Lab 1: Push an Application

Description: During this lab we will push an application, customize our push and review the files generated during the pushing process.

1. Change to the Sample Apps directory. We will push a Java application called PCFDemo. The application shows a map of the United States and incoming orders received by state. You can select any state to see the orders as they are received.

During this first installation we will see how easy it is to push applications to Cloud Foundry. The command below pushes an application named map-userX, where x is your user number, using the path to your executable and creates 2 load balance instances of your application.

*cf push map-userX –p pcfdemo-us.war –i 2*

Open a web browser and visit http://map-userX.cfdemo5.fe.gopivotal.com

* otice the IP address displayed at the top, this is the IP address of the container serving your instance.
* Verify the RabbitMQ service is not bound to the application. We’ll complete this in the next lab.

1. Another option when pushing an application is to provide the buildpack to use. This provides customization of buildpacks for developers and it can be specified during the deployment process.

*cf push map-userX –p pcfdemo-us.war –b tcServer\_buildpack\_offline –i 2*

1. When an application is pushed, a number of steps are completed and we want to see what the platform has configured. This can easily be done using the Files command. Let’s review what the files command can do.

The first step is to list all the files associated with our application.

*cf files map-userX*

Next we can get more granular to look at specific files. For example, let’s review the environment variables in our container. We can see 2 special variables, VCAP\_APPLICATION which gives runtime information about our application and VCAP\_SERVICES which gives runtime information about the services bound to our application. You can review the assigned port and also assign your own environment variables when deploying.

*cf files map-userX log/env.log*

We can get insight on the buildpack process using the following command. This is for those that like to see under the covers.

*cf files map-userX app/.java-buildpack.log*

1. Now log into the Pivotal CF Web Console and let’s check the health, running instances, route and other details for the application we’ve pushed. Access http://console.cfdemo5.fe.gopivotal.com with your credentials.

You’ll need to select the same space you’ve first targeted your environment to.