

DEPLOYMENT OF APP IN IBM CLOUD

Date	17 November 2022
Team ID	PNT2022TMID47204
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                2.0s
=> [auth] library/python:pull token for registry-1.docker.io                  0.0s
=> [1/5] FROM docker.io/library/python:3.10.7@sha256:63e577284d362233ee92aeb5119449271f5eb24f99c61464efe9167d4bc 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:b2c50be805812c60906ec642f7ab0edc72736248a7b36a8d396b799462e020fa 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]
6c2b6fb12483: Pushed
48f8cb4b0c55: 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
8c7da9a72e8: Mounted from prem0046/peta_app
75ba02937496: 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:a2bb9f2d05c3d3e8c3868967cf414fcc4f03549dffce1eb09e8a90fe98a91eff4 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% @s
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@sairantap.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-sao
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@sairantap.edu.in
Account: Prem Kashyap Chilakamarthi's Account (c50714902c8f4427b45032b104b525a1)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
```

IBM Cloud

Search resources and products...

CatalogManagePrem Kashyap Chilakamarthi's A...

Container Registry

Quick start

Namespaces2

Repositories2

Images2

Trash0

Settings

Namespaces

Location

Global

Resource group: Filter... Search

Create

	Name	Resource group	Repository count	Image count	Retention policy	
▼	peta_application	Default	1	1	Retain all images	⋮
▼	create_flask	Default	1	1	Retain all images	⋮

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IBM Cloud

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Container Registry

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Search

Create

	Name	Image count	Namespace	Last updated	
▼	peta_application icr.ai/peta_application/peta_application	1	peta_application	1 day ago	⋮
▼	hello_world icr.ai/create_flask/hello_world	1	create_flask	9 days ago	⋮

Items per page: 251-2 of 2 items11 of 1 page

IBM Cloud

Search resources and products...

Q

Catalog

Manage

Prem Kashyap Chilakamarthi's A...

?

Registry / Images /

peta_application@sha256:a2bb9f2d05c3...

icr.in/peta_application/peta_application@sha256:a2bb9f2d05c3d1e8c3b8a8967c14141cc4f03549dfc1e1c

Image details

Tags

Digest

Size

Created

Security status

Issues by type

latest

a2bb9f2d05c3...

558 MB

1 day ago

23 issues

Image inspect data

```
{
  "Id": "sha256:b2c59be885812c69986ec642f7ab9e6c7773824ba7436e8d396b799462e824fa",
  "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.

IBM Cloud

Search resources and products...

Q

Catalog

Manage

Prem Kashyap Chilakamarthi's A...

?

Clusters /

mycluster-free

Normal

Expires in 22 days

Add tags

Help

Kubernetes dashboard

Actions...

Overview

Worker nodes

Worker pools

DevOps

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

1 of 1

Normal

Details

Add-on status

0 of 0

Normal

Details

Master status

Normal

Docs

Ingress status

Healthy

Docs

Details

Cluster ID

cdn4j3af0decd70h9t5b

Version

1.25.4_1522

Infrastructure

Classic

Zones

Milan 01

Created

11/11/2022, 18:39

Resource group

Default

Image security enforcement

Enable

Node health

1 total nodes

Critical 0%

Warning 0%

Normal 100%

Pending 0%

Worker node details