

# Pivotal Cloud Foundry Tutorial - Deploy Spring Boot Application Hello World Example

Step 1: Copy paste- employee-producer.zip to your working folder



employee-producer.zip

Step 2: check whether your Maven installation is successful in your local machine or not.

```
mvn-version
```

Step 3: goto root directory of Employee-Producer

```
C:\Users\swarnalathad\practice\employee-producer>c
```

Step 4: to create a jar file run the below command

**Mvn package**

After running this command you could see the below screenshot where **employee-producer.0.0.1.SNAPSHOT.jar** file got created.

```
Command Prompt

26-06-2019 15:47 <DIR> ..
03-04-2017 00:05 1,258 .classpath
02-04-2017 23:59 569 .project
03-04-2017 00:16 <DIR> .settings
03-04-2017 00:00 1,402 pom.xml
03-04-2017 00:16 <DIR> src
26-06-2019 16:07 <DIR> target
3 File(s) 3,229 bytes
5 Dir(s) 10,041,638,912 bytes free

C:\Users\swarnalathad\practice\employee-producer>cd target
C:\Users\swarnalathad\practice\employee-producer\target>dir
Volume in drive C has no label.
Volume Serial Number is CEBD-7C65

Directory of C:\Users\swarnalathad\practice\employee-producer\target

26-06-2019 16:07 <DIR> .
26-06-2019 16:07 <DIR> ..
03-04-2017 00:16 <DIR> classes
26-06-2019 16:07 14,177,066 employee-producer-0.0.1-SNAPSHOT.jar
26-06-2019 16:07 4,397 employee-producer-0.0.1-SNAPSHOT.jar.original
26-06-2019 16:07 <DIR> generated-sources
26-06-2019 16:07 <DIR> maven-archiver
26-06-2019 16:07 <DIR> maven-status
02-04-2017 23:59 <DIR> test-classes
```

- Step 5:- use the following command

- `cf login`

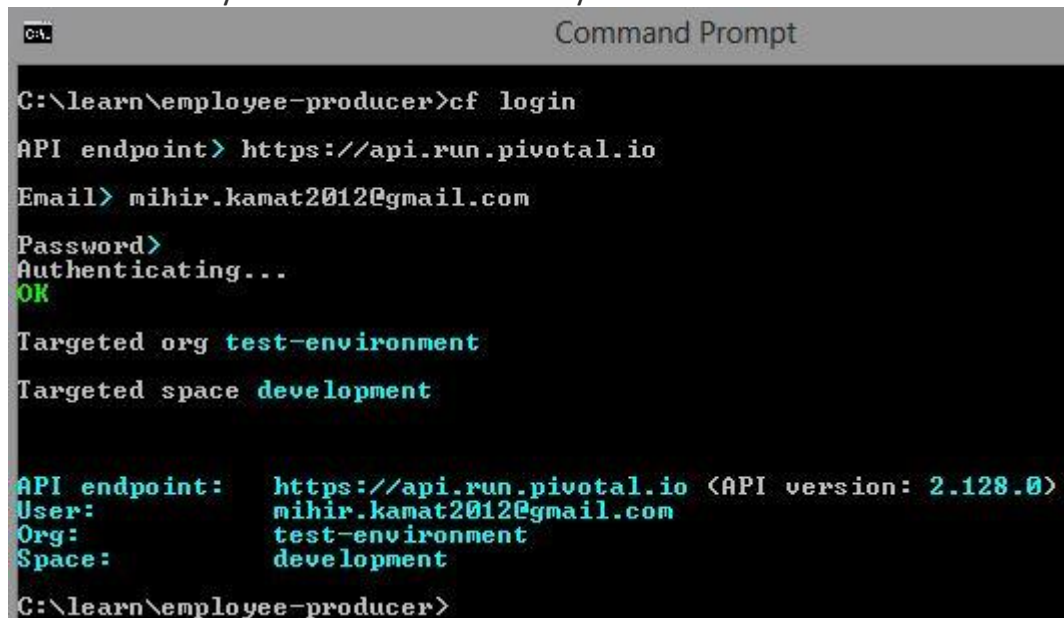
```
C:\learn\employee-producer>cf login
API endpoint>
```

- It will ask for Cloud Foundry API. Enter The following API value-

- `https://api.run.pivotal.io`

```
C:\learn\employee-producer>cf login
API endpoint> https://api.run.pivotal.io
```

- Next it will ask you for the Cloud Foundry credentials



```
Command Prompt

C:\learn\employee-producer>cf login
API endpoint> https://api.run.pivotal.io
Email> mihir.kamat2012@gmail.com
Password>
Authenticated...
OK
Targeted org test-environment
Targeted space development

API endpoint: https://api.run.pivotal.io (API version: 2.128.0)
User: mihir.kamat2012@gmail.com
Org: test-environment
Space: development
C:\learn\employee-producer>
```

- Go to the project root location and using the following command push the employee-producer jar file to PCF for deployment

- `cf push test-environment -p target\employee-producer-0.0.1-SNAPSHOT.jar`

```

C:\learn\employee-producer>cf push test-environment -p target\employee-producer-0.0.1-SNAPSHOT.jar
Pushing app test-environment to org test-environment / space development as mihi.kamat2012@gmail.com...
Getting app info...
Creating app with these attributes...
+ name: test-environment
  path: C:\learn\employee-producer\target\employee-producer-0.0.1-SNAPSHOT.jar
  routes:
+ test-environment.cfapps.io

Creating app test-environment...
Mapping routes...
Comparing local files to remote cache...
Packaging files to upload...
Uploading files...
315.88 KiB / 315.88 KiB [=====] 100.00% 2s

Waiting for API to complete processing files...

Staging app and tracing logs...
  Downloading dotnet_core_buildpack_beta...
  Downloading staticfile_buildpack...
  Downloading dotnet_core_buildpack...
  Downloading nodejs_buildpack...
  Downloading go_buildpack...
  Downloaded dotnet_core_buildpack_beta
  Downloading python_buildpack...
  Downloaded nodejs_buildpack
  Downloading php_buildpack...
  Downloaded staticfile_buildpack
  Downloading binary_buildpack...
  Downloaded dotnet_core_buildpack
  Downloading ruby_buildpack...
  Downloaded python_buildpack
  Downloading java_buildpack...
  Downloaded go_buildpack
  Downloaded binary_buildpack
  Downloaded php_buildpack
  Downloaded ruby_buildpack
  Downloaded java_buildpack
  Cell 6d545859-b729-4434-8158-8d0ae0e3dd0a creating container for instance 74e546e0-ae68-4ca0-9e58-89305ef754da
  Cell 6d545859-b729-4434-8158-8d0ae0e3dd0a successfully created container for instance 74e546e0-ae68-4ca0-9e58-89305ef754da
  Downloading app package...
  Downloaded app package (12.1M)

```

- We have pushed the spring boot jar file to PCF and deploy it for us. If we now go to the PWS web console, we will see that there is one application running in our development space.

Pivotal Web Services

Home / test-environment

ORG test-environment QUOTA 1 GB / 2 GB [Increase Quota](#) 50%

Space (1) Domains (3) Member (1) Settings

Spaces

Name	Apps	App Status	Ser
development	1	1 0 0	0

- Select the application and we will be taken to another page which has the route on which this application has been deployed.

Home / test-environment / development

SPACE

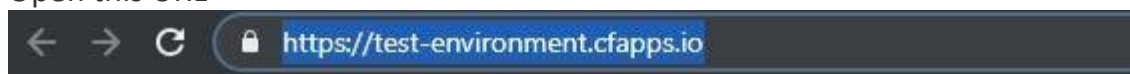
development ● 1 ● 0 ● 0

App (1) Services Route (1) Member (1) Settings

Apps

Status	Name	Instances	Memory	Last Push	Route
● Running	test-environment	1	1 GB	2 minutes ago	<a href="https://test-environment.cfapps.io">https://test-environment.cfapps.io</a>

- Open this URL-



## Whitelabel Error Page

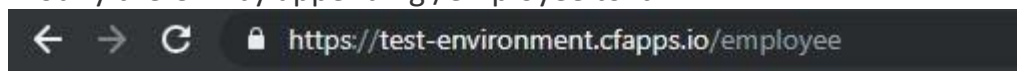
This application has no explicit mapping for /error, so you are seeing this as a fallback.

Sun Jan 06 07:41:36 UTC 2019

There was an unexpected error (type=Not Found, status=404).

No message available

Modify the URL by appending /employee to it.



```
{"empId":"1","name":"emp1","designation":"manager","salary":3000.0}
```