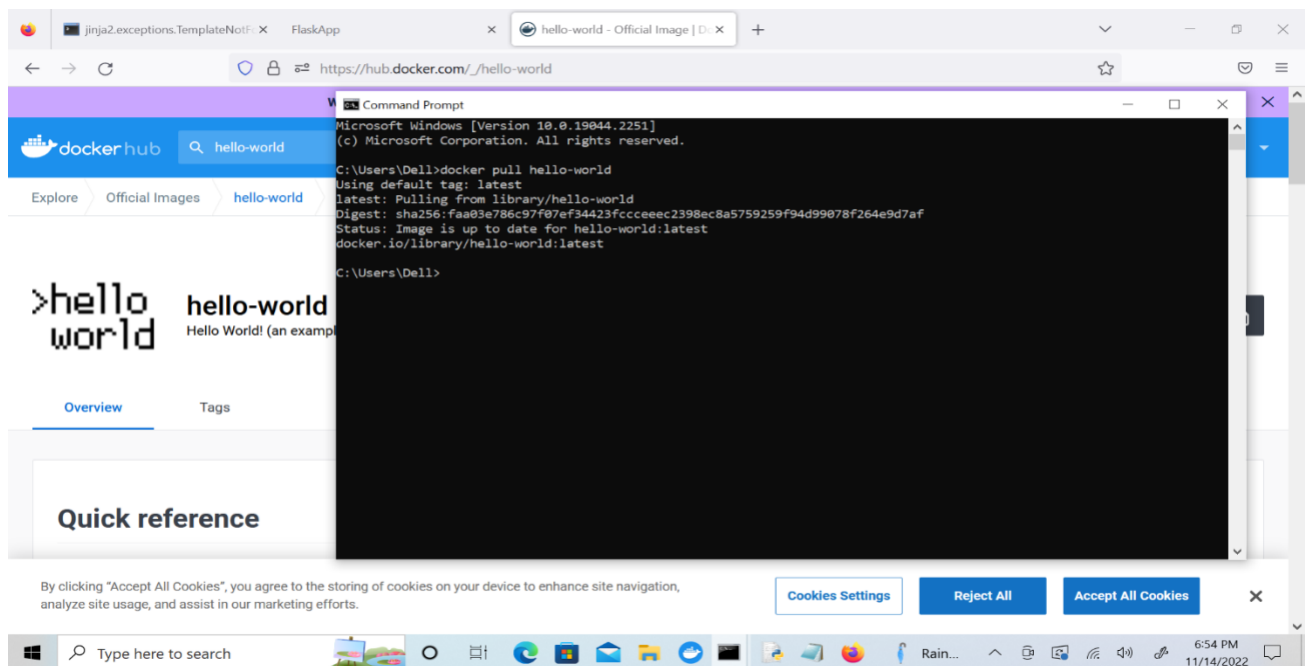
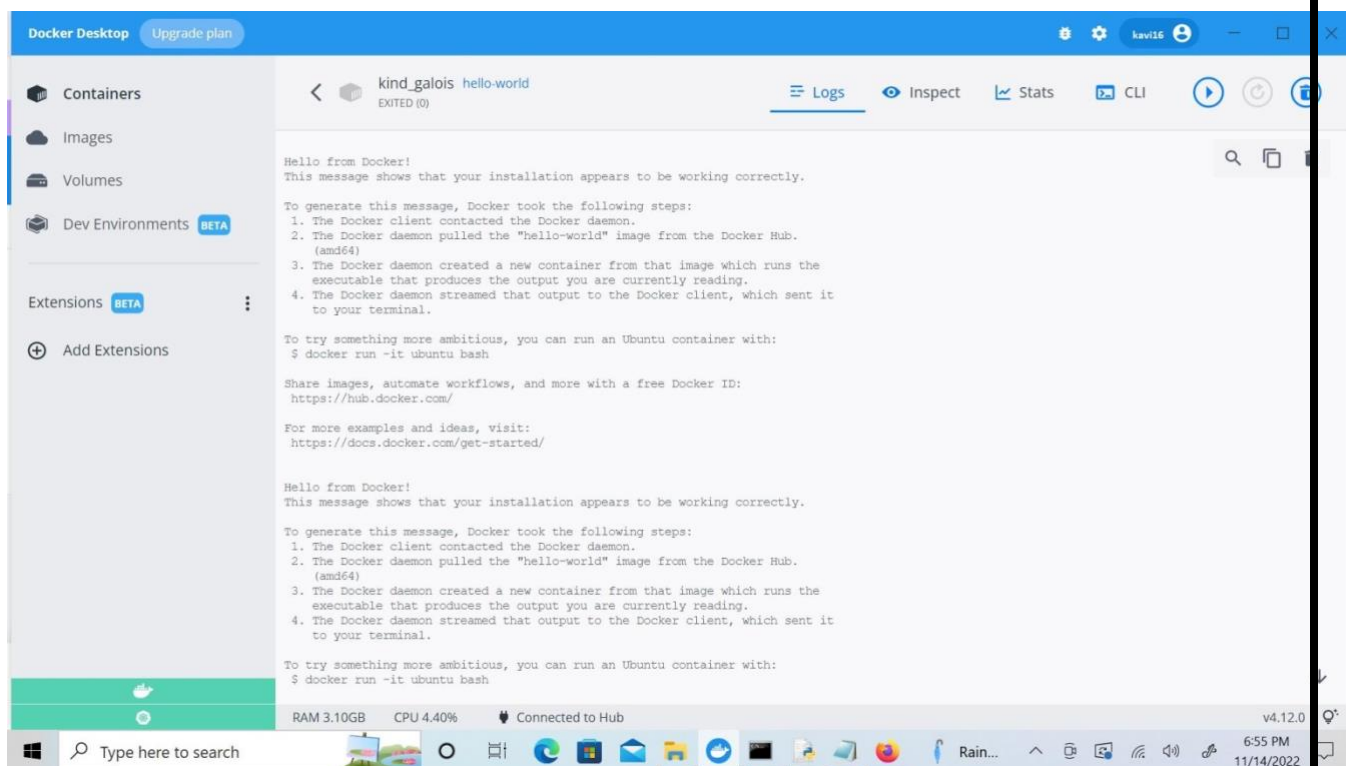
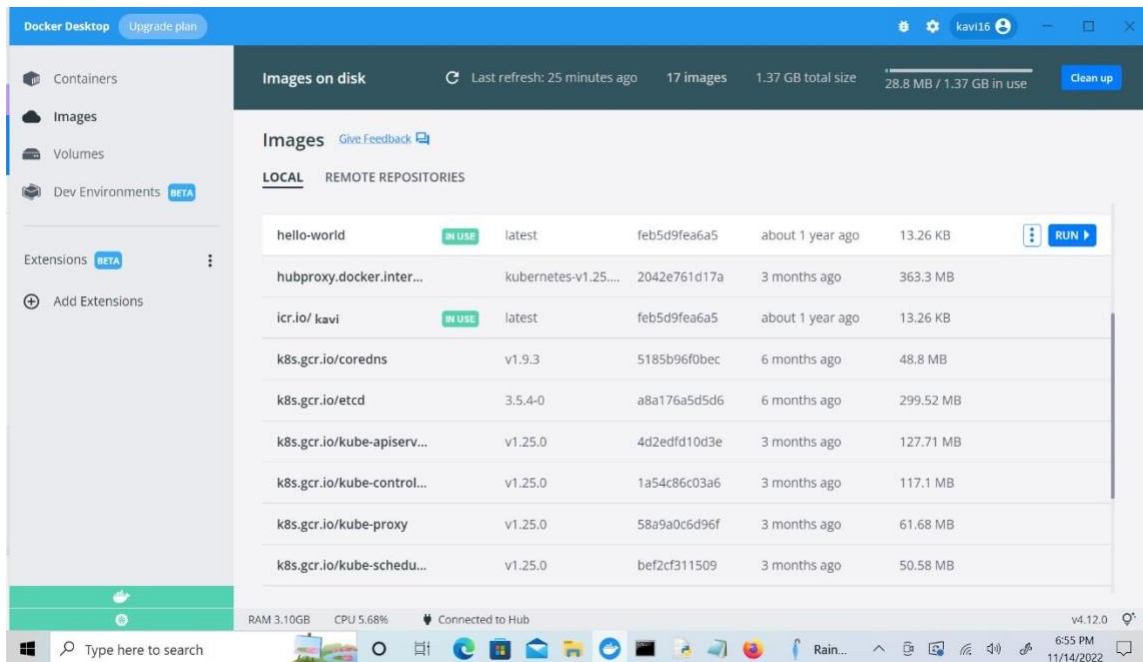


Assignment -4

Assignment Date	14 November 2022
Student Name	KAVI PRIYA P
Team ID	PNT2022TMID48189
Maximum Marks	2 Marks

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





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

Dockerfile:

FROM

python:3.6

WORKDIR /app

ADD ./app

COPY requirements.txt /app

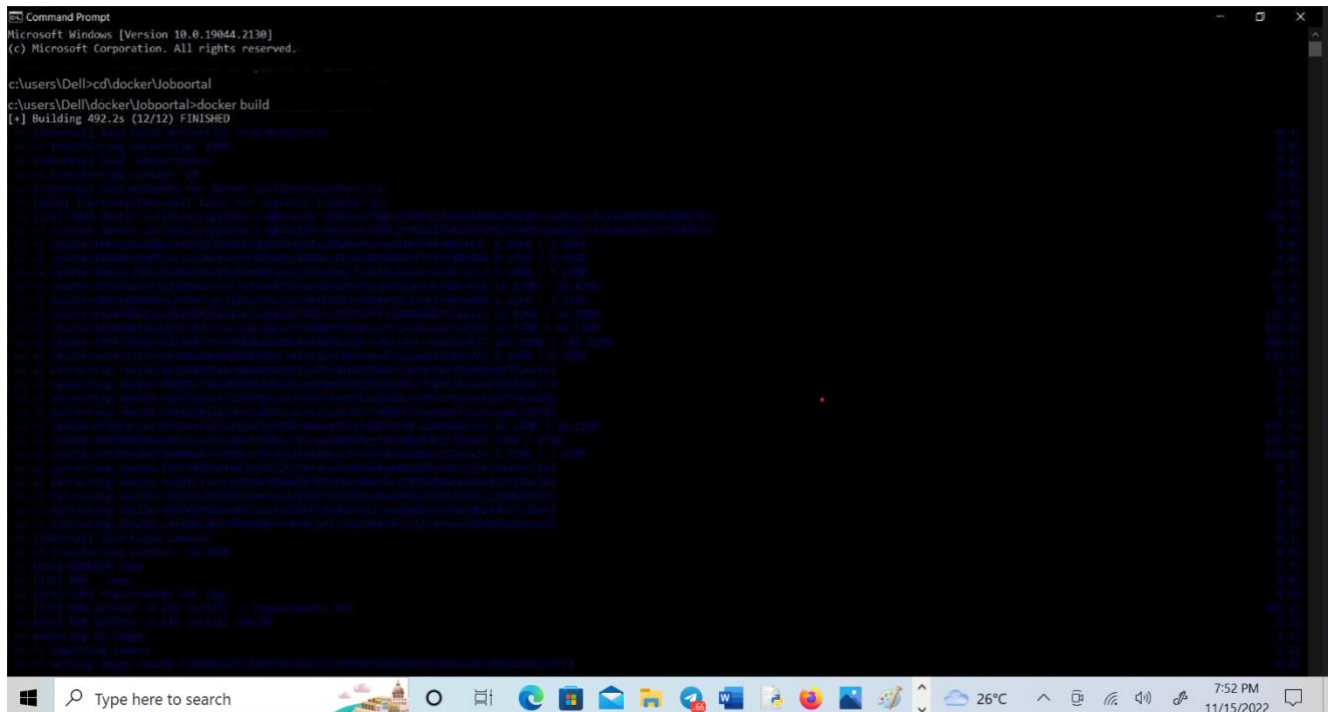
RUN python3 -m pip install -r

requirements.txtRUN python3 -m pip

install ibm_db

EXPOSE 5000

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



The screenshot shows a Windows Command Prompt window with the following text:

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

C:\Users\Dell>cd\docker\Jobportal
C:\Users\Dell\docker\Jobportal>docker build
[*] Building 492.2s (12/12) FINISHED
```

The output shows the Docker build process, including the creation of the Dockerfile, the addition of the app directory, the copying of requirements.txt, the installation of dependencies, and the final build completion. The taskbar at the bottom shows the system clock as 7:52 PM on 11/15/2022.

```
Command Prompt - docker run f3d9015a21f3

c:\users\Dell\docker\Jobportal>docker images
REPOSITORY                                TAG                                IMAGE ID            CREATED            SIZE
k8s.gcr.io/kube-apiserver                v1.25.0                          2042e761d17a       2 months ago      363MB
k8s.gcr.io/kube-scheduler                v1.25.0                          4f2edfd10d3e       2 months ago      128MB
k8s.gcr.io/kube-controller-manager       v1.25.0                          bf72cf311109       2 months ago      59.6MB
k8s.gcr.io/kube-proxy                    v1.25.0                          1a54c86c03a6       2 months ago      117MB
k8s.gcr.io/pause                          3.8                              58a9a8cd96f        2 months ago      61.7MB
k8s.gcr.io/etcd                          3.5.4-0                          4873874c08ef       4 months ago      711kB
k8s.gcr.io/coredns                       v1.9.3                           a8a176a5d5d6       5 months ago      300MB
docker/desktop-vpnkit-controller         v2.0                             5185b96f0bec       5 months ago      48.8MB
docker/desktop-storage-provisioner       v2.0                             8c2c38aa676e       18 months ago     21MB
docker/desktop-storage-provisioner       v2.0                             99f89471f47b       18 months ago     41.9MB

c:\users\Dell\docker\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 - पण रेल... YouTube RARBG Rarbg Index... Twitch Track the TV shows... Gmail Instagram TorrentBD: Welcome Yahoo SkymoviesHDUn [JS... Circle Network]

sheep-logo

LOGOUT REGISTER MY JOBS

Available Jobs

Python

Skills for python

Apply Now

Docker Desktop Upgrade plan

afra5

jovial_proskuriakova f3d9015a21f3

EXITED (137)

Logs Inspect Stats CLI

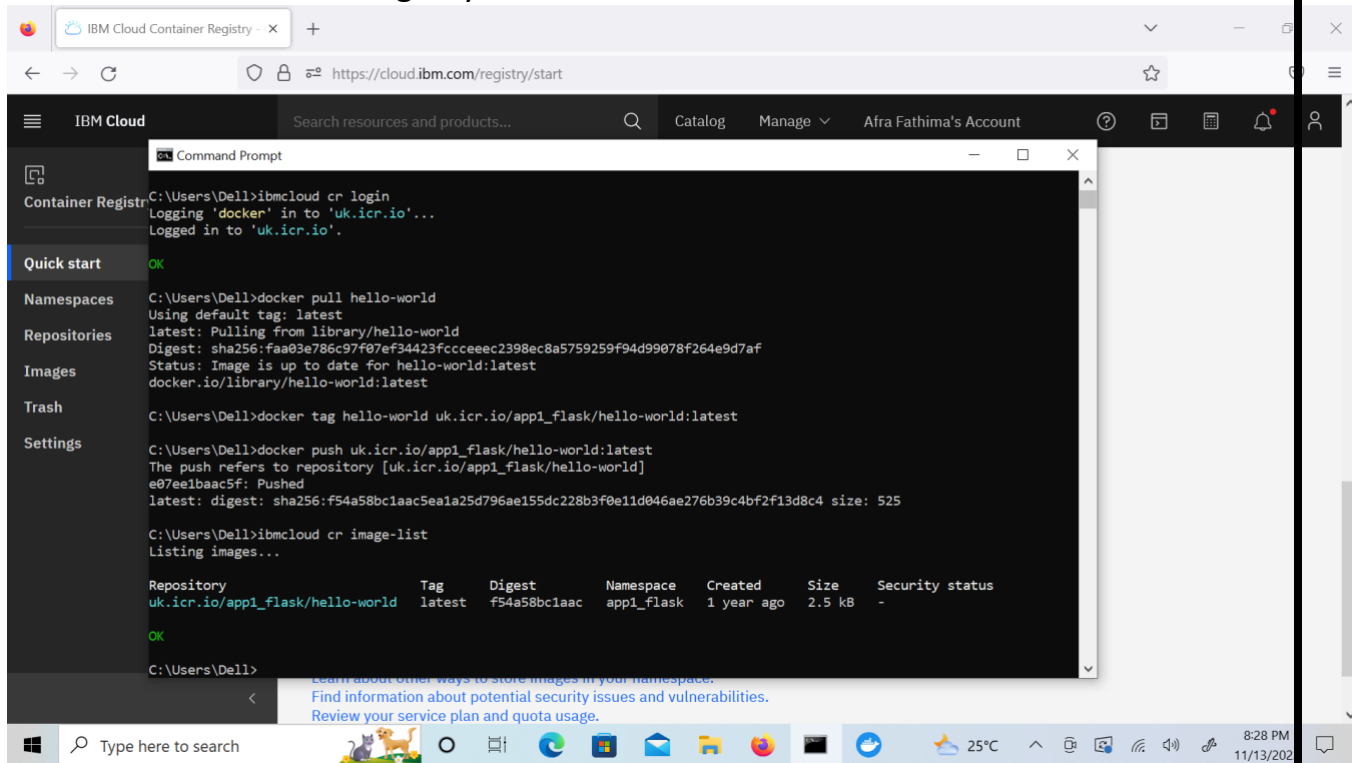
- * Serving Flask app 'app' (lazy loading)
- * Environment: production
- WARNING: This is a development server. Do not use it in a production deployment.
- Use a production WSGI server instead.
- * Debug mode: off
- * Running on all addresses.
- WARNING: This is a development server. Do not use it in 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



The screenshot shows the IBM Cloud Container Registry web interface in a browser window. The URL is <https://cloud.ibm.com/registry/start>. The interface includes a sidebar with navigation options like 'Quick start', 'Namespaces', 'Repositories', 'Images', 'Trash', and 'Settings'. The main content area displays a 'Command Prompt' window with the following commands and output:

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

C:\Users\Dell>docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:faa03e786c97f07ef34423fccceec2398ec8a5759259f94d99078f264e9d7af
Status: Image is up to date for hello-world:latest
docker.io/library/hello-world:latest

C:\Users\Dell>docker tag hello-world uk.icr.io/app1_flask/hello-world:latest

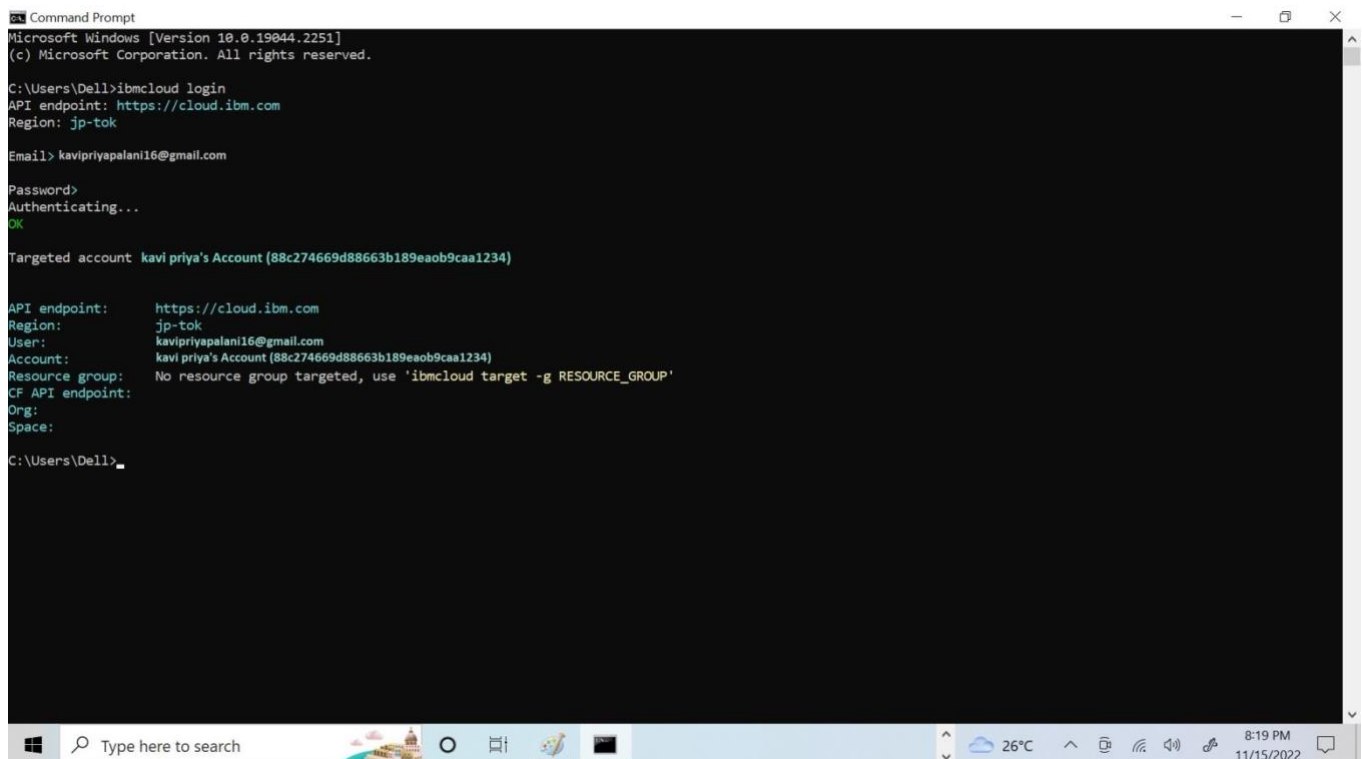
C:\Users\Dell>docker push uk.icr.io/app1_flask/hello-world:latest
The push refers to repository [uk.icr.io/app1_flask/hello-world]
e07ee1baac5f: Pushed
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525

C:\Users\Dell>ibmcloud cr image-list
Listing images...

Repository      Tag      Digest      Namespace   Created    Size    Security status
uk.icr.io/app1_flask/hello-world  latest   f54a58bc1aac  app1_flask  1 year ago  2.5 kB  -
```

Below the Command Prompt, there are links for 'Learn about other ways to store images in your namespace.', 'Find information about potential security issues and vulnerabilities.', and 'Review your service plan and quota usage.'

deploy hello world app.



The screenshot shows a Command Prompt window with the following commands and output:

```
Microsoft Windows [Version 10.0.19044.2251]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Dell>ibmcloud login
API endpoint: https://cloud.ibm.com
Region: jp-tok

Email> kavipriyapalani16@gmail.com

Password>
Authenticating...
OK

Targeted account kavi priya's Account (88c274669d88663b189eaob9caa1234)

API endpoint: https://cloud.ibm.com
Region: jp-tok
User: kavipriyapalani16@gmail.com
Account: kavi priya's Account (88c274669d88663b189eaob9caa1234)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:

C:\Users\Dell>
```

```
gistr C:\Users\Dell>ibmcloud cr login
Logging 'docker' in to 'uk.icr.io'...
Logged in to 'uk.icr.io'.

OK

C:\Users\Dell>docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:faa03e786c97f07ef34423fccceec2398ec8a5759259f94d99078f264e9d7af
Status: Image is up to date for hello-world:latest
docker.io/library/hello-world:latest

C:\Users\Dell>docker tag hello-world uk.icr.io/app1_flask/hello-world:latest

C:\Users\Dell>docker push uk.icr.io/app1_flask/hello-world:latest
The push refers to repository [uk.icr.io/app1_flask/hello-world]
e07ee1baac5f: Pushed
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525

C:\Users\Dell>ibmcloud cr image-list
Listing images...

Repository          Tag      Digest          Namespace      Created      Size      Security status
uk.icr.io/app1_flask/hello-world  latest  f54a58bc1aac    app1_flask     1 year ago  2.5 kB    -

OK
```



Type here to search



30°C Cloudy 01:47 16-11-2022



IBM Cloud Container Registry

https://cloud.ibm.com/registry/repos

IBM Cloud

Search resources and products...

Catalog Manage

kavi priya's Account

Container Registry

Quick start

Namespaces 1

Repositories 1

Images 1

Trash 0

Settings

Repositories

Location

London

Search

Create

	Name	Image count	Namespace	Last updated
	hello-world uk.icr.io/app1_flask/hello-world	1	app1_flask	416 days ago

Items per page: 25 1-1 of 1 item 1 1 of 1 page

Type here to search

8:29 PM 11/13/2022

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

