# **INSTALLING CF-CLI**

## INTRODUCTION

To CF CLI is the command line tool from where you can do admin operations on your PCF environment. To make use of it, you must install cf cli in your linux terminal.

The following guide will help you to install the latest version of cf cli.

### **GET THE CF CLI**

You can download the CF packages for Linux\MacOS or Windows from here.

https://github.com/cloudfoundry/cli/releases

Else you can run following commands in your linux machine:

```
$ curl -L "https://cli.run.pivotal.io/stable?release=linux64-binary&source=github" | tar -zx
```

It will download the latest version of cf cli in the extracted location.

```
-L "https://cli.run.pivotal.io/stable?release=linux64-binary&source=github" |
            % Received % Xferd Average Speed Time
Dload Upload Total
 % Total
                                                       Time
                                                                Time Current
                                                       Spent
                                                                Left Speed
100 6703k 100 6703k 0
[root@aoadbld000321b tmp]# 1s -ltr
otal 23984
rwxr-xr-x. 1 root
                                       24201088 May 10 18:42 cf
drwxr-xr-x. 2 dd-agent
                           dd-agent
                                              304 May 15 20:36 esmsetup.log
                                             154 May 22 13:01 local_users.out
                                               0 May 22 13:01 sudo_users.out
                                             154 May 22 13:01 users.out
                                             2208 May 22 13:05 prep_REPORT.out
                                            75784 May 23 12:16 opt-config-trace.log
                                            40023 May 23 12:22 opt-config-delete.log
                                            75932 May 23 12:26 opt-ei-create-config-trace.log
     -xr-x. 2 sscope2
                           sscope2
                                               15 May 23 22:27 bash.output
f version 6.18.0+b22884b-2016-05-10
root@aoadbld000321b tmp]#
```

To check the version you have downloaded, you need to run the following command:

```
#./cf-version.
```

But we do not want to run the command as a script rather we want it to be a service. This part is easy.

Copy the cf file to /usr/bin

```
# cp cf /usr/bin/
```

### **ADDING PLUGINS**

To extend capabilities of CF CLI you can add plugins to it. There are various plugins available for various tasks. For example, you can generate usage-report by adding usage-report plugin. Similarly, you can add diego-enabler plugin to help apps and spaces to move to diego or DEA according to the need.

To do so, the first step is to add the plugin repo. The command for that is:

[root@aoadbldooo32lb tmp]# cf add-plugin-repo CF-Community http://plugins.cloudfoundry.org

**FAILED** 

Plugin repo named "CF-Community" already exists, please use another name.

[root@aoadbldooo32lb tmp]#

We have already added the plugin repo, hence the message came. We are good here.

#### TO CHECK ALL THE AVAILABLE PLUGINS IN THE REPO

To CF CLI is the command line tool from where you can do admin operations on your PCF environment.

[root@aoadbldooo32lb tmp]# cf repo-plugins

Getting plugins from all repositories ...

Repository: CF-Community

name version description

Firehose Plugin o.g.o This plugin allows you to connect to the firehose (CF admins only)

Scaleover 1.0.4 Roll traffic from one app to another by scaling over time

antifreeze o.2.1 Detect if an app has unexpected ENV vars or services bound which are missing from

the manifest

cf-willitconnect 1.1.0 Can CF connect to a thing?

Diego-Enabler 1.1.0 Enable/Disable Diego support for an app (CLI v6.13.0+)

Usage Report 1.3.0 Report on memory usage and application instances for orgs and spaces

fastpush 1.0.0 Fast, non-persistent, smart and incrementally updating of your application

doctor 1.0.2 doctor scans your deployed applications, routes and services for anomalies and reports

any issues found. (CLI v6.7.0+)

Download Droplet 1.0.1 Download droplets to your local machine

manifest-generator 1.0.0 Help you to generate a manifest from o (CLI v6.7.0+)

kibana-me-logs 0.4.3 Launches the Kibana UI (from kibana-me-logs) for an application.

Cloud Deployment Plugin 1.0.1 This plugin allows you to manage application deployment details and manifests in a github repo (like spring cloud config server for deployments)

mamies in a grands reporting around coming server for deproymen

CLI-Recorder 1.0.2 Records and playbacks CLI commands.

Buildpack Management 1.0.0 Provides a declarative way to configure system buildpacks in a Cloud Foundry installation

Targets 1.1.0 Easily manage multiple CF targets

blue-green-deploy 1.0.4 Zero downtime deploys with smoke test support

Statistics 1.0.0 Display live metrics/statistics about an app

wildcard\_plugin 1.0.0 Allows user to search and delete apps using wildcard(\*)

CF App Stack Changer 1.1.0 Allows admins to list and update applications with outdated lucid64 stacks.

cf-download 1.0.0 Plugin for downloading your application contents after staging.

Copy Env 1.0.0 Expose remote VCAP\_SERVICES on the client environment

Buildpack Usage 1.0.0 View all buildpacks used in the current CLI target context.

Test User 0.0.1 Create a user and assign all possible permissions, organisation and space are created if they do not already exist as well. If no organisation or space name are specified then the default value of 'development' is used

Brooklyn 0.1.1 Interact with Service Broker for Apache Brooklyn

autopilot o.o.1 zero downtime deploy plugin for cf applications

Open 1.1.0 Open app url in browser

Console 1.0.0 Start a tmate session on an application container

Live Stats 1.0.0 Monitor CPU and Memory usage on an app via the browser.

[root@aoadbldooo32lb tmp]#

```
recting plugins from all repositories ...

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me

Version

description

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me

Version

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```

[root@aoadbldooo32lb tmp]# cf install-plugin Diego-Enabler -r CF-Community

\*\*Attention: Plugins are binaries written by potentially untrusted authors. Install and use plugins at your own risk.\*\*

Do you want to install the plugin Diego-Enabler? (y or n)> yes

Looking up 'Diego-Enabler' from repository 'CF-Community'

12741304 bytes downloaded...

Installing plugin /tmp/ filename=diego-enabler\_linux\_amd64...

ОК

Plugin Diego-Enabler v1.0.1 successfully installed.

[root@aoadbldooo32lb tmp]#

# ADDING USAGE-REPORT PLUGIN

[root@aoadbldooo32lb tmp]# cf install-plugin "Usage Report" -r CF-Community

\*\*Attention: Plugins are binaries written by potentially untrusted authors. Install and use plugins at your own risk.\*\*

Do you want to install the plugin Usage Report? (y or n)> yes

Looking up 'Usage Report' from repository 'CF-Community'

8908816 bytes downloaded...

Installing plugin /tmp/usagereport-plugin...

OK

Plugin usage-report v1.3.0 successfully installed.

[root@aoadbldooo32lb tmp]#

### **CF STATISITCS**

How about knowing the stats of an application? Here is the plugin called "Statistics".

Install using:

#cf install-plugin "Statistics" -r CF-Community

• Target an org & space:

#cf target -o EnterpriseIntegration -s TibcoCloudDev

• Run against an application

#cf statistics HTTP-JMS-JDBC.application



[root@aoadbldooo32lb openplatform]# cf add-plugin-repo community http://plugins.cfapps.io/

OK

http://plugins.cfapps.io/list added as 'community'

[root@aoadbldooo32lb openplatform]# cf install-plugin kibana-me-logs -r community

\*\*Attention: Plugins are binaries written by potentially untrusted authors. Install and use plugins at your own risk.\*\*

Do you want to install the plugin kibana-me-logs? (y or n)> yes

Looking up 'kibana-me-logs' from repository 'community'

8872680 bytes downloaded...

Installing plugin /tmp/ filename=cf-plugin-kibana-me-logs\_linux\_amd64...

OK

Plugin kibana-me-logs vo.4.3 successfully installed.

[root@aoadbldooo32lb openplatform]#

## **CF TARGETS PLUGIN**

Plugin Name: Targets

Version: 1.1.0

Purpose: Easily manage multiple CF targets

#### ADD THE PLUGIN:

#cf add-plugin-repo CF-Community http://plugins.cloudfoundry.org/

#cf install-plugin targets -r CF-Community

#### TARGET &SAVE THE INTENDED ENVIRONMENT

Example:

#cf login --skip-ssl-validation -a <a href="https://api.devcloudwest.inbcu.com">https://api.devcloudwest.inbcu.com</a>

Provide username and password and then execute following command:

#cf save-target NAME

#cf save-target devcloudwest

# CHECK THE TARGETS

#cf targets

[root@aoaaplpoo336 openplatform]# cf targets

cloudeast

cloudwest

devcloudwest (current, modified)

Add more targets if you have.

# POINT TO THE INTENDED TARGET

#cf set-target devcloudwest