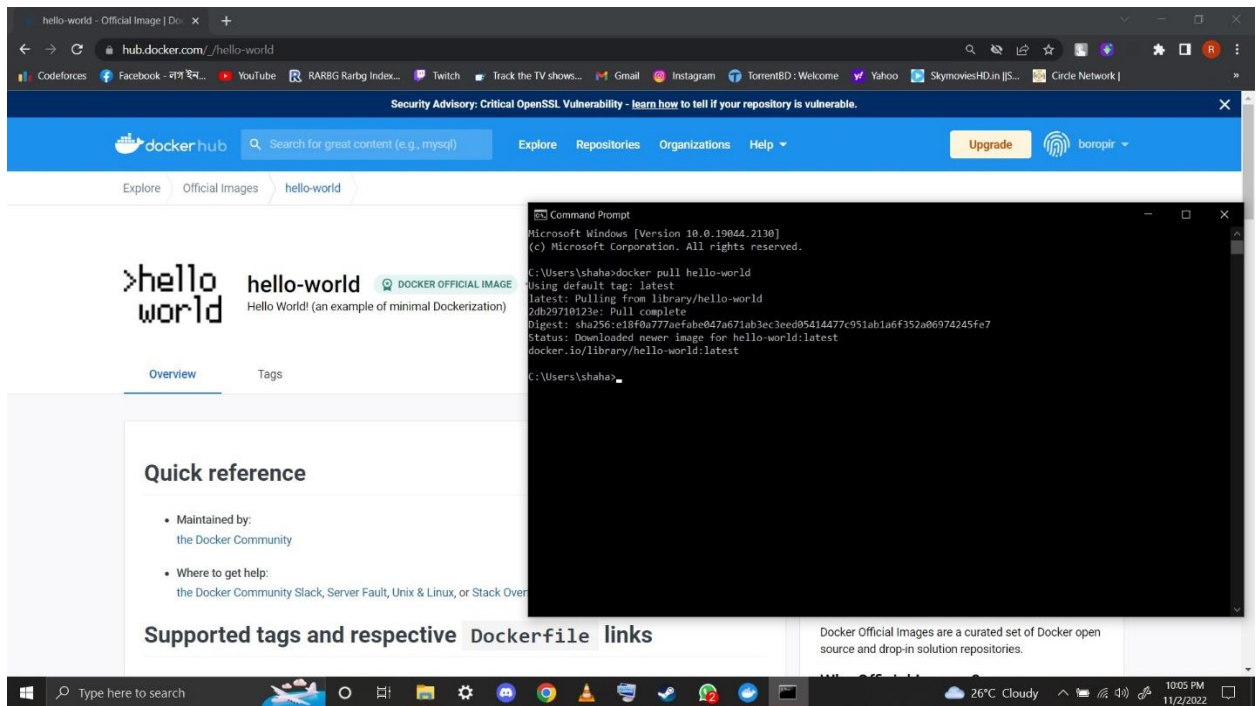
Team Leader: Shahib Hasan Nitu

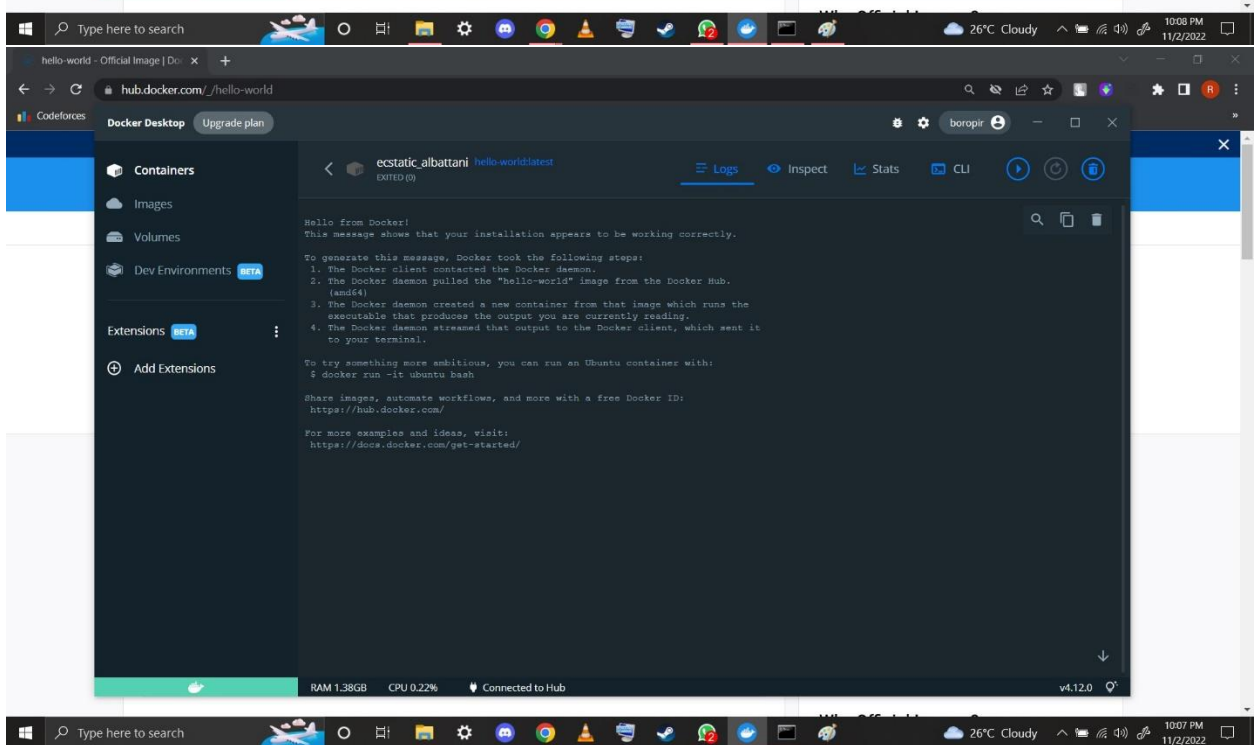
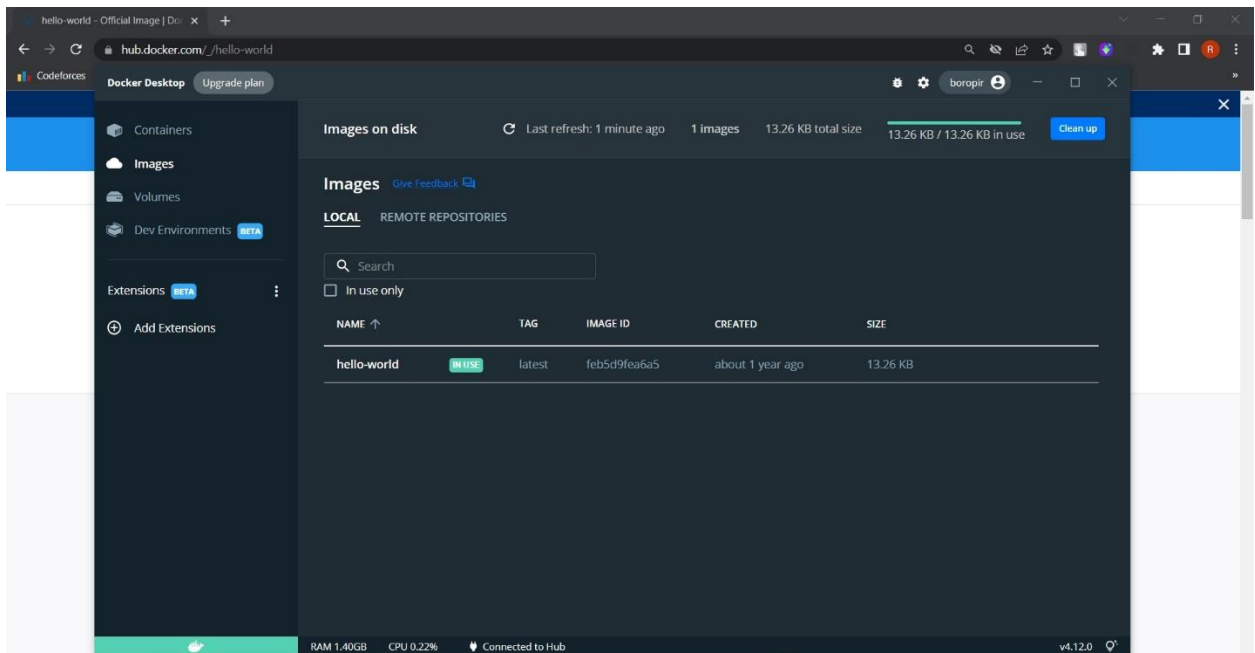
Team member: Mahin Abrar

Team member: Raad Shahamat Chowdhury

Team member: MD. Mizan

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





- ### Dockerfile:

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

[illegible]

```
Command Prompt - docker run f3d9015a21f3

C:\Users\shaha\Desktop\IBM-Project\jobportal>docker images
REPOSITORY                                TAG                                IMAGE ID            CREATED            SIZE
k8sproxy.docker.internal:5000/docker/desktop-kubernetes  <none>                            f3d9015a21f3       2 minutes ago    1.08GB
hubproxy.docker.internal:5000/docker/desktop-kubernetes  kubernet...-v1.25.0-cni-v1.1.1-critools-v1.24.2-cri-dockerd-v0.2.5-1-debian  20426761d17a       2 months ago     363MB
k8s.gcr.io/kube-apiserver                               v1.25.0                          4d2edfd1d03e       2 months ago     128MB
k8s.gcr.io/kube-scheduler                               v1.25.0                          bef2cf311509       2 months ago     50.6MB
k8s.gcr.io/kube-controller-manager                     v1.25.0                          1a54c86c03a6       2 months ago     117MB
k8s.gcr.io/kube-proxy                                   v1.25.0                          58a9a0c6d96f       2 months ago     61.7MB
k8s.gcr.io/pause                                        3.0                               4873874c08ef       4 months ago     711kB
k8s.gcr.io/etcd                                         3.5.4-0                          a8a176a5d5d6       5 months ago     300MB
k8s.gcr.io/coredns                                     v1.9.3                            5185b96f0bec       5 months ago     48.8MB
docker/desktop-vpnkit-controller                       v2.0                              8c2c38aa676e       18 months ago    21MB
docker/desktop-storage-provisioner                     v2.0                              99f89471f470       18 months ago    41.9MB

C:\Users\shaha\Desktop\IBM-Project\jobportal>docker run f3d9015a21f3
* 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)
```

JOBPOTAL | HOME

Not secure | 172.20.10.6:5000/login

Codeforces Facebook - 새겨... YouTube RARBG Rarbg Index... Twitch Track the TV shows... Gmail Instagram TorrentBD: Welcome Yahoo SkymoviesHD.in [JS... Circle Network |

LOGOUT REGISTER MY JOBS

sheep-logo

Available Jobs

Python

Skills for python

Apply Now

Docker Desktop Upgrade plan

boropir

joval.proskuriakova f3d9015a21f3 EXTED (137)

Logs Inspect Stats CLI

\* 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)

EXT

RAM 4.89GB CPU 2.44% Connected to Hub v4.12.0

### 3. Create a IBM container registry and deploy jobportalapp.

```
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\shaha>ibmcloud login
API endpoint: https://cloud.ibm.com

Email> 410619104029@smartintrnz.com

Password>
Authenticating...
OK

Targeted account Raad Chowdhury's Account (3828f847bb644584acc551e935d8e383)

Select a region (or press enter to skip):
1. au-syd
2. in-che
3. jp-osa
4. jp-tok
5. kr-seo
6. eu-de
7. eu-gb
8. ca-tor
9. us-south
10. us-east
11. br-sao
Enter a number>

API endpoint: https://cloud.ibm.com
Region:
User: 410619104029@smartintrnz.com
Account: Raad Chowdhury's Account (3828f847bb644584acc551e935d8e383)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:

C:\Users\shaha>
```

```
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.

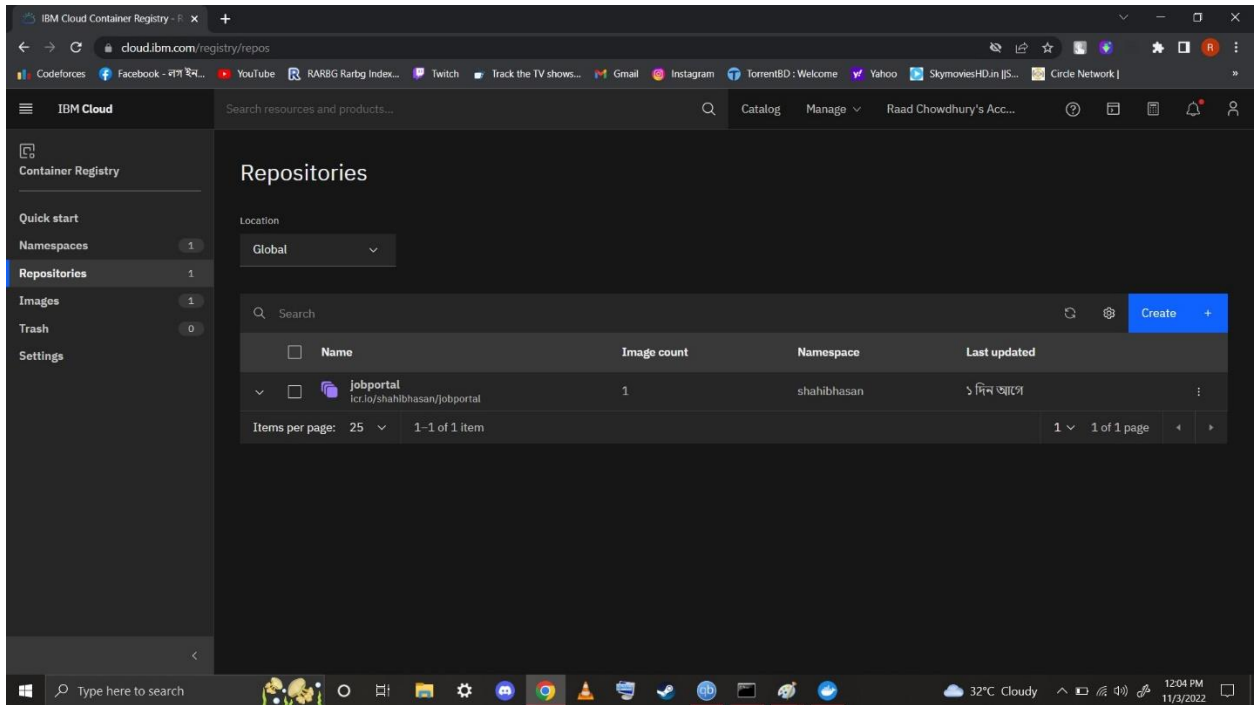
C:\Users\shaha>ibmcloud cr login
Logging 'docker' in to 'icr.io'...
Logged in to 'icr.io'.

OK

C:\Users\shaha>docker tag f3d9015a21f3 icr.io/shahibhasan/jobportal

C:\Users\shaha>docker push icr.io/shahibhasan/jobportal
Using default tag: latest
The push refers to repository [icr.io/shahibhasan/jobportal]
21d8888e119b: Pushed
ef5059251a61: Pushed
ba5fa349894: Pushed
21a1adcafa41: Pushed
4c702977ab8c: Pushed
aa4c888c19f6: Pushed
8ba9f69ae8ba: Pushed
3e00d59ef9f: Pushed
1e18e7e1fcc2: Pushed
c3a0d993ed24: Pushed
26a594e03be4: Pushed
8bf42db0de72: Pushed
31892cc314cb: Pushed
11936051f93b: Pushed
latest: digest: sha256:910c91f1fe2226ae9306e4802426c6c513bf54cfad9b960a8cb02bcb0926143 size: 3260

C:\Users\shaha>
```



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

