

## INVENTORY MANAGEMENT SYSTEM FOR RETAILER

### Assignment 4

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

The screenshot shows the Docker Playground interface. On the left, there's a sidebar with a clock showing 03:56:24, a 'CLOSE SESSION' button, and an 'Instances' section with a '+ ADD NEW INSTANCE' button. Below that, a list of instances shows '192.168.0.28 node1'. The main area displays details for the container 'cdrlv560\_cdrm0ce3tccg009i2540'. It shows the IP '192.168.0.28', an 'OPEN PORT' button, memory usage '1.10% (44.07MiB / 3.906GiB)', CPU usage '0.63%', and an SSH command: 'ssh ip172-18-0-109-cdrlv560qau000ahcon0@direct.labs.pla'. Below this are 'DELETE' and 'EDITOR' buttons. The terminal window shows a warning message and the command 'docker pull hello-world' being executed, resulting in the image being pulled from Docker Hub.

The screenshot shows the Docker Playground interface. On the left, there's a sidebar with a clock showing 03:58:37, a 'CLOSE SESSION' button, and an 'Instances' section with a '+ ADD NEW INSTANCE' button. Below that, a list of instances shows '192.168.0.18 node1'. The main area displays details for the container 'cdrm8p63\_cdrm8tm0qau000ahcq60'. It shows the IP '192.168.0.18', an 'OPEN PORT' button, memory usage '1.83% (73.08MiB / 3.906GiB)', CPU usage '16.80%', and an SSH command: 'ssh ip172-18-0-53-cdrm8p63tccg009i264g@direct.labs.play'. Below this are 'DELETE' and 'EDITOR' buttons. The terminal window shows a message explaining the steps Docker took to generate the output, followed by instructions on how to run an Ubuntu container and a link to Docker Hub.

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

FROM python:3.7

COPY. /app

WORKDIR /app

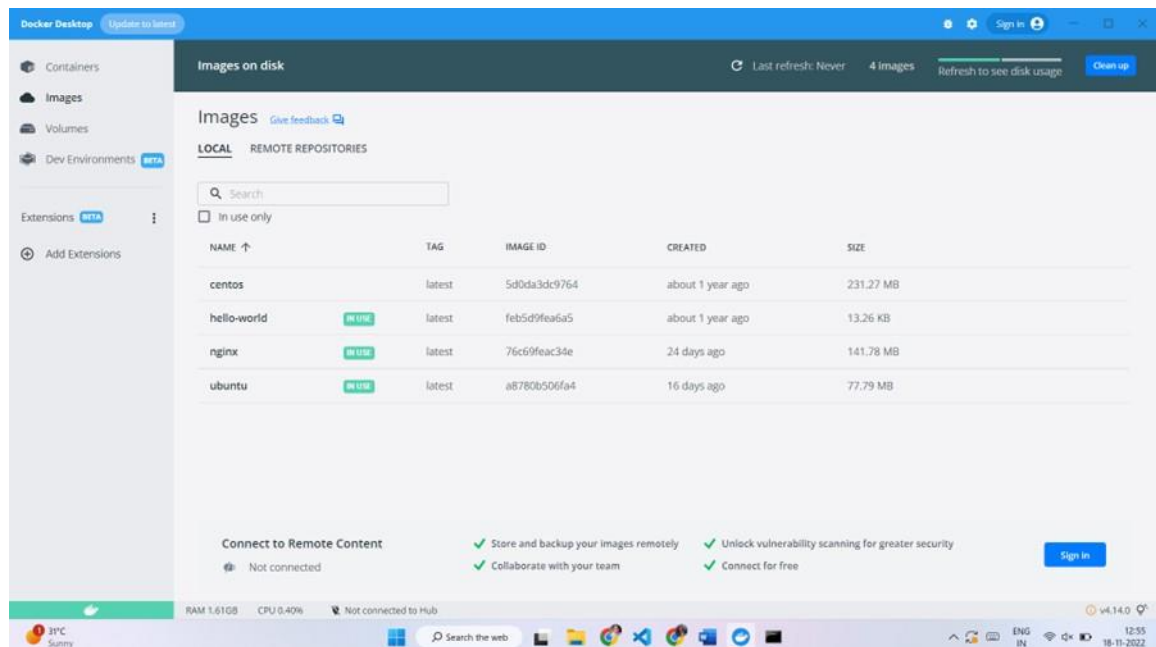
COPY requirements.txt /app

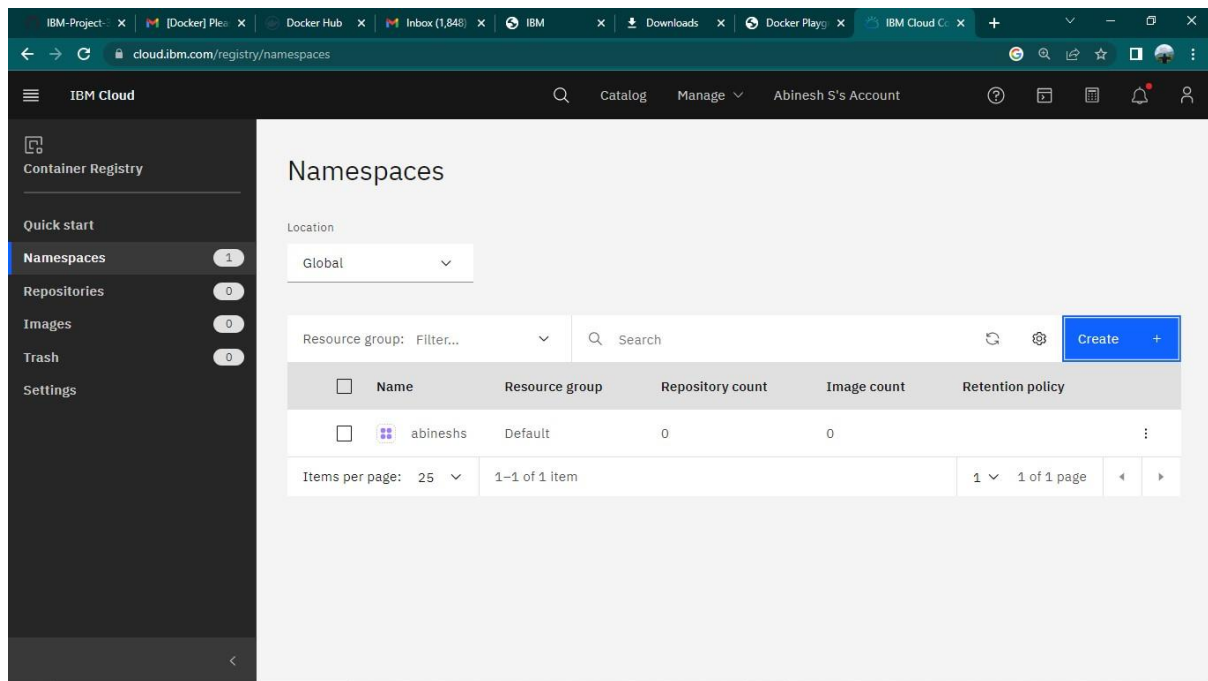
RUN python -m pip install -r requirements.txt

EXPOSE 5001

ENTRYPOINT [ "python" ]

CMD [ "app.py" ]



**3.Create a IBM container registry and deploy helloworld app or jobportalapp.**

**Hello World**



**4. Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.**