

Push to the Cloud

Table of Contents

Requirements (lab.html#requirements:3976528693a0108357f4928017600865)
What you will learn (lab.html#what-you-will-learn:3976528693a0108357f4928017600865)
Exercises (lab.html#exercises:3976528693a0108357f4928017600865)
 Download the `cf` CLI (lab.html#download-the-cf-cli:3976528693a0108357f4928017600865)
 Login to Pivotal Cloud Foundry with the `cf` CLI (lab.html#login-to-pivotal-cloud-foundry-with-the-cf-cli:3976528693a0108357f4928017600865)
 Pushing apps (lab.html#pushing-apps:3976528693a0108357f4928017600865)
 Questions (lab.html#questions:3976528693a0108357f4928017600865)
 Explore Apps Manager (lab.html#explore-apps-manager:3976528693a0108357f4928017600865)
 Clean up (lab.html#clean-up:3976528693a0108357f4928017600865)
Beyond the class (lab.html#beyond-the-class:3976528693a0108357f4928017600865)

Estimated Time: 25 minutes

Requirements

Lab Requirements (../requirements/lab.html)

What you will learn

- How to access Apps Manager
- How to install the `cf` CLI
- How to target a Pivotal Cloud Foundry instance with the `cf` CLI
- How to `cf push` apps

Exercises

Download the `cf` CLI

Endpoint and credential information for accessing Apps Manager will be provided by your instructor. Apps Manager is a web application that helps you manage your applications, but it is also the place to download the `cf` CLI. The next set of steps walk you through just that.








- 1) Review the Apps Manager Documentation (<http://docs.pivotal.io/pivotalcf/console/dev-console.html>). Knowing where to go for help is essential.
- 2) Login into Pivotal Cloud Foundry with the Apps Manager.

NOTE: It is common to use self signed certs in educational environments, but doing so will result in warnings from your browser. These warnings can safely be ignored (proceed through them).

- 3) Upon logging into Apps Manager for the first time you will be greeted with a welcome message that will walk you through the installation of the `cf` CLI.

Welcome to Pivotal Cloud Foundry


Step 1: Download and Install the CLI

 Windows 64 bit	 Mac OSX 64 bit	 Linux 64 bit (.deb)	 Linux 64 bit (.rpm)
 Windows 32 bit		 Linux 32 bit (.deb)	 Linux 32 bit (.rpm)

Step 2: Login to the CLI

```
$ cf login -a https://api.pcf11.fe.gopivotal.com
Email: droberts@pivotal.io
Password: *****
```

Step 3: Push your app

 [Getting Started with Pivotal Cloud Foundry](#)

If you do not see this dialog, the same information can be found under **Tools** (Left side).

4) Download and install (<http://docs.pivotal.io/pivotalcf/cf-cli/install-go-cli.html>) the `cf` CLI for your platform.

5) Open a terminal window. Explore the `cf` CLI. In the terminal window type `cf`. Review the commands available with the `cf` CLI. Help on a specific command can be found using the `--help` option (e.g. `cf login --help`).

```
$ cf
...
$ cf login --help
```

Login to Pivotal Cloud Foundry with the `cf` CLI

1) Continue to follow directions for logging in with the `cf` CLI. You can copy and paste the `cf login` command directly from Apps Manager.

```
$ cf login -a <substitute the API endpoint from Apps Manager>
```

NOTE: Are SSL errors preventing you from logging in? Try adding the `--skip-ssl-validation` option.

2) Review your current API endpoint, user, org, and space

```
$ cf target
```

What Just Happened?

You have logged into Pivotal Cloud Foundry from two different clients (Apps Manager and the `cf` CLI). You have installed the `cf` CLI and targeted a Pivotal Cloud Foundry instance. You are ready to push apps.

Pushing apps

Next we will push (deploy) several applications.

1) Download the demo applications (<https://content.staging.enablement.pivotal.io/demo-apps/demo-apps.zip>). Copy the file to folder: `~/pcf-developer-workshop` (`~` is shorthand for the home directory in Linux, Mac and Unix based operating systems). You will need to create this directory in your home (https://en.wikipedia.org/wiki/Home_directory) directory.

2) Extract the zip file to `~/pcf-developer-workshop/demo-apps`.

The zip file contains four directories; each directory contains an application developed in a different language.

3) Open a terminal window and push the `node` application

```
$ cd ~/pcf-developer-workshop/demo-apps/node  
$ cf push node --random-route -m 128M
```

4) View the `node` application in your browser or use `curl`. The url can be obtained from the `cf push` output or by issuing the command `cf apps`.

Example:

```
$ curl node-northeasterly-zygoma.cfapps.io  
Hello Node
```

5) Repeat steps 3 - 4 for the `php`, `python`, and `ruby` applications.

NOTE: Make sure you `cd` into each directory before pushing.

What Just Happened?

You just deployed four applications each based on a different language and runtime. Pivotal Cloud Foundry is a polyglot platform, meaning it supports multiple languages and does so in a pluggable way (via buildpacks)!

Questions

- What are some common items in the output that occurred when pushing each application?

Explore Apps Manager

1) Review the following views:

- Org

- Space
- App

What Just Happened?

You have interfaced with Pivotal Cloud Foundry from two separate clients (`cf` and Apps Manager). Many of the operations that are available in `cf` CLI are also available in Apps Manager.

Clean up

1) Delete the applications you just pushed.

This is very important for resource constrained environments.

```
$ cf delete node
```

Repeat for `php` , `python` , and `ruby` applications.

Beyond the class

Check out the Cloud Foundry sample applications (<https://github.com/cloudfoundry-samples>).

Spring Music (<https://github.com/cloudfoundry-samples/spring-music>) is a favorite.

[Back to TOP \(lab.html#\)](#)

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