Cloud Foundry & Cloud-Native Architecture Workshop Prerequisites

Reference Information

Please use the following reference information as appropriate throughout the rest of this document:

If credentials haven't been setup, use username as "testuser" and password as "testpassword"

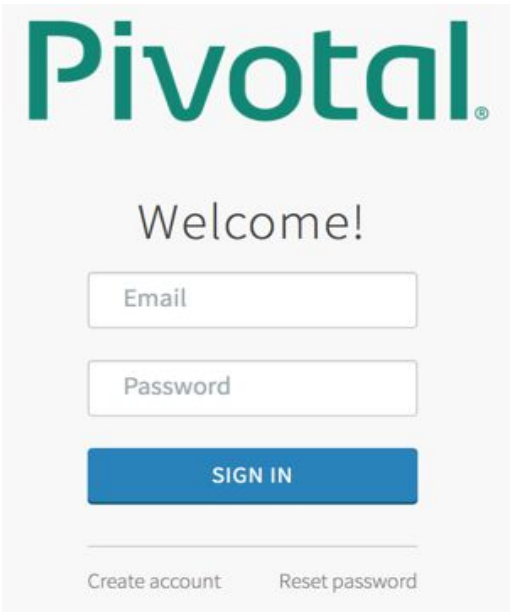
Key	Value
CF Username	<your e-mail address>
CF Password	password (literally, the word "password" is the password)
CF Apps Manager URL	https://login.run.haas-64.pez.pivotal.io
CF CLI Login Command	cf login --skip-ssl-validation -a https://api.run.haas-64.pez.pivotal.io
Workshop Contact	Vinay Upadhya <vupadhya@pivotal.io>

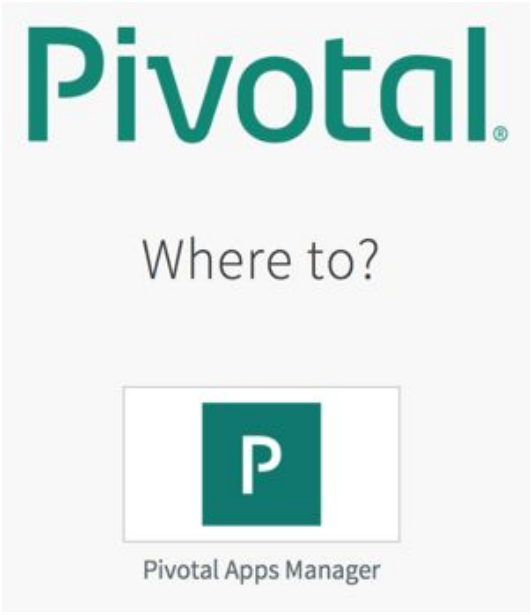
Cloud Foundry Connectivity Verification

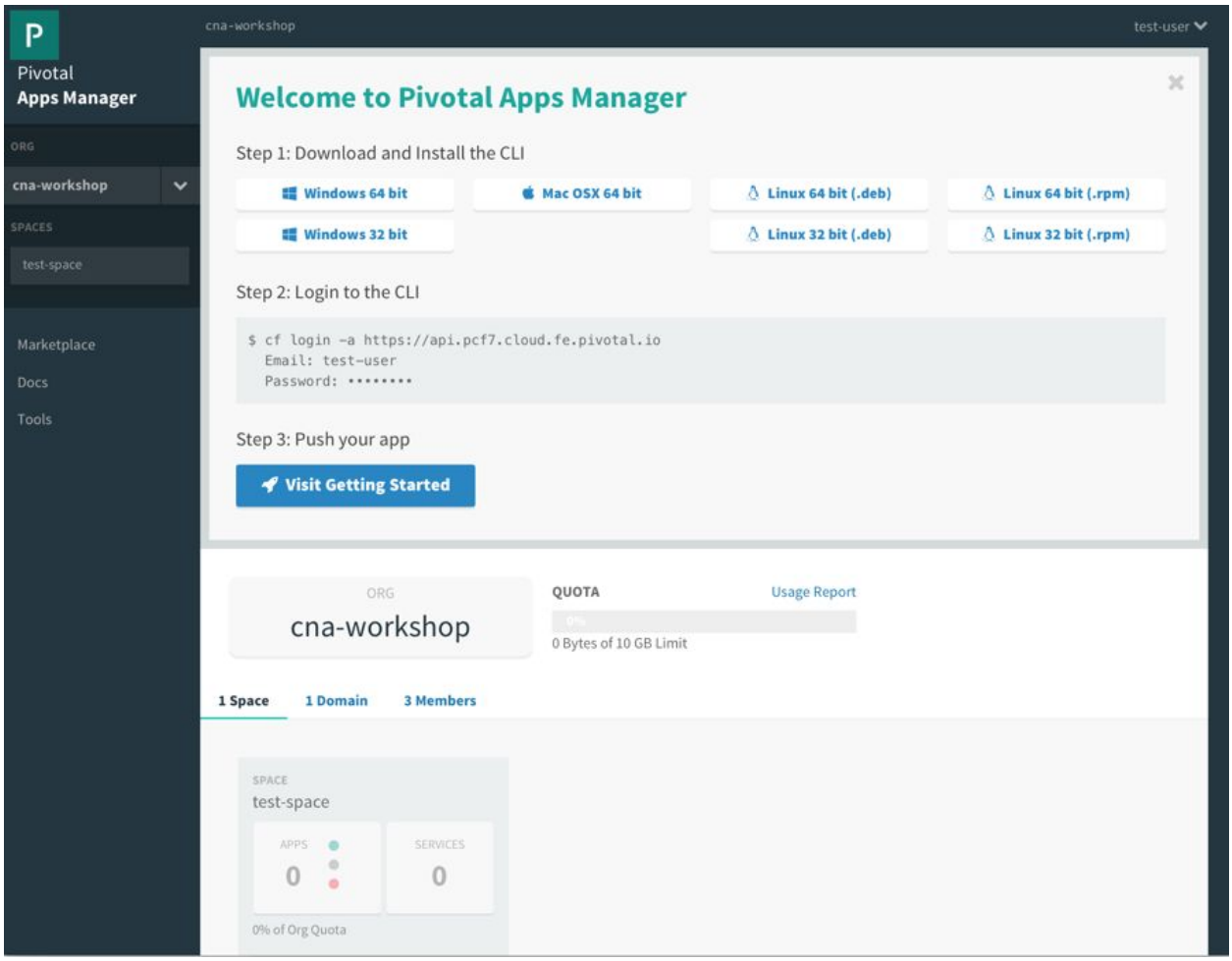
1. Log in to **Apps Manager**, the Cloud Foundry Developer UI

   URL: *See "Reference Information" section*
   Username: *See "Reference Information" section*
   Password: *See "Reference Information" section*

   This environment uses self-signed certificates, so you'll need to trust the site.


Pivotal
Welcome!
Email
Password
SIGN IN
Create account
Reset password


Pivotal
Where to?
P
Pivotal Apps Manager


P
Pivotal
Apps Manager
ORG
cna-workshop
SPACES
test-space
Marketplace
Docs
Tools
cna-workshop
test-user
Welcome to Pivotal Apps Manager
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.pcf7.cloud.fe.pivotal.io
Email: test-user
Password: ••••••••
Step 3: Push your app
Visit Getting Started
ORG
cna-workshop
QUOTA
Usage Report
0 Bytes of 10 GB Limit
1 Space
1 Domain
3 Members
SPACE
test-space
APPS
0
SERVICES
0
0% of Org Quota

2. Download and install the Cloud Foundry command line interface (cf CLI). The link to the binary/installer is in the 'Welcome to Pivotal Apps Manager' frame or in the 'Tools' section of the UI
3. From a command/terminal window, test the CLI using 'cf --version' or 'cf --help'

```
○ → cf --version
cf version 6.19.0+b29b4e0-2016-06-08
```

4. Use the cf CLI to log in to Cloud Foundry

   Command: *See "Reference Information" section*

   Credentials: *See "Reference Information" section (same as those used above)*

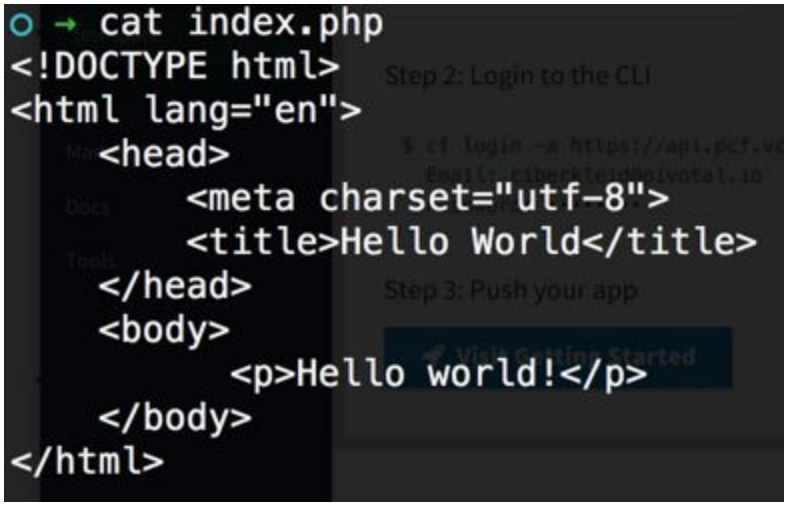
```
○ → cf login --skip-ssl-validation -a https://api.pcf7.cloud.fe.pivotal.io
API endpoint: https://api.pcf7.cloud.fe.pivotal.io

Email> test-user

Password>
Authenticating...
OK

Targeted org cna-workshop

Targeted space test-space



API endpoint:   https://api.pcf7.cloud.fe.pivotal.io (API version: 2.54.0)
User:           test-user
Org:            cna-workshop
Space:          test-space
```

   Note that you are targeting the same org (e.g. cna-workshop{-#}) and space (e.g. test-space) as you see through Apps Manager. The cf CLI and Apps Manager are two clients to the same instance of Cloud Foundry.

Cloud Foundry Test Application Deployment

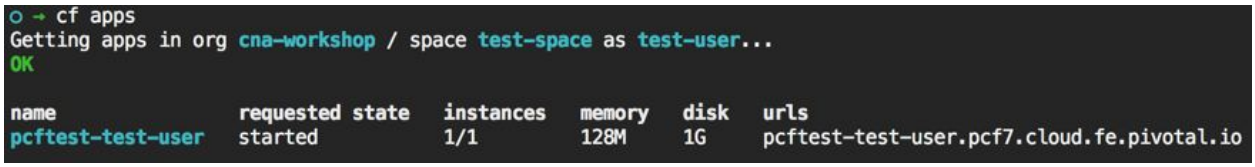
1. Create a new and empty directory on your computer. In it, create a file called index.php with the following content:

```
<!DOCTYPE html>
<html lang="en">
   <head>
      <meta charset="utf-8">
      <title>Hello World</title>
   </head>
   <body>
       <p>Hello world!</p>
   </body>
</html>
```

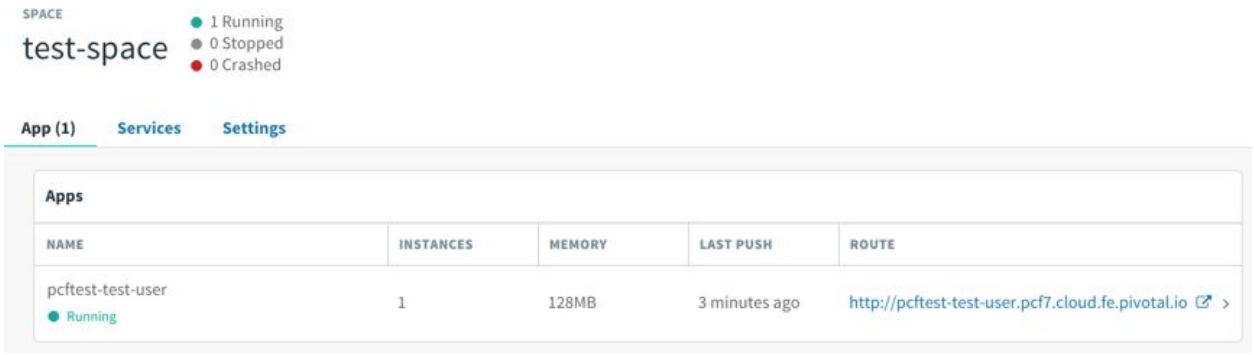


2. From the same directory, type 'cf push pcftest-*<your name>* -m 128M'

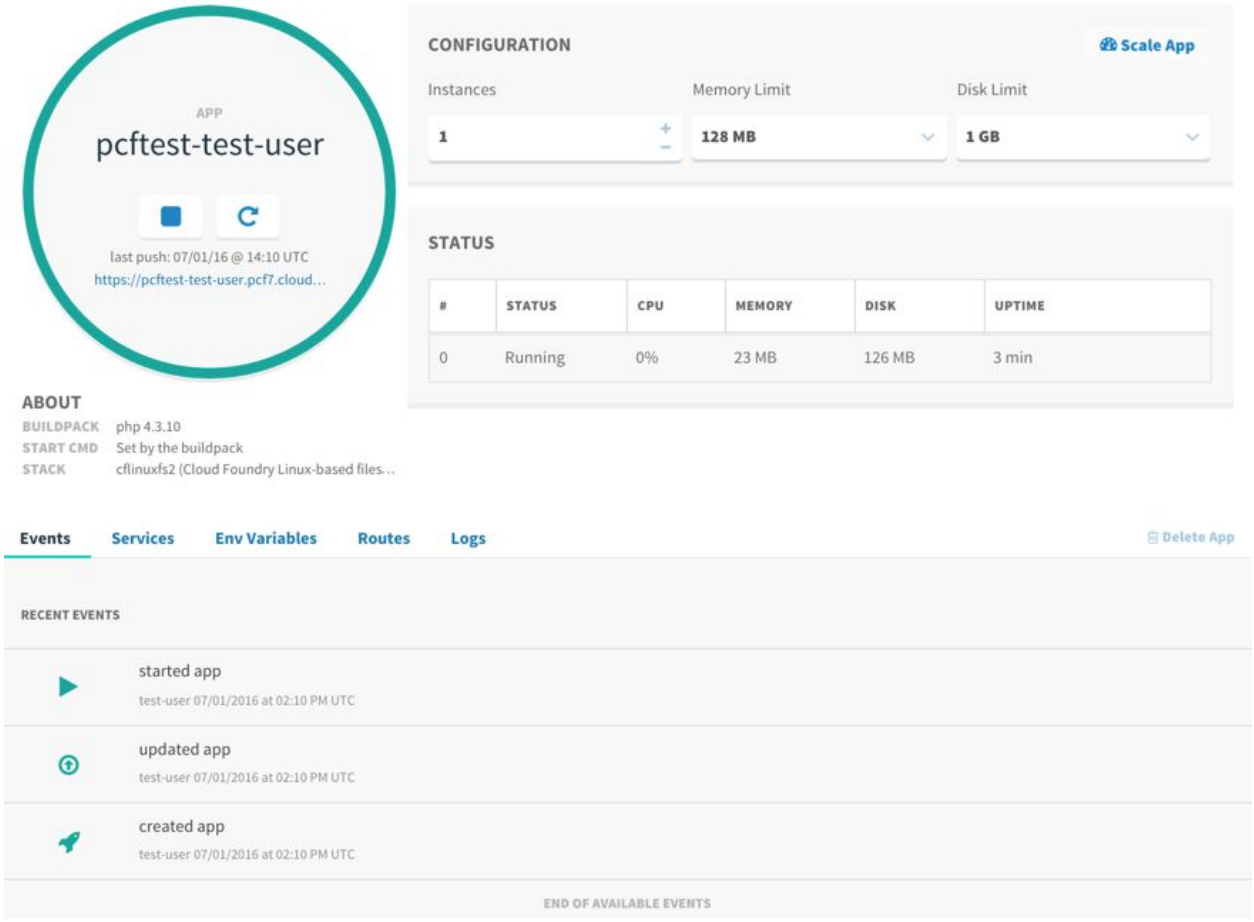
3. Note the output of the push command: 'cf push' will upload your PHP application to Cloud Foundry, which will stage and start your app. When the command completes, type 'cf apps' to get a snapshot of the state of all of the apps in the space 'test-space':



4. Return to the Apps Manager UI. Click on 'test'-space' and verify that you see your app deployed.



5. Click on the name of the app or the arrow (**>**) on the right of the route to see detailed information about your app.



6. Click on the link to your app and verify that your app is working as expected

7. Congrats! You've pushed your first app to Cloud Foundry! If you make changes to your HTML test app, simply push the app again using the CLI. Your changes will be uploaded and your app will be automatically updated and restarted.

Local Machine Setup

Required

1. 4GB Memory
2. Installation of JDK 1.8
3. Installation of Maven
4. Installation and experience with git and
5. Github Account
6. Installation of curl
7. Installation of cf

Optional (but recommended)

1. And IDE (e.g. SpringSource Tool Suite, Eclipse, IntelliJ...)
2. Json Formatter