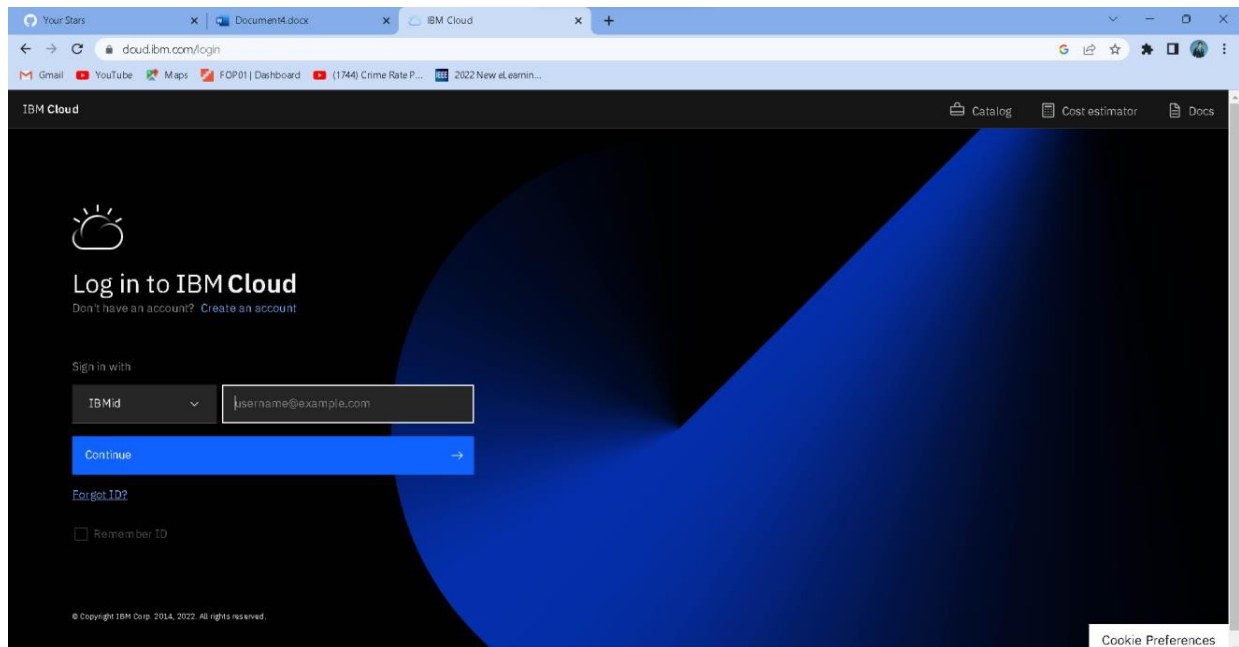


Team ID	PNT2022TMID04251
---------	------------------

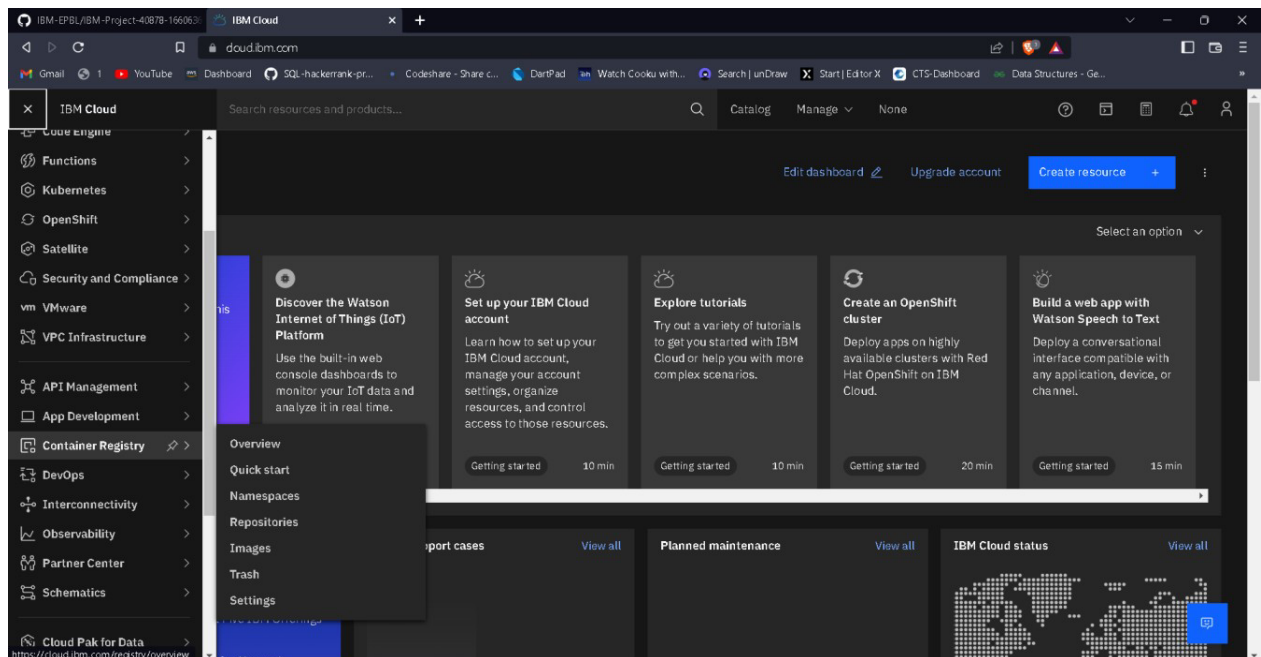
SETTING UP AN APPLICATION ENVIRONMENT

1. IBM CLOUD CLI INSTALLATION:

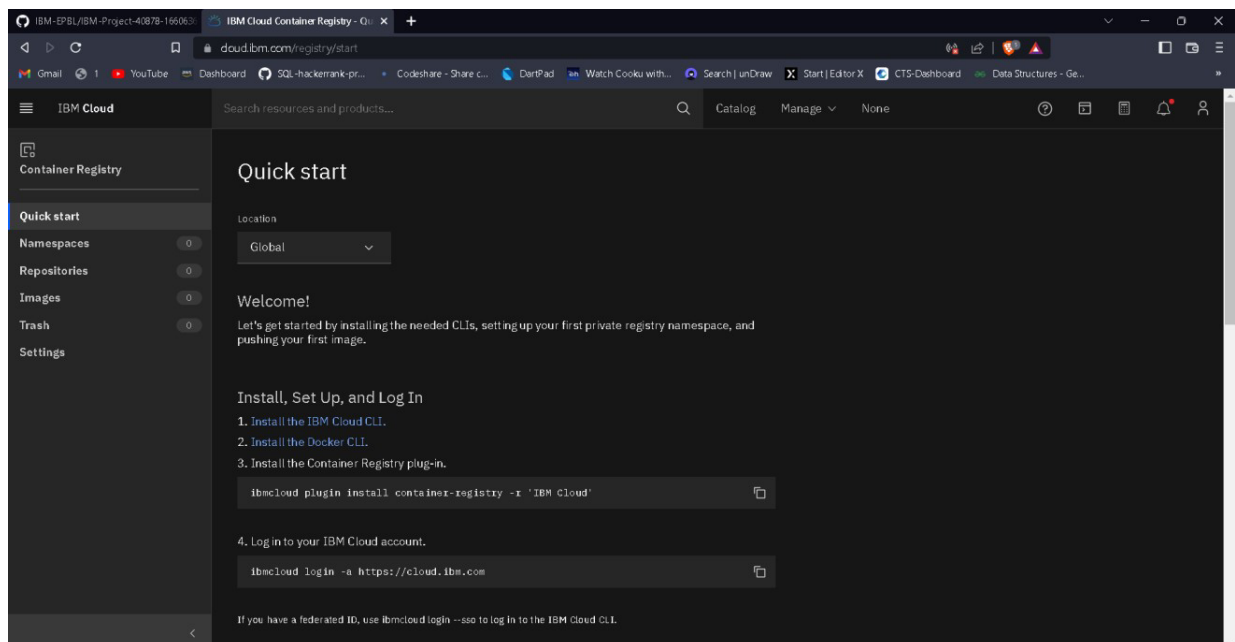
Step1: Log in to the IBM cloud



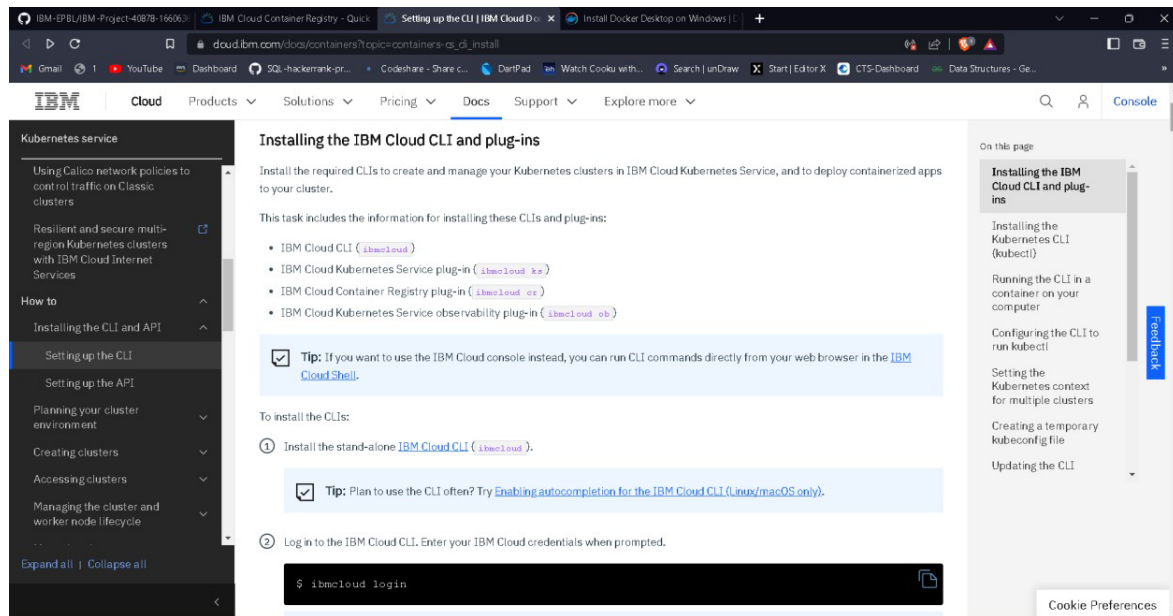
Step 2: Select container registry



Step3: Select QuickStart to open container registry and click on install IBM Cloud CLI



Step 4: Click on IBM Cloud CLI



The screenshot shows the IBM Cloud CLI installation page. The left sidebar is titled 'Kubernetes service' and lists various topics. The main content area is titled 'Installing the IBM Cloud CLI and plug-ins'. It provides instructions on how to install the CLI and lists the required CLIs and plug-ins. A tip suggests using the IBM Cloud console instead of the CLI. The right sidebar is titled 'On this page' and lists the steps: 'Installing the IBM Cloud CLI and plug-ins', 'Installing the Kubernetes CLI (kubectl)', 'Running the CLI in a container on your computer', 'Configuring the CLI to run kubectl', 'Setting the Kubernetes context for multiple clusters', 'Creating a temporary kubeconfig file', and 'Updating the CLI'.

Installing the IBM Cloud CLI and plug-ins

Install the required CLIs to create and manage your Kubernetes clusters in IBM Cloud Kubernetes Service, and to deploy containerized apps to your cluster.

This task includes the information for installing these CLIs and plug-ins:

- IBM Cloud CLI ([ibmcloud](#))
- IBM Cloud Kubernetes Service plug-in ([ibmcloud ks](#))
- IBM Cloud Container Registry plug-in ([ibmcloud cr](#))
- IBM Cloud Kubernetes Service observability plug-in ([ibmcloud ob](#))

☒ **Tip:** If you want to use the IBM Cloud console instead, you can run CLI commands directly from your web browser in the [IBM Cloud Shell](#).

To install the CLIs:

1. Install the stand-alone [IBM Cloud CLI](#) ([ibmcloud](#)).

☒ **Tip:** Plan to use the CLI often? Try [Enabling autocompletion for the IBM Cloud CLI \(Linux/macOS only\)](#).

2. Log in to the IBM Cloud CLI. Enter your IBM Cloud credentials when prompted.

```
ibmcloud login
```

On this page

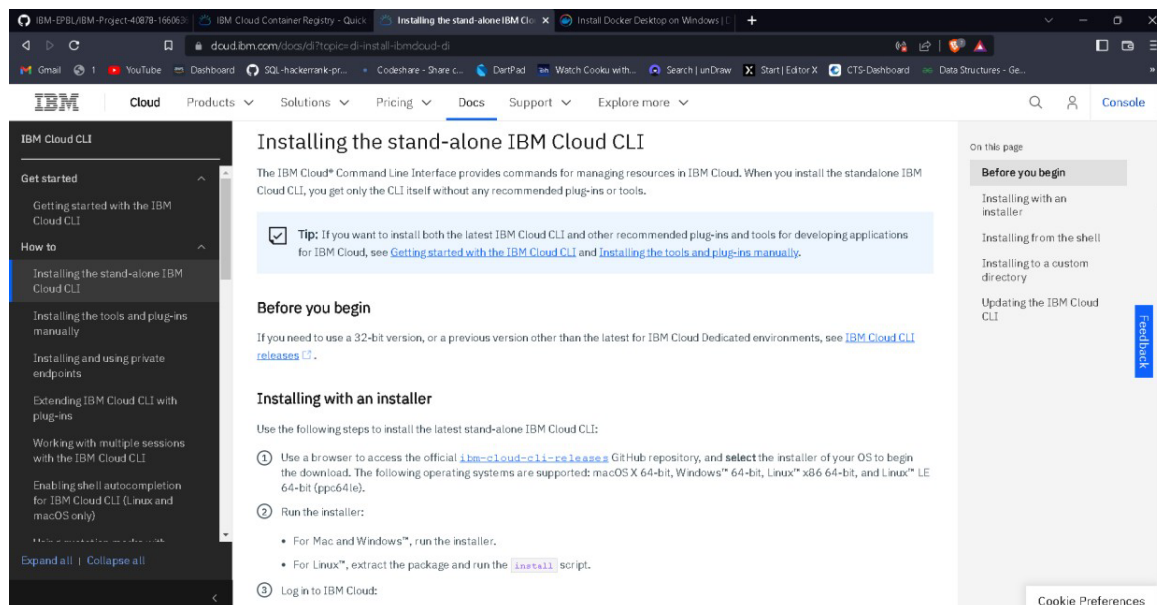
Installing the IBM Cloud CLI and plug-ins

- Installing the Kubernetes CLI (kubectl)
- Running the CLI in a container on your computer
- Configuring the CLI to run kubectl
- Setting the Kubernetes context for multiple clusters
- Creating a temporary kubeconfig file
- Updating the CLI

Feedback

Cookie Preferences

Step 5: And then, Click on IBM Cloud CLI releases



The screenshot shows the IBM Cloud CLI releases page. The left sidebar is titled 'IBM Cloud CLI' and lists various topics. The main content area is titled 'Installing the stand-alone IBM Cloud CLI'. It provides instructions on how to install the CLI and lists the required CLIs and plug-ins. A tip suggests using the IBM Cloud console instead of the CLI. The right sidebar is titled 'On this page' and lists the steps: 'Before you begin', 'Installing with an installer', 'Installing from the shell', 'Installing to a custom directory', and 'Updating the 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 [ibm-cloud-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.
3. Log in to IBM Cloud:

On this page

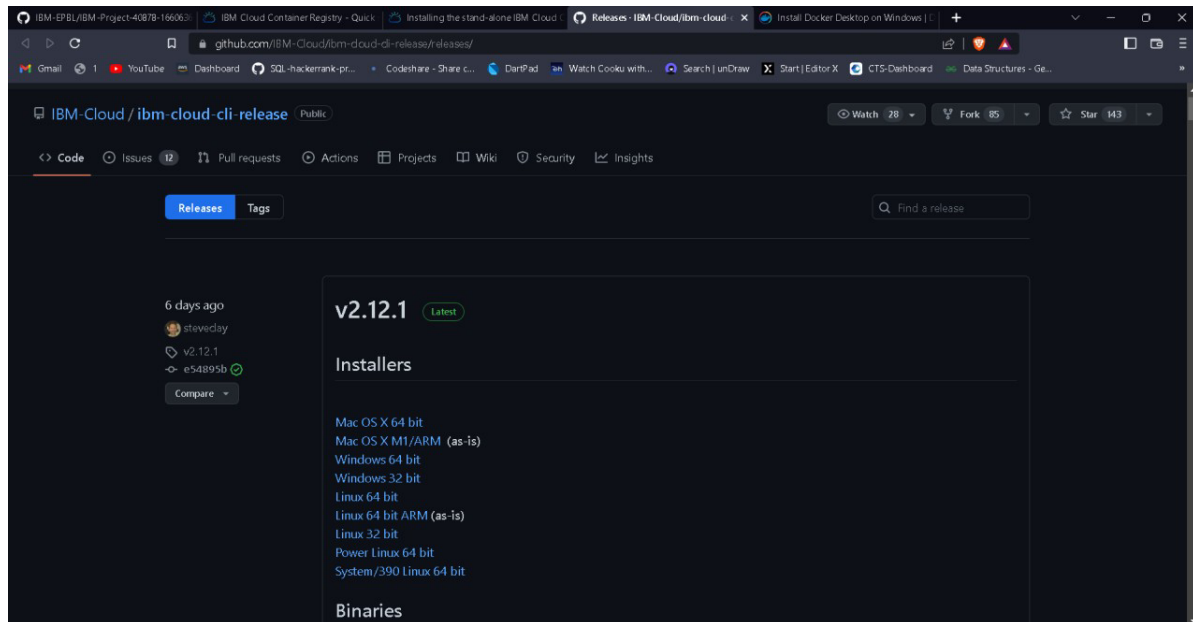
Before you begin

- Installing with an installer
- Installing from the shell
- Installing to a custom directory
- Updating the IBM Cloud CLI

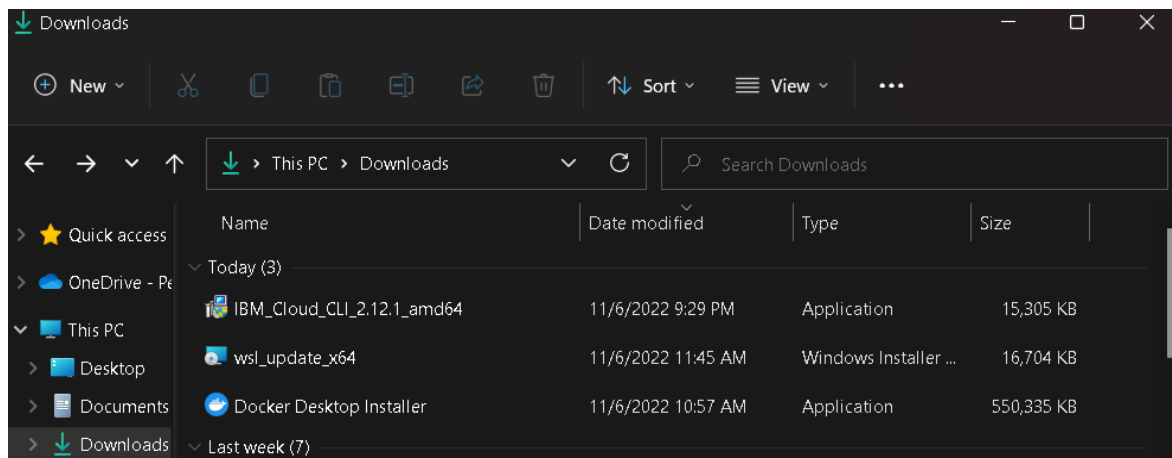
Feedback

Cookie Preferences

Step 6: After that, the GitHub page will open and download the IBM CLI installer by selecting as per your system required installer.

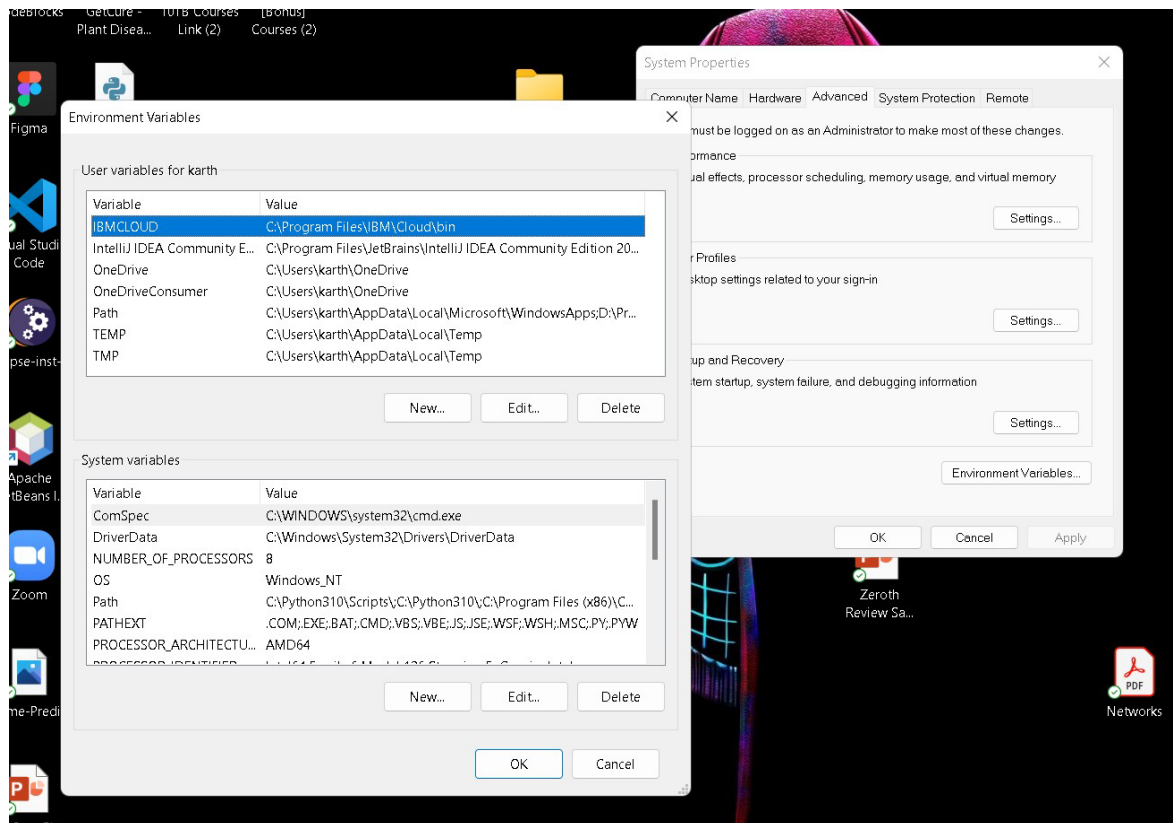


Step 7: After the download, Click the downloaded setup to run the installer.



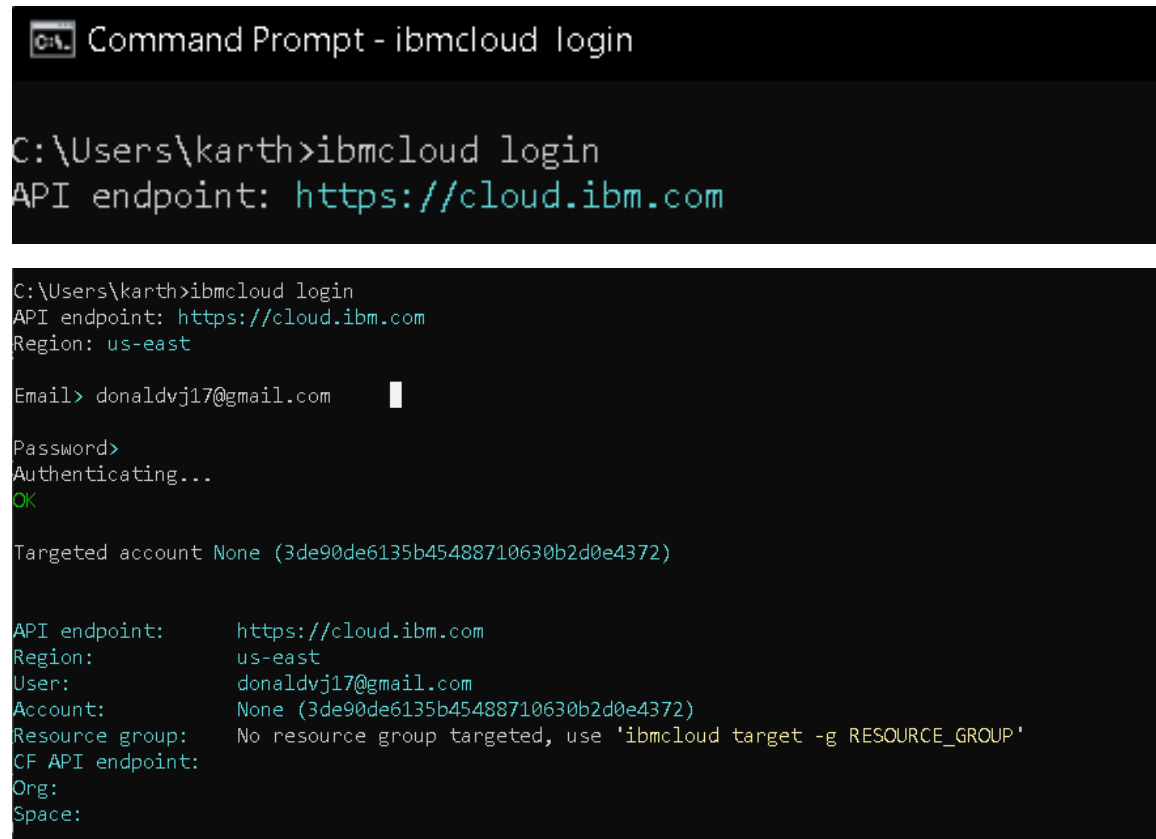
Step 8: After the installation set environment variable and then open CMD (Windows). Type this command to login in IBM cloud

“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 display, select one of them for your targeted account.



```
Command Prompt - ibmcloud login

C:\Users\karth>ibmcloud login
API endpoint: https://cloud.ibm.com

C:\Users\karth>ibmcloud login
API endpoint: https://cloud.ibm.com
Region: us-east

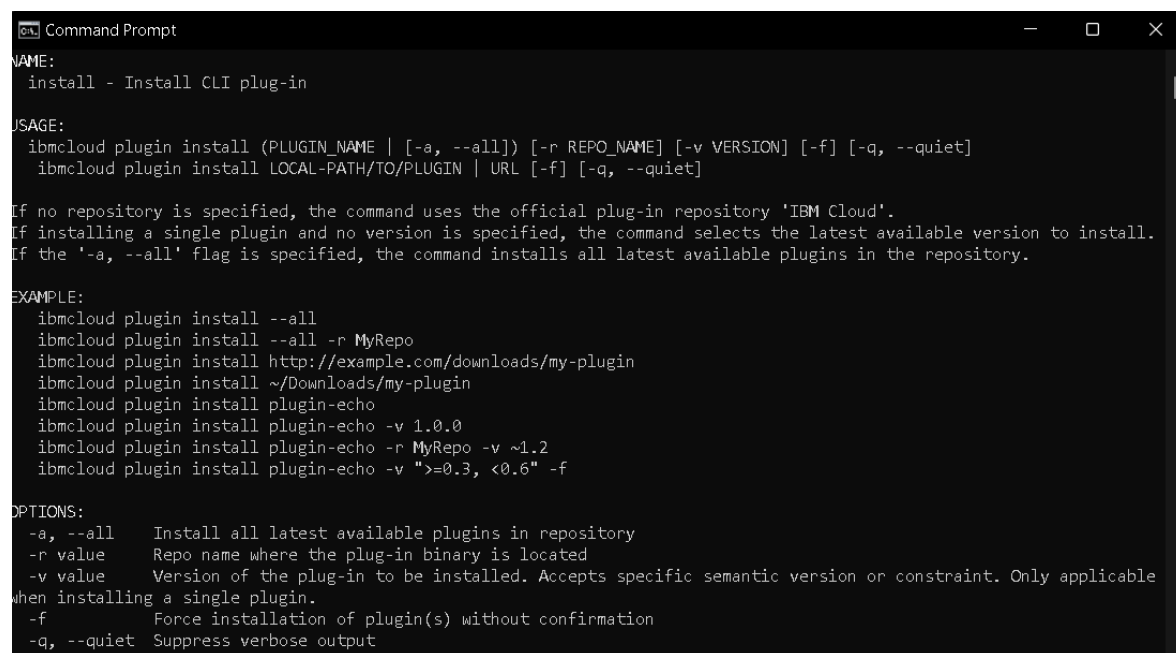
Email> donaldivj17@gmail.com
Password>
Authenticating...
OK

Targeted account None (3de90de6135b45488710630b2d0e4372)

API endpoint:      https://cloud.ibm.com
Region:           us-east
User:             donaldivj17@gmail.com
Account:          None (3de90de6135b45488710630b2d0e4372)
Resource group:   No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:
```

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”



```
Command Prompt
NAME:
  install - Install CLI plug-in

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

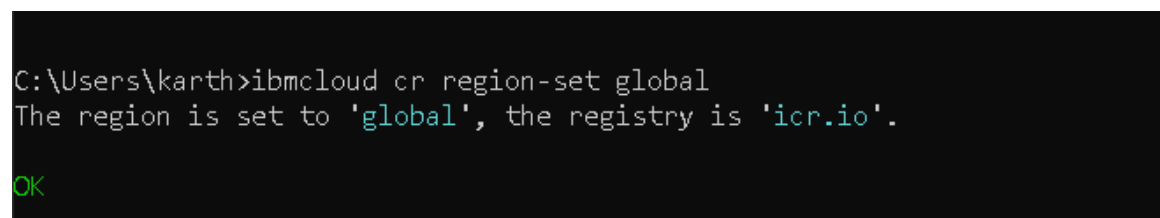
If no repository is specified, the command uses the official plug-in repository 'IBM Cloud'.
If installing a single plugin and no version is specified, the command selects the latest available version to install.
If the '-a, --all' flag is specified, the command installs all latest available plugins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

EXAMPLE:
  ibmcloud plugin install --all
  ibmcloud plugin install --all -r MyRepo
  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 MyRepo -v ~1.2
  ibmcloud plugin install plugin-echo -v ">=0.3, <0.6" -f

OPTIONS:
  -a, --all      Install all latest available plugins in repository
  -r value       Repo name where the plug-in binary 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 11: Set your region to global.

“ibmcloud cr region-set global”



```
C:\Users\karth>ibmcloud cr region-set global
The region is set to 'global', the registry is 'icr.io'.

OK
```

Step 12: Create namespace in your container registry

