

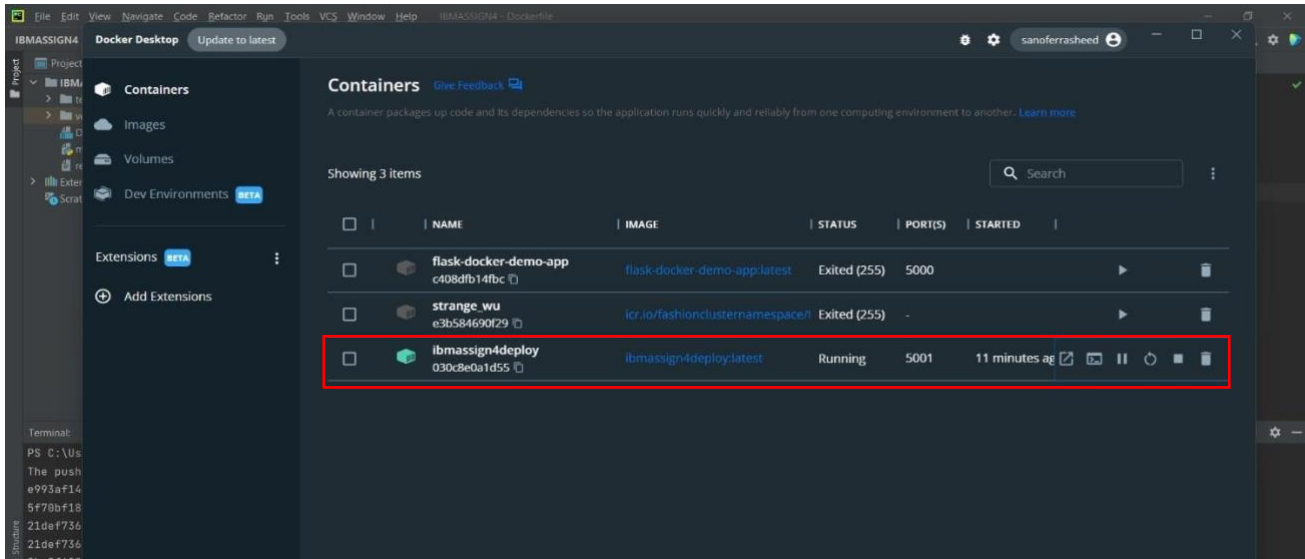
ASSIGNMENT 4

CLOUD APPLICATION DEVELOPMENT

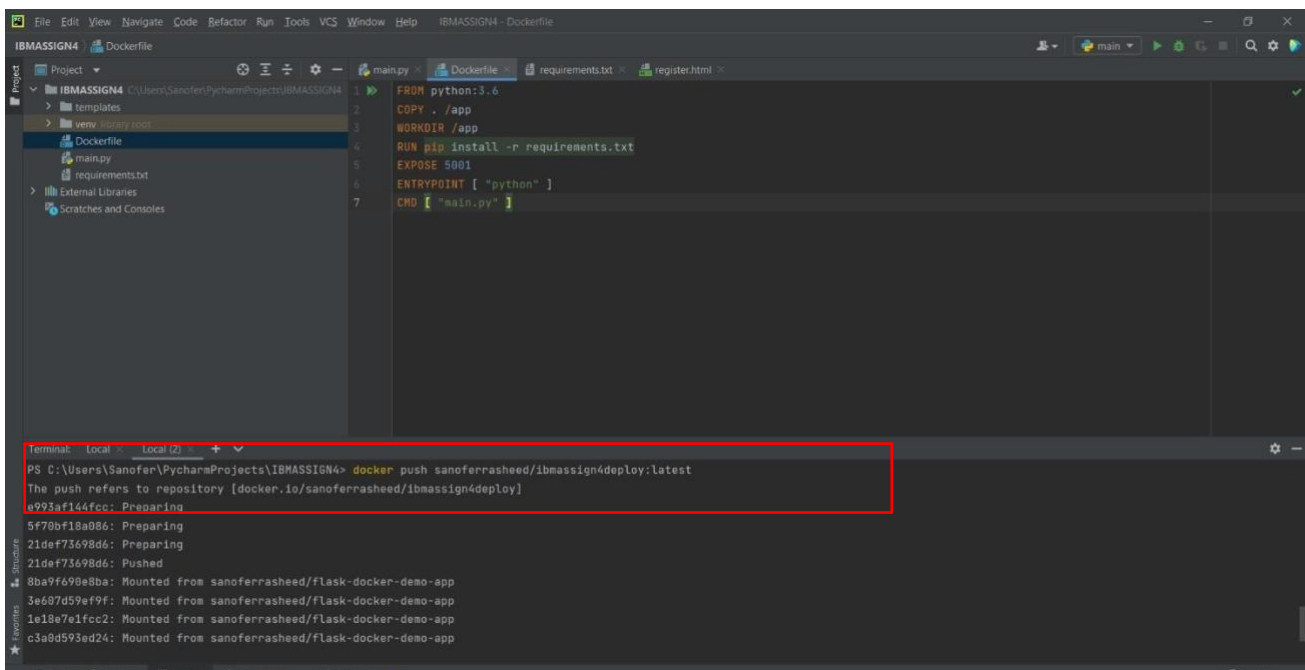
Team Id	PNT2022TMID44299
Project Name	Smart Fashion Recommender Application
Maximum Marks	2 Marks

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

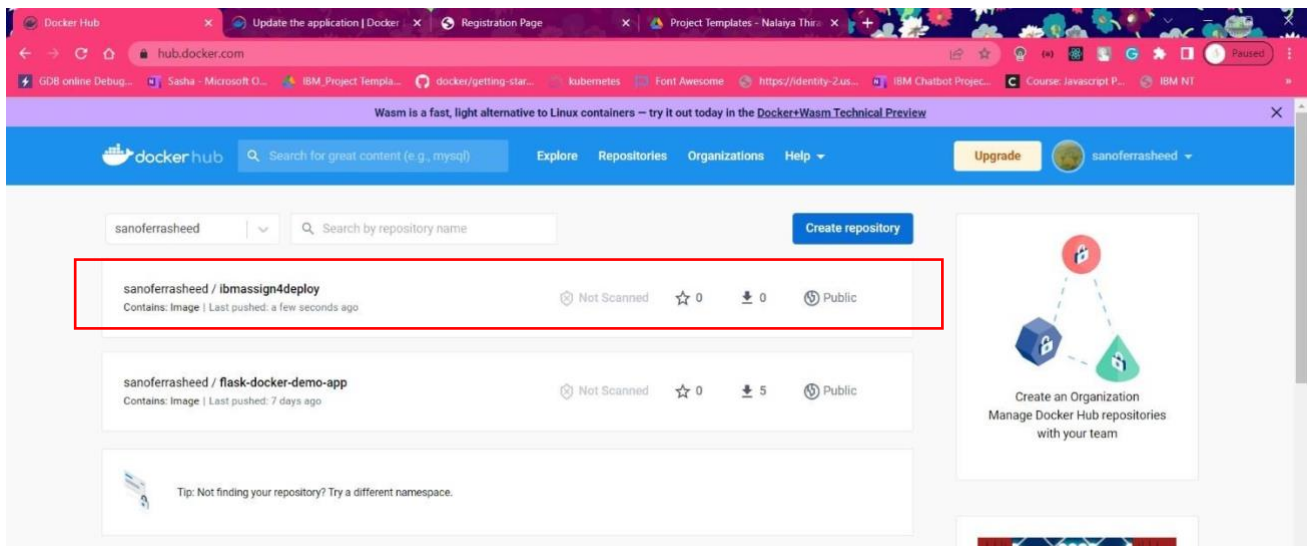
The image is built.



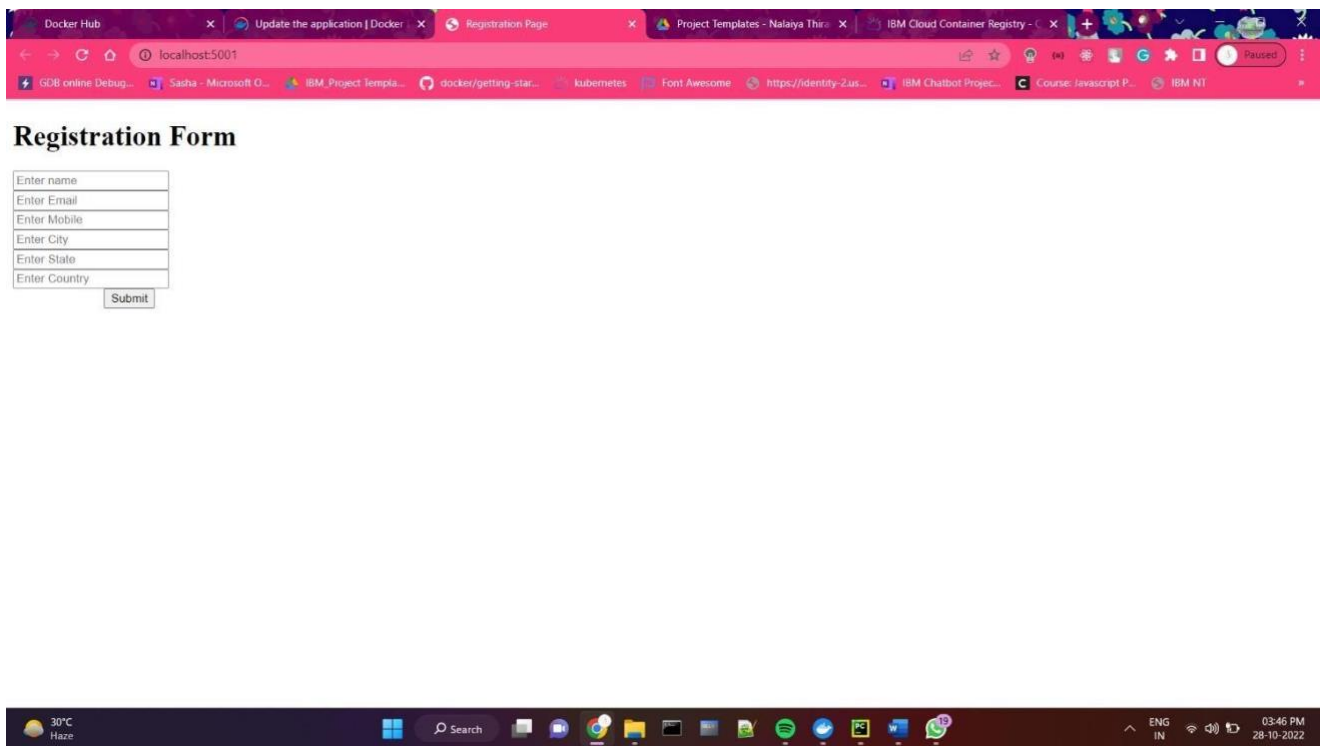
The same image is pushed to docker hub using the command



Here image name is ibmassign4deploy. Thus it is pushed in docker hub.



The app is running at the specified port.

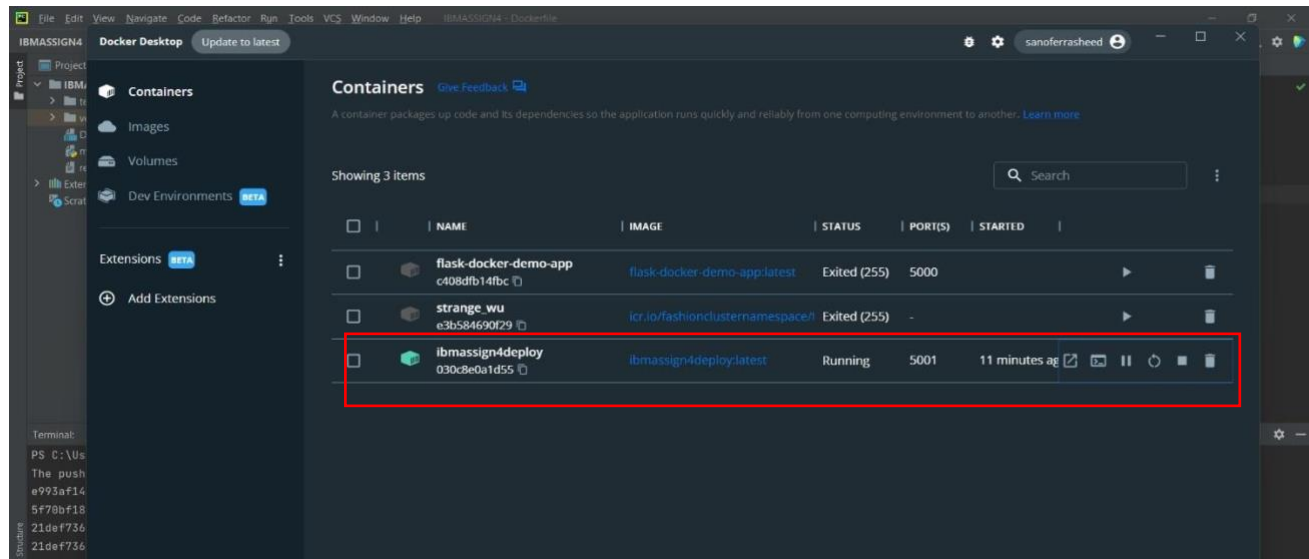


2. Create a docker file for the application and deploy it in Docker desktop application.

Dockerfile:

```
FROM python:3.6
COPY . /app
WORKDIR /app
RUN pip install -r requirements.txt
EXPOSE 5001
ENTRYPOINT [ "python" ]
CMD [ "main.py" ]
```

Thus docker file created and deployed in docker desktop.

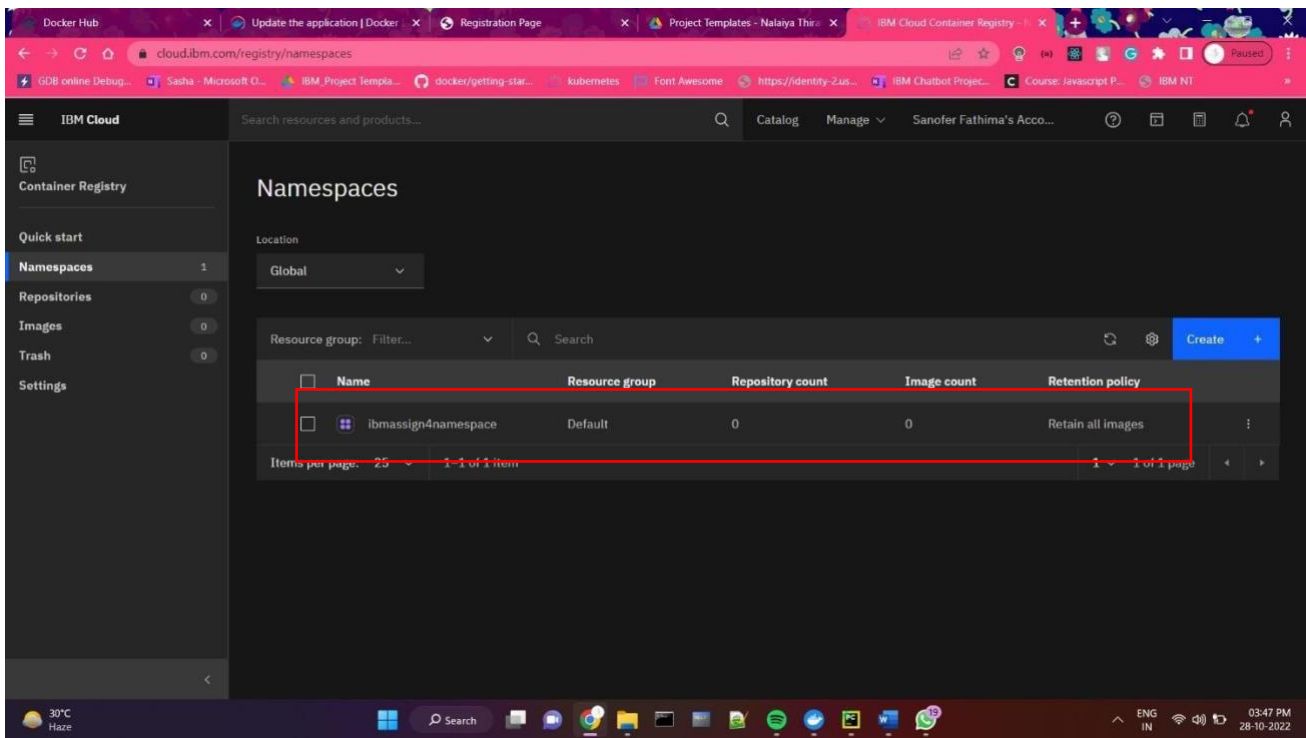


3. Create a IBM container registry and deploy hello world app.

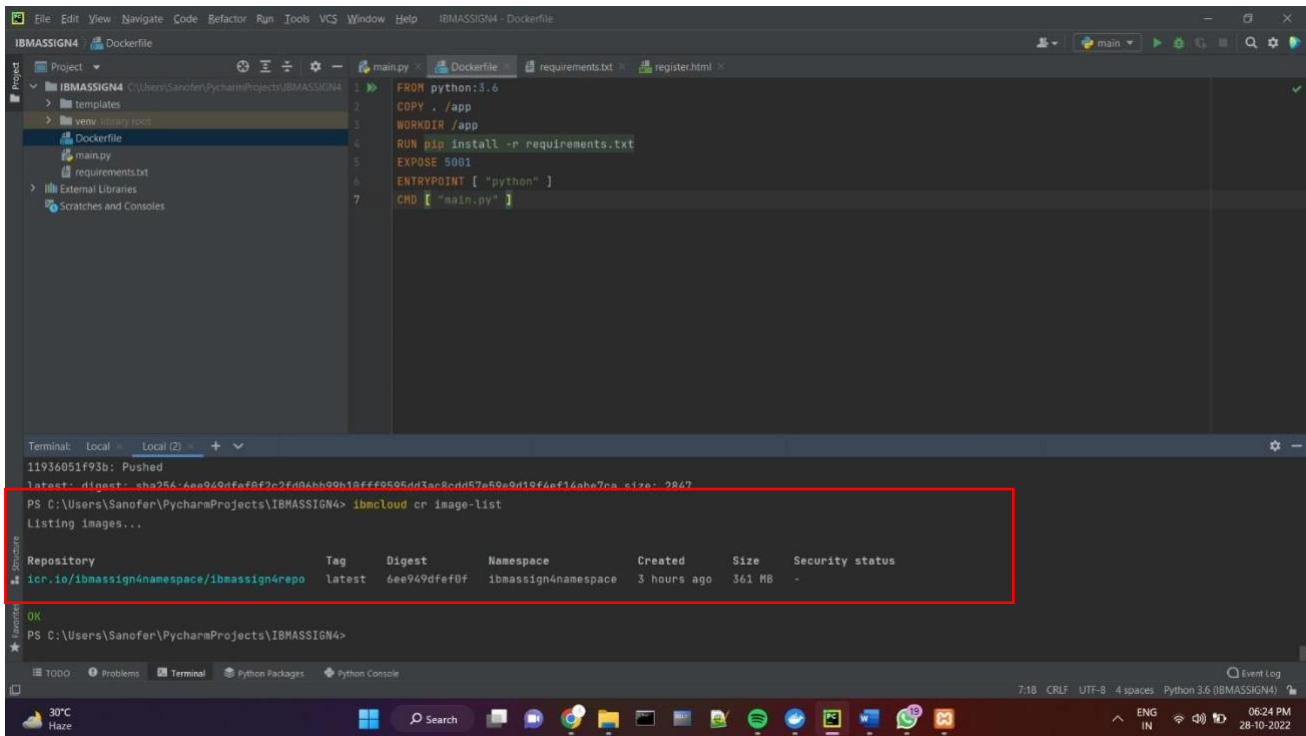
Container registry created using

> docker tag sanoferrasheed/ibmassign4deploy:latest icr.io/ibmassign4namespace/ibmassign4repo:latest

> docker push icr.io/ibmassign4namespace/ibmassign4repo:latest



Thus, images in container registry are listed

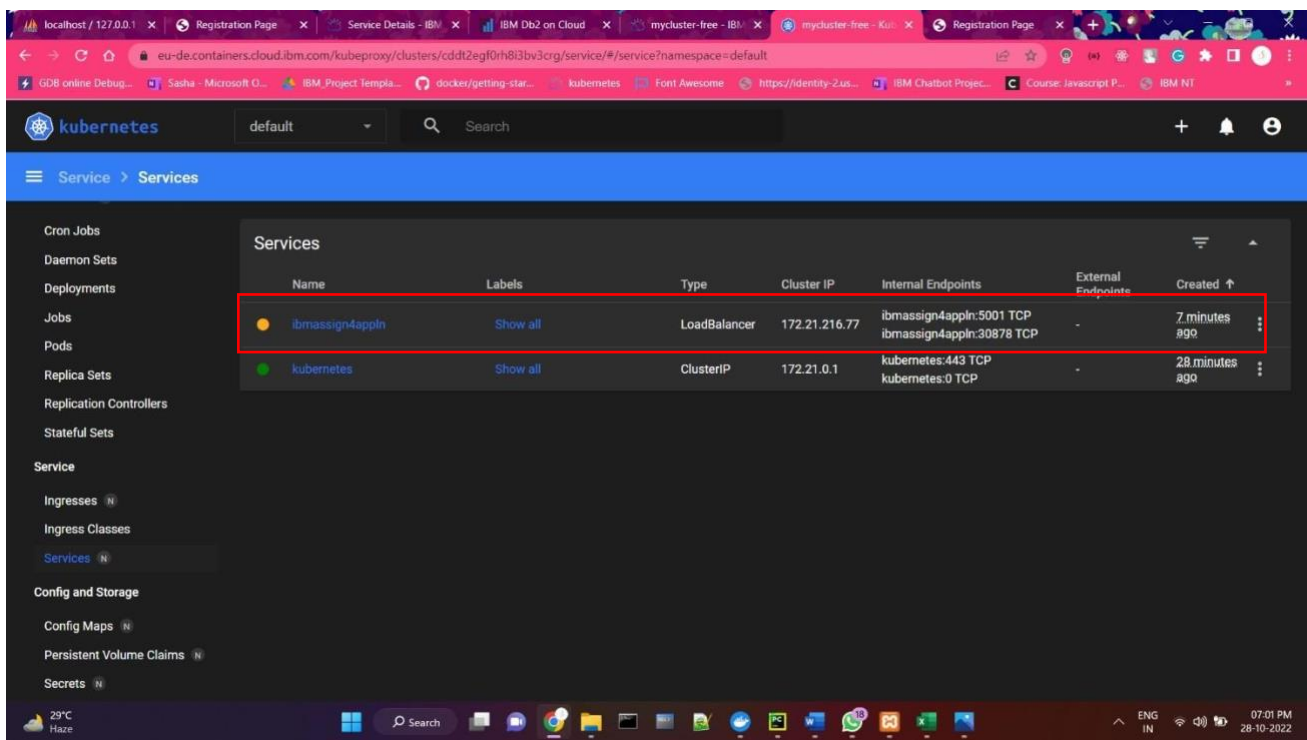


4. Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.

Thus, cluster is created.

The screenshot shows the IBM Cloud console interface. The left sidebar contains navigation links for 'Kubernetes', 'Clusters', 'Reservations', 'Helm catalog', and 'Container Registry'. The main area is titled 'Kubernetes clusters' and features a table of clusters. A red rectangle highlights the first cluster, 'mycluster-free'. The table has columns for Name, State, Location, Worker count, Created, Version, and Infrastructure. The 'Created' column for the highlighted cluster shows 'Expires in 30 days'. The bottom of the screen shows a Windows taskbar with various application icons and a system tray displaying '29°C Haze' and the date '28-10-2022'.

Name	State	Location	Worker count	Created	Version	Infrastructure
mycluster-free	Normal	Paris 01	1	Expires in 30 days	1.24.7_1542	Classic



APP IS LIVE AT <http://159.122.174.152:30878/>