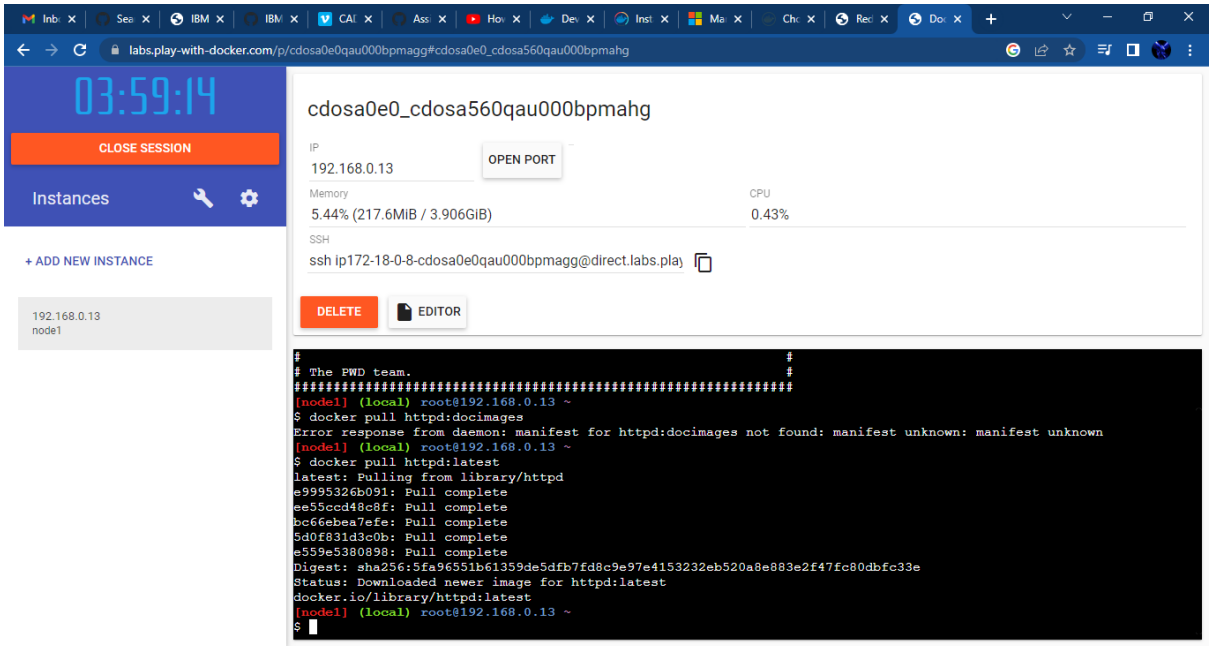
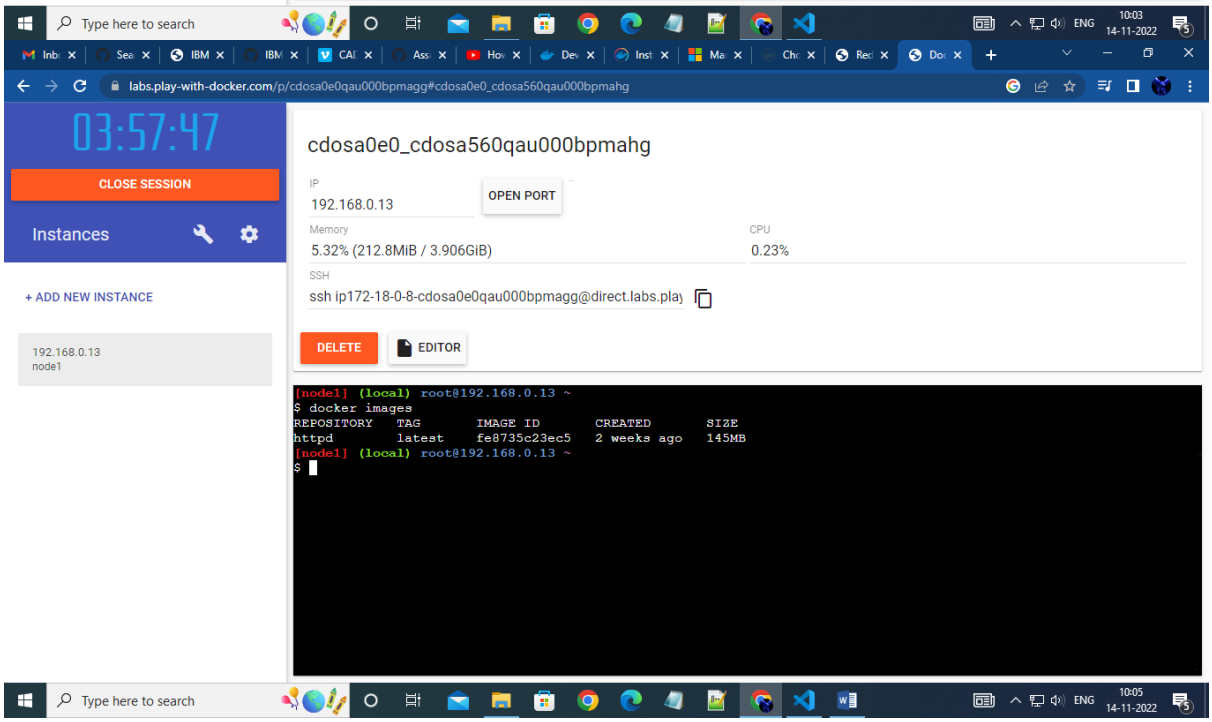
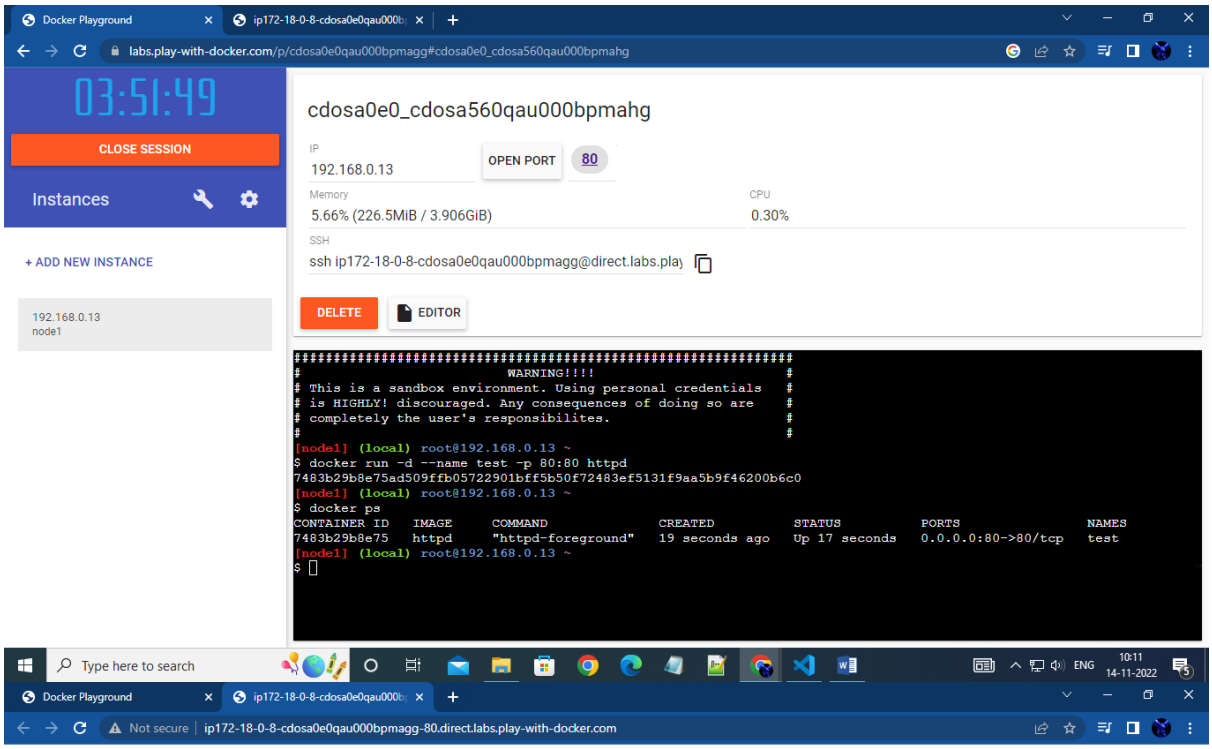
Assignment -4

Assignment Date	14 November 2022
Student Name	ATHIVIGNESHKUMAR N
Student Roll Number	953619104006
Maximum Marks	2 Marks

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



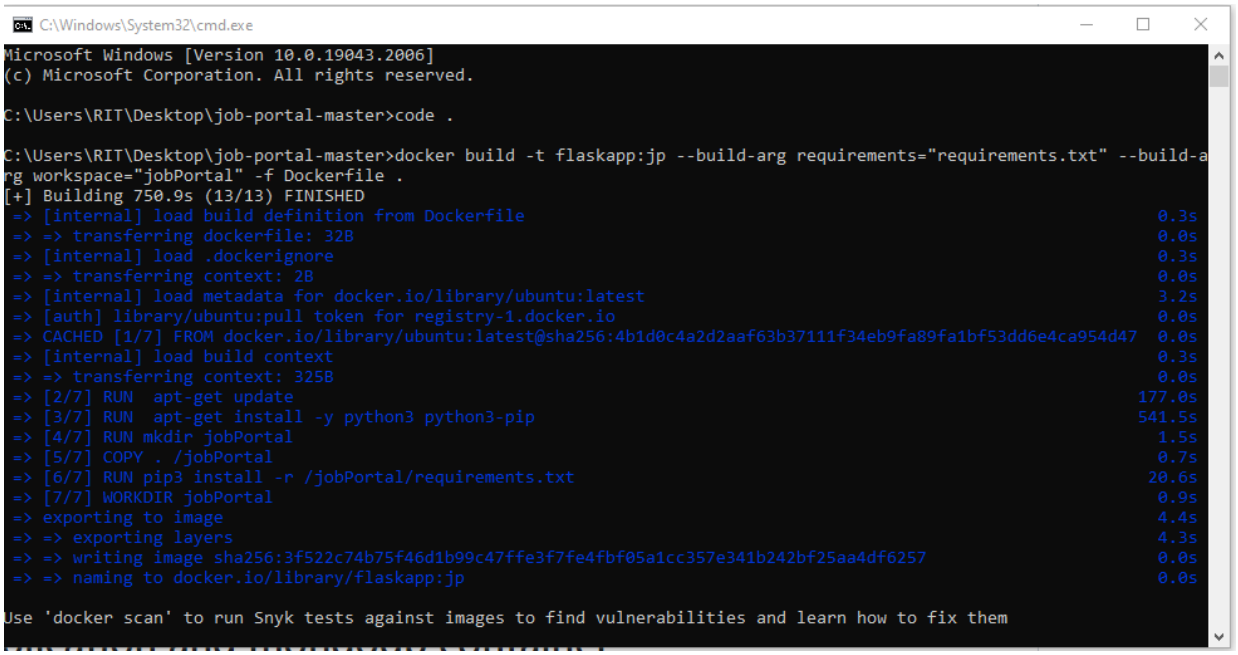


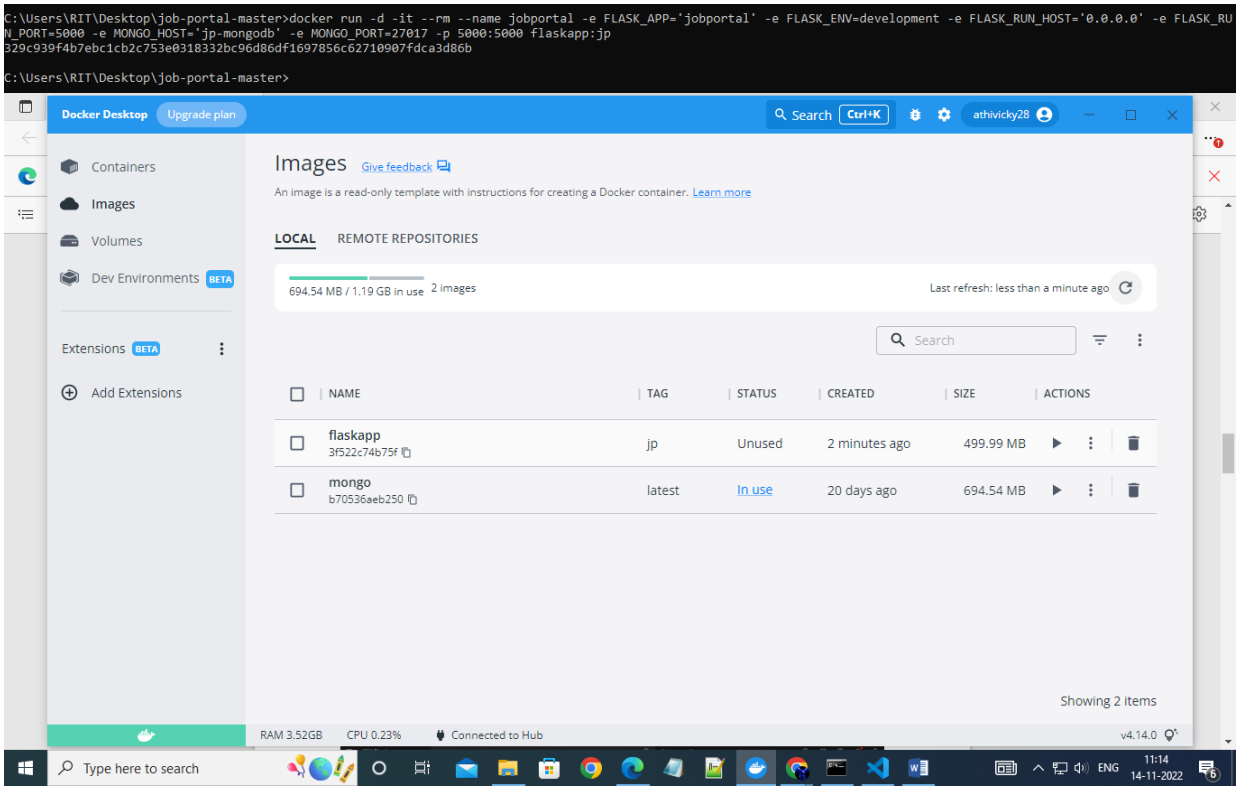


It works!

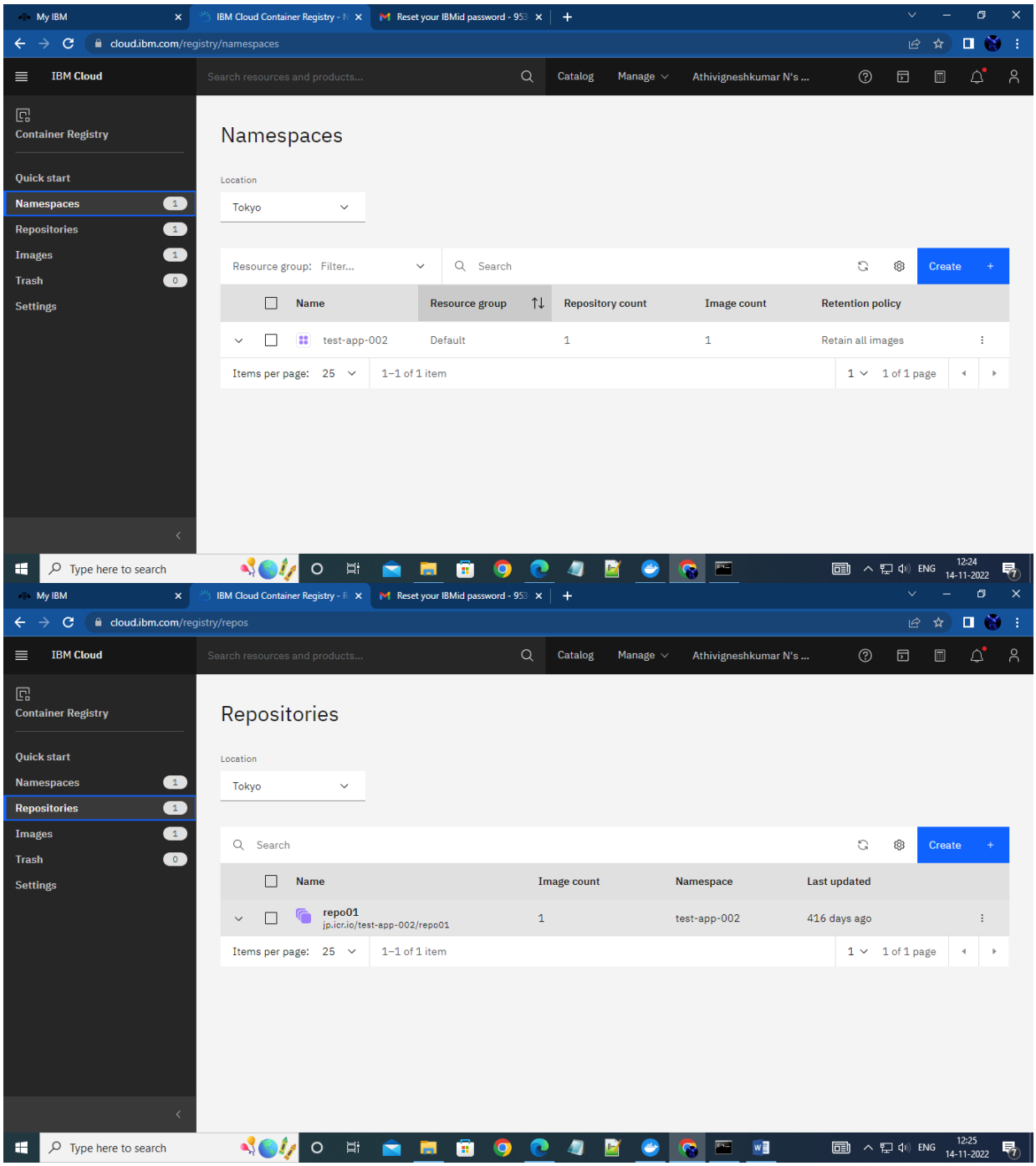
2. **Create a docker file for the jobportal application and deploy it in Docker desktop application.**

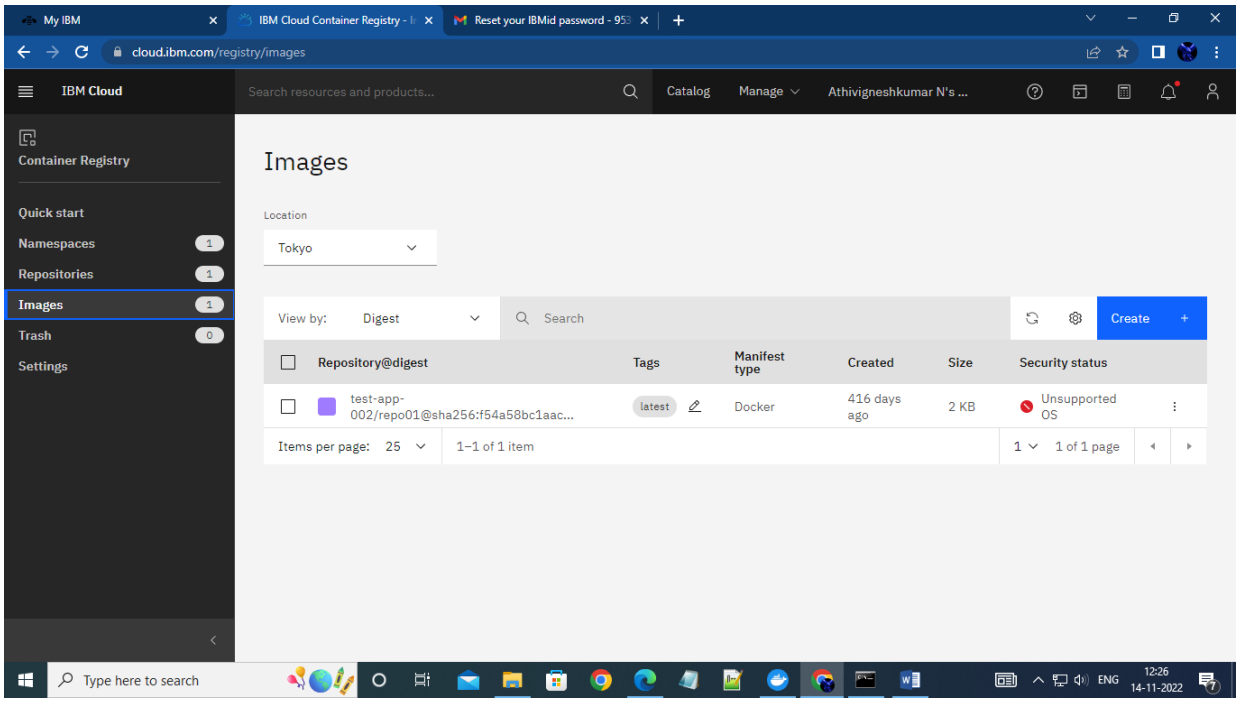
```
PS C:\Users\RIT\Desktop\job-portal-master> docker run -d -it --rm --name jp-mongodb -p 27017:27017 -e MONGO_INITDB_ROOT_USERNAME="root" -e MONGO_I
NITDB_ROOT_PASSWORD="root-rusteez" mongo
Unable to find image 'mongo:latest' locally
latest: Pulling from library/mongo
eaead16dc43b: Pull complete
8a00eb9f68a0: Pull complete
f683956749c5: Pull complete
b33b2f05ea20: Pull complete
3a342bea915a: Pull complete
fa956ab1c2f0: Pull complete
138a8542a624: Pull complete
acab179a7f07: Pull complete
f8335710e84: Pull complete
Digest: sha256:71a63fc2438e45714f6c8a2505968ee0beeb94ec77a88ef12190f7cee9b95f32
Status: Downloaded newer image for mongo:latest
01adeb5492af8323e5d62299c7a1372f34e2583891bdefae268f95f74a76a80c
```





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


My IBM
IBM Cloud Container Registry - N
Reset your IBMid password - 953
cloud.ibm.com/registry/namespaces
IBM Cloud
Search resources and products...
Catalog
Manage
Athivigneshkumar N's ...
Container Registry
Quick start
Namespaces 1
Repositories 1
Images 1
Trash 0
Settings
Namespaces
Location
Tokyo
Resource group: Filter...
Search
Create
Name
Resource group
Repository count
Image count
Retention policy
test-app-002
Default
1
1
Retain all images
Items per page: 25
1–1 of 1 item
1 of 1 page
Type here to search
ENG
12:24
14-11-2022
My IBM
IBM Cloud Container Registry - N
Reset your IBMid password - 953
cloud.ibm.com/registry/repos
IBM Cloud
Search resources and products...
Catalog
Manage
Athivigneshkumar N's ...
Container Registry
Quick start
Namespaces 1
Repositories 1
Images 1
Trash 0
Settings
Repositories
Location
Tokyo
Search
Create
Name
Image count
Namespace
Last updated
repo01
jp.icr.io/test-app-002/repo01
1
test-app-002
416 days ago
Items per page: 25
1–1 of 1 item
1 of 1 page
Type here to search
ENG
12:25
14-11-2022




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

Email> 953619104006

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

Email> 953619104006@ritrjpm.ac.in

Password>
Authenticating...
OK

Targeted account Athivigneshkumar N's Account (331b915ecbfc4e7290278776aa39995b)


API endpoint:      https://cloud.ibm.com
Region:            jp-tok
User:              953619104006@ritrjpm.ac.in
Account:           Athivigneshkumar N's Account (331b915ecbfc4e7290278776aa39995b)
Resource group:    No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:

C:\Users\RIT>ibmcloud target -g Default
C:\Users\RIT>ibmcloud cr login --client docker
Logging 'docker' in to 'jp.icr.io'...
Logged in to 'jp.icr.io'.

OK

C:\Users\RIT>docker push jp.icr.io/test-app-002/repo01
Using default tag: latest
The push refers to repository [jp.icr.io/test-app-002/repo01]
e07ee1baac5f: Pushed
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525

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

Repository                      Tag      Digest         Namespace      Created      Size     Security status
jp.icr.io/test-app-002/repo01   latest   f54a58bc1aac   test-app-002   1 year ago   2.5 kB   -

OK

C:\Users\RIT>
```

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