

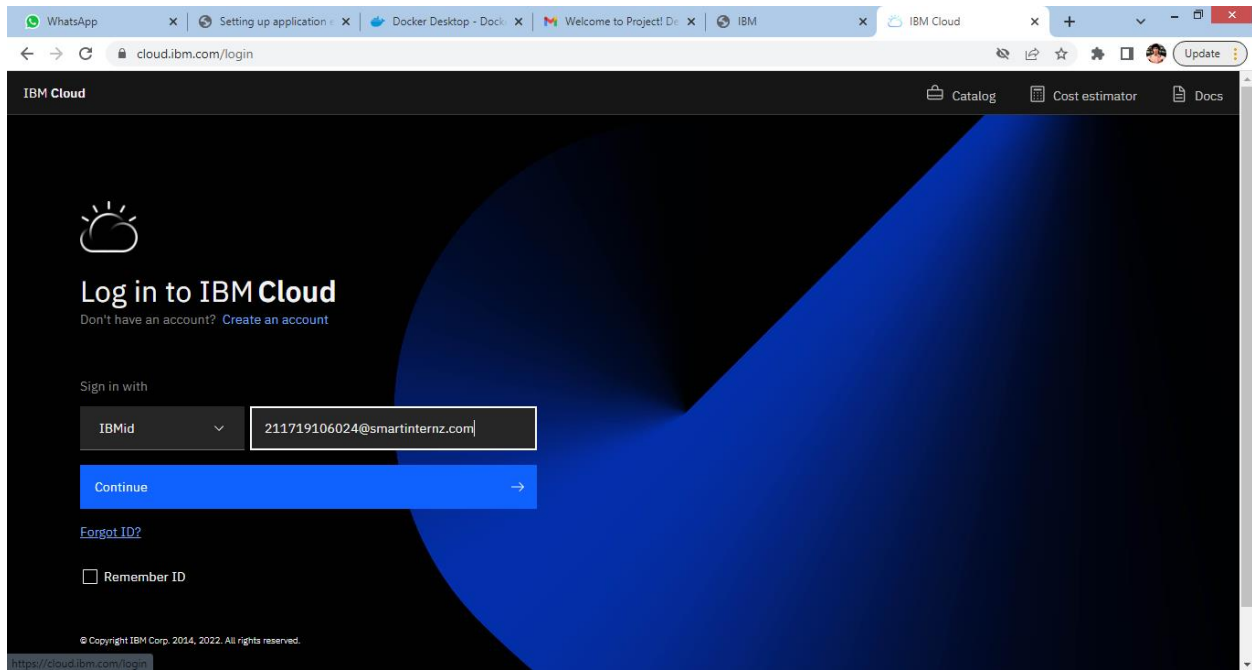
Preparation Phase

Setting Up Application Environment

Install IBM Cloud CLI

Date	25 August 2022
Team ID	PNT2022TMID26477
Project Name	Personal Expense Tracker Application

Step1: Log in to the IBM cloud.



Step 2: Select container registry.

The screenshot shows the IBM Cloud Container Registry overview page. The left sidebar contains a navigation menu with 'Container Registry' selected, and sub-items: 'Quick start', 'Namespaces' (0), 'Repositories' (0), 'Images' (0), 'Trash' (0), and 'Settings'. The main content area has a header 'Store and distribute container images in a fully managed private registry' and a sub-header 'Push private images to run them in IBM Cloud Kubernetes Service and other runtime environments.' Below this is a 'Get started' button. To the right is an illustration of container images being pushed to a registry. At the bottom, there are three sections: 'Explore our capabilities', 'Threat insights' (Advanced capabilities like vulnerability scanning, deployment policy enforcement, and comprehensive risk assessment and), 'Integration' (The IBM Cloud preferred image registry, which is integrated with IBM Cloud Kubernetes Service for your DevOps workflow by using a), and 'Security' (IBM Cloud Container Registry is integrated with Identity and Access Manager and resource groups to provide fine-grained access controls).

Step3: Select Quickstart to open container registry and click on install

IBM Cloud CLI.

The screenshot shows the IBM Cloud Container Registry Quick start page. The left sidebar is the same as in the previous screenshot. The main content area has a header 'Quick start' and a sub-header 'Location' with a dropdown menu set to 'Global'. Below this is a 'Welcome!' section with the text 'Let's get started by installing the needed CLIs, setting up your first private registry namespace, and pushing your first image.' The 'Install, Set Up, and Log In' section contains a list of steps: 1. Install the IBM Cloud CLI. 2. Install the Docker CLI. 3. Install the Container Registry plug-in. 4. Log in to your IBM Cloud account. Below the list are two code blocks:

```
ibmcloud plugin install container-registry -r 'IBM Cloud'
```

 and

```
ibmcloud login -a https://cloud.ibm.com
```

Step 4: Click on IBM Cloud CLI.

This screenshot shows the IBM Cloud CLI documentation page. The left sidebar contains a navigation menu with sections like 'Kubernetes service', 'How to', and 'Expand all'. The main content area is titled 'Installing the stand-alone IBM Cloud CLI' and includes a list of links to related documentation, a tip about using the IBM Cloud console, and a list of steps to install the CLI. The right sidebar contains a 'Feedback' button and a 'Cookie Preferences' link.

IBM Cloud CLI

Installing the stand-alone IBM Cloud CLI

The IBM Cloud® Command Line Interface provides commands for managing resources in IBM Cloud. When you install the standalone IBM Cloud CLI, you get only the CLI itself without any recommended plug-ins or tools.

Tip: If you want to install both the latest IBM Cloud CLI and other recommended plug-ins and tools for developing applications for IBM Cloud, see [Getting started with the IBM Cloud CLI](#) and [Installing the tools and plug-ins manually](#).

Before you begin

If you need to use a 32-bit version, or a previous version other than the latest for IBM Cloud Dedicated environments, see [IBM Cloud CLI releases](#).

Installing with an installer

Use the following steps to install the latest stand-alone IBM Cloud CLI:

- 1 Use a browser to access the official [ibmcloud-cli-releases](#) GitHub repository, and select the installer of your OS to begin the download. The following operating systems are supported: macOS X 64-bit, Windows™ 64-bit, Linux™ x86 64-bit, and Linux™ LE 64-bit (ppc64le).
- 2 Run the installer:
 - For Mac and Windows™, run the installer.
 - For Linux™, extract the package and run the `install` script.

Step 5: And then, click on IBM Cloud CLI releases.

This screenshot shows the IBM Cloud CLI releases page. The left sidebar contains a navigation menu with sections like 'Get started', 'How to', and 'Expand all'. The main content area is titled 'Installing the stand-alone IBM Cloud CLI' and includes a list of links to related documentation, a tip about installing both the CLI and recommended plug-ins, and a list of steps to install the CLI. The right sidebar contains a 'Feedback' button and a 'Cookie Preferences' link.

IBM Cloud CLI

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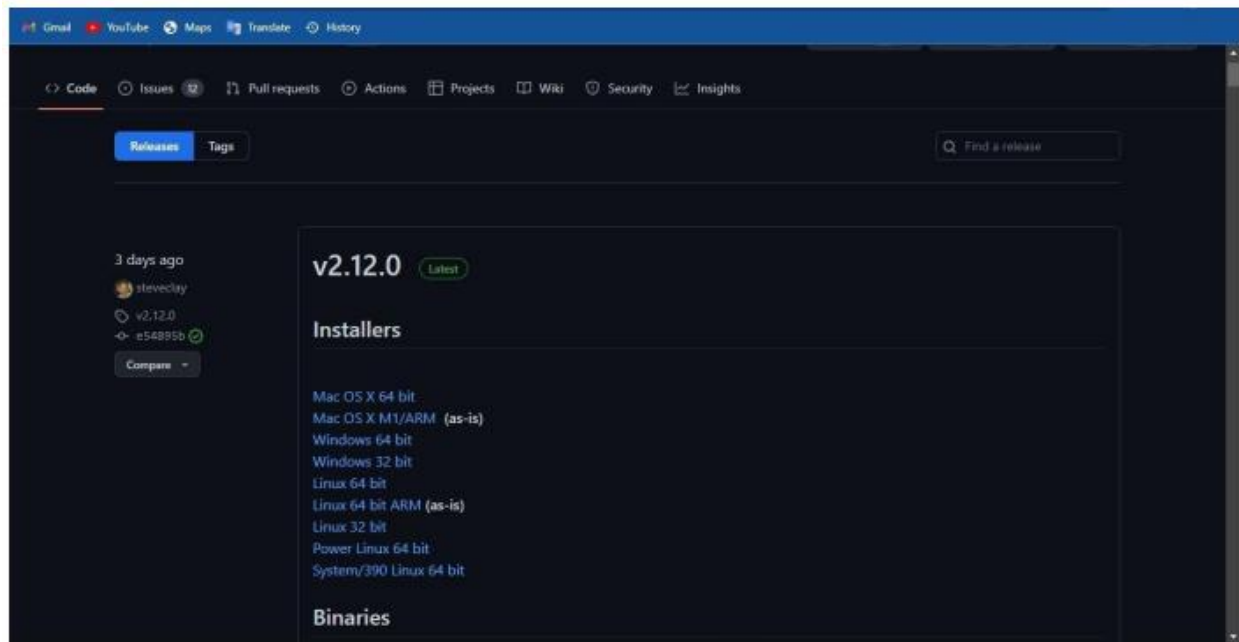
Installing with an installer

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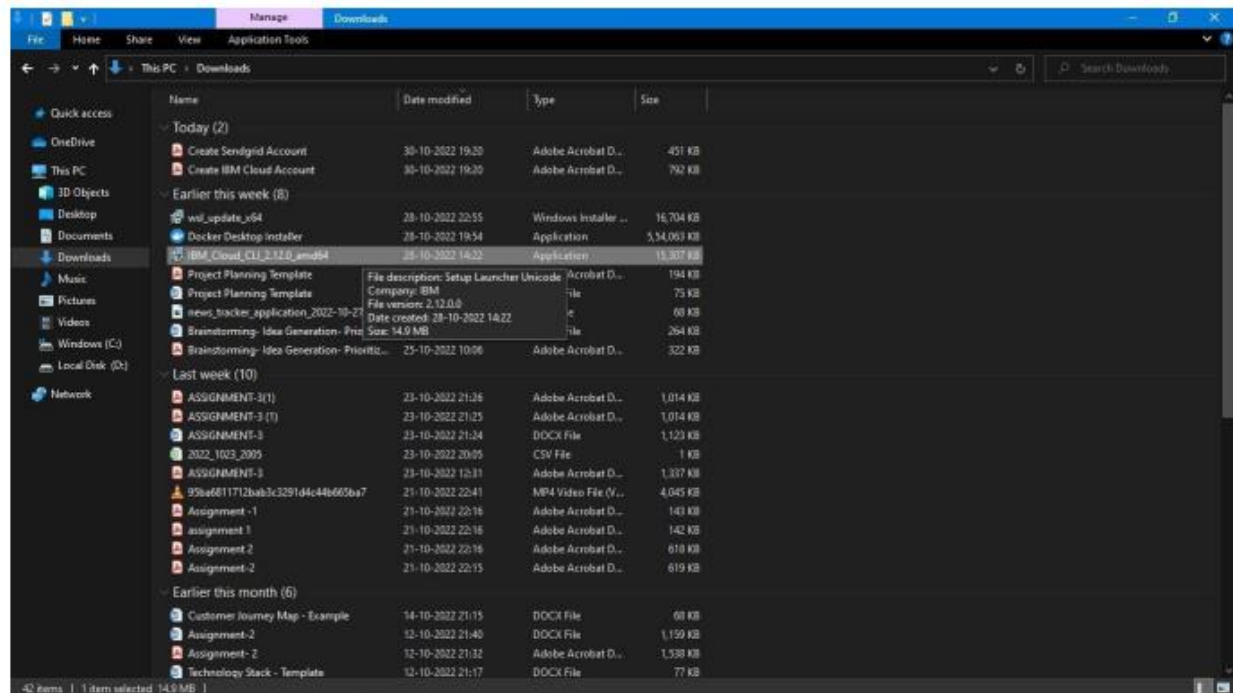
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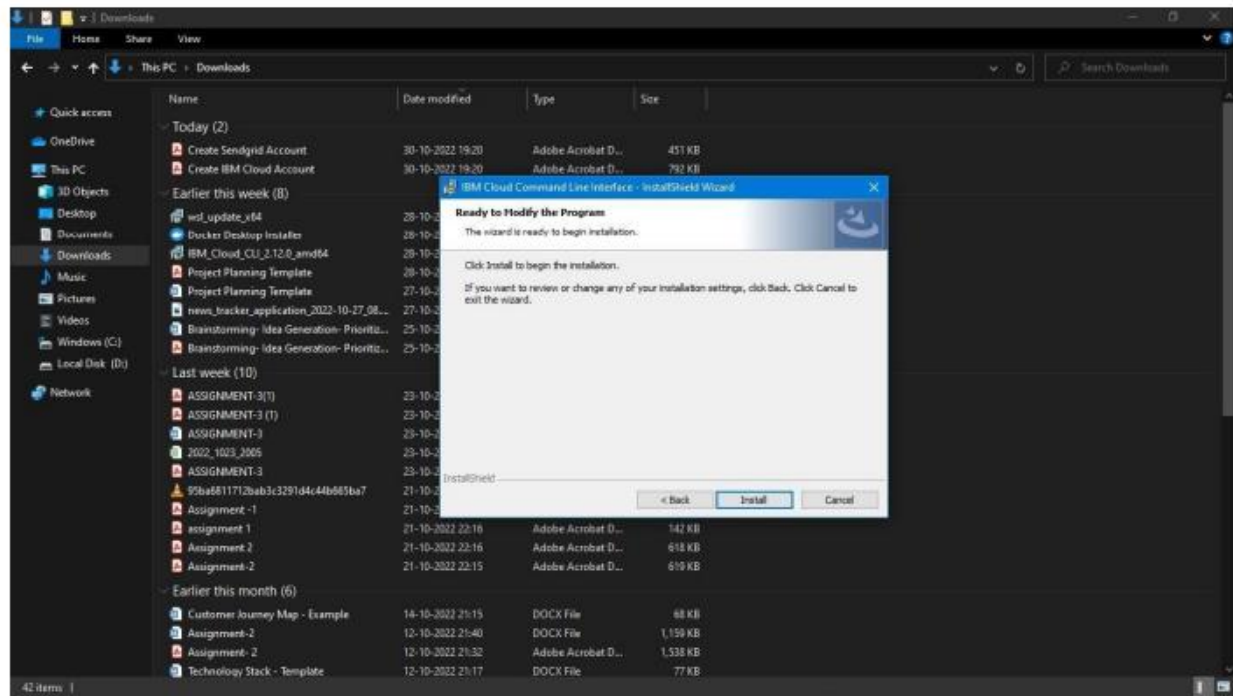
Step 6: After that, the github page will open and download the IBM

CLInstaller by selecting as per your system required installer.



Step 7: After the download, click the downloaded setup to run the installer

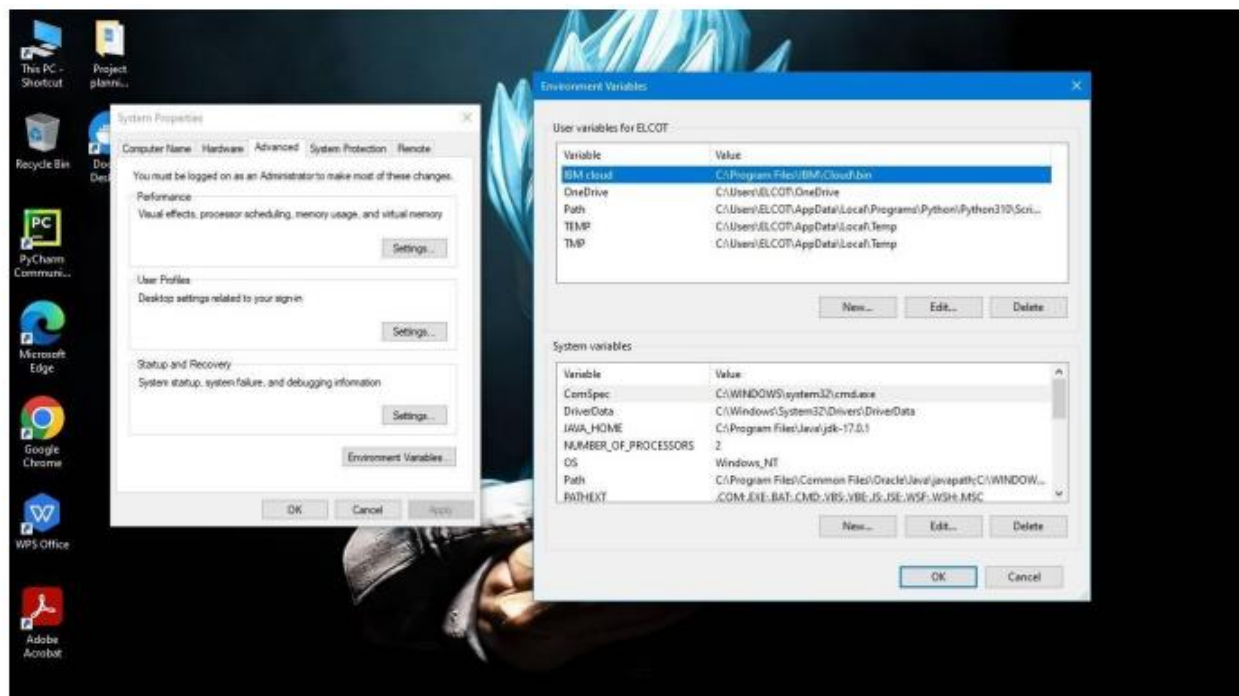


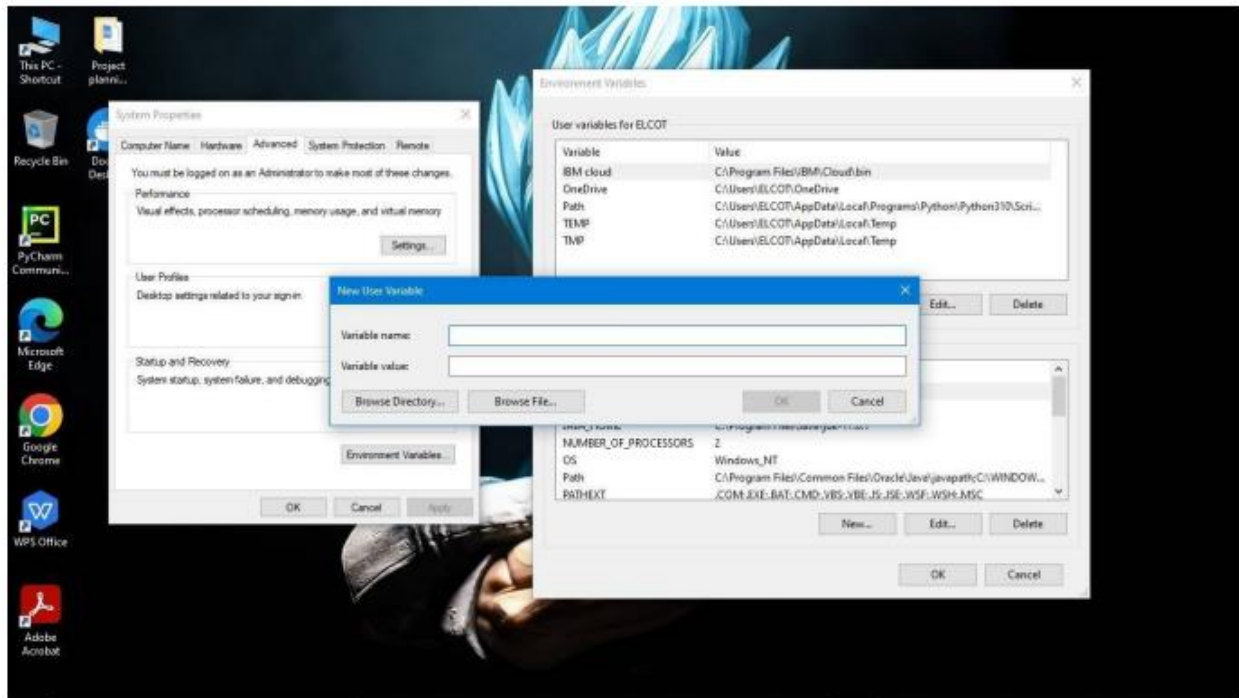


Step 8: After the installation set environment variable and then open CMD

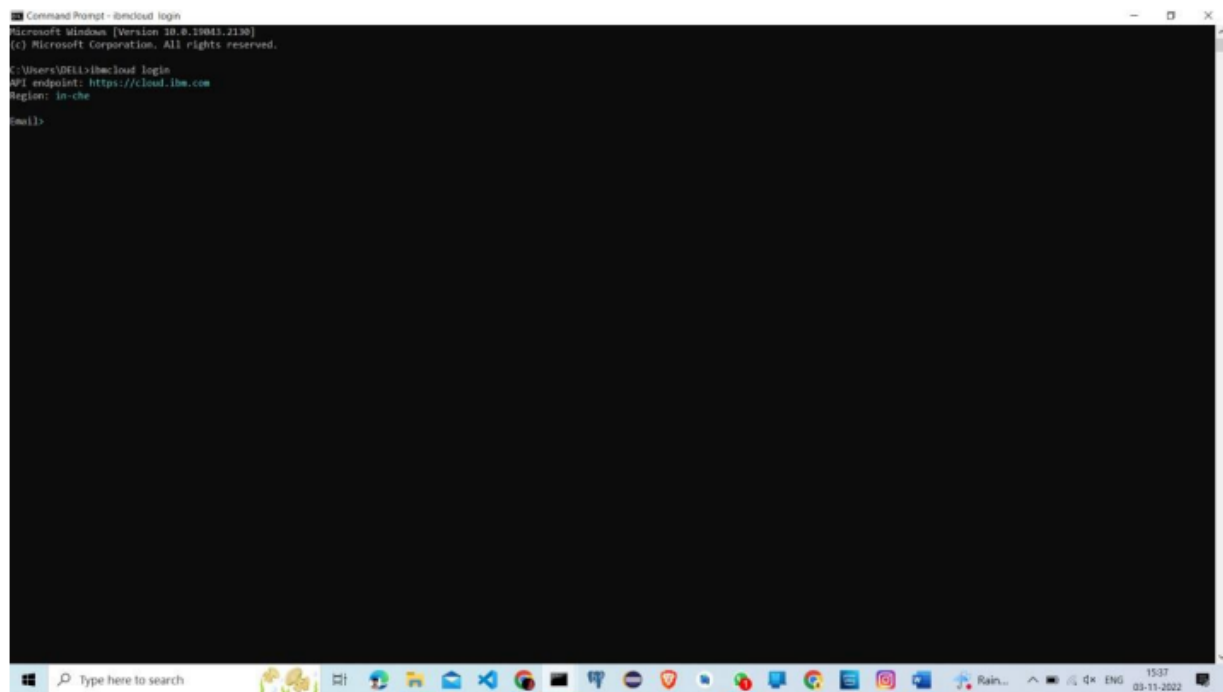
(Windows). Type this command to login in IBM cloud

“ibmcloud login”





In the variable name, name it as “IBM Cloud” and in variable value the path location of the IBM.



Step 9: Enter your IBM cloud email id and password, then it will authenticate and signals “OK”. The number of regions will be displayed, select one of them for your targeted account.

```
Select Command Prompt
Microsoft Windows [Version 10.0.19041.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\DELL>ibmcloud login
API endpoint: https://cloud.ibm.com
Region: in-che

Email: karthickselvam.ug19.cs@francis Xavier.ac.in

Password:
Authenticating...
OK

Targeted account: Karthick Selvam's Account (f892e0c5d1f45ec80e0c0ba38002ed5)

API endpoint: https://cloud.ibm.com
Region: in-che
User: karthickselvam.ug19.cs@francis Xavier.ac.in
Account: Karthick Selvam's Account (f892e0c5d1f45ec80e0c0ba38002ed5)
Resource group: No resource group targeted, use "ibmcloud target -g RESOURCE_GROUP"
CF API endpoint:
Org:
Space:

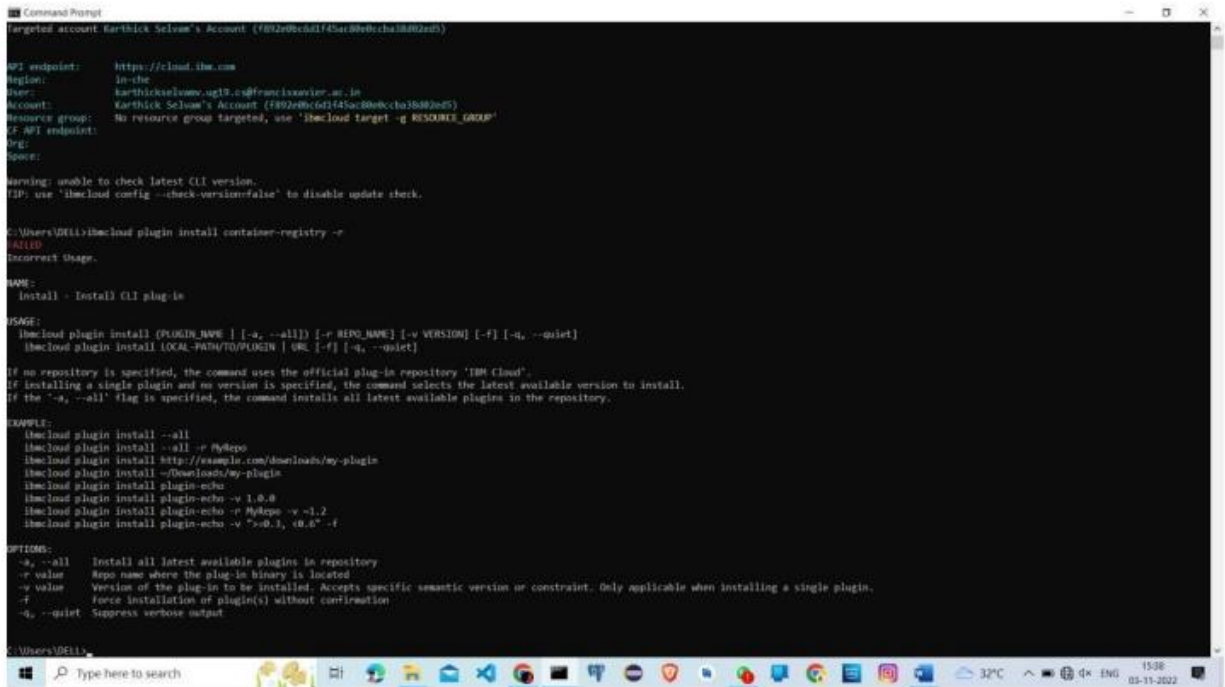
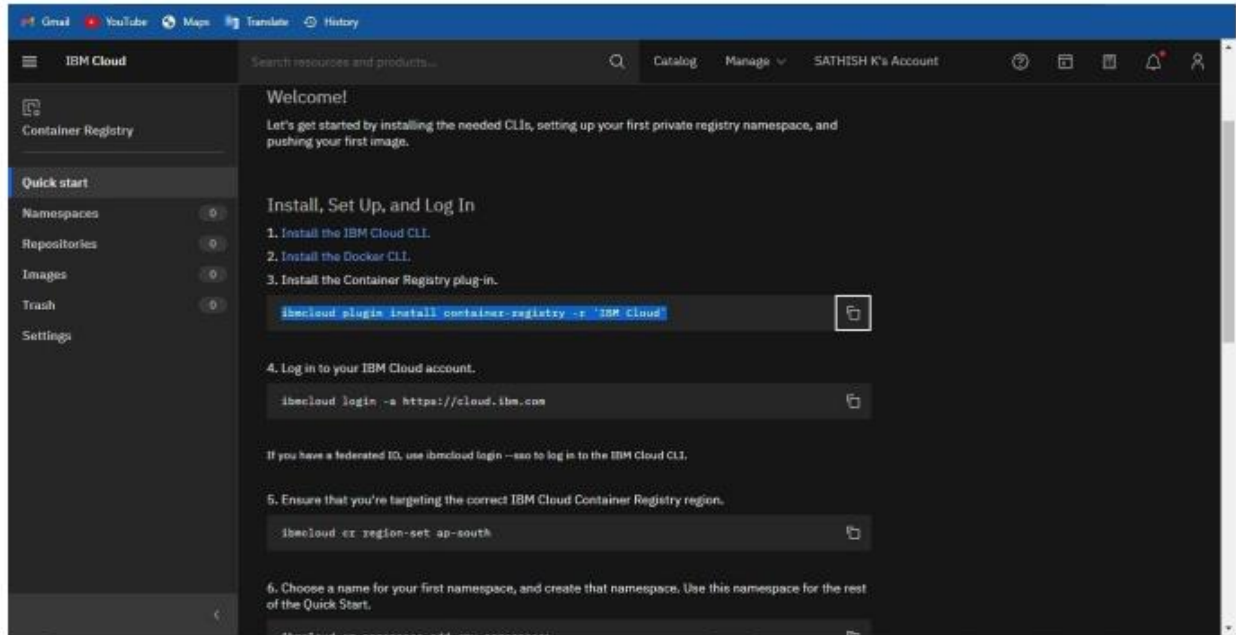
Warning: unable to check latest CLI version.
TIP: use "ibmcloud config --check-version=false" to disable update check.

C:\Users\DELL>
```


Step 10: Then copy the plugin command in your container registry

(where the command displayed in your container registry which is opened on web browser) and paste and run it on cmd.

“ibmcloud plugin install container-registry -r”



Step 11: Set your region to global.

“ibmcloud cr region-set global”.

```
Command Prompt
Targeted account Karthick Selvam's Account (f802a06c6d1f45ac0b06c1ba30802ed5)

API endpoint: https://cloud.ibm.com
Region: us-chi
User: karthickselvam.ug19.ca@franciscoxavier.ac.in
Account: Karthick Selvam's Account (f802a06c6d1f45ac0b06c1ba30802ed5)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:

Warning: unable to check latest CLI version.
Tip: use 'ibmcloud config --check-version=false' to disable update check.

C:\Users\DELL>ibmcloud plugin install container-registry ->
FAILED
Incorrect Usage.

NAME:
  ibmcloud plugin install - Install CLI plug-in

USAGE:
  ibmcloud plugin install [PUGIN_NAME] [-a, --all] [-r REPO_NAME] [-v VERSION] [-f] [-q, --quiet]
  ibmcloud plugin install [LOCAL-PATH/TO/PLUGIN] [URL] [-f] [-q, --quiet]

If no repository is specified, the command uses the official plug-in repository 'IBM Cloud'.
If installing a single plugin and no version is specified, the command selects the latest available version to install.
If the '-a, --all' flag is specified, the command installs all latest available plugins in the repository.

EXAMPLE:
  ibmcloud plugin install --all
  ibmcloud plugin install --all -r PyDepo
  ibmcloud plugin install http://example.com/downloads/my-plugin
  ibmcloud plugin install ~/Downloads/my-plugin
  ibmcloud plugin install plugin-echo
  ibmcloud plugin install plugin-echo -v 1.0.0
  ibmcloud plugin install plugin-echo -r PyDepo -v <1.2
  ibmcloud plugin install plugin-echo -v ">=0.1, <0.8" -f

OPTIONS:
  -a, --all      Install all latest available plugins in repository
  -r value       Repo name where the plug-in history is located
  -v value       Version of the plug-in to be installed. Accepts specific semantic version or constraint. Only applicable when installing a single plugin.
  -f            Force installation of plugin(s) without confirmation
  -q, --quiet    Suppress verbose output
```

Step 12: Create namespace in your container registry.

