# PERSONAL EXPENSE TRACKER APPLICATION

**Domain:** Cloud Application  Development


**Team  id:**
**PNT2022TMID07421**




# Installing  IBM Cloud CLI

The IBM Cloud® Command Line Interface provides commandsfor 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.

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

## Installing with an installer
Use the following steps to install the latest stand-alone IBMCloud CLI:
- Use a browser to access the official ibm-cloud-cli-releasesGitHub repository, and select the installer of your OS to begin the download. The following operating systems aresupported: macOS X 64-bit, Windows™ 64-bit, Linux™ x8664-bit, and Linux™ LE 64-bit (ppc64le).
- Run the installer:
- For Mac and Windows™, run the installer.

- For Linux™, extract the package and run the install script.
- Log in to IBM Cloud:
- ibmcloud login
- Now, you're ready to manage IBM Cloud resources. Enteribmcloud help to view the command descriptions.
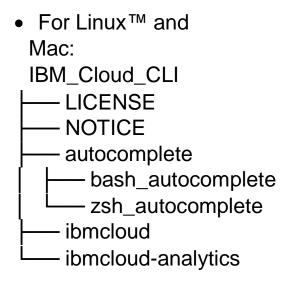
**Installing from the shell**
- To install the latest CLI for your OS from the shell manually, use the following command for your OS:
- For Mac, copy and paste the following command to aterminal and run it:
- Curl -fsSL [https://clis.cloud.ibm.com/install/osx](https://clis.cloud.ibm.com/install/osx) | sh
- For Linux™, copy and paste the following command to aterminal and run it:
- Curl -fsSL [https://clis.cloud.ibm.com/install/linux](https://clis.cloud.ibm.com/install/linux) | sh
- For Windows™, copy and paste the following command toa Windows™ PowerShell terminal console and run it
- Iex (New-Object Net.WebClient).DownloadString('https://clis.cloud.ibm.com/install/powershell')
- If you encounter errors like The underlying connection wasclosed: An unexpected error occurred on a send, make sure you have .Net Framework 4.5 or later installed. Also try to enable TLS 1.2 protocol by running the following command:
- [Net.ServicePointManager]::SecurityProtocol =[Net.SecurityProtocolType]::Tls12

**Installing to a custom directory**

When you use installers or a shell script to install the IBMCloud CLI, it is installed in your system directories. If you want to specify a different directory, use the following steps**.**

> **Note:** you install the IBM Cloud CLI to a custom directory,the ibmcloud update command can't be used to update the CLI

- Use a browser to access the official ibm-cloud-cli-releasesGitHub repository, and select the matching binary of yourplatform to begin the download. The following platforms are supported: macOS, linux32, linux64, ppc64le, win32, and win64.
- Extract the package to a directory that you specify.
- You can see the following extracted content:

- For Linux™ and
  Mac:
  IBM_Cloud_CLI

```
IBM_Cloud_CLI
├── LICENSE
├── NOTICE
├── autocomplete
│   ├── bash_autocomplete
│   └── zsh_autocomplete
├── ibmcloud
└── ibmcloud-analytics
```

- For Windows™:

```
IBM_Cloud_C
LI
├── LICENSE
├── NOTICE
├── ibmcloud-analytics.exe
└── ibmcloud.exe
```

- Add to the PATH environment variable and enable shell autocompletion.

- Add the {YOUR_DIRECTORY}/IBM_CLOUD_CLI to the PATH environment variable.
- For shell autocompletion support (Mac and Linux™ only), see Enabling shell autocompletion for IBM Cloud CLI.

**Updating the IBM Cloud CLI**
You must use the latest version of the CLI. If you aren't using the latest version, run the following command to update your CLI:

ibmcloud update

To determine your IBM Cloud CLI version, run the following command:

ibmcloud -v

If you are running the current release, the following output is displayed:

Checking for updates…
No update required. Your CLI is
To get notified about new IBM Cloud CLI releases,
subscribe to the IBM Cloud CLI releases repository

**Installers**
Mac OS X 64 bit
Mac OS X M1/ARM (as-is)
Windows 64 bit
Windows 32 bit
huLinux 64 bit
Linux 64 bit ARM
(as-is)Linux 32 bit
Power Linux 64 bit
System/390 Linux 64
bit

**Binaries**
Mac OS X 64 bit
Mac OS X M1/ARM
(as-is)Windows 64 bit
Windows 32 bit
Linux 64 bit
Linux 64 bit ARM
(as-is)Linux 32 bit
Power Linux 64 bit
System/390 Linux 64
bit

**Bug Fixes**
Upgrades sl plug-in to 1.0.9, removing panic when
theLANG environment setting is missing