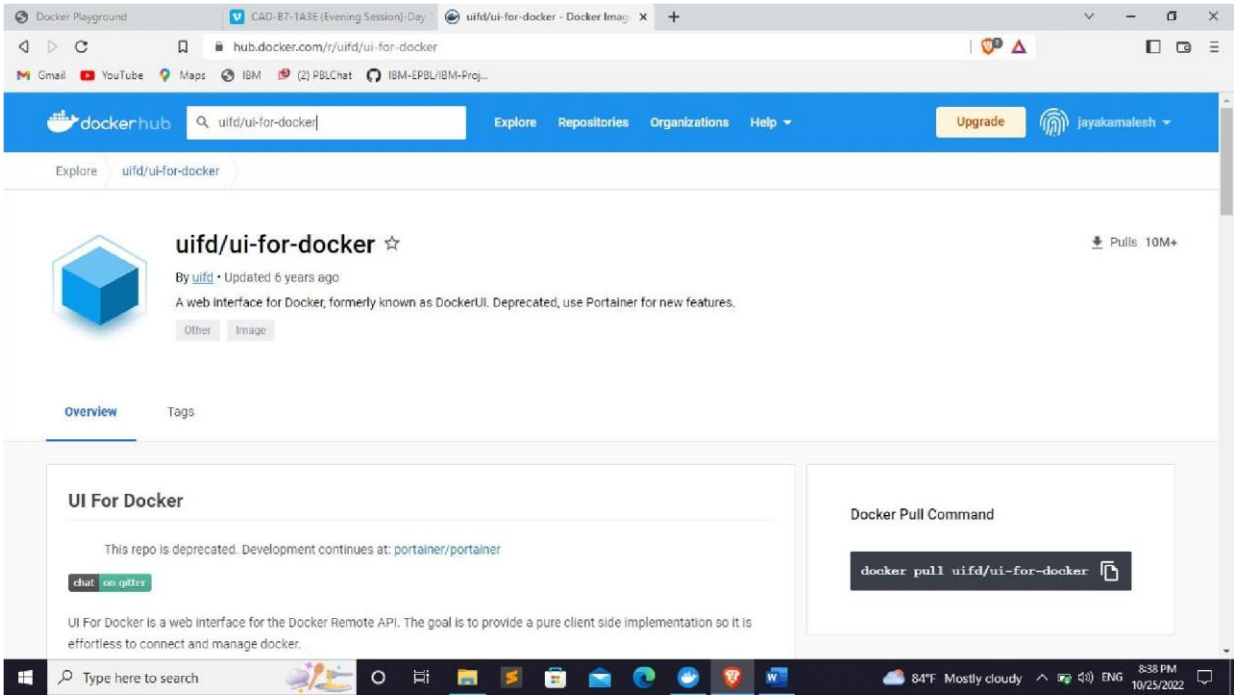
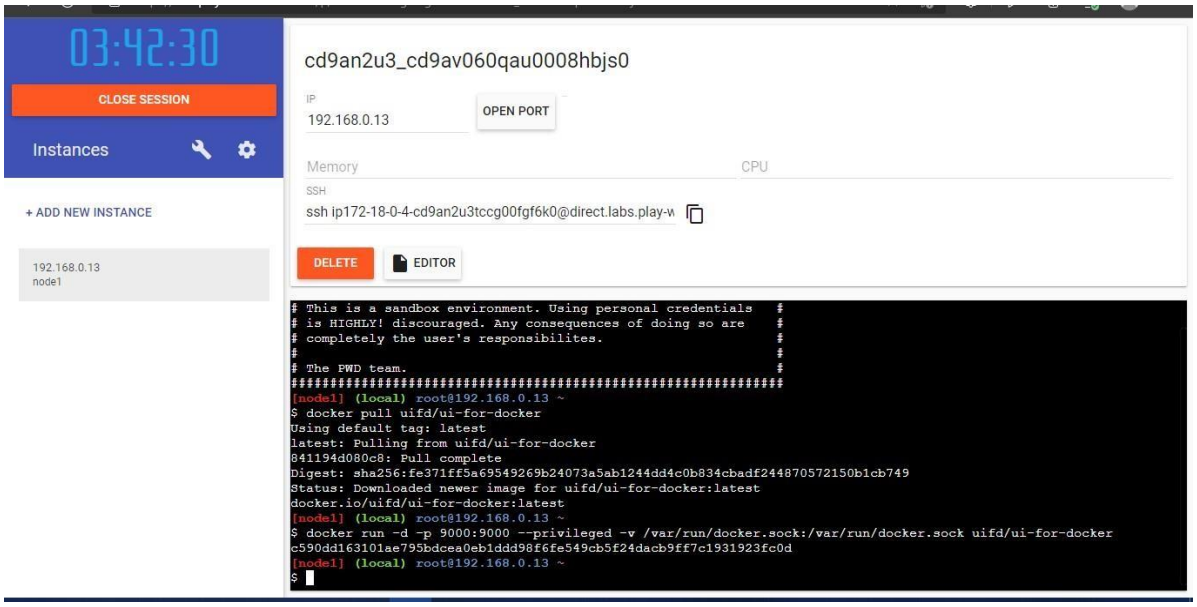
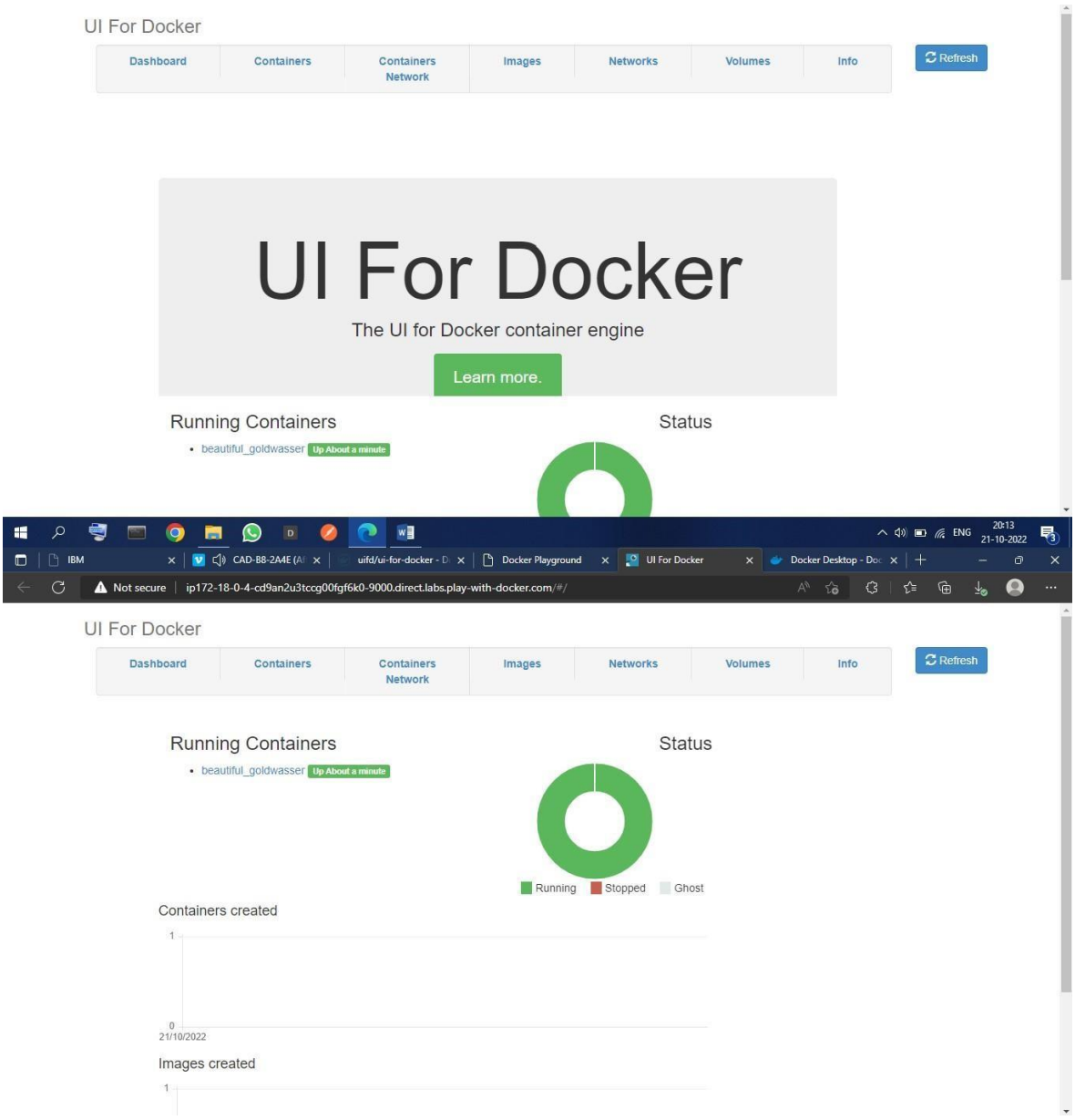
Assignment -4 Docker
and Kubernetes

Student Name	Dharshini S
Student Roll Number	130719205016
Maximum Marks	2 Marks

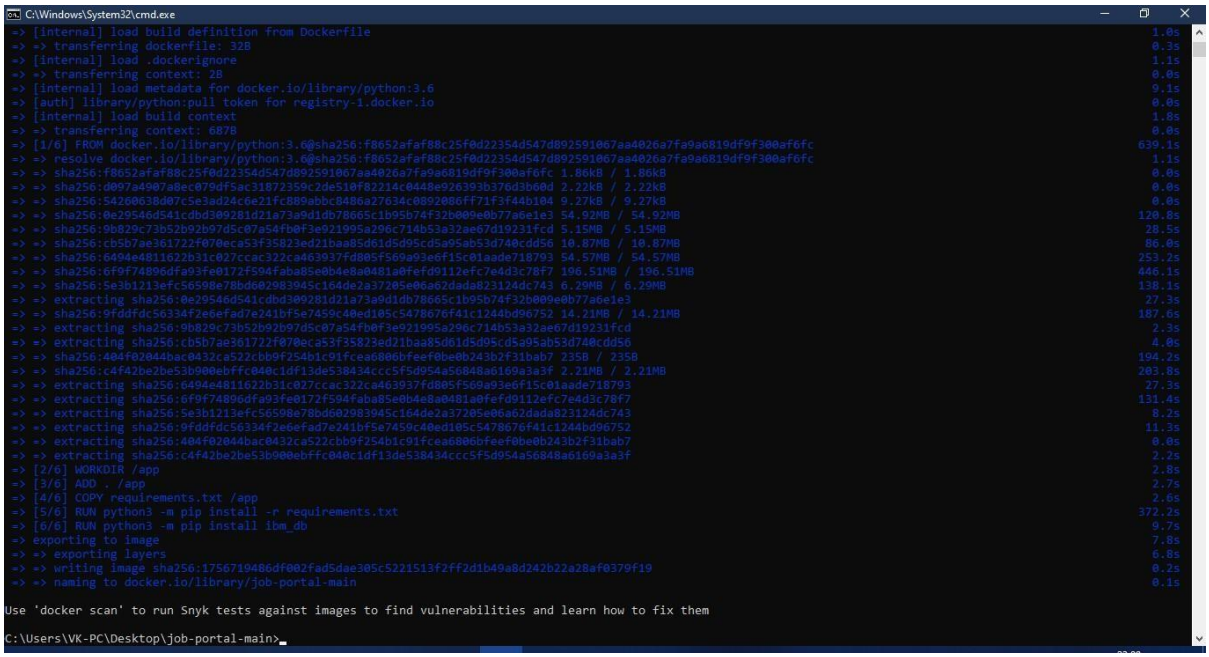
1. Pull an image from docker hub and run it in docker Playground

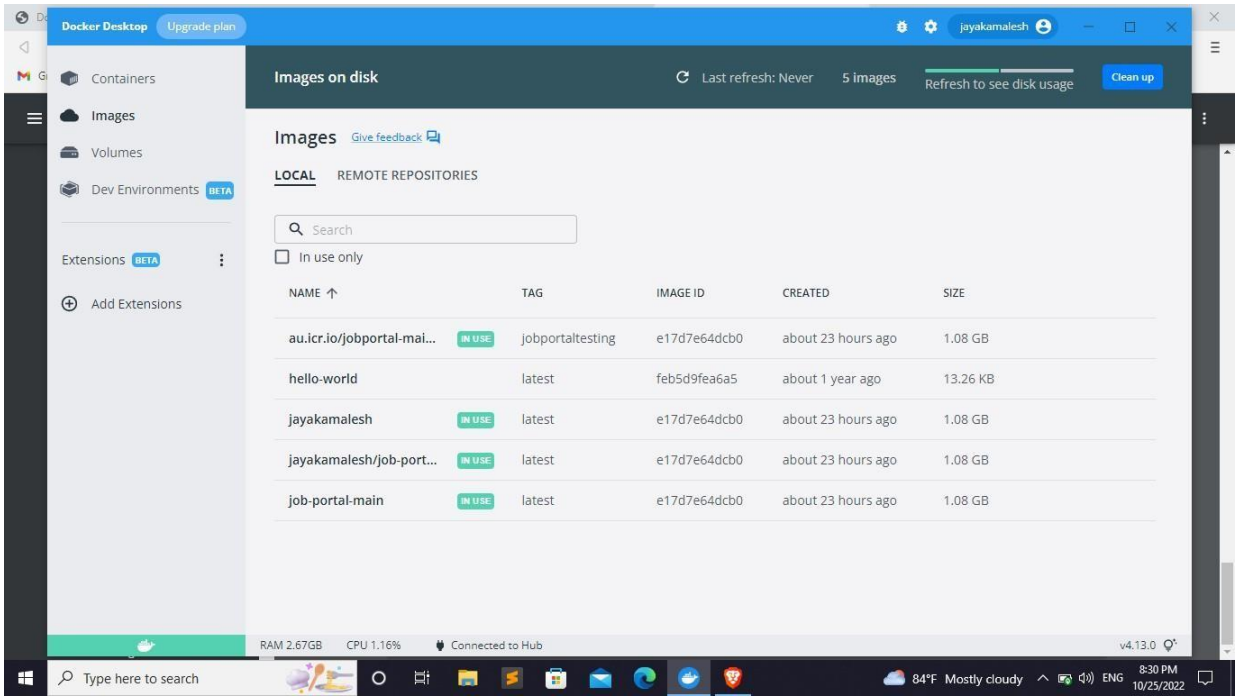



03:42:30
CLOSE SESSION
Instances
+ ADD NEW INSTANCE
192.168.0.13
node1
cd9an2u3_cd9av060qau0008hbjs0
IP
192.168.0.13
OPEN PORT
Memory
CPU
SSH
ssh ip172-18-0-4-cd9an2u3tccg00fgf6k0@direct.labs.play-w
DELETE
EDITOR
This is a sandbox environment. Using personal credentials
is HIGHLY! discouraged. Any consequences of doing so are
completely the user's responsibilites.
# #
The PWD team.
[node1] (local) root@192.168.0.13 ~
$ docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
841194d080c8: Pull complete
Digest: sha256:fe371ff5a69549269b24073a5ab1244dd4c0b834cbadf244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
docker.io/uifd/ui-for-docker:latest
[node1] (local) root@192.168.0.13 ~
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
c590dd163101ae795bdcea0eb1ddd98f6fe549cb5f24dacb9ff7c1931923fc0d
[node1] (local) root@192.168.0.13 ~
$

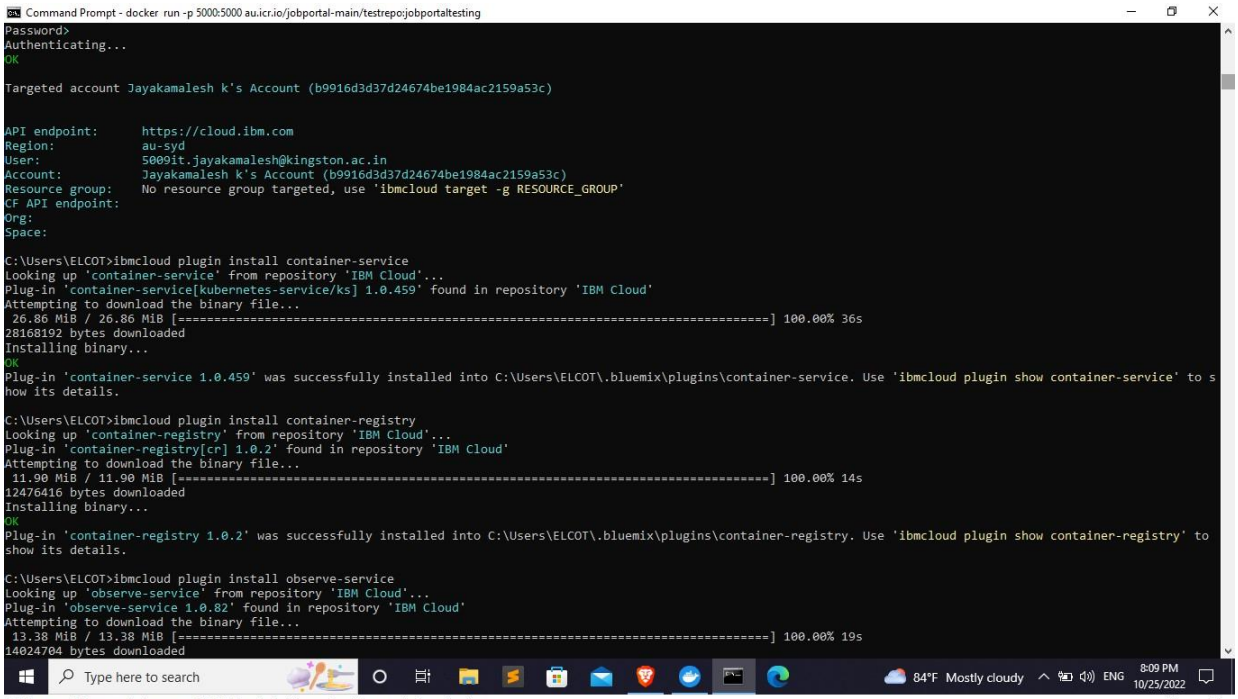
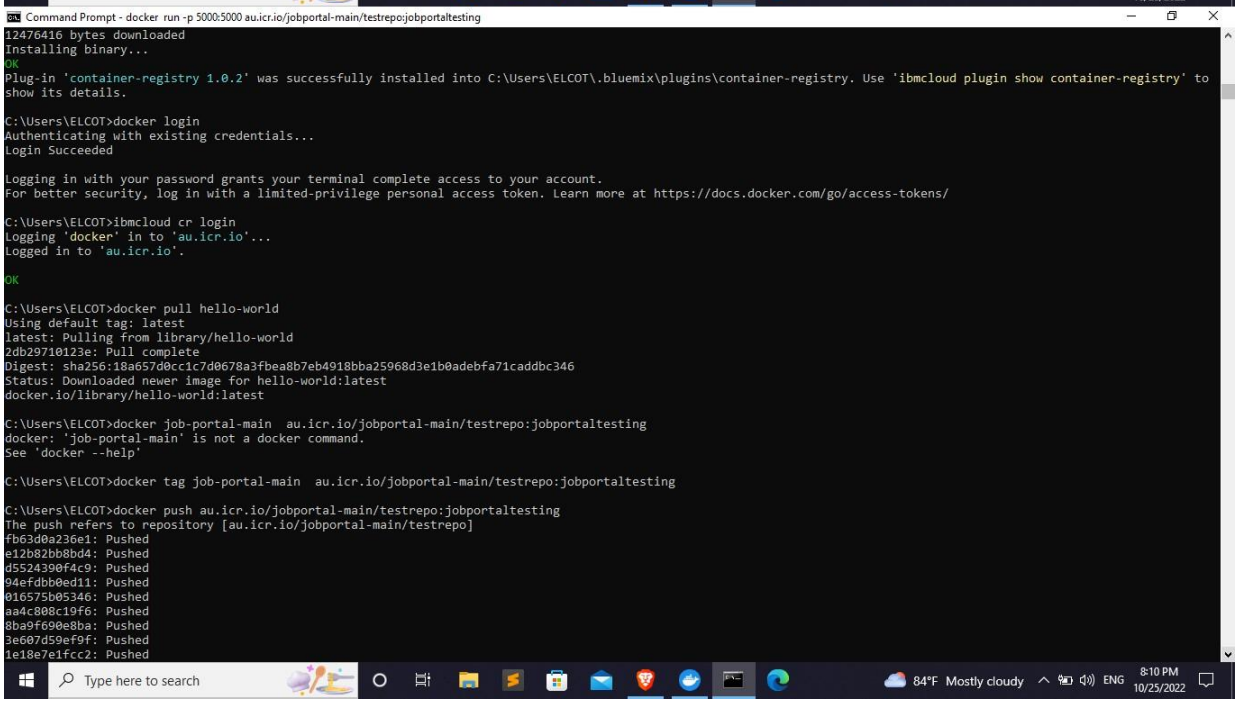


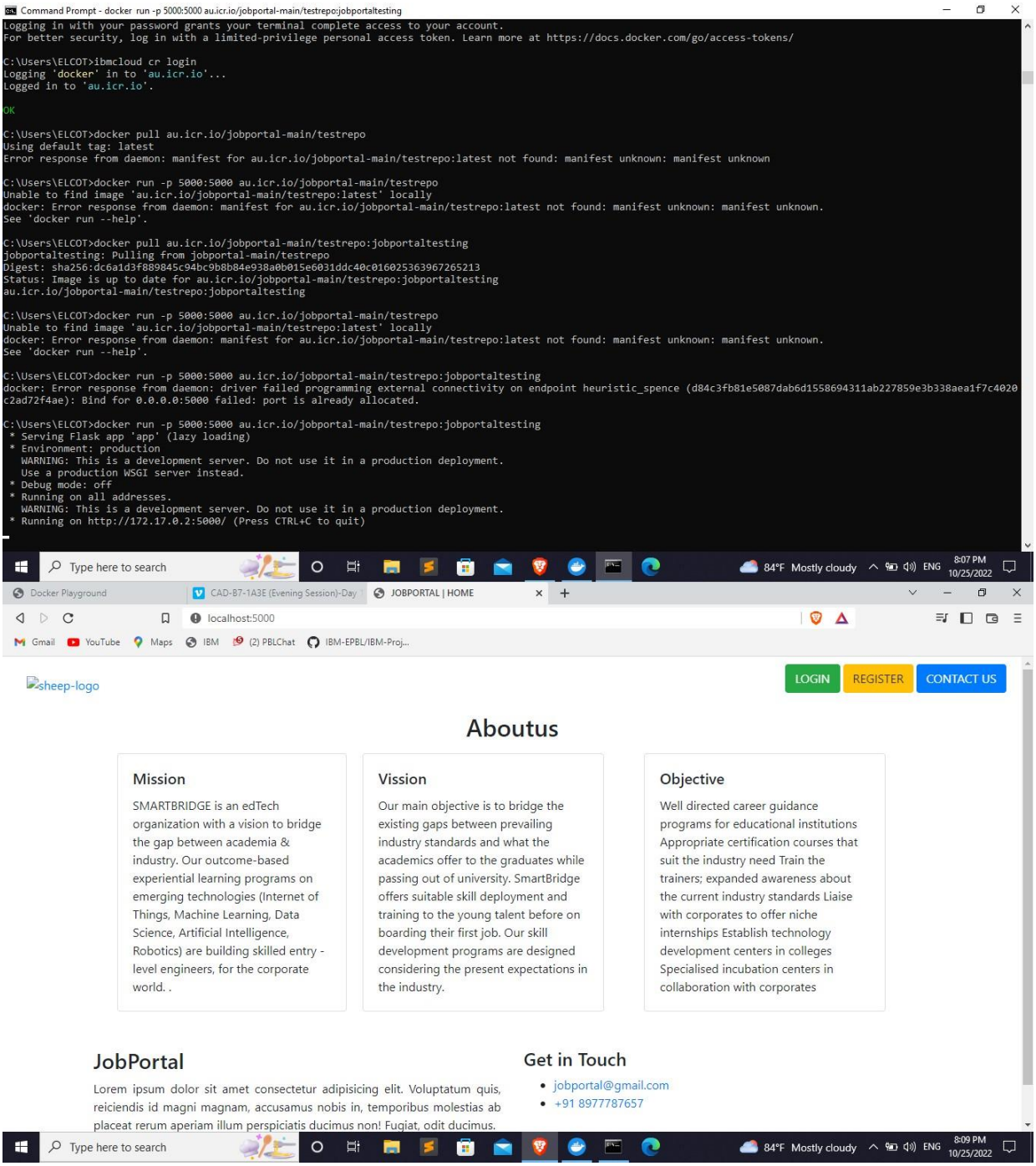
2. Create a docker file for the job portal application and deploy it in Docker desktop application





3. Create a IBM container registry and deploy helloword app or jobportal app


Command Prompt - docker run -p 5000:5000 au.icr.io/jobportal-main/testrepo:jobportaltesting
Password>
Authenticating...
OK
Targeted account Jayakamalesh k's Account (b9916d3d37d24674be1984ac2159a53c)
API endpoint: https://cloud.ibm.com
Region: au-syd
User: 5009it.jayakamalesh@kingston.ac.in
Account: Jayakamalesh k's Account (b9916d3d37d24674be1984ac2159a53c)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:
C:\Users\ELCOT>ibmcloud plugin install container-service
Looking up 'container-service' from repository 'IBM Cloud'...
Plug-in 'container-service[kubernetes-service/ks] 1.0.459' found in repository 'IBM Cloud'
Attempting to download the binary file...
26.86 MiB / 26.86 MiB [=] 100.00% 36s
28168192 bytes downloaded
Installing binary...
OK
Plug-in 'container-service 1.0.459' was successfully installed into C:\Users\ELCOT\.bluemix\plugins\container-service. Use 'ibmcloud plugin show container-service' to s
how its details.
C:\Users\ELCOT>ibmcloud plugin install container-registry
Looking up 'container-registry' from repository 'IBM Cloud'...
Plug-in 'container-registry[cr] 1.0.2' found in repository 'IBM Cloud'
Attempting to download the binary file...
11.90 MiB / 11.90 MiB [=] 100.00% 14s
12476416 bytes downloaded
Installing binary...
OK
Plug-in 'container-registry 1.0.2' was successfully installed into C:\Users\ELCOT\.bluemix\plugins\container-registry. Use 'ibmcloud plugin show container-registry' to
show its details.
C:\Users\ELCOT>ibmcloud plugin install observe-service
Looking up 'observe-service' from repository 'IBM Cloud'...
Plug-in 'observe-service 1.0.82' found in repository 'IBM Cloud'
Attempting to download the binary file...
13.38 MiB / 13.38 MiB [=] 100.00% 19s
14024704 bytes downloaded
Type here to search
84°F Mostly cloudy
ENG
8:09 PM
10/25/2022

Command Prompt - docker run -p 5000:5000 au.icr.io/jobportal-main/testrepo:jobportaltesting
12476416 bytes downloaded
Installing binary...
OK
Plug-in 'container-registry 1.0.2' was successfully installed into C:\Users\ELCOT\.bluemix\plugins\container-registry. Use 'ibmcloud plugin show container-registry' to
show its details.
C:\Users\ELCOT>docker login
Authenticating with existing credentials...
Login Succeeded
Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://docs.docker.com/go/access-tokens/
C:\Users\ELCOT>ibmcloud cr login
Logging 'docker' in to 'au.icr.io'...
Logged in to 'au.icr.io'.
OK
C:\Users\ELCOT>docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:18a657d0cc1c7d0678a3fbea8b7eb4918bba25968d3e1b0adebfa71caddbc346
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
C:\Users\ELCOT>docker job-portal-main au.icr.io/jobportal-main/testrepo:jobportaltesting
docker: 'job-portal-main' is not a docker command.
See 'docker --help'
C:\Users\ELCOT>docker tag job-portal-main au.icr.io/jobportal-main/testrepo:jobportaltesting
C:\Users\ELCOT>docker push au.icr.io/jobportal-main/testrepo:jobportaltesting
The push refers to repository [au.icr.io/jobportal-main/testrepo]
fb63d0a236e1: Pushed
e12b82bb8bd4: Pushed
d5524390f4c9: Pushed
94efdbb0ed11: Pushed
016575b05346: Pushed
aa4c808c19f6: Pushed
8ba9f690e8ba: Pushed
3e607d59ef9f: Pushed
1e18e7e1fcc2: Pushed
Type here to search
84°F Mostly cloudy
ENG
8:10 PM
10/25/2022


Command Prompt - docker run -p 5000:5000 au.icr.io/jobportal-main/testrepo:jobportaltesting
Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://docs.docker.com/go/access-tokens/
C:\Users\ELCOT>ibmcloud cr login
Logging 'docker' in to 'au.icr.io'...
Logged in to 'au.icr.io'.
OK
C:\Users\ELCOT>docker pull au.icr.io/jobportal-main/testrepo
Using default tag: latest
Error response from daemon: manifest for au.icr.io/jobportal-main/testrepo:latest not found: manifest unknown: manifest unknown
C:\Users\ELCOT>docker run -p 5000:5000 au.icr.io/jobportal-main/testrepo
Unable to find image 'au.icr.io/jobportal-main/testrepo:latest' locally
docker: Error response from daemon: manifest for au.icr.io/jobportal-main/testrepo:latest not found: manifest unknown: manifest unknown.
See 'docker run --help'.
C:\Users\ELCOT>docker pull au.icr.io/jobportal-main/testrepo:jobportaltesting
jobportaltesting: Pulling from jobportal-main/testrepo
Digest: sha256:dc6a1d3f889845c94bc9b8b84e938a0b015e6031ddc40c016025363967265213
Status: Image is up to date for au.icr.io/jobportal-main/testrepo:jobportaltesting
au.icr.io/jobportal-main/testrepo:jobportaltesting
C:\Users\ELCOT>docker run -p 5000:5000 au.icr.io/jobportal-main/testrepo
Unable to find image 'au.icr.io/jobportal-main/testrepo:latest' locally
docker: Error response from daemon: manifest for au.icr.io/jobportal-main/testrepo:latest not found: manifest unknown: manifest unknown.
See 'docker run --help'.
C:\Users\ELCOT>docker run -p 5000:5000 au.icr.io/jobportal-main/testrepo:jobportaltesting
docker: Error response from daemon: driver failed programming external connectivity on endpoint heuristic_spence (d84c3fb81e5087dab6d1558694311ab227859e3b338aea1f7c4020c2ad72f4ae): Bind for 0.0.0.0:5000 failed: port is already allocated.
C:\Users\ELCOT>docker run -p 5000:5000 au.icr.io/jobportal-main/testrepo:jobportaltesting
* 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)
Type here to search
84°F Mostly cloudy
ENG
8:07 PM
10/25/2022
Docker Playground
CAD-B7-1A3E (Evening Session)-Day
JOBPORTAL | HOME
localhost:5000
Gmail
YouTube
Maps
IBM
(2) PBLChat
IBM-EPBL/IBM-Proj...
sheep-logo
LOGIN
REGISTER
CONTACT US
Aboutus
Mission
SMARTBRIDGE is an edTech organization with a vision to bridge the gap between academia & industry. Our outcome-based experiential learning programs on emerging technologies (Internet of Things, Machine Learning, Data Science, Artificial Intelligence, Robotics) are building skilled entry - level engineers, for the corporate world. .
Vission
Our main objective is to bridge the existing gaps between prevailing industry standards and what the academics offer to the graduates while passing out of university. SmartBridge offers suitable skill deployment and training to the young talent before on boarding their first job. Our skill development programs are designed considering the present expectations in the industry.
Objective
Well directed career guidance programs for educational institutions Appropriate certification courses that suit the industry need Train the trainers; expanded awareness about the current industry standards Liaise with corporates to offer niche internships Establish technology development centers in colleges Specialised incubation centers in collaboration with corporates
JobPortal
Lorem ipsum dolor sit amet consectetur adipisicing elit. Voluptatum quis, reiciendis id magni magnam, accusamus nobis in, temporibus molestias ab placeat rerum aperiam illum perspiciatis ducimus non! Fugiat, odit ducimus.
Get in Touch
jobportal@gmail.com
+91 8977787657
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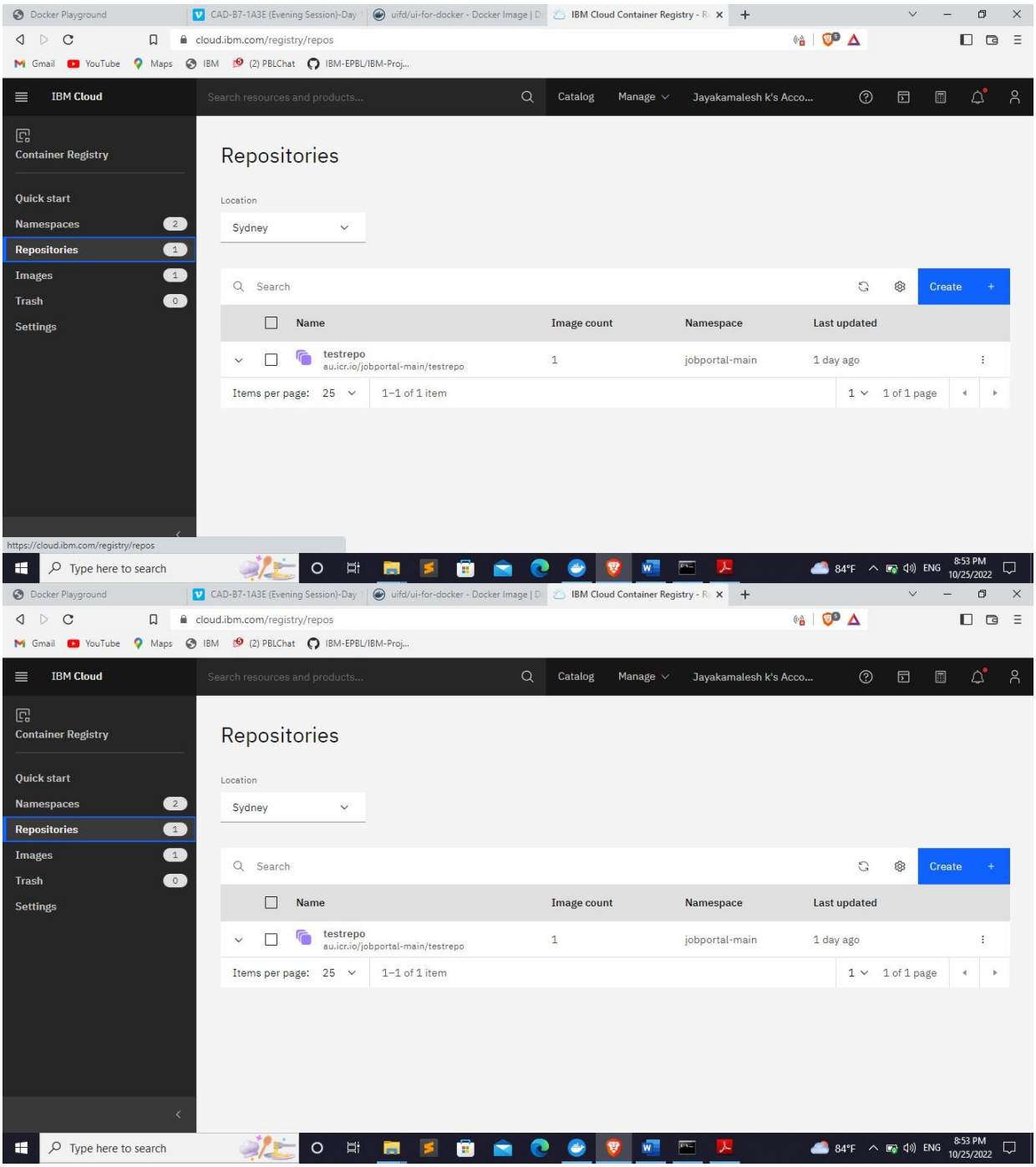
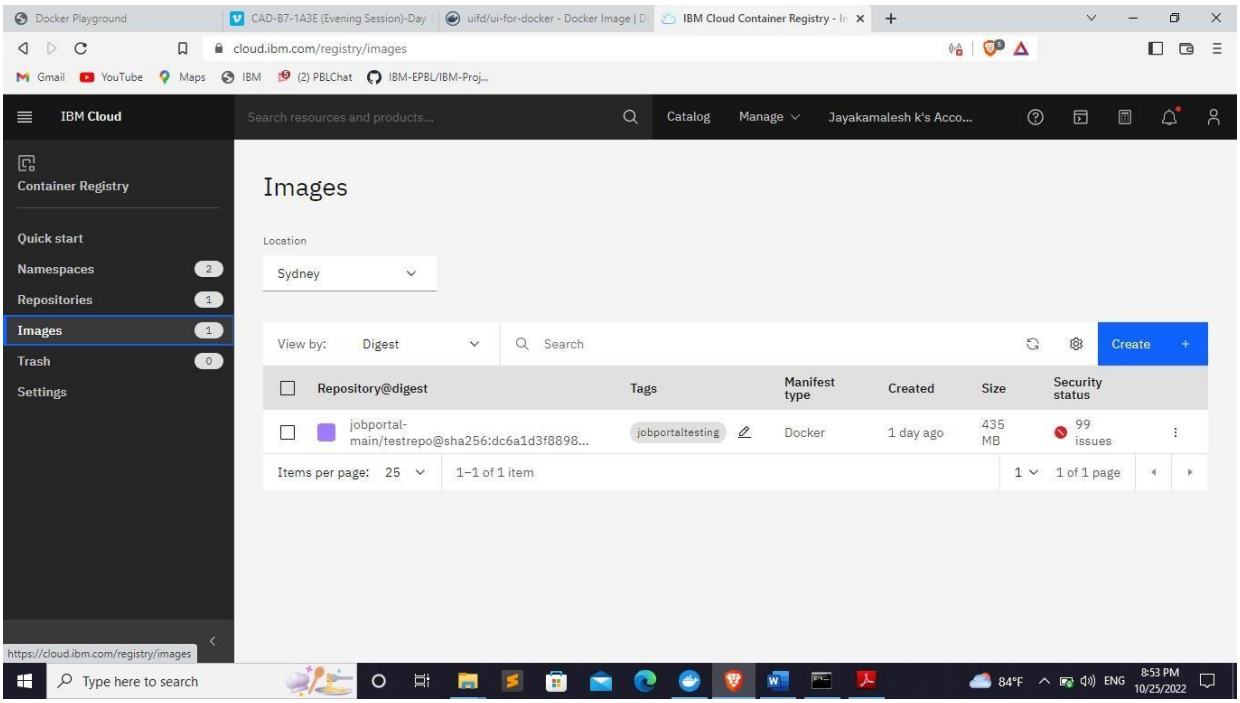
ENG
8:09 PM
10/25/2022



Docker Playground
CAD-B7-1A3E (Evening Session)-Day
uifd/ui-for-docker - Docker Image | D
IBM Cloud Container Registry - R
cloud.ibm.com/registry/repos
Gmail
YouTube
Maps
IBM
(2) PBLChat
IBM-EPBL/IBM-Proj...
IBM Cloud
Search resources and products...
Catalog
Manage
Jayakamalesh k's Acco...
Container Registry
Quick start
Namespaces 2
Repositories 1
Images 1
Trash 0
Settings
Repositories
Location
Sydney
Search
Create
Name
Image count
Namespace
Last updated
testrepo
au.icr.io/jobportal-main/testrepo
1
jobportal-main
1 day ago
Items per page: 25
1–1 of 1 item
1 of 1 page
Type here to search
84°F
ENG
8:53 PM
10/25/2022


Docker Playground
CAD-B7-1A3E (Evening Session)-Day
uifd/ui-for-docker - Docker Image | D
IBM Cloud Container Registry - In
cloud.ibm.com/registry/images
Gmail
YouTube
Maps
IBM
(2) PBLChat
IBM-EPBL/IBM-Proj...
IBM Cloud
Search resources and products...
Catalog
Manage
Jayakamalesh k's Acco...
Container Registry
Quick start
Namespaces 2
Repositories 1
Images 1
Trash 0
Settings
Images
Location
Sydney
View by: Digest
Search
Create
Repository@digest
Tags
Manifest type
Created
Size
Security status
jobportal-main/testrepo@sha256:dc6a1d3f8898...
jobportaltesting
Docker
1 day ago
435 MB
99 issues
Items per page: 25
1–1 of 1 item
1 of 1 page
https://cloud.ibm.com/registry/images
Type here to search
84°F
ENG
8:53 PM
10/25/2022