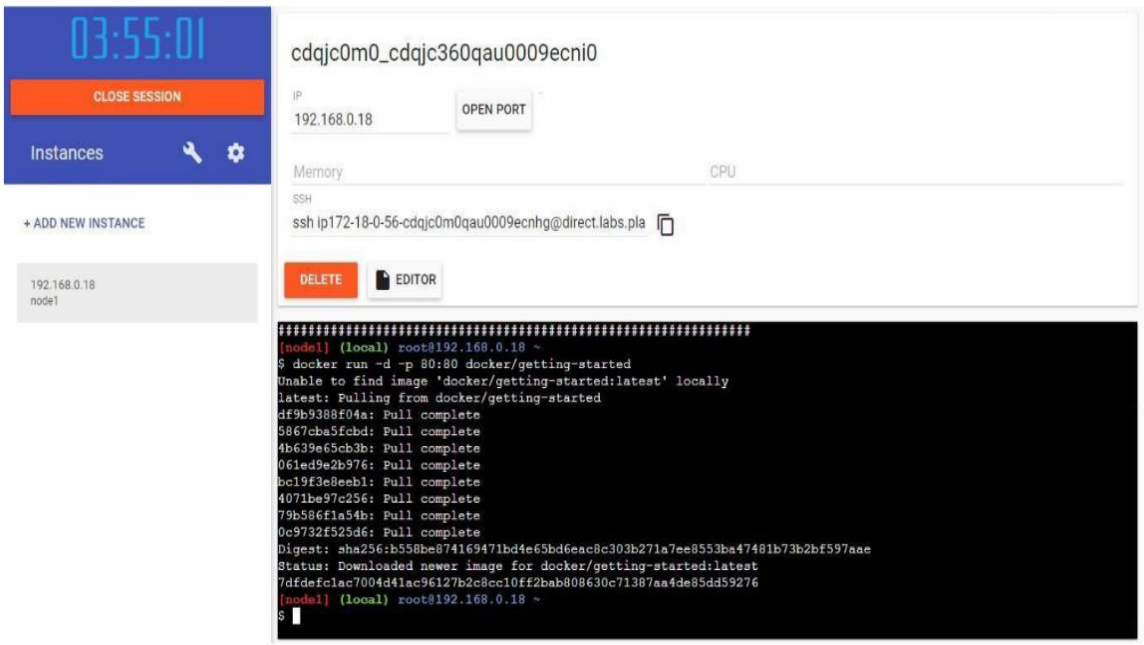
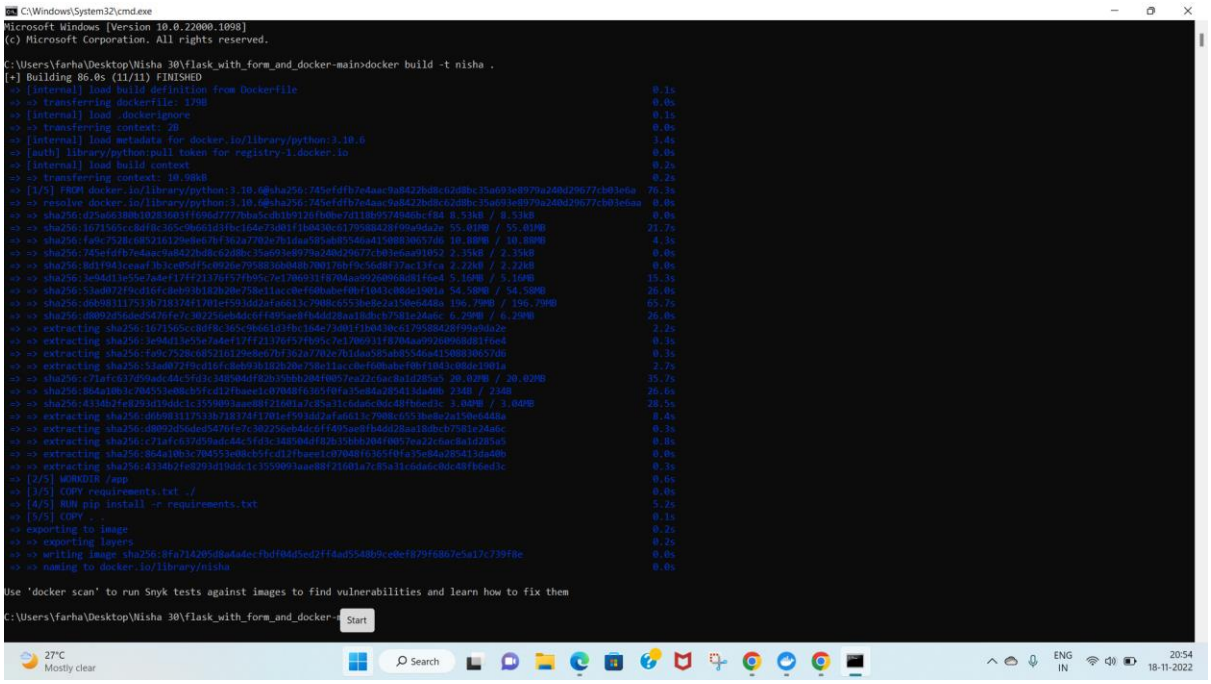
Assignment -4
Kubernetes/Docker

Assignment Date	09 September 2022
Student Name	Ms. Barghana Nisha S
Student Roll Number	111519205003
Maximum Marks	2 Marks

Question 1:

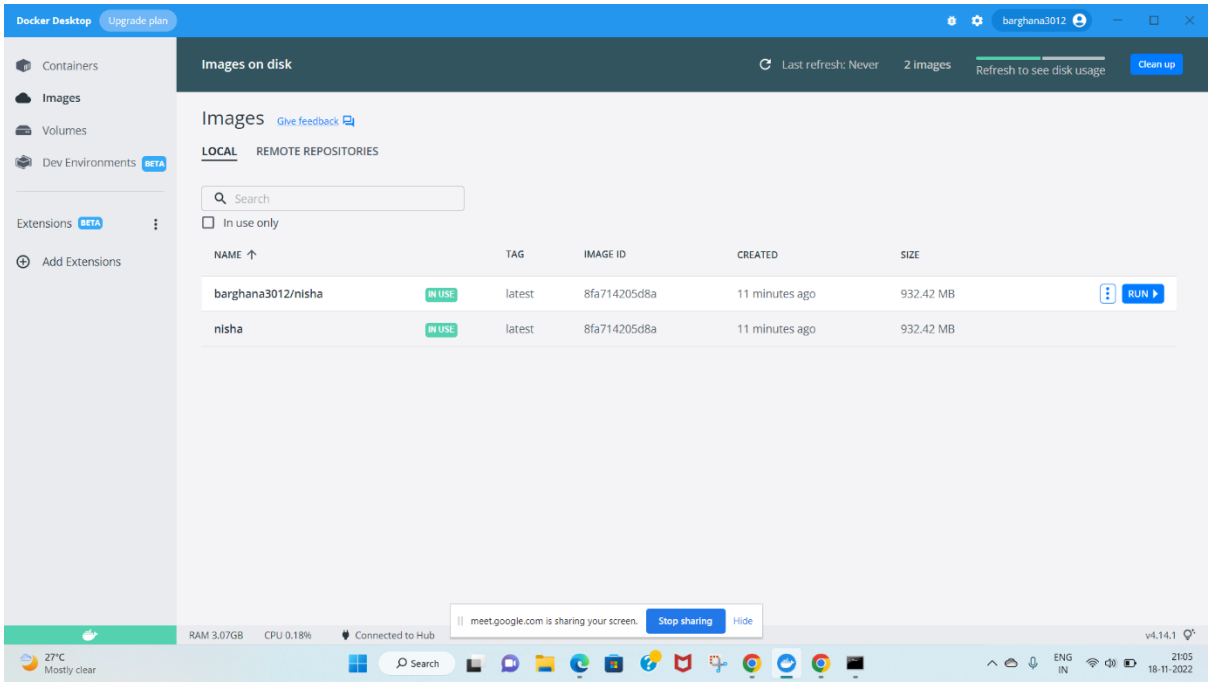
Pull an Image from docker hub and run it in docker playground.

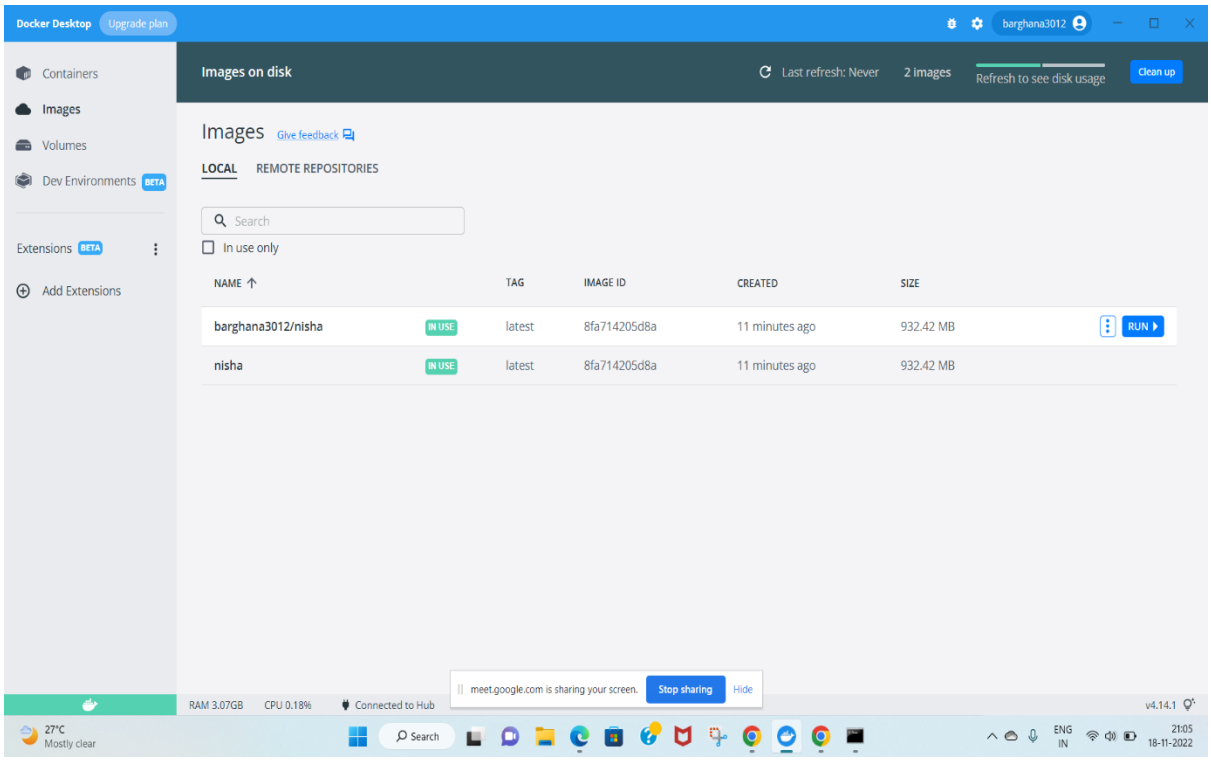


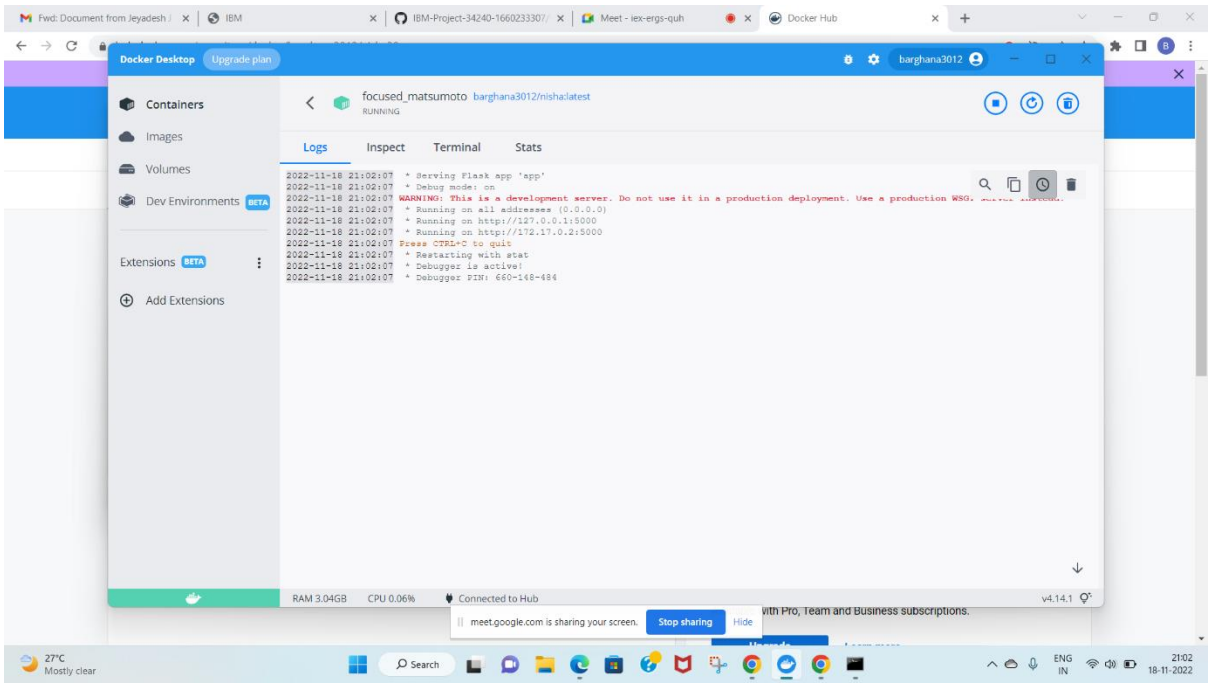


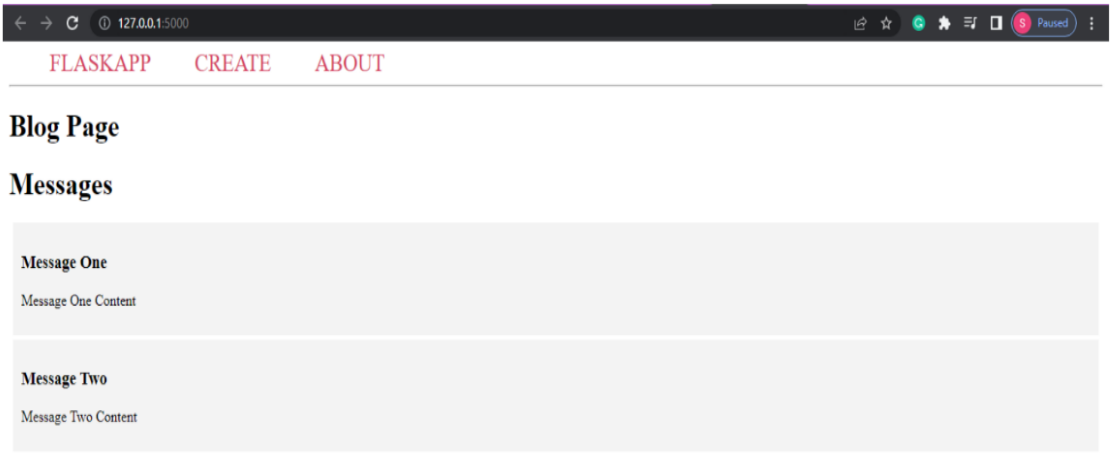
Question 2:

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


Docker Desktop
Upgrade plan
barghana3012
Containers
Images
Volumes
Dev Environments
BETA
Extensions
BETA
Add Extensions
Images on disk
Last refresh: Never
2 images
Refresh to see disk usage
Clean up
Images
Give feedback
LOCAL
REMOTE REPOSITORIES
Search
In use only
NAME
TAG
IMAGE ID
CREATED
SIZE
barghana3012/nisha
IN USE
latest
8fa714205d8a
11 minutes ago
932.42 MB
RUN
nisha
IN USE
latest
8fa714205d8a
11 minutes ago
932.42 MB
meet.google.com is sharing your screen.
Stop sharing
Hide
RAM 3.07GB
CPU 0.18%
Connected to Hub
v4.14.1
27°C
Mostly clear
Search
ENG
IN
21:05
18-11-2022

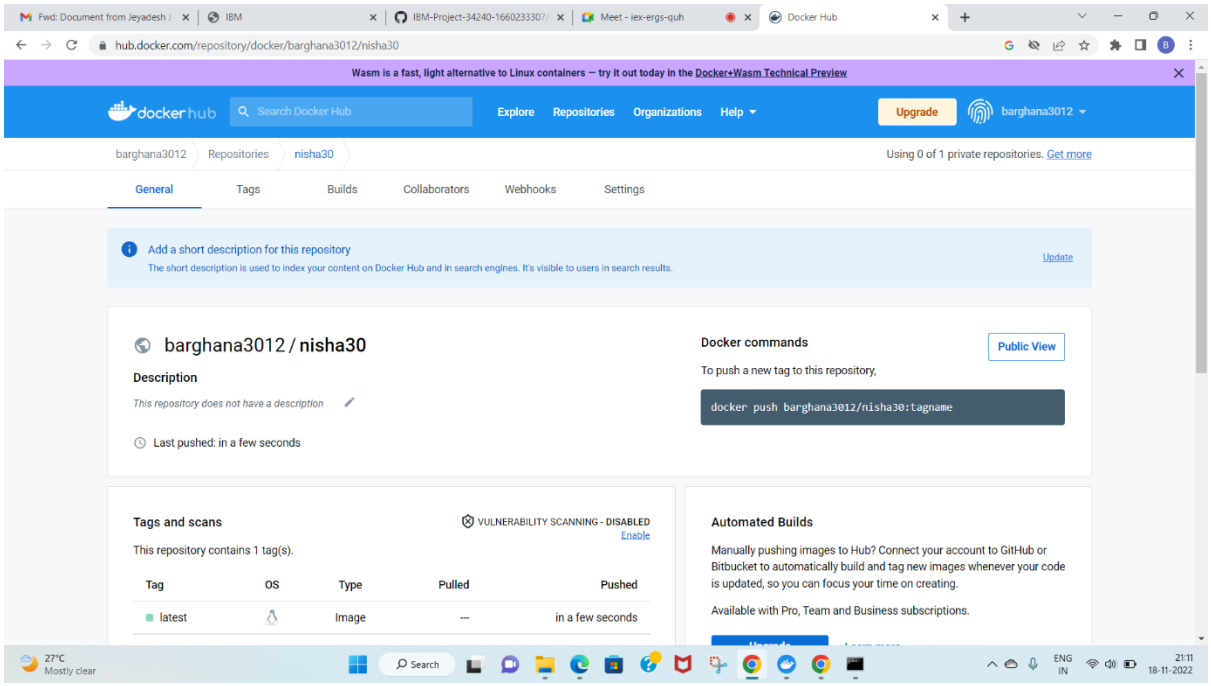

Docker Desktop
Upgrade plan
barghana3012
Containers
Images
Volumes
Dev Environments
BETA
Extensions
BETA
Add Extensions
Images on disk
Last refresh: Never
2 images
Refresh to see disk usage
Clean up
Images
Give feedback
LOCAL
REMOTE REPOSITORIES
Search
In use only
NAME
TAG
IMAGE ID
CREATED
SIZE
barghana3012/nisha
IN USE
latest
8fa714205d8a
11 minutes ago
932.42 MB
RUN
nisha
IN USE
latest
8fa714205d8a
11 minutes ago
932.42 MB
meet.google.com is sharing your screen.
Stop sharing
Hide
RAM 3.07GB
CPU 0.18%
Connected to Hub
v4.14.1
27°C
Mostly clear
Search
ENG
IN
21:05
18-11-2022

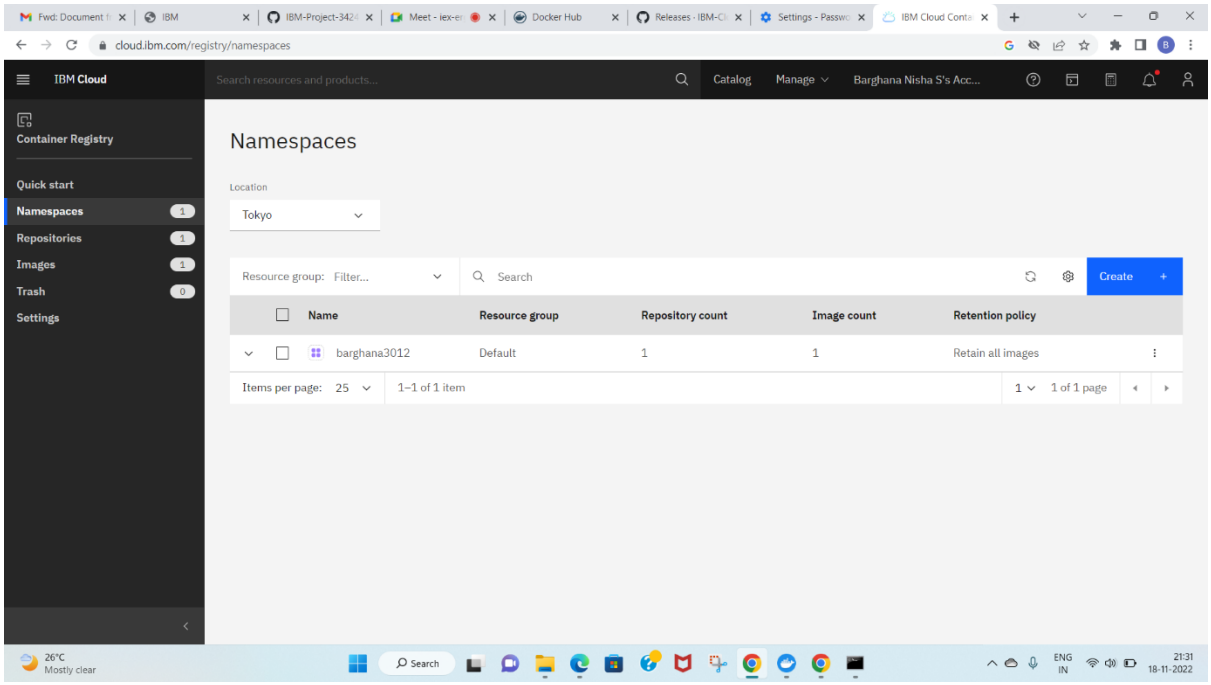

Docker Desktop
Upgrade plan
barghana3012
Containers
Images
Volumes
Dev Environments
BETA
Extensions
BETA
Add Extensions
focused_matsumoto
barghana3012/nishalatest
RUNNING
Logs
Inspect
Terminal
Stats
2022-11-18 21:02:07 * Serving Flask app 'app'
2022-11-18 21:02:07 * Debug mode: on
2022-11-18 21:02:07 WARNING: This is a development server. Do not use it in a production deployment. Use a production WSG
2022-11-18 21:02:07 * Running on all addresses (0.0.0.0)
2022-11-18 21:02:07 * Running on http://127.0.0.1:5000
2022-11-18 21:02:07 * Running on http://172.17.0.2:5000
2022-11-18 21:02:07 Press CTRL+C to quit
2022-11-18 21:02:07 * Restarting with stat
2022-11-18 21:02:07 * Debugger is active!
2022-11-18 21:02:07 * Debugger PIN: 660-148-484
RAM 3.04GB
CPU 0.06%
Connected to Hub
v4.14.1
meet.google.com is sharing your screen.
Stop sharing
Hide
27°C
Mostly clear
Search
ENG
IN
21:02
18-11-2022

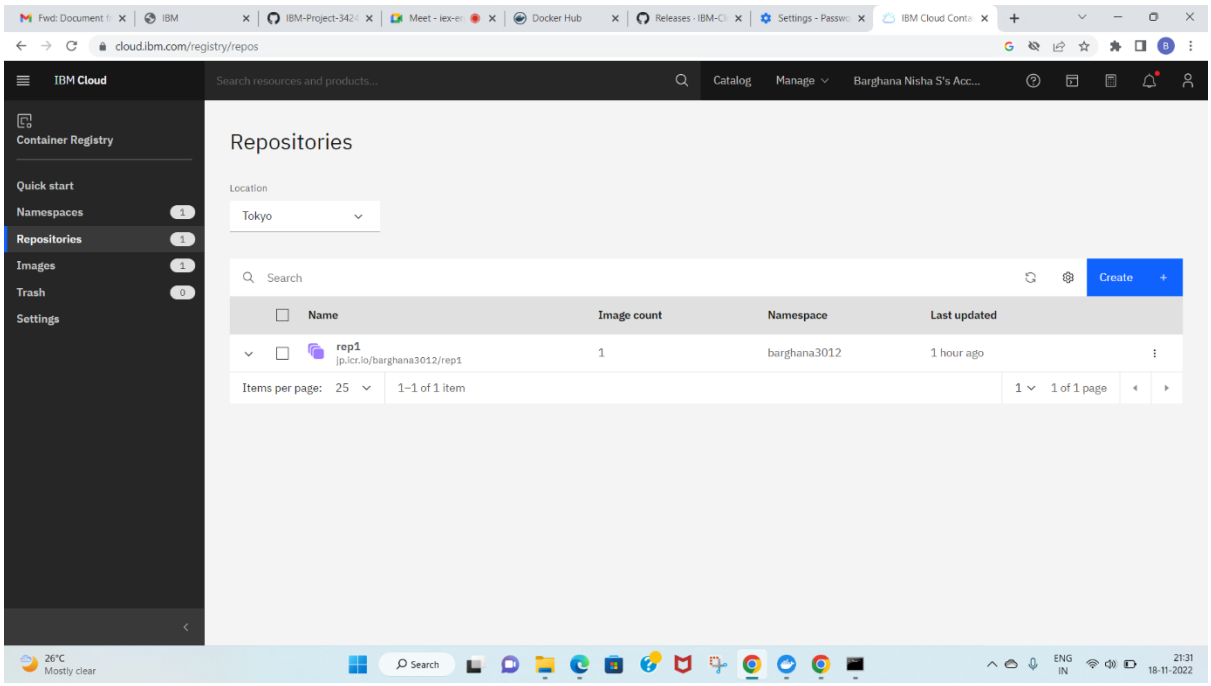

127.0.0.1:5000
Paused
FLASKAPP
CREATE
ABOUT
Blog Page
Messages
Message One
Message One Content
Message Two
Message Two Content

Question 3:

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

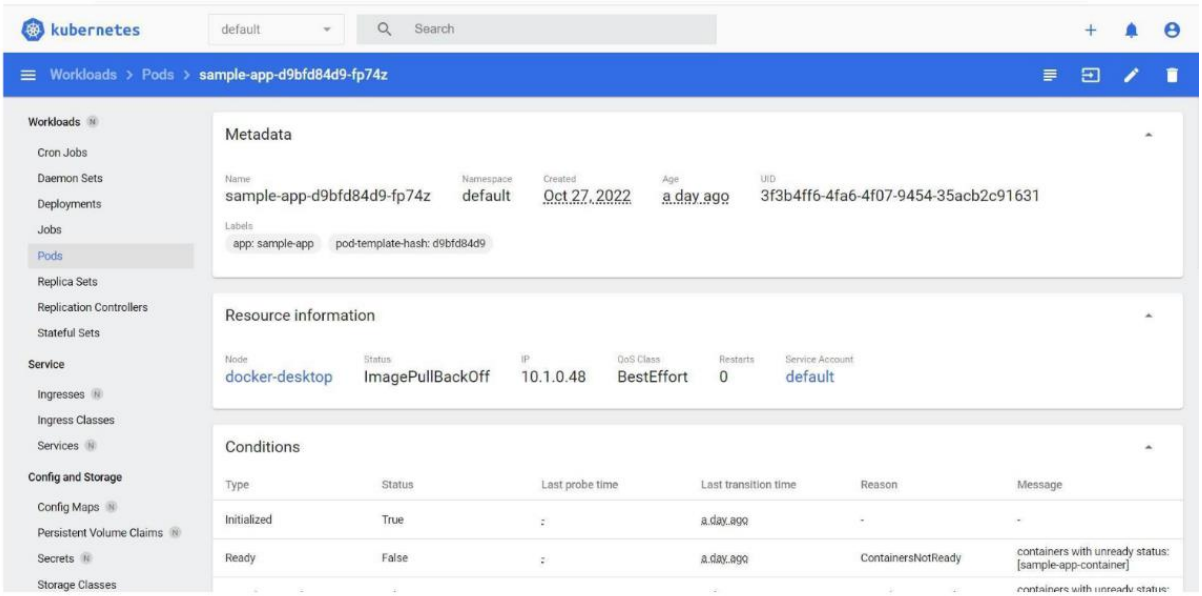


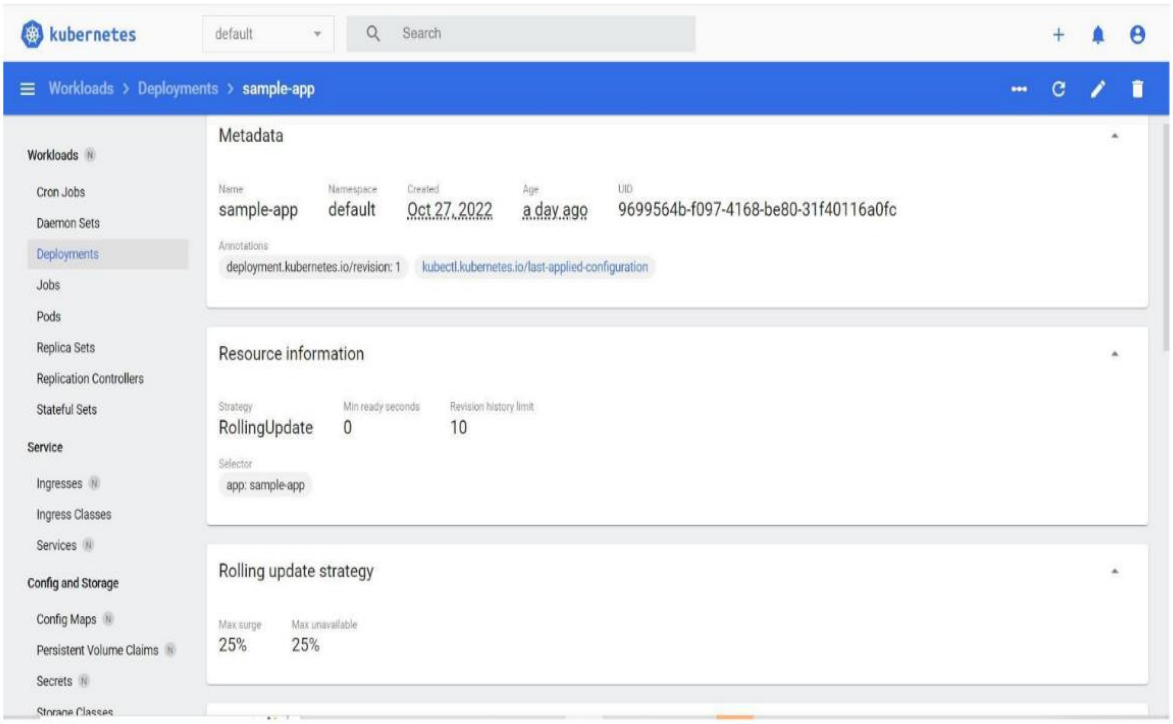




Question 4:

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.




kubernetes
default
Search
Workloads > Deployments > sample-app
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Ingress Classes
Services
Config and Storage
Config Maps
Persistent Volume Claims
Secrets
Storage Classes
Metadata
Name
sample-app
Namespace
default
Created
Oct 27, 2022
Age
a day ago
UID
9699564b-f097-4168-be80-31f40116a0fc
Annotations
deployment.kubernetes.io/revision: 1
kubectl.kubernetes.io/last-applied-configuration
Resource information
Strategy
RollingUpdate
Min ready seconds
0
Revision history limit
10
Selector
app: sample-app
Rolling update strategy
Max surge
25%
Max unavailable
25%