

## UPLOAD IMAGE TO IBM CONTAINER REGISTRY

Team ID	PNT2022TMID35705
Project Name	Personal Expense Tracker

### Installing IBM Cloud CLI:

```
ubuntu@ip-172-31-6-75:~/ibm-prj$ curl -fsSL https://clis.cloud.ibm.com/install/linux | sh
Current platform is linux64. Downloading corresponding IBM Cloud CLI...
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100 11.9M  100 11.9M    0     0  49.3M      0  --:--:-- --:--:-- --:--:-- 49.2M
Download complete. Executing installer...
Bluemix_CLI/
Bluemix_CLI/bin/
Bluemix_CLI/bin/ibmcloud
Bluemix_CLI/bin/ibmcloud.sig
Bluemix_CLI/bin/NOTICE
Bluemix_CLI/bin/LICENSE
Bluemix_CLI/bin/CF_CLI_Notices.txt
Bluemix_CLI/bin/CF_CLI_SLC_Notices.txt
Bluemix_CLI/autocomplete/
Bluemix_CLI/autocomplete/bash_autocomplete
Bluemix_CLI/autocomplete/zsh_autocomplete
Bluemix_CLI/install
Bluemix_CLI/uninstall
Bluemix_CLI/install_bluemix_cli
Superuser privileges are required to run this script.
Install complete.
ubuntu@ip-172-31-6-75:~/ibm-prj$
ubuntu@ip-172-31-6-75:~/ibm-prj$ ibmcloud --version
ibmcloud version 2.12.1+b8488a1-2022-10-31T15:08:10+00:00
ubuntu@ip-172-31-6-75:~/ibm-prj$
```

### Install IBM Container Registry Plug-in

```
ubuntu@ip-172-31-6-75:~/ibm-prj$ ibmcloud plugin install container-registry -r 'IBM Cloud'
Looking up 'container-registry' from repository 'IBM Cloud'...
Plug-in 'container-registry[cr] 1.0.2' found in repository 'IBM Cloud'
Attempting to download the binary file...
 11.69 MiB / 11.69 MiB [=====] 100.00% 0s
12255232 bytes downloaded
Installing binary...
OK
Plug-in 'container-registry 1.0.2' was successfully installed into /home/ubuntu/.bluemix/plugins/container-registry. Use 'ibmcloud plugin show container-registry' to show its details.
ubuntu@ip-172-31-6-75:~/ibm-prj$
```

## IBM Login

```
ubuntu@ip-172-31-6-75:~/ibm-prj$ ibmcloud login -a https://cloud.ibm.com
API endpoint: https://cloud.ibm.com

Email> 2019503049@smartinternz.com

Password>
Authenticating...
OK

Targeted account Shivani Raman's Account (b36e9c3735f9404db7f50ea719b75b9c)

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>

API endpoint: https://cloud.ibm.com
Region:
User: 2019503049@smartinternz.com
Account: Shivani Raman's Account (b36e9c3735f9404db7f50ea719b75b9c)
```

## Set region to Global

```
ubuntu@ip-172-31-6-75:~/ibm-prj$ ibmcloud cr region-set global
The region is set to 'global', the registry is 'icr.io'.

OK

ubuntu@ip-172-31-6-75:~/ibm-prj$
```

## IBM container registry login

```
ubuntu@ip-172-31-6-75:~/ibm-prj$ ibmcloud cr login
Logging 'docker' in to 'icr.io'...
Logged in to 'icr.io'.

OK
```

## Create a new Namespace for production environment

Namespaces

Location

Global

Resource group: Filter...

Search

Create +

<input type="checkbox"/>	Name	Resource group	Repository count	Image count	Retention policy
<input checked="" type="checkbox"/>	personal-expense-tracker-prod	Default	1	1	:

```
ubuntu@ip-172-31-6-75:~/ibm-prj$ docker tag tracker:v1 icr.io/personal-expense-tracker-prod/expense-tracker:v1
ubuntu@ip-172-31-6-75:~/ibm-prj$
ubuntu@ip-172-31-6-75:~/ibm-prj$ docker images
REPOSITORY                                TAG      IMAGE ID      CREATED        SIZE
icr.io/personal-expense-tracker-prod/expense-tracker  v1       a45f903e91b7  About an hour ago  1.1GB
tracker                                              v1       a45f903e91b7  About an hour ago  1.1GB
tracker                                              latest   ba652159c792  2 hours ago      1.1GB
<none>                                              <none>   d103b6b9fc7c  2 hours ago      1.1GB
python                                              3.6      54260638d07c  11 months ago    902MB
ubuntu@ip-172-31-6-75:~/ibm-prj$
```

## Tag docker image to point to remote registry

```
ubuntu@ip-172-31-6-75:~/ibm-prj$ docker push icr.io/personal-expense-tracker-prod/expense-tracker:v1
The push refers to repository [icr.io/personal-expense-tracker-prod/expense-tracker]
e5dc77845696: Pushed
9c42957d57b9: Pushed
cc99f9e1235f: Pushed
aa4c808c19f6: Pushed
8ba9f690e8ba: Pushed
3e607d59ef9f: Pushed
1e18e7e1fcc2: Pushed
c3a0d593ed24: Pushed
26a504e63be4: Pushed
8bf42db0de72: Pushed
31892cc314cb: Pushed
11936051f93b: Pushed
v1: digest: sha256:09dc6db2d99b48d101aa6687cef17d1ca47c40483d799f76d399d99176a7e66b size: 2849
ubuntu@ip-172-31-6-75:~/ibm-prj$
```

## Pushed Docker Image to IBM Container Registry

Repositories

Location

Global

Search

Create +

<input type="checkbox"/>	Name	Image count	Namespace	Last updated
<input checked="" type="checkbox"/>	expense-tracker icr.io/personal-expense-tracker-prod/expense-tracker	1	personal-expense-tracker-prod	1 hour ago

Digest	Manifest type	Tags	Created	Size	Security status
09dc6db2d99b	Docker	v1	1 hour ago	452 MB	Unscanned