DEPLOYMENT OF APP IN IBM CLOUD

Date	17 November 2022
Team ID	PNT2022TMID03865
Project Name	Personal Expense Tracker Application

```
E:\IBM_Project\Project Development Phase\Sprint 4\code>docker build -t peta_application .
[+] Building 65.9s (11/11) FINISHED
 => [internal] load build definition from Dockerfile                                    0.0s
 => => transferring dockerfile: 32B                                                     0.0s
 => [internal] load .dockerignore                                                       0.0s
 => => transferring context: 2B                                                         0.0s
 => [internal] load metadata for docker.io/library/python:3.10.7                        2.8s
 => [auth] library/python:pull token for registry-1.docker.io                           0.0s
 => [1/5] FROM docker.io/library/python:3.10.7@sha256:53e577204d362233ee92aeb5119449271f5eb24f99c61464efe9167ddbc  0.0s
 => [internal] load build context                                                       0.0s
 => => transferring context: 19.28kB                                                    0.0s
 => CACHED [2/5] WORKDIR /app                                                            0.0s
 => [3/5] COPY requirements.txt ./                                                       0.0s
 => [4/5] RUN pip install -r requirements.txt                                          61.2s
 => [5/5] COPY . .                                                                       0.1s
 => exporting to image                                                                   1.7s
 => => exporting layers                                                                  1.7s
 => => writing image sha256:b2c59be805812c60906ec642f7ab9e6c72730240a7436e8d396b799462e024fa  0.0s
 => => naming to docker.io/library/peta_application                                      0.0s

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

E:\IBM_Project\Project Development Phase\Sprint 4\code>docker tag peta_application prem0046/peta_application

E:\IBM_Project\Project Development Phase\Sprint 4\code>docker push prem0046/peta_application
Using default tag: latest
The push refers to repository [docker.io/prem0046/peta_application]
6c2bf6b12403: Pushed
b8f8cb4b0c55: Pushed
31e1979cd832: Pushed
94b76bc8510f: Mounted from prem0046/peta_app
cf399be408ea: Mounted from prem0046/peta_app
793b971ccb99: Mounted from prem0046/peta_app
d172a9e6f9e6: Mounted from prem0046/peta_app
0c7daf9a72c8: Mounted from prem0046/peta_app
75ba82937496: Mounted from prem0046/peta_app
288cf3a46e32: Mounted from prem0046/peta_app
186da837555d: Mounted from prem0046/peta_app
955c9335e041: Mounted from prem0046/peta_app
8e079fee2186: Mounted from prem0046/peta_app
latest: digest: sha256:a2bb9f2d05c3d3e8c3868967cf414fcc4f03549dffc1eb09e8a90fe98a91eff4 size: 3056

E:\IBM_Project\Project Development Phase\Sprint 4\code>
```

```
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C:\Users\nmani>ibmcloud plugin install container-registry
Looking up 'container-registry' from repository 'IBM Cloud'...
Plug-in 'container-registry[cr] 1.0.2' found in repository 'IBM Cloud'
Plug-in 'container-registry 1.0.2' was already installed. Do you want to update it with 'container-registry[cr] 1.0.2' or not? [y/N] > y
Attempting to download the binary file...
 11.90 MiB / 11.90 MiB [===================================] 100.00% 0s
12476416 bytes downloaded
Installing binary...
OK
Plug-in 'container-registry 1.0.2' was successfully installed into C:\Users\nmani\.bluemix\plugins\container-registry. Use 'ibmcloud plugin show container-registry' to show its de
tails.

C:\Users\nmani>ibmcloud login -a https://cloud.ibm.com
API endpoint: https://cloud.ibm.com

Email> sec19cs095@sairamtap.edu.in

Password>
Authenticating...
OK

Targeted account Prem Kashyap Chilakamarthi's Account (c50714902c8f4427b45032b104b525a1)


Select a region (or press enter to skip):
1. au-syd
2. in-che
3. jp-osa
4. jp-tok
5. kr-seo
6. eu-de
7. eu-gb
8. ca-tor
9. us-south
10. us-east
11. br-sao
Enter a number> 4
Targeted region jp-tok


API endpoint:      https://cloud.ibm.com
Region:            jp-tok
User:              sec19cs095@sairamtap.edu.in
Account:           Prem Kashyap Chilakamarthi's Account (c50714902c8f4427b45032b104b525a1)
Resource group:    No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
```

Registry / Images /

🟪 peta_application@sha256:a2bb9f2d05c3...   icr.io/peta_application/peta_application@sha256:a2bb9f2d05c3d3e8c3868967cf414fcc4f03549dffc1eb...

Image details

Issues by type

Tags	Digest	Size	Created	Security status
latest ✎	a2bb9f2d05c3...	558 MB	1 day ago	🔴 23 issues

Image inspect data

```
{
  "Id": "sha256:b2c59be805812c60906ec642f7ab9e6c72738240a7436e8d396b799462e824fa",
  "Parent": "",
  "Comment": "",
  "Created": "2022-11-18T19:28:32.981553995Z",
  "Container": "",
  "ContainerConfig": {
    "Hostname": "",
    "Domainname": "",
    "User": "",
    "AttachStdin": false,
    "AttachStdout": false,
    "AttachStderr": false,
    "Tty": false,
    "OpenStdin": false,
    "StdinOnce": false,
    "Env": null,
    "Cmd": null,
    "Image": "",
    "Volumes": {},
    "WorkingDir": "",
    "Entrypoint": null,
    "OnBuild": null,
    "Labels": null
  },
  "DockerVersion": "",
  "Author": "",
  "Config": {
    "Hostname": "",
    "Domainname": "",
```

Common CLI commands

Push a new version of your image.   ⌄

Pull your image to your local machine.   ⌄

Clusters /

⚙ **mycluster-free** ✅ Normal 🔴 Expires in 22 days   Add tags ✎   Help   **Kubernetes dashboard** ⎋   Actions... ⌄

Overview

Worker nodes

Worker pools

DevOps (New)

ℹ **Expires in 22 days:**
Be sure to back up your data, your cluster will be deleted in 22 days. To access the full capabilities of the service, try out a standard cluster.

Node status	Add-on status	Master status	Ingress status
1 of 1	**0 of 0**	**Normal**	**Healthy** ⓘ
✅ Normal	✅ Normal	✅	✅
Details ↓	Details ↓	Docs ↗	Docs ↗

Details

Cluster ID	Version	Infrastructure	Zones
cdn4j3af0decd7oh9t50 ⧉	1.25.4_1522	Classic	Milan 01

Created	Resource group	Image security enforcement	
11/11/2022, 18:39	Default	Enable	

Node health   Worker node details

1 total nodes

🟩 Critical 0% 🟨 Warning 0% 🟩 Normal 100% ⬜ Pending 0%