Lab 2: Zero Downtime Deployments (blue-green deployments)

Description: During this lab we will push an application, then update it with a new version and manage the application routes for seamless upgrading without any downtime.

Note that commands are in *italics* and the X should be replaced with a unique number or participant’s initials.

1. Change to the odca-paas-worshop directory.

Push the PaaSTutorial application. The information for the app is captured in the manifest.yml file:  
  
 *---*

*applications:*

*- name: PaaSTutorial*

*memory: 256M*

*services:*

*- ocdadb*

and the instructions for how to package and start the node.js app are found within package.json:

*{*

*"name": "PaaS-Workshop",*

*"version": "0.0.1",*

*"author": "Wayne Lund",*

*"private": true,*

*"scripts": {*

*"start"* ***: "node Index.js****"*

*},*

*"dependencies" : {*

*"express": "3.3.4",*

*"mongodb":"1.3.23",*

*"jade": "1.1.5"*

*}*

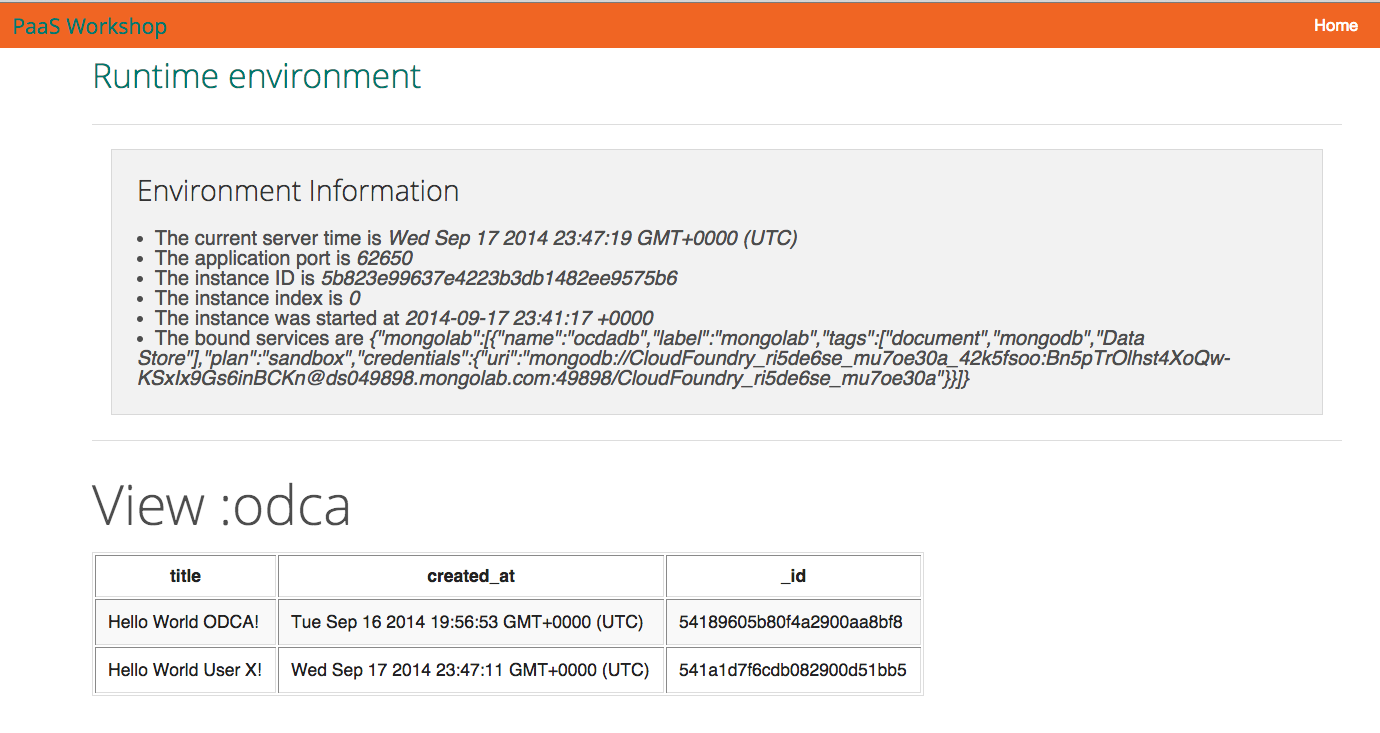
*}*

For that reason the push is as simple as the following line:

*cf push –i 2*

This will start the app with 2 instances of the application running.

Open a web browser and visit <http://paastutorial-userX.cfapps.io/> and you should see:



* Notice the port displayed at the top, this is the port from the application that is serving your customer.
* Also notice the mongo service is bound to the application. We’ll complete this in the next lab.
* You can populate the date with the curl command:  
    
  *curl -H "Content-Type: application/json" -X POST -d '{"title":"Hello World  ODCA!"}'* [*http://paastutorial.cfapps.io/collections/odca*](http://ocda.cfapps.io/collections/odca)

Passing in the db name of your choice.

1. Confirming scale worked as expected.

This is a simple app so the simplest way to confirm that you are running against to express instances is to refresh the home page multiple times and notice whether the port number is changing. You should observer a fairly random alternation between the two ports assigned to the express application.