

# Setting up Application Environment

## Install IBM Cloud CLI

Team ID	PNT2022TMID35281
Project	Containment Zone Alerting Application

## Installation Process

```
sudharshan@DESKTOP-03Q5: ~$ sudo apt-get install curl
After this operation, 12.3 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Ign:1 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 curl amd64 7.58.0-2ubuntu3.13
Ign:2 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libcurl4 amd64 7.58.0-2ubuntu3.13
Err:1 http://security.ubuntu.com/ubuntu bionic-updates/main amd64 curl amd64 7.58.0-2ubuntu3.13
 404 Not Found [IP: 185.125.190.36 80]
Err:2 http://security.ubuntu.com/ubuntu bionic-updates/main amd64 libcurl4 amd64 7.58.0-2ubuntu3.13
 404 Not Found [IP: 185.125.190.36 80]
E: Failed to fetch http://security.ubuntu.com/ubuntu/pool/main/c/curl/curl_7.58.0-2ubuntu3.13_amd64.deb 404 Not Found [IP: 185.125.190.36 80]
E: Failed to fetch http://security.ubuntu.com/ubuntu/pool/main/c/curl/libcurl4_7.58.0-2ubuntu3.13_amd64.deb 404 Not Found [IP: 185.125.190.36 80]
E: Unable to fetch some archives, maybe run apt-get update or try with --fix-missing?
sudharshan@DESKTOP-03Q5:~$ curl --version
curl 7.58.0 (x86_64-pc-linux-gnu) libcurl/7.58.0 OpenSSL/1.1.1 zlib/1.2.11 libidn2/2.0.4 libpsl/0.19.1 (+libidn2/2.0.4) nghttp2/1.30.0 librtmp/2.3
Release-Date: 2018-01-24
Protocols: dict file ftp ftps gopher http https imap imaps ldap ldaps pop3 pop3s rtmp rtsp smb smbs smtp smtps telnet tftp
Features: AsynchDNS IDN IPv6 Largefile GSS-API Kerberos SPNEGO NTLM NTLM_WB SSL libz TLS-SRP HTTP2 UnixSockets HTTPS-proxy PSL
sudharshan@DESKTOP-03Q5:~$ apt-cache search libcurl | grep python
python-pycurl - Python bindings to libcurl
python-pycurl-dbg - Python bindings to libcurl (debug extension)
python-pycurl-doc - Python bindings to libcurl (documentation)
python3-pycurl - Python bindings to libcurl (Python 3)
python3-pycurl-dbg - Python bindings to libcurl (debug extension, Python 3)
python-resource-retriever - Robot OS resource_retriever library - Python
sudharshan@DESKTOP-03Q5:~$ clear
sudharshan@DESKTOP-03Q5:~$ 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 3776k 0 0:00:03 0:00:03 --:--:-- 3776k
Download complete. Executing installer...
Bluemix_CLI/
Bluemix_CLI/bin/
Bluemix_CLI/bin/ibmcloud
Bluemix_CLI/bin/ibmcloud.sig
```

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Bluemix_CLI/bin/ibmcloud.
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.
[sudo] password for sudharshan:
Install complete.
sudharshan@DESKTOP-03QSBC4:/mnt/c/Users/Kugan.raju/Desktop$ ibmcloud help
NAME:
  ibmcloud - A command line tool to interact with IBM Cloud
  Find more information at: https://ibm.biz/cli-docs

USAGE:
  [environment variables] ibmcloud [global options] command [arguments...] [command options]

VERSION:
  2.12.1+b8488a1-2022-10-31T15:08:10+00:00

COMMANDS:
  account      Manage accounts, users, orgs and spaces
  api           Set or view target API endpoint
  billing       Retrieve usage and billing information
  catalog       Manage catalog
  cf            Run Cloud Foundry CLI with IBM Cloud CLI context
  config        Write default values to the config
  dev           Create, develop, deploy, and monitor applications
  enterprise    Manage enterprise, account groups and accounts.

27°C
Rain off and on
10:06 AM
23-11-2022
```

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enterprise    Manage enterprise, account groups and accounts.
iam           Manage identities and access to resources
login         Log user in
logout        Log user out
plugin        Manage plug-ins and plug-in repositories
regions       List all the regions
resource      Manage resource groups and resources
resources     List all resources
sl            Manage Classic infrastructure services
target        Set or view the targeted region, account, resource group, org or space
update        Update CLI to the latest version
version       Print the version
help, h       Show help

Enter 'ibmcloud help [command]' for more information about a command.

ENVIRONMENT VARIABLES:
  IBMCLCLOUD_COLOR=false          Do not colorize output
  IBMCLCLOUD_VERSION_CHECK=false  Do not check latest version for update
  IBMCLCLOUD_HTTP_TIMEOUT=5       A time limit for HTTP requests
  IBMCLCLOUD_API_KEY=api_key_value API Key used for login
  IBMCLCLOUD_CR_VPC_URL=url_value The custom server URL to use when obtaining an instance identity token and IAM token as a VPC VSI compute resource. This value will replace the default server endpoint of the VPC VSI instance identity token service.
  IBMCLCLOUD_CR_TOKEN=cr_token_value Compute resource token used for login. Can either be a token string or a path to a @file.
  IBMCLCLOUD_CR_PROFILE=profile_value The name, ID, or CRN of the linked trusted IAM profile to be used when obtaining the IAM access token. If authenticating as a VPC VSI compute resource, only specifying a trusted profile CRN or ID is supported.
  IBMCLCLOUD_TRACE=true           Print API request diagnostics to stdout
  IBMCLCLOUD_TRACE=path/to/trace.log Append API request diagnostics to a log file
  IBMCLCLOUD_HOME=path/to/dir     Path to config directory

GLOBAL OPTIONS:
  --version, -v          Print the version
  --help, -h            Show help

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23-11-2022
```

```
sudharshan@DESKTOP-O3QS X + v
sudharshan@DESKTOP-O3QSB4:/mnt/c/Users/Kugan_raju/Desktop$ curl --progress-bar -LO https://storage.googleapis.com/kubernetes-release/release/$(curl -s http
s://storage.googleapis.com/kubernetes-release/release/stable.txt)/bin/linux/amd64/kubectl
##### 100.0%sudharshan@DESKTOP-O3QSB4:/mnt/c/Users/Kugan_raju/Desktop$ ibmcloud plugin install cloud-object-storage
Looking up 'cloud-object-storage' from repository 'IBM Cloud'...
Plug-in 'cloud-object-storage 1.6.0' found in repository 'IBM Cloud'
Attempting to download the binary file...
16.06 MiB / 16.06 MiB [=====] 100.00% 6s16842752 bytes downloaded
Installing binary...
OK
Plug-in 'cloud-object-storage 1.6.0' was successfully installed into /home/sudharshan/.bluemix/plugins/cloud-object-storage. Use 'ibmcloud plugin show cloud
-object-storage' to show its details.
sudharshan@DESKTOP-O3QSB4:/mnt/c/Users/Kugan_raju/Desktop$ 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'
Attempting to download the binary file...
11.69 MiB / 11.69 MiB [=====] 100.00% 2s12255232 bytes downloaded
Installing binary...
OK
Plug-in 'container-registry 1.0.2' was successfully installed into /home/sudharshan/.bluemix/plugins/container-registry. Use 'ibmcloud plugin show container
-registry' to show its details.
sudharshan@DESKTOP-O3QSB4:/mnt/c/Users/Kugan_raju/Desktop$ ibmcloud plugin install container-service
Looking up 'container-service' from repository 'IBM Cloud'...
Plug-in 'container-service[kubernetes-service/ks] 1.0.459' found in repository 'IBM Cloud'
Attempting to download the binary file...
26.63 MiB / 26.63 MiB [=====] 100.00% 8s27922432 bytes downloaded
Installing binary...
OK
Plug-in 'container-service 1.0.459' was successfully installed into /home/sudharshan/.bluemix/plugins/container-service. Use 'ibmcloud plugin show container
-service' to show its details.
sudharshan@DESKTOP-O3QSB4:/mnt/c/Users/Kugan_raju/Desktop$ curl -sL https://raw.githubusercontent.com/kubernetes/helm/master/scripts/get | bash
Downloading https://get.helm.sh/helm-v2.17.0-linux-amd64.tar.gz
Preparing to install helm and tiller into /usr/local/bin
```

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-registry' to show its details.
sudharshan@DESKTOP-O3QSB4:/mnt/c/Users/Kugan_raju/Desktop$ ibmcloud plugin install container-service
Looking up 'container-service' from repository 'IBM Cloud'...
Plug-in 'container-service[kubernetes-service/ks] 1.0.459' found in repository 'IBM Cloud'
Attempting to download the binary file...
26.63 MiB / 26.63 MiB [=====] 100.00% 8s27922432 bytes downloaded
Installing binary...
OK
Plug-in 'container-service 1.0.459' was successfully installed into /home/sudharshan/.bluemix/plugins/container-service. Use 'ibmcloud plugin show container
-service' to show its details.
sudharshan@DESKTOP-O3QSB4:/mnt/c/Users/Kugan_raju/Desktop$ curl -sL https://raw.githubusercontent.com/kubernetes/helm/master/scripts/get | bash
Downloading https://get.helm.sh/helm-v2.17.0-linux-amd64.tar.gz
Preparing to install helm and tiller into /usr/local/bin
helm installed into /usr/local/bin/helm
tiller installed into /usr/local/bin/tiller
Run 'helm init' to configure helm.
sudharshan@DESKTOP-O3QSB4:/mnt/c/Users/Kugan_raju/Desktop$ ibmcloud plugin install cloud-functions
Looking up 'cloud-functions' from repository 'IBM Cloud'...
Plug-in 'cloud-functions[wsk/functions/fn] 1.0.61' found in repository 'IBM Cloud'
Attempting to download the binary file...
13.28 MiB / 13.28 MiB [=====] 100.00% 3s13922838 bytes downloaded
Installing binary...
OK
Plug-in 'cloud-functions 1.0.61' was successfully installed into /home/sudharshan/.bluemix/plugins/cloud-functions. Use 'ibmcloud plugin show cloud-function
s' to show its details.
sudharshan@DESKTOP-O3QSB4:/mnt/c/Users/Kugan_raju/Desktop$ ibmcloud plugin install schematics
Looking up 'schematics' from repository 'IBM Cloud'...
Plug-in 'schematics[sch] 1.12.4' found in repository 'IBM Cloud'
Attempting to download the binary file...
20.17 MiB / 20.17 MiB [=====] 100.00% 5s21146595 bytes downloaded
Installing binary...
OK
Plug-in 'schematics 1.12.4' was successfully installed into /home/sudharshan/.bluemix/plugins/schematics. Use 'ibmcloud plugin show schematics' to show its
details.
```

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sudharshan@DESKTOP-03Q5BC4:/mnt/c/Users/Kugan_raju/Desktop$ ibmcloud login
API endpoint: https://cloud.ibm.com

Email> 2019103068@student.annauniv.edu

Password>
Authenticating...
OK

Targeted account Sudharshan K's Account (eb23eb40d6f24020b2b0912c949e5657)

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> 7
Targeted region eu-gb

API endpoint: https://cloud.ibm.com
Region: eu-gb
User: 2019103068@student.annauniv.edu
Account: Sudharshan K's Account (eb23eb40d6f24020b2b0912c949e5657)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
```

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11. br-sao
Enter a number> 7
Targeted region eu-gb

API endpoint: https://cloud.ibm.com
Region: eu-gb
User: 2019103068@student.annauniv.edu
Account: Sudharshan K's Account (eb23eb40d6f24020b2b0912c949e5657)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:
sudharshan@DESKTOP-03Q5BC4:/mnt/c/Users/Kugan_raju/Desktop$ ibmcloud target --cf
!!!18N_MESSAGE_NOT_FOUND!!!
Targeted Cloud Foundry (https://api.eu-gb.cf.cloud.ibm.com)

No organizations were found.
Use ibmcloud account org-create ORG to create an org in the target public CF environment.

API endpoint: https://cloud.ibm.com
Region: eu-gb
User: 2019103068@student.annauniv.edu
Account: Sudharshan K's Account (eb23eb40d6f24020b2b0912c949e5657)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint: https://api.eu-gb.cf.cloud.ibm.com (API version: 2.189.0)
Org:
Space:
sudharshan@DESKTOP-03Q5BC4:/mnt/c/Users/Kugan_raju/Desktop$
```