

# DELIVERY OF SPRINT - 4

**PROJECT ID : PNT2022TMID03839**

Create the image in docker

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19044.2251]
(c) Microsoft Corporation. All rights reserved.

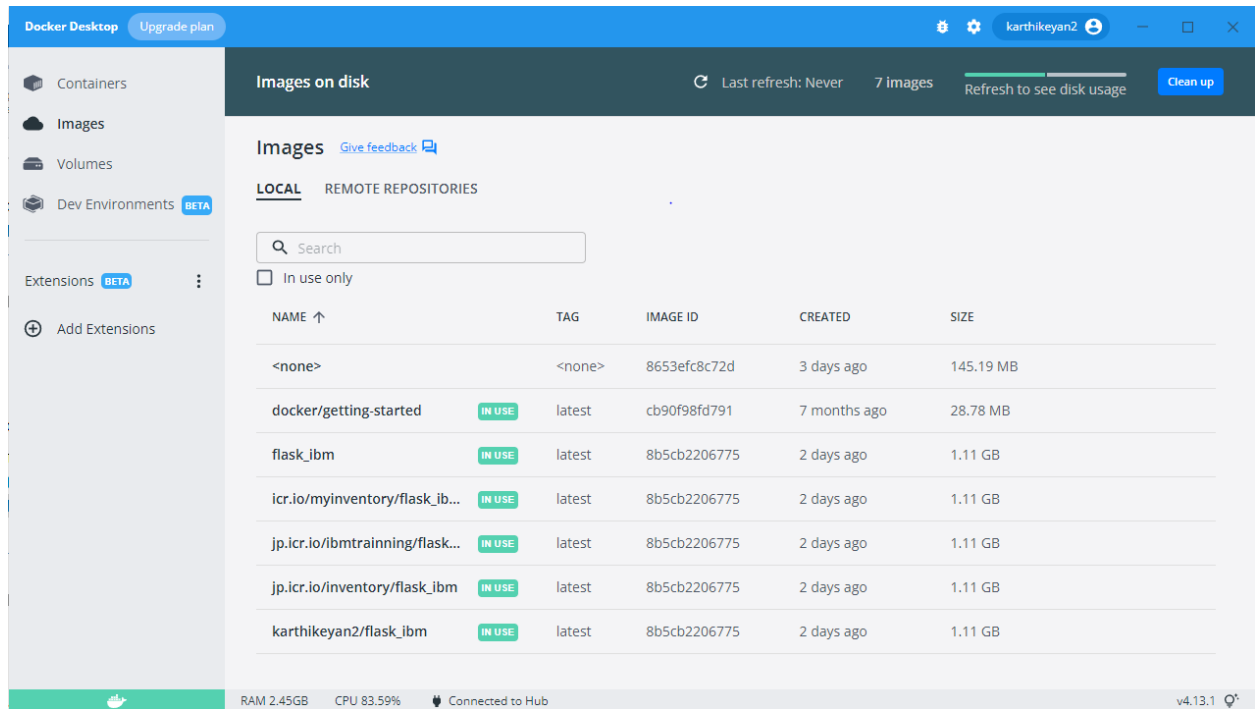
C:\Users\karth\OneDrive\Desktop\nalaiya thiran\IBMNALayaThiran>docker build -t flask_ibm .
[+] Building 26.4s (11/11) FINISHED
=> [internal] load .dockerignore 1.1s
=> => transferring context: 2B 0.2s
=> [internal] load build definition from Dockerfile 1.3s
=> => transferring dockerfile: 32B 0.1s
=> [internal] load metadata for docker.io/library/python:3.10.6 5.6s
=> [auth] library/python:pull token for registry-1.docker.io 0.0s
=> [1/5] FROM docker.io/library/python:3.10.6@sha256:745efdfb7e4aac9a8422bd8c62d8bc35a693e8979a240d29677cb03e6aa 0.0s
=> [internal] load build context 1.1s
=> => transferring context: 10.38kB 0.7s
=> CACHED [2/5] WORKDIR /app 0.0s
=> CACHED [3/5] COPY requirements.txt ./ 0.0s
=> CACHED [4/5] RUN pip install -r requirements.txt 0.0s
=> [5/5] COPY . . 15.3s
=> exporting to image 2.0s
=> => exporting layers 1.2s
=> => writing image sha256:8b5cb2206775ae23dc5fdb1f12128e7f5d93a4aa263821aa37c0ea3dc546043d 0.1s
=> => naming to docker.io/library/flask_ibm 0.1s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

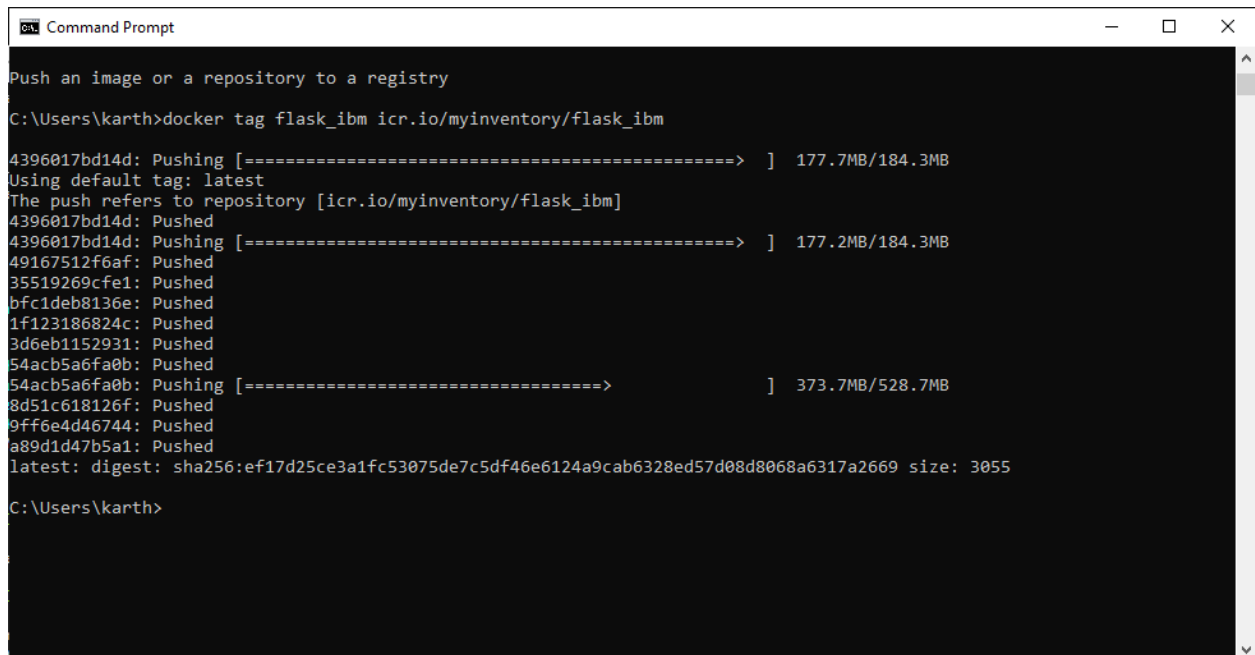
C:\Users\karth\OneDrive\Desktop\nalaiya thiran\IBMNALayaThiran>docker run -d -p 5000:5000 flask_ibm
9e958ebad6aa73b6b86c42185cb54fd585d6a7072b5c0b9e388ae54b584de038

C:\Users\karth\OneDrive\Desktop\nalaiya thiran\IBMNALayaThiran>
```

## Docker desktop with docker image



## Push image docker hub to container registry



## Docker image on ibm container registry

The screenshot shows the IBM Cloud Container Registry interface. The left sidebar contains navigation links: Container Registry, Quick start, Namespaces (1), Repositories (1), Images (1), Trash (0), and Settings. The main content area is titled 'Repositories' and shows a table with one repository: 'flask\_ibm' (namespace: myinventory, image count: 1, last updated: 2 days ago). The table has columns for Name, Image count, Namespace, and Last updated. A 'Create' button is visible in the top right corner of the table area.

Name	Image count	Namespace	Last updated
flask_ibm icr.io/myinventory/flask_ibm	1	myinventory	2 days ago

## Deployment in kubernetes

The screenshot shows the IBM Cloud Kubernetes clusters interface. The left sidebar contains navigation links: Kubernetes, Clusters, Reservations, Helm catalog, and Container Registry. The main content area is titled 'Kubernetes clusters' and shows a table with one cluster: 'mycluster-free' (state: Normal, location: Amsterdam, worker count: 1, created: Expires in 30 days, version: 1.24.8\_1544, infrastructure: Classic). The table has columns for Name, State, Location, Worker count, Created, Version, and Infrastructure. A 'Create cluster' button is visible in the top right corner of the table area.

Name	State	Location	Worker count	Created	Version	Infrastructure
mycluster-free	Normal	Amsterdam	1	Expires in 30 days	1.24.8_1544	Classic