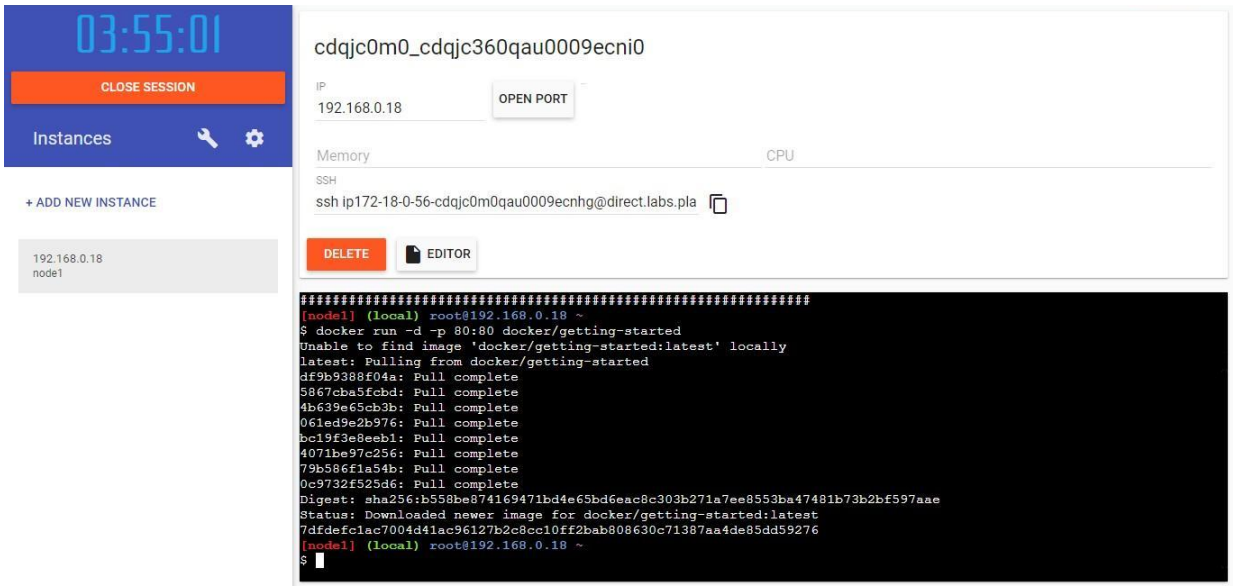
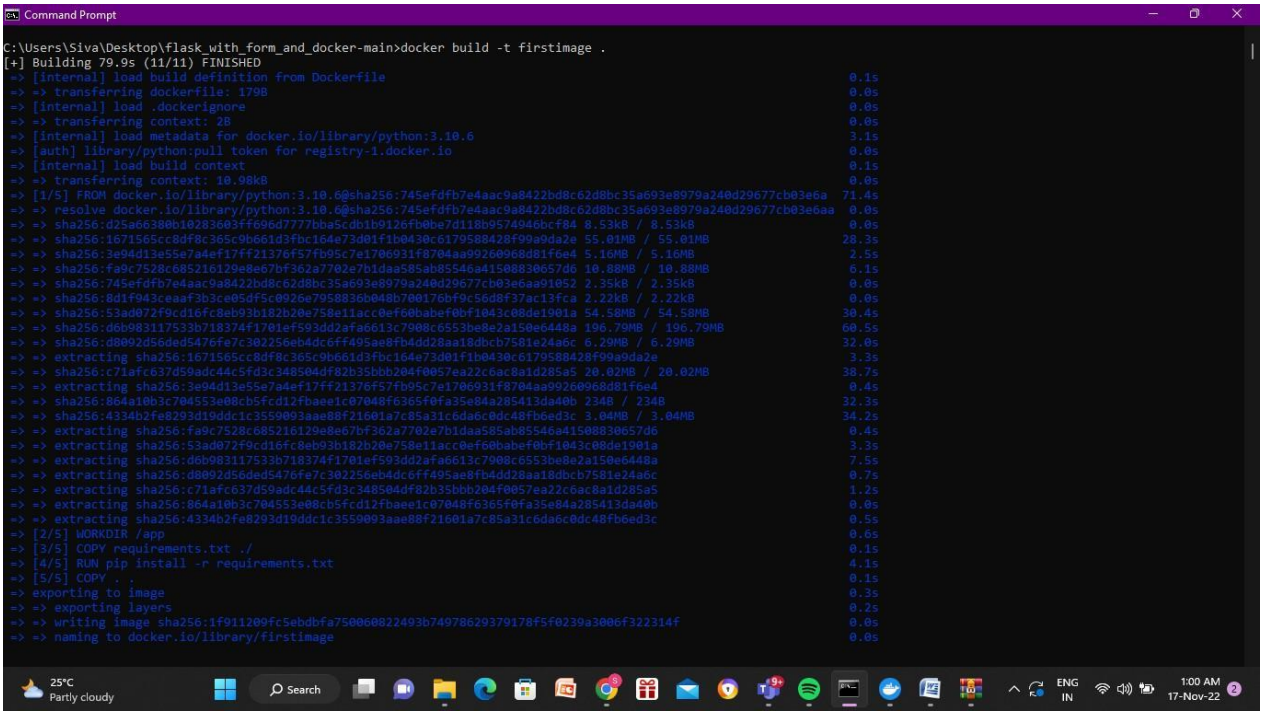
Assignment - 4
Kubernetes/Docker

Assignment Date	9 September 2022
Student Name	Dhanesh B
Student Roll Number	111519205006
Maximum Marks	2 Marks

Question 1:

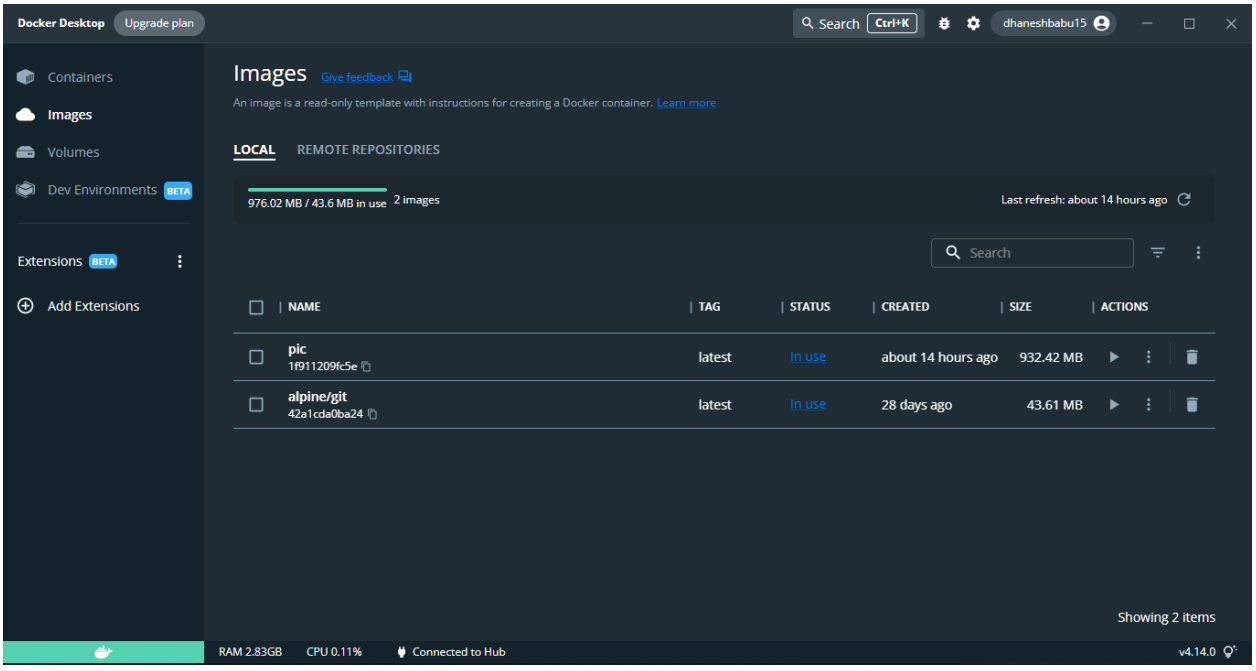
Pull an Image from docker hub and run it in docker playground.

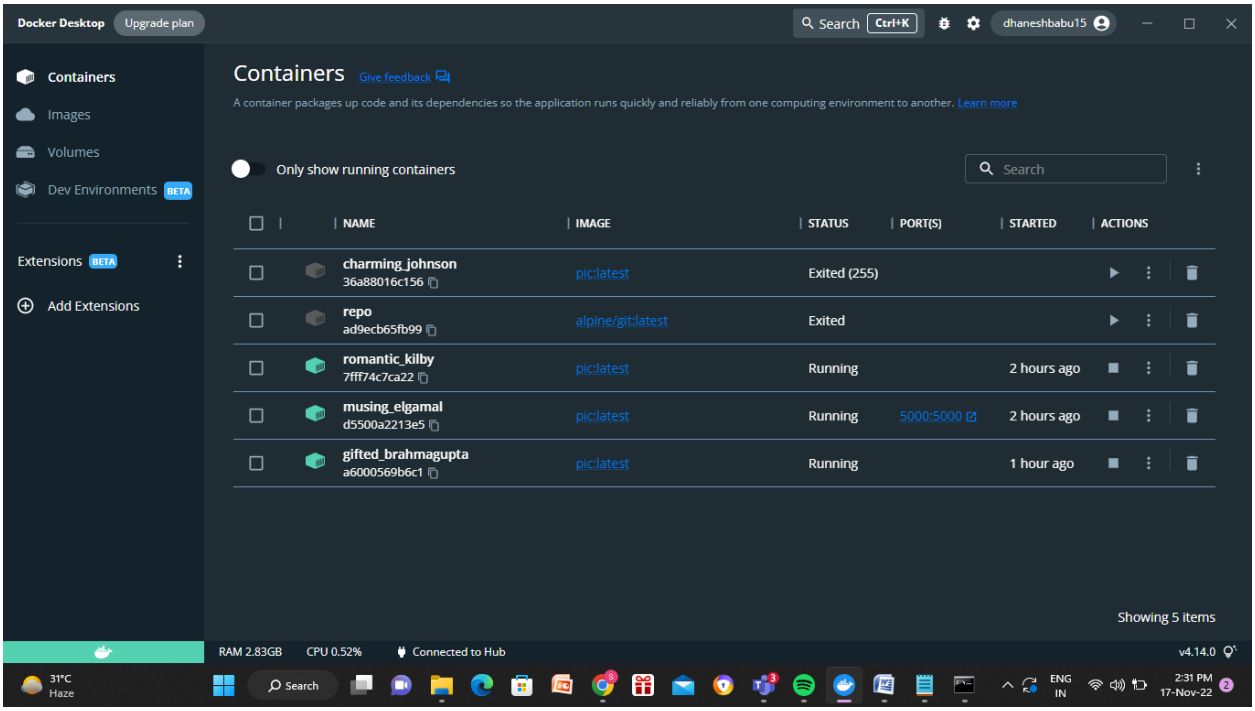


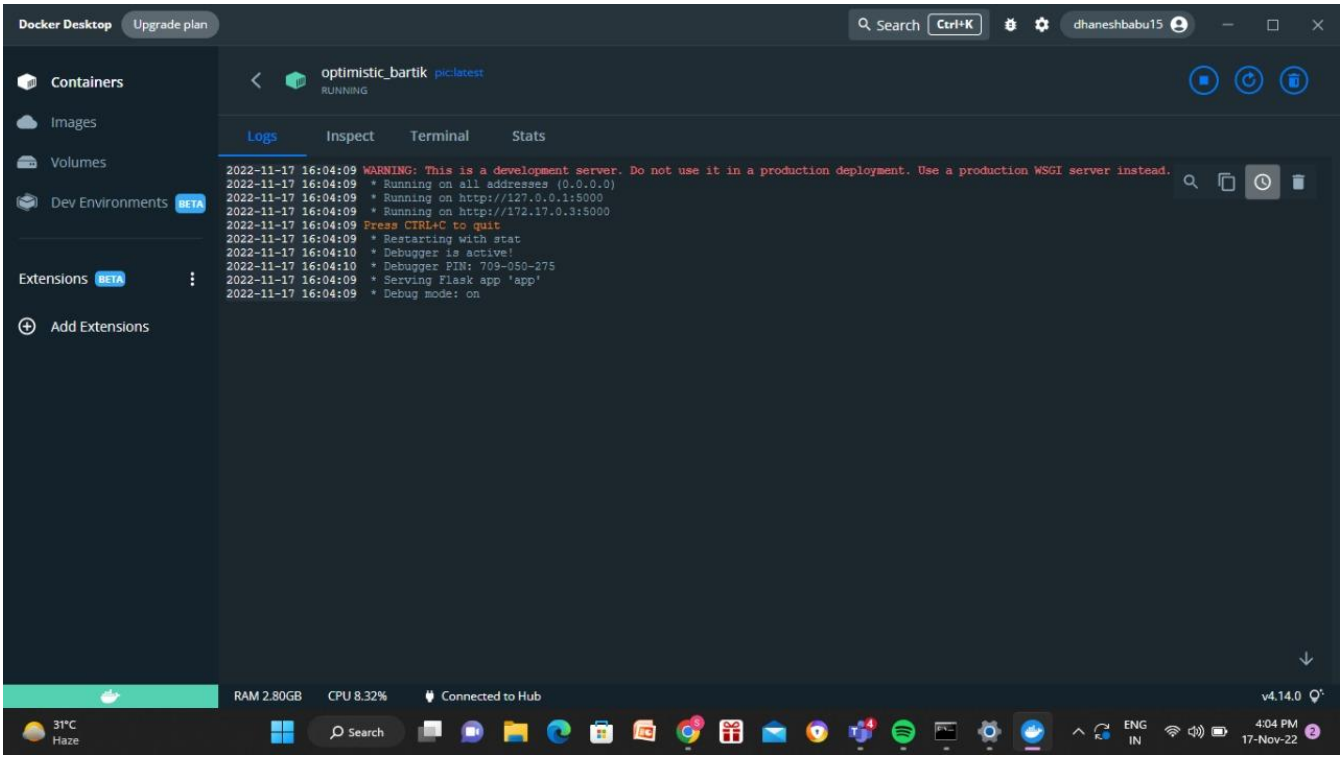


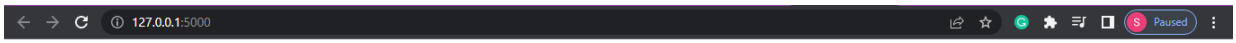
Question 2:

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




Docker Desktop
Upgrade plan
Search Ctrl+K
dhaneshbabu15
Containers
Images
Volumes
Dev Environments BETA
Extensions BETA
Add Extensions
Containers
Give feedback
A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more
Only show running containers
Search
NAME
IMAGE
STATUS
PORT(S)
STARTED
ACTIONS
charming_johnson
36a88016c156
pic:latest
Exited (255)
repo
ad9ecb65fb99
alpine/git:latest
Exited
romantic_kilby
7fff74c7ca22
pic:latest
Running
2 hours ago
musing_elgamal
d5500a2213e5
pic:latest
Running
5000:5000
2 hours ago
gifted_brahmagupta
a6000569b6c1
pic:latest
Running
1 hour ago
Showing 5 items
RAM 2.83GB
CPU 0.52%
Connected to Hub
v4.14.0
31°C
Haze
Search
ENG
IN
2:31 PM
17-Nov-22


Docker Desktop
Upgrade plan
Search Ctrl+K
dhaneshbabu15
Containers
Images
Volumes
Dev Environments BETA
Extensions BETA
Add Extensions
optimistic_bartik pic:latest
RUNNING
Logs
Inspect
Terminal
Stats
2022-11-17 16:04:09 WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
2022-11-17 16:04:09 * Running on all addresses (0.0.0.0)
2022-11-17 16:04:09 * Running on http://127.0.0.1:5000
2022-11-17 16:04:09 * Running on http://172.17.0.3:5000
2022-11-17 16:04:09 Press CTRL+C to quit
2022-11-17 16:04:09 * Restarting with stat
2022-11-17 16:04:10 * Debugger is active!
2022-11-17 16:04:10 * Debugger PIN: 709-050-275
2022-11-17 16:04:09 * Serving Flask app 'app'
2022-11-17 16:04:09 * Debug mode: on
RAM 2.80GB
CPU 8.32%
Connected to Hub
v4.14.0
31°C
Haze
Search
ENG
IN
4:04 PM
17-Nov-22



FLASKAPP CREATE ABOUT

Blog Page

Messages

Message One

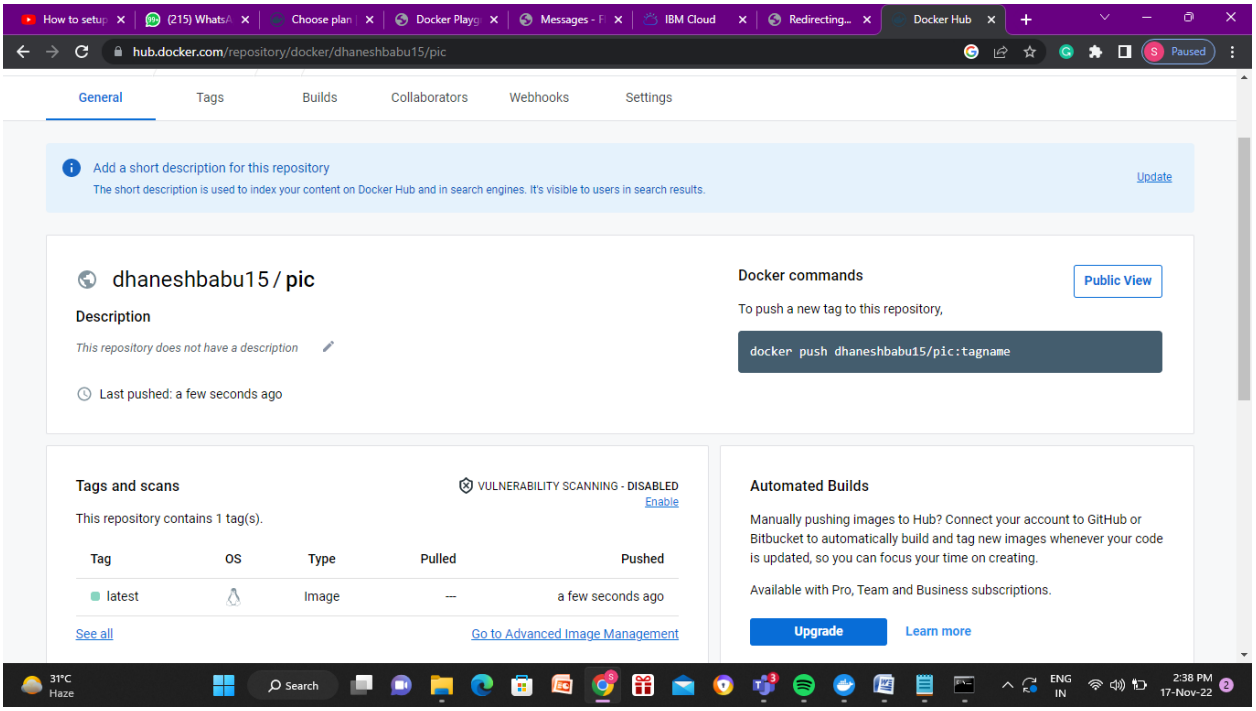
Message One Content

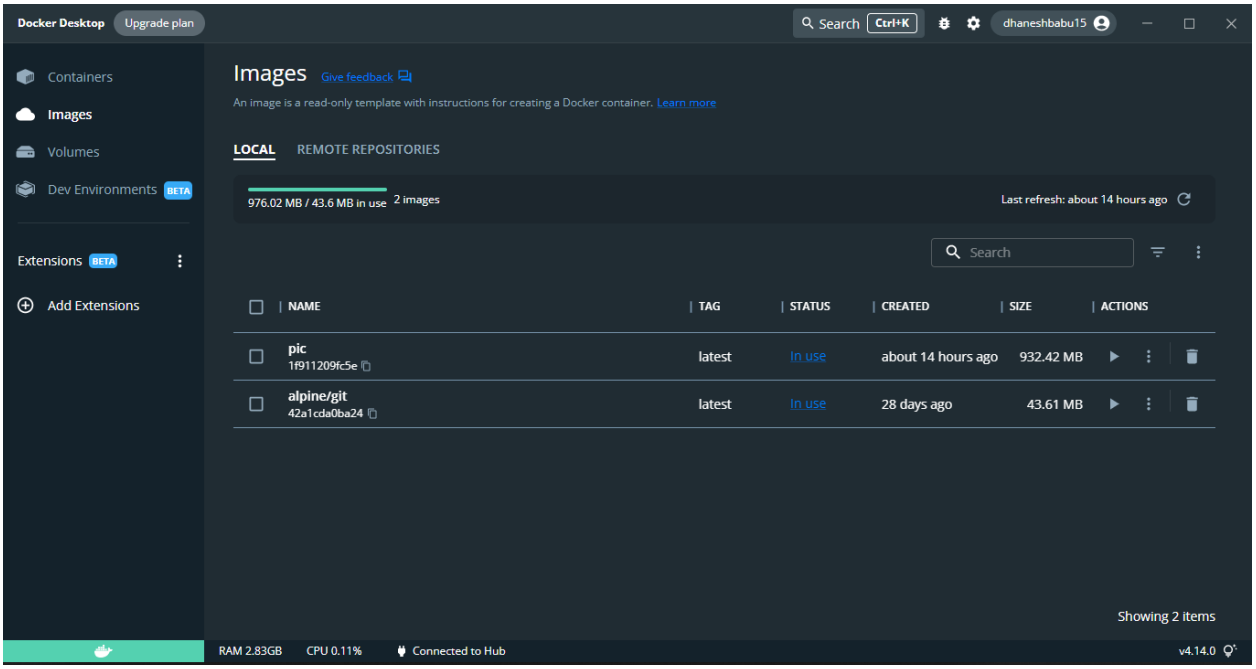
Message Two

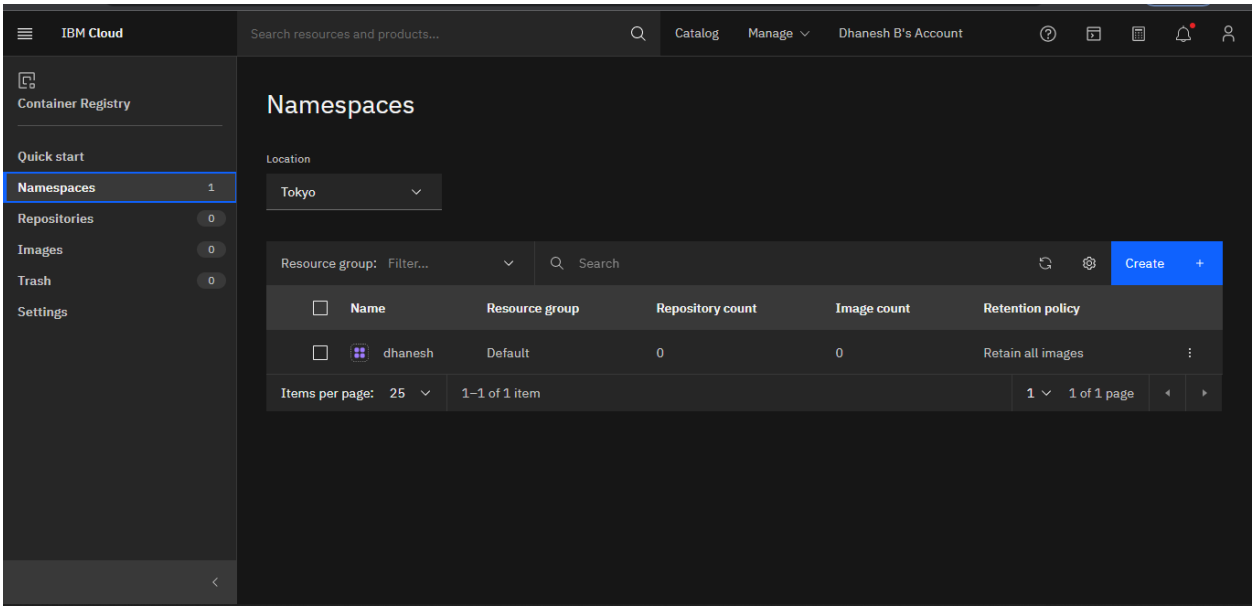
Message Two Content

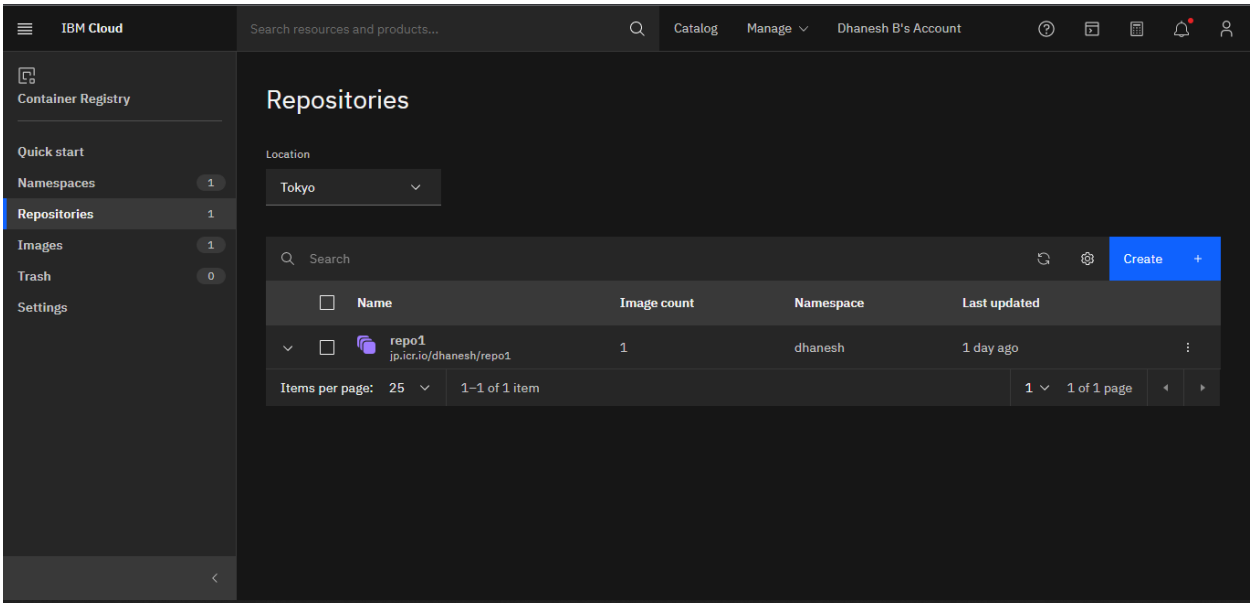
Question 3:

Create a IBM container registry and deploy a hello world app or job portal app.






IBM Cloud
Search resources and products...
Catalog
Manage
Dhanesh B's Account
Container Registry
Quick start
Namespaces 1
Repositories 0
Images 0
Trash 0
Settings
Namespaces
Location
Tokyo
Resource group: Filter...
Search
Create
Name
Resource group
Repository count
Image count
Retention policy
dhanesh
Default
0
0
Retain all images
Items per page: 25
1–1 of 1 item
1
1 of 1 page


IBM Cloud
Search resources and products...
Catalog
Manage
Dhanesh B's Account
Container Registry
Quick start
Namespaces 1
Repositories 1
Images 1
Trash 0
Settings
Repositories
Location
Tokyo
Search
Create
Name
Image count
Namespace
Last updated
repo1
jp.icr.io/dhanesh/repo1
1
dhanesh
1 day ago
Items per page: 25
1–1 of 1 item
1
1 of 1 page

Question 4:

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