

# PROJECT DEPLOYMENT PHASE

## SPRINT - IV:

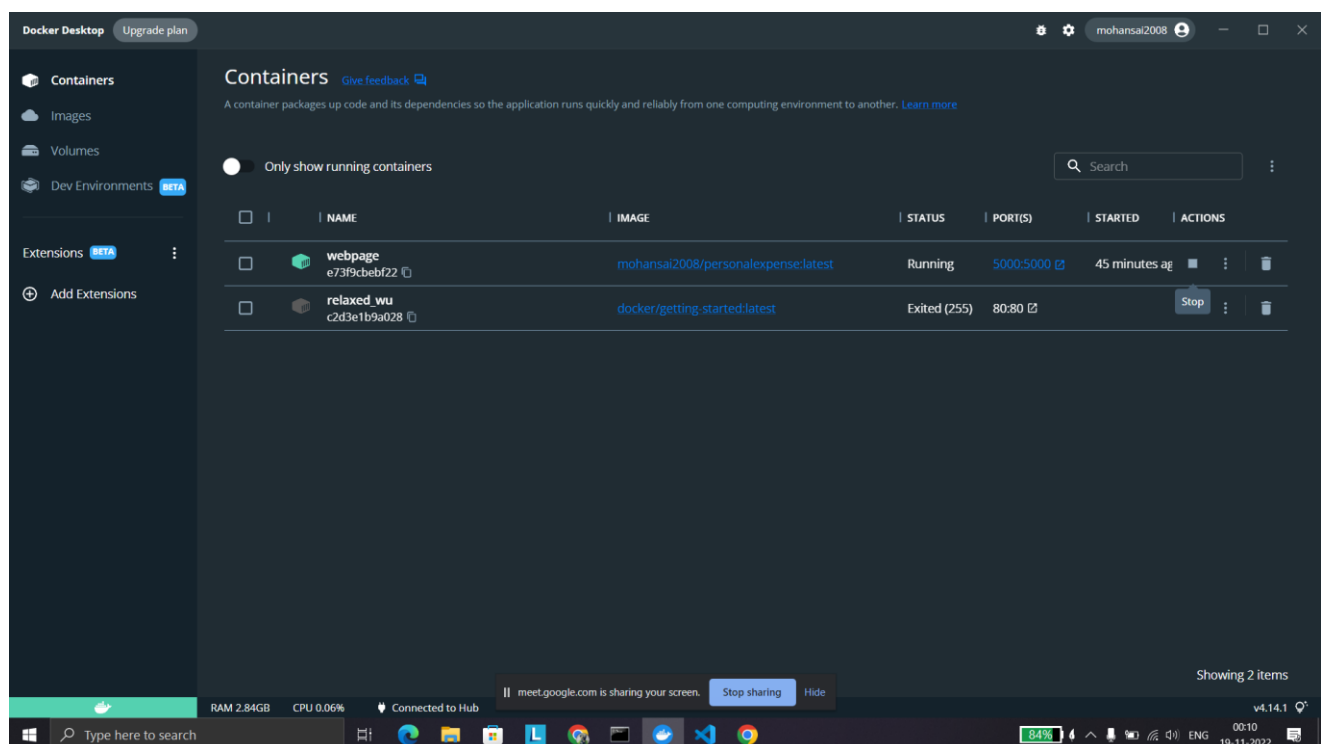
Team Id : PNT2022TMID26966

Project Name : PERSONAL EXPENSE TRACKER

## Docker : Creating image of website using docker:

```
Command Prompt
C:\Users\ompra\OneDrive\Desktop>docker build -t mohansai2008/personalexpende .
[+] Building 172.8s (10/10) FINISHED
[internal] load build definition from Dockerfile
=> transferring dockerfile: 32B
=> [internal] load .dockerignore
=> transferring context: 2B
=> [internal] load metadata for docker.io/library/python:3.9.5
=> [internal] load build context
=> transferring context: 800B
[1/5] FROM docker.io/library/python:3.9.5@sha256:2ff7f45e91d65fc3bbee74e48692a5b1877c573a0d8ed2a8baef4223edf9ccac
=> resolve docker.io/library/python:3.9.5@sha256:2ff7f45e91d65fc3bbee74e48692a5b1877c573a0d8ed2a8baef4223edf9ccac
=> sha256:5397e0aa0677c214b0b0aefcc9c8ec407e0a0f60715e7db1326e6b0c2b3fd37 2.22kB / 2.22kB
=> sha256:a110e58716000c199fc95f633b30735c33a25b5adcfb1d617edc6b7ba3f1b62 7.83kB / 7.83kB
=> sha256:2ff7f45e91d65fc3bbee74e48692a5b1877c573a0d8ed2a8baef4223edf9ccac 2.36kB / 2.36kB
=> sha256:9b0d33b0f402b0493087b1ba2e0d1106d8c32a0d2a0fca/4a8770421c787 8.35kB / 8.35kB
=> sha256:9bc30400f1ed0041f1cd5d00a0157b169ede7fedd1fafe9cda70e2e0c3c 9.44kB / 9.44kB
=> sha256:8d318fa303cd0de713b1f627da73484c97f980553cdf9c7a3f1d37471277 18.00kB / 18.00kB
=> sha256:a8f009c11b021b756b7a92a4f7ba3d444ce7603a1c2d5780d236dc2c6e60514 51.84kB / 51.84kB
=> sha256:14f6b09c4a52c44f0a7e23a4e6b76e1c25cd2915a3965a3ab634c74bcdad6 102.39kB / 102.39kB
=> sha256:70752c31d770dbafcd417d7b470b1d0877e050a5b50ade3ad1ff28e818f1d3 6.15kB / 6.15kB
=> extracting sha256:8bc3020d0931e88b41f1c5d54650a157b1690cde7fedb1fafe9cda70e2e0c3c 1.5kB
=> extracting sha256:a110e58716000c199fc95f633b30735c33a25b5adcfb1d617edc6b7ba3f1b62 0.25kB
=> extracting sha256:2831c4b293bcb0e733b1f627da73484c97f980553cdf9c7a3f1d37471277 0.25kB
=> sha256:8d318fa303cd0de713b1f627da73484c97f980553cdf9c7a3f1d37471277 19.19kB / 19.19kB
=> extracting sha256:a8f009c11b021b756b7a92a4f7ba3d444ce7603a1c2d5780d236dc2c6e60514 1.6kB
=> sha256:b51fbc0b1c3e6b0c16ec4ebba99347e209525c623b21ac91d441bc0211f139 233B / 233B
=> sha256:b6ea5759bfcadcc167aad37606c82009632ace9c390d4424c919b86a71e9021 2.35kB / 2.35kB
=> extracting sha256:14f6b09c4a52c44f0a7e23a4e6b76e1c25cd2915a3965a3ab634c74bcdad6 4.2kB
=> extracting sha256:70752c31d770dbafcd417d7b470b1d0877e050a5b50ade3ad1ff28e818f1d3 0.25kB
=> extracting sha256:8d318fa303cd0de713b1f627da73484c97f980553cdf9c7a3f1d37471277 0.25kB
=> sha256:b51fbc0b1c3e6b0c16ec4ebba99347e209525c623b21ac91d441bc0211f139 0.8kB
=> extracting sha256:b6ea5759bfcadcc167aad37606c82009632ace9c390d4424c919b86a71e9021 0.15kB
=> [2/5] WORKDIR /app
=> [3/5] COPY requirements.txt ./
=> [4/5] RUN pip install -r requirements.txt 125.56s
=> [5/5] COPY . .
=> exporting to image
=> exporting layers
=> writing image sha256:3a0e14103bf040081ccccbf09150f6e6af4d09c701abfa182942f949e5e9e0b 0.8kB
=> naming to docker.io/mohansai2008/personalexpende 0.8kB

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
C:\Users\ompra\OneDrive\Desktop>test\
```

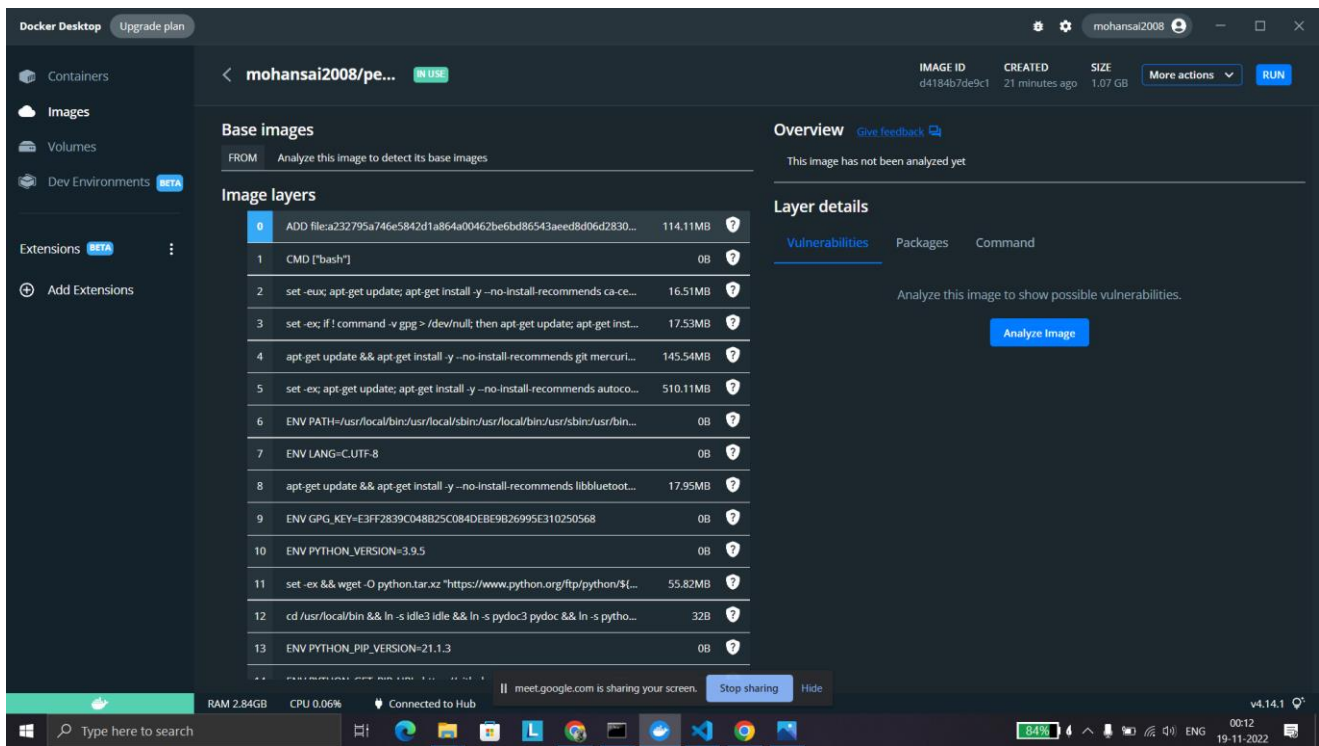


## Cloud Registry: Uploading docker image to IBM Cloud registry:

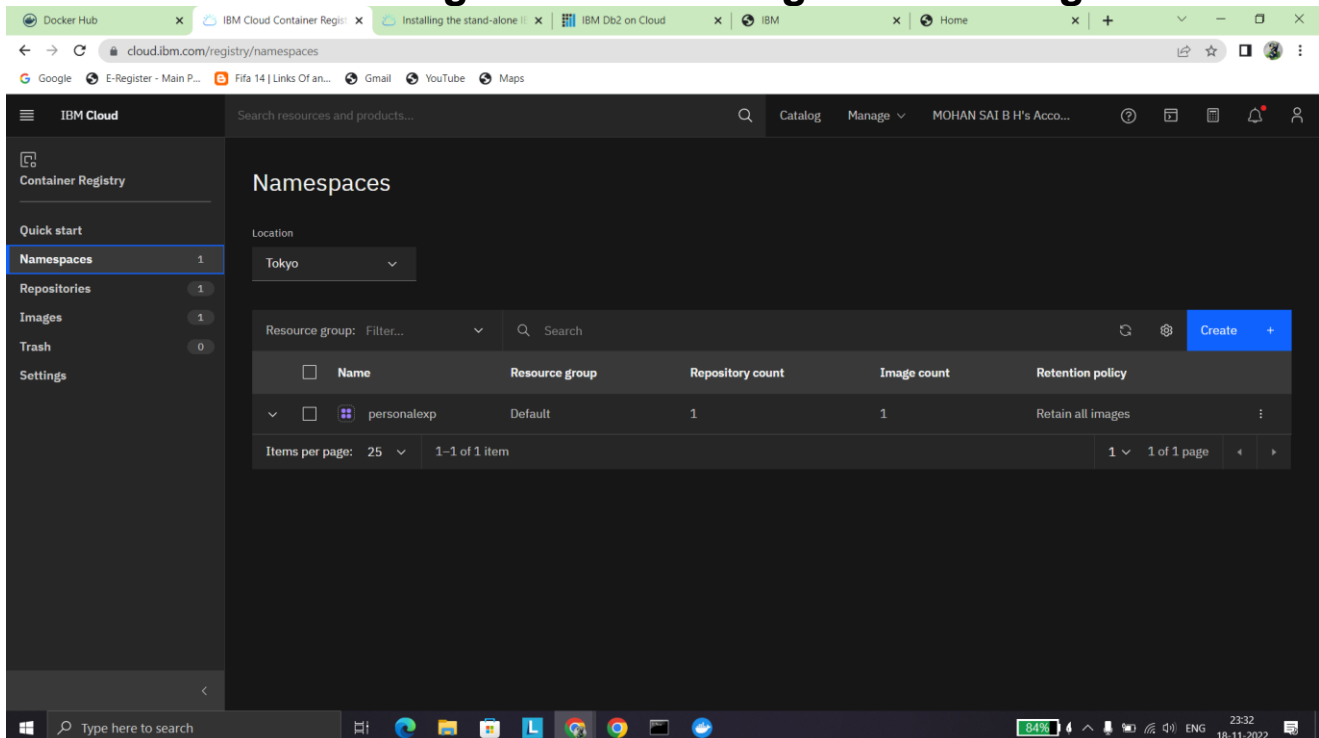
```
Command Prompt
Microsoft Windows [Version 10.0.19044.2251]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ompra>docker run -d -p 80:80 docker/getting-started
Unable to find image 'docker/getting-started:latest' locally
latest: Pulling from docker/getting-started
ff9b9388f84a: Pull complete
5867cba5fcb3: Pull complete
4b639e65cb3b: Pull complete
861ed9e2b976: Pull complete
bc19f3e8eeb1: Pull complete
4871be97c256: Pull complete
79b586f1a54b: Pull complete
9c972f525d6d: Pull complete
Digest: sha256:b558be874169471bd4e65bd6eac8c303b271a7ee8553ba47481b73b2bf597aae
Status: Downloaded newer image for docker/getting-started:latest
c2d3e1b9a028775c6c9eb3c76574a29392ea41b80f6132a2f39327857d20b1fc

C:\Users\ompra>
```



## Kubernetes: Create container using the docker image and hosting the site:



Docker Hub

IBM Cloud Container Registry

Installing the stand-alone

IBM Db2 on Cloud

IBM

Home

cloud.ibm.com/registry/repos

GoogleE-Register - Main P...Fifa 14 | Links Of an...GmailYouTubeMaps

IBM Cloud

Search resources and products...

CatalogManageMOHAN SAI B H's Acco...

Container Registry

Quick start

Namespaces1

Repositories1

Images1

Trash0

Settings

Repositories

LocationTokyo

Search

Create

Name	Image count	Namespace	Last updated
<div><div></div><div>mssp</div><div>jp.icr.io/personalexp/mssp</div></div>	1	personalexp	25 minutes ago

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Command Prompt

Plug-in 'container-service 1.0.459' was successfully installed into C:\Users\ompra\bluemix\plugins\container-service. Use 'ibmcloud plugin show container-service' to show its details.

C:\Users\ompra\OneDrive\Desktop>test>ibmcloud ks cluster config --cluster cdp7ja0f077b1u1r5e10

The configuration for cdp7ja0f077b1u1r5e10 was downloaded successfully.

Added context for cdp7ja0f077b1u1r5e10 to the current kubeconfig file.

You can now execute 'kubectl' commands against your cluster. For example, run 'kubectl get nodes'.

If you are accessing the cluster for the first time, 'kubectl' commands might fail for a few seconds while RBAC synchronizes.

C:\Users\ompra\OneDrive\Desktop>test>kubectl config current-context mycluster-1/cdp7ja0f077b1u1r5e10

C:\Users\ompra\OneDrive\Desktop>test>kubectl apply -f kubernetess/ibm\_deployment.yaml deployment.apps/flask-app created

C:\Users\ompra\OneDrive\Desktop>test>kubectl apply -f kubernetess/flask\_service.yaml service/flask-app-service created

C:\Users\ompra\OneDrive\Desktop>test>kubectl apply -f kubernetess/flask\_ingress.yaml ingress.networking.k8s.io/flask-app-ingress created

C:\Users\ompra\OneDrive\Desktop>test>kubectl get ing

NAME CLASS HOSTS ADDRESS PORTS AGE

flask-app-ingress <none> \* 172.21.47.7 80 2m27s

C:\Users\ompra\OneDrive\Desktop>test>kubectl get svc

NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE

flask-app-service ClusterIP 172.21.47.7 <none> 5000/TCP 3m10s

kubernetess ClusterIP 172.21.0.1 <none> 443/TCP 4d

C:\Users\ompra\OneDrive\Desktop>test>kubectl get nodes -o wide

NAME STATUS ROLES AGE VERSION INTERNAL-IP EXTERNAL-IP OS-IMAGE KERNEL-VERSION CONTAINER-RUNTIME

10.144.186.40 Ready <none> 4d v1.24.7+IKS 10.144.186.40 159.122.187.66 Ubuntu 18.04.6 LTS 4.15.0-194-generic containerd://1.6.8

C:\Users\ompra\OneDrive\Desktop>test>kubectl expose deployment flask-app --type=NodePort --name=flask-app service/flask-app exposed

C:\Users\ompra\OneDrive\Desktop>test>kubectl expose deployment flask-app --type=NodePort --name=testingpage1 service/testingpage1 exposed

C:\Users\ompra\OneDrive\Desktop>test>kubectl get svc

NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE

flask-app NodePort 172.21.7.88 <none> 5000:30627/TCP 82s

flask-app-service ClusterIP 172.21.47.7 <none> 5000/TCP 5m52s

kubernetess ClusterIP 172.21.0.1 <none> 443/TCP 4d

testingpage1 NodePort 172.21.67.126 <none> 5000:31279/TCP 28s

C:\Users\ompra\OneDrive\Desktop>test>

