IBM Assignment - 4

ProjectTitle :**Personal Expense Tracker Application**

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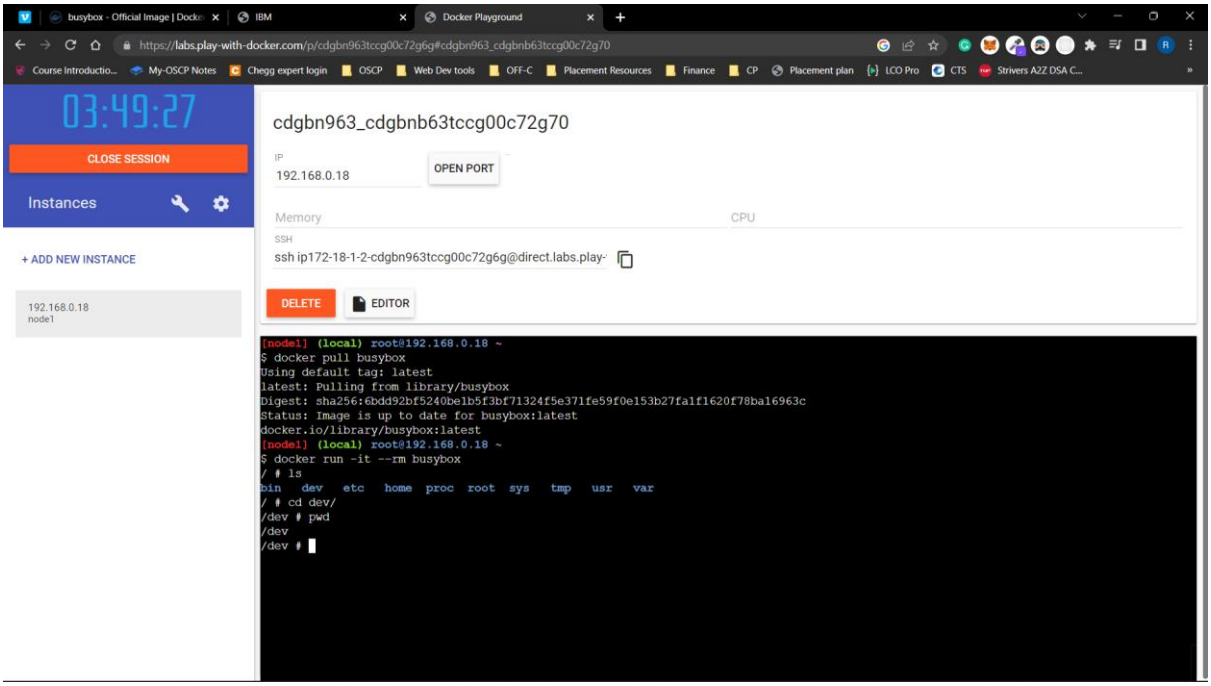
1) Pull an Image from docker hub and run it in docker playground.

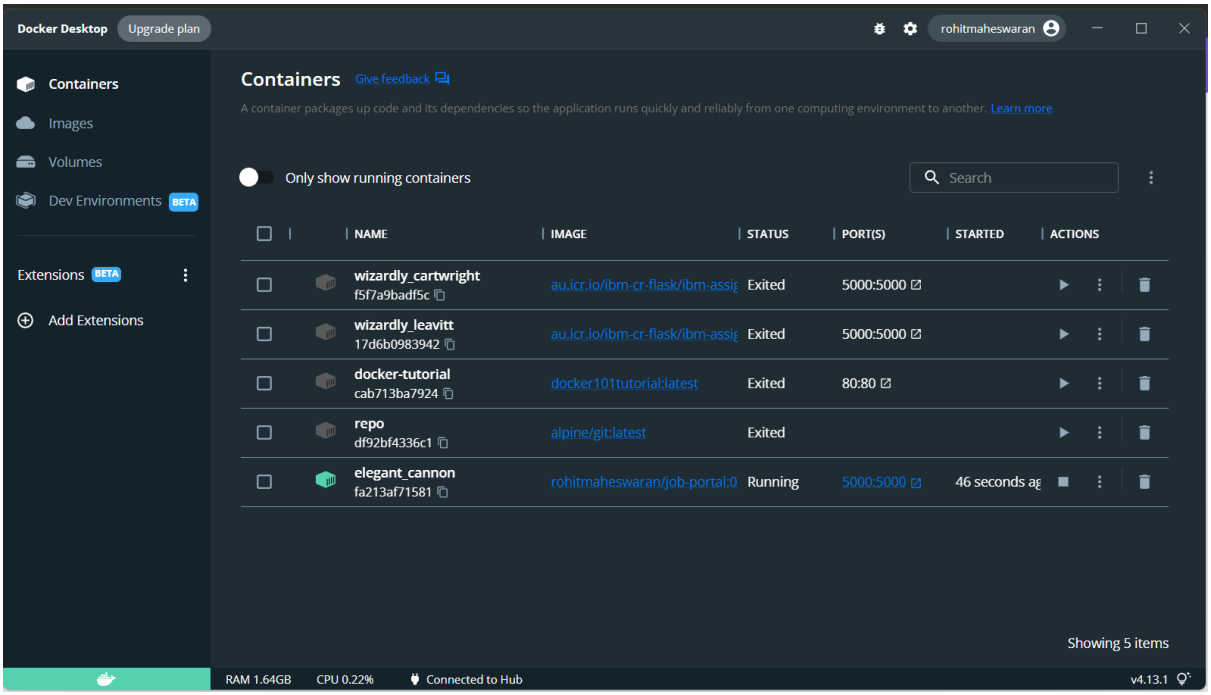


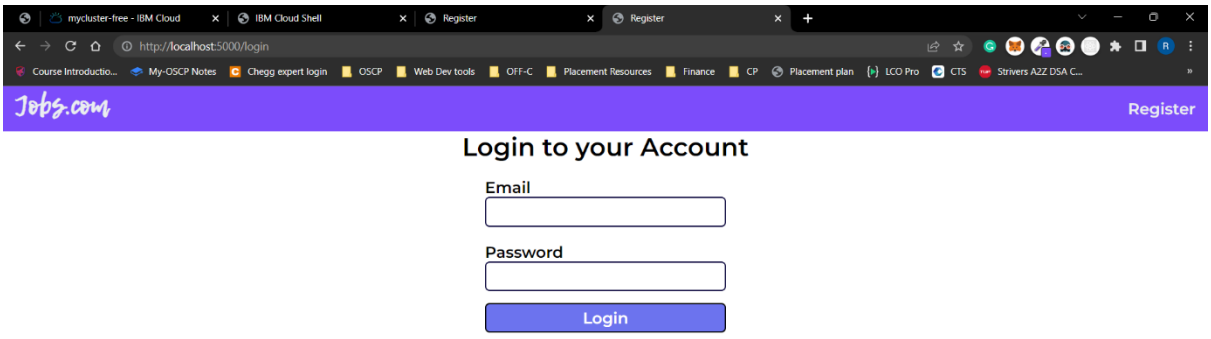
2) Create a docker file for the job portal application and deploy it in Docker desktop application.

Dockerfile

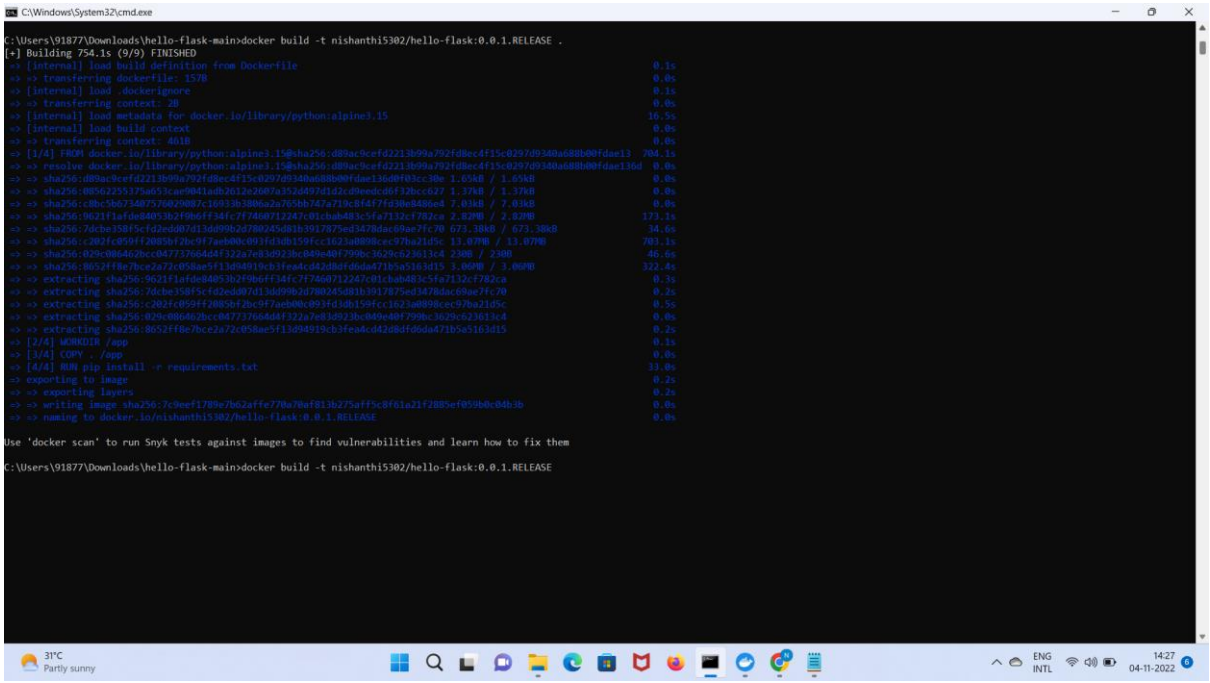
```
FROMpython:3-alpine3.15
WORKDIR/app
COPY./app
RUNpipinstall-rrequirements.txt
EXPOSE5000
CMDpython./app.py
```

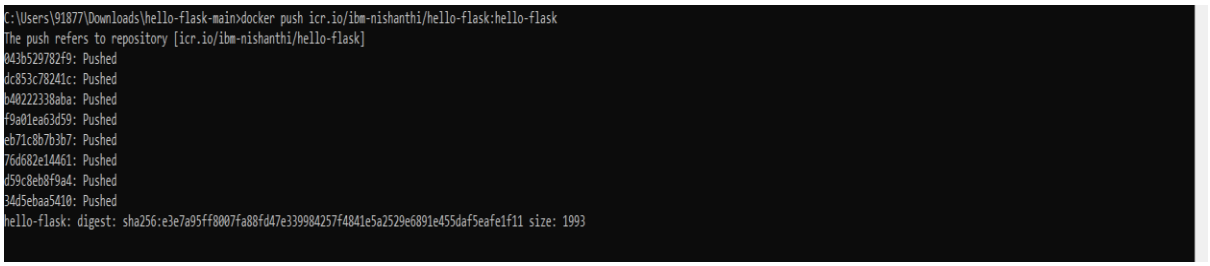
```
PS D:\flask\job> docker build -t rohitmaheswaran/job-portal:0.0.1.RELEASE .
[+] Building 1.5s (9/9) FINISHED
 => [internal] load build definition from Dockerfile                                                                0.0s
 => => transferring dockerfile: 31B                                                                                 0.0s
 => [internal] load .dockerignore                                                                                   0.0s
 => => transferring context: 2B                                                                                     0.0s
 => [internal] load metadata for docker.io/library/python:3-alpine3.15                                              1.4s
 => [internal] load build context                                                                                   0.0s
 => => transferring context: 401B                                                                                   0.0s
 => [1/4] FROM docker.io/library/python:3-alpine3.15@sha256:d89ac9cefd2213b99a792fd8ec4f15c0297d9340a688b00fdae136d0f03cc30e  0.0s
 => CACHED [2/4] WORKDIR /app                                                                                       0.0s
 => CACHED [3/4] COPY . /app                                                                                        0.0s
 => CACHED [4/4] RUN pip install -r requirements.txt                                                                0.0s
 => exporting to image                                                                                              0.0s
 => => exporting layers                                                                                             0.0s
 => => writing image sha256:8e89dbebaf6e0271b0e28ed824f5efdcfb8b629cbe92bd63eac1fa9f33a91b68                        0.0s
 => => naming to docker.io/rohitmaheswaran/job-portal:0.0.1.RELEASE                                                  0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
PS D:\flask\job>
```

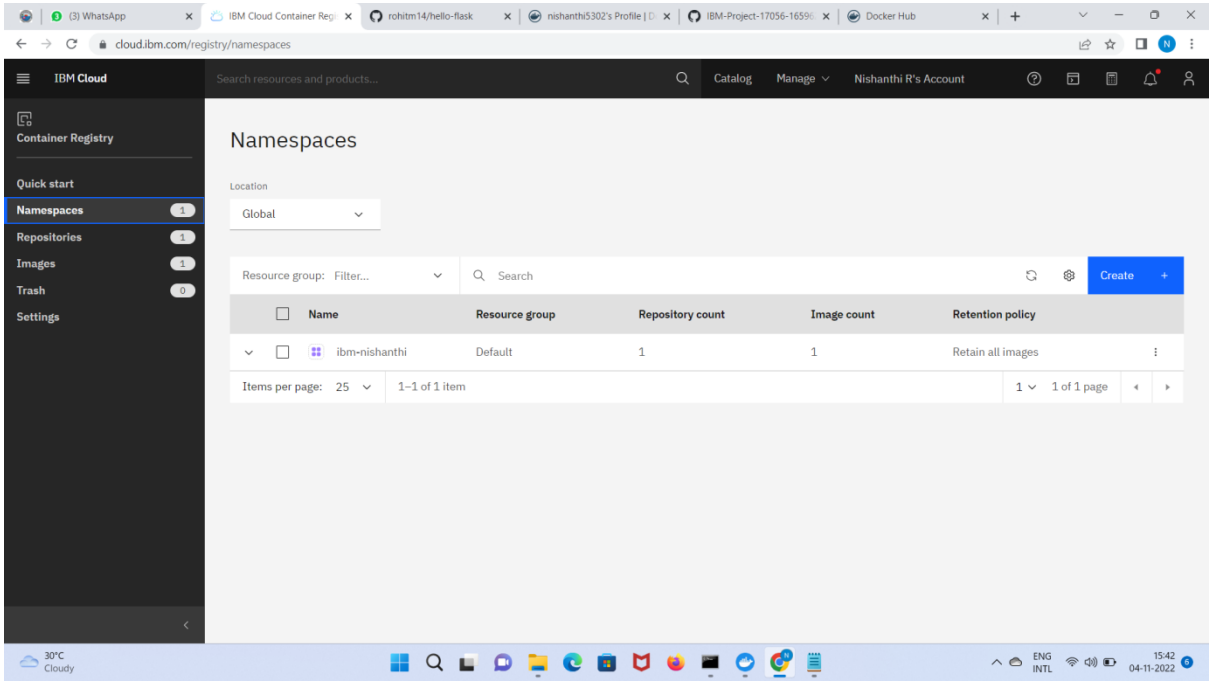




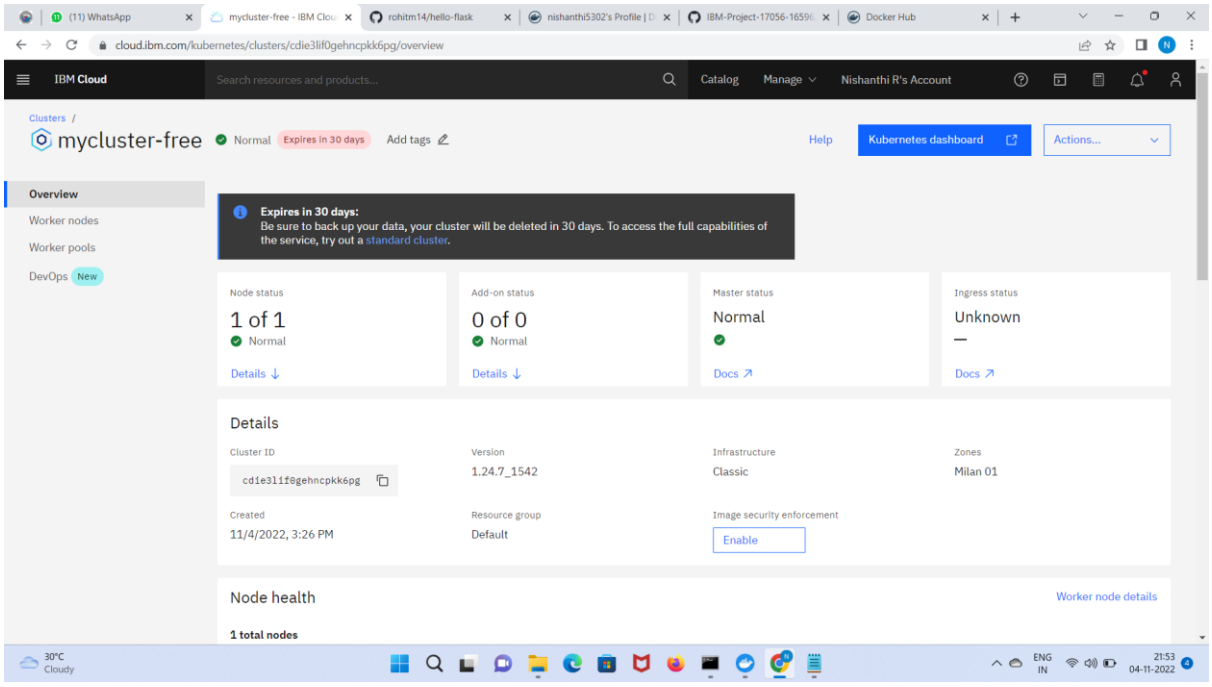
3) Create a IBM container registry and deploy hello world app or job portal app.

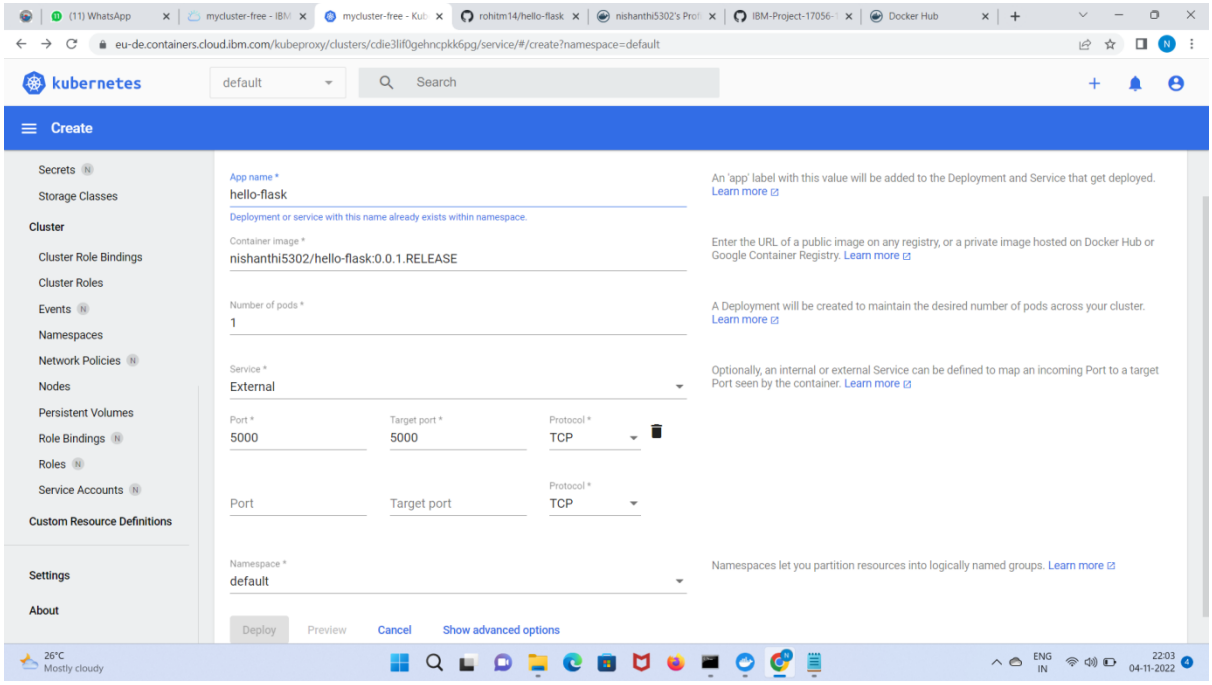


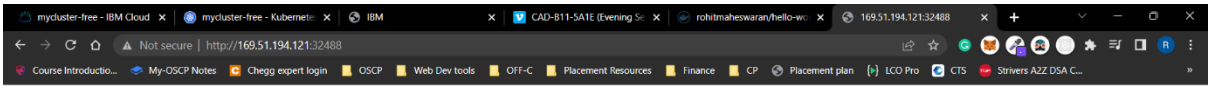




4) Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.







Welcome to Flask App!! :)