

IBM Assignment - 4

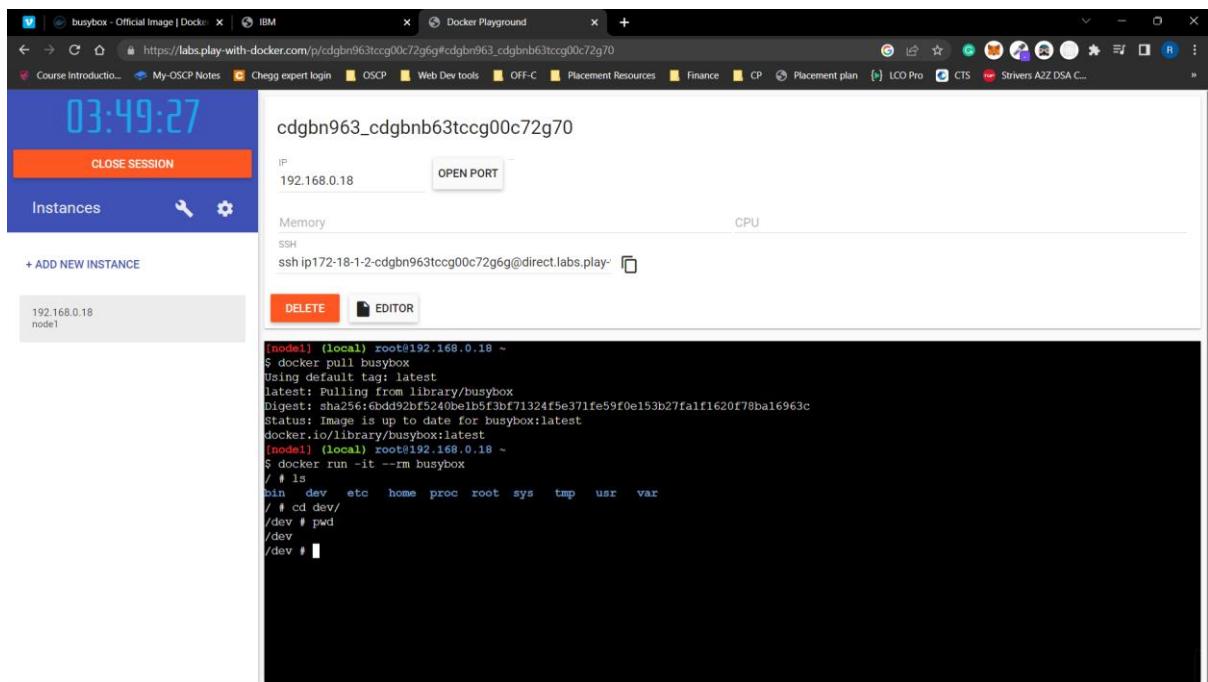
ProjectTitle :**Personal Expense Tracker Application**

Team ID :**PNT2022TMID32657**

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Registration No :**813819104076**

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

```
FROM python:3-alpine3.15
WORKDIR /app
COPY ./app
RUN pip install -r requirements.txt
EXPOSE 5000
CMD python ./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
=> => transferring dockerfile: 318 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 image 0.0s
=> => exporting layers 0.0s
=> => writing image sha256:8e89dbefae0271b0e28ed824f5efdcfb8b629cbe92bd63eac1fa9f33a91b68 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>

```

Docker Desktop

Upgrade plan

rohitmaheswaran

Containers

Images

Volumes

Dev Environments BETA

Extensions BETA

Add Extensions

Containers [Give feedback](#)

A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. [Learn more](#)

Only show running containers

Search

	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
	wizardly_cartwright f5f7a9badf5c	au.icr.io/ibm-cr-flask/ibm-assig	Exited	5000:5000		
	wizardly_leavitt 17d6b0983942	au.icr.io/ibm-cr-flask/ibm-assig	Exited	5000:5000		
	docker-tutorial cab713ba7924	docker101tutorial:latest	Exited	80:80		
	repo df92bf4336c1	alpine/git:latest	Exited			
	elegant_cannon fa213af71581	rohitmaheswaran/job-portal:0	Running	5000:5000	46 seconds ago	

Showing 5 items

RAM 1.64GB

CPU 0.22%

Connected to Hub

v4.13.1

mycluster-free - IBM Cloud

IBM Cloud Shell

Register

Register

http://localhost:5000/login

Course Introductio... My-OSCP Notes Chegg expert login OSCP Web Dev tools OFF-C Placement Resources Finance CP Placement plan LCO Pro CTS Strivers AZZ DSA C...

Jobs.com

Register

Login to your Account

Email

Password

Login

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

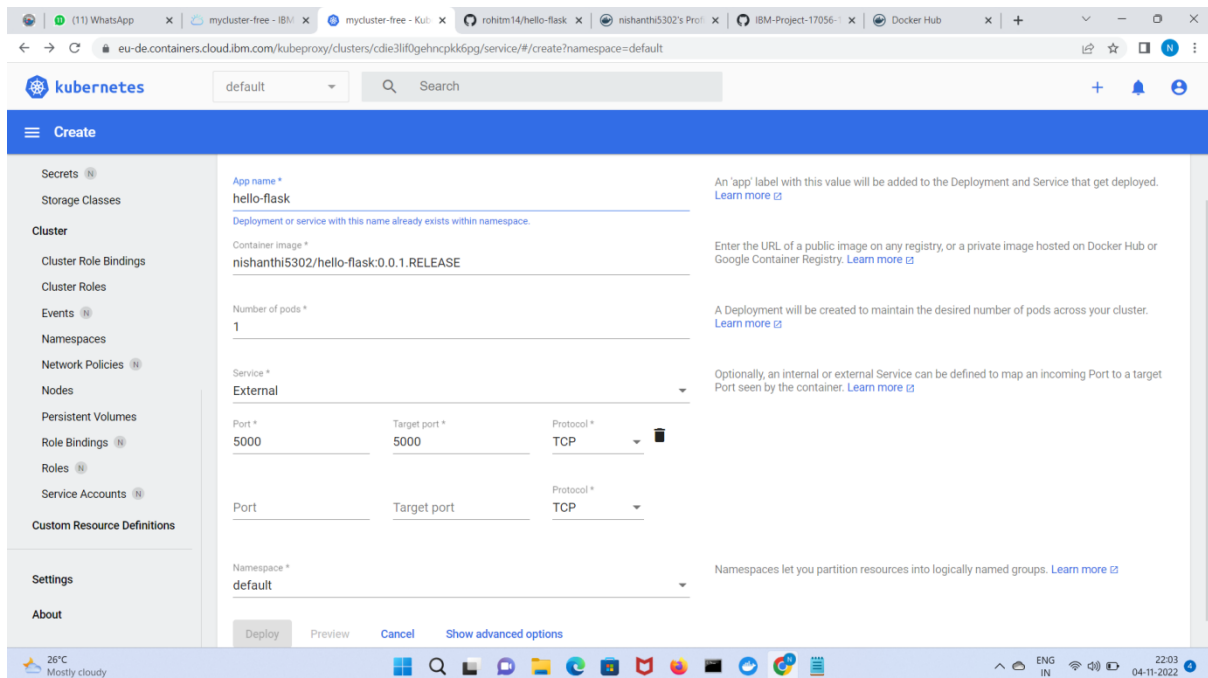
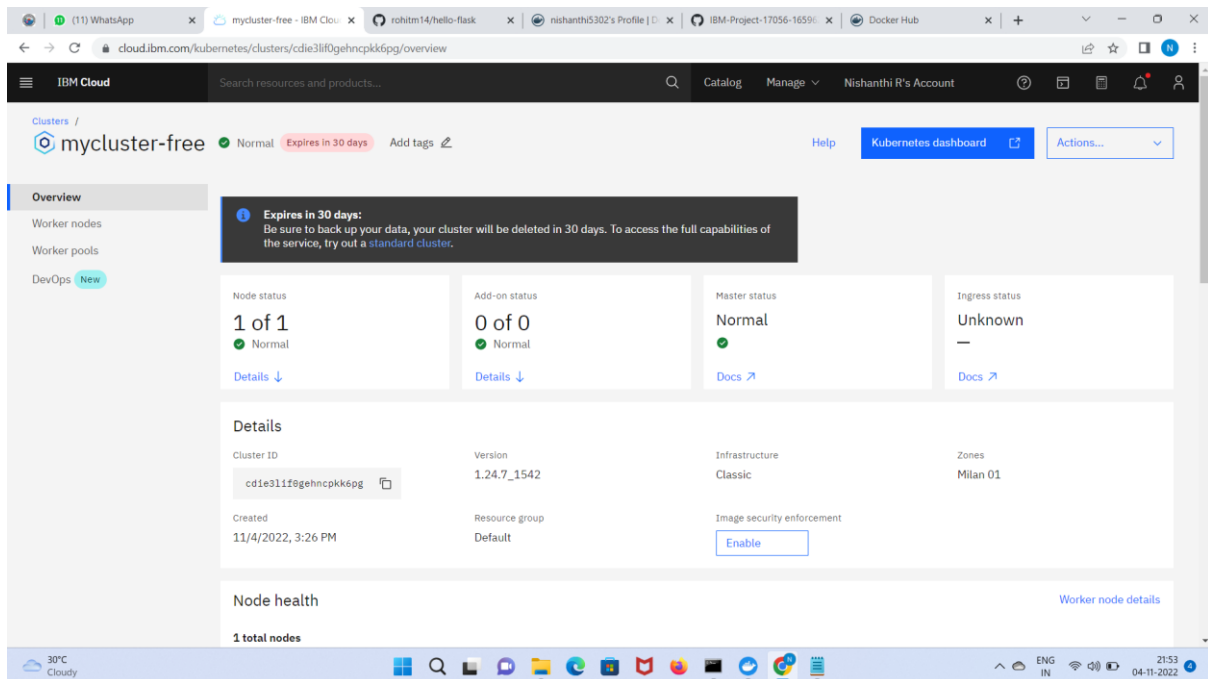
[illegible]

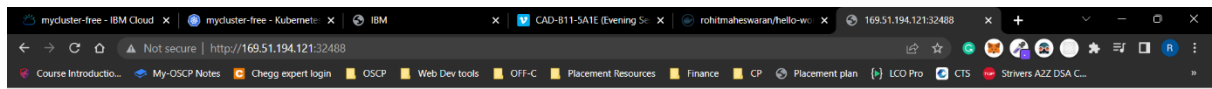
```
C:\Users\918771\Downloads\hello-flask-main>docker push icr.io/ibm-nisanthi/hello-flask:hello-flask
The push refers to repository [icr.io/ibm-nisanthi/hello-flask]
043b529782f9: Pushed
dc851c76241c: Pushed
b40222338aba: Pushed
49a01ea63d59: Pushed
eb71c8b7b3b7: Pushed
76d682e14461: Pushed
d59c8eb8f9e4: Pushed
34d5ebaa5410: Pushed
hello-flask: digest: sha256:e3e7a95ff8007fa88fd47e339984257f4841e5a2529e6891e455daf5eafe1f1 size: 1993
```

The screenshot shows the IBM Cloud Container Registry interface. On the left is a sidebar with navigation options: Container Registry, Quick start, Namespaces (selected), Repositories, Images, Trash, and Settings. The main content area is titled 'Namespaces'. At the top, there's a search bar and a 'Location' dropdown set to 'Global'. Below this is a table of namespaces. The table has columns: Name, Resource group, Repository count, Image count, and Retention policy. One namespace is listed: 'ibm-nishanthi' with a 'Default' resource group, 1 repository, 1 image, and a retention policy of 'Retain all images'. At the bottom of the table, it says 'Items per page: 25' and '1-1 of 1 item'. A 'Create' button is visible in the top right corner of the table area.

Name	Resource group	Repository count	Image count	Retention policy
ibm-nishanthi	Default	1	1	Retain all images

- 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!! :)