

# Lab 4 - Use MFP CLI to register and manage your application

The MobileFirst platform provide a web console that allow you to easily view and manage your application instances, platforms and versions, managing your application requires an application registration, registering your application will also allow you to securely connect to the MobileFirst server and will enable you to use the adapter framework and analytics capabilities of the MFP server.

## Steps

1. Open the **IBMEmployeeApp** project using your favorite IDE. You are going to copy some code from `snippets/lab4.js` file to the `app.js` file in your MobileFirst project.

Note: You may use any IDE you like to perform the labs. The examples shown use the Brackets IDE.

2. Open the `app.js` file in the folder `IBMEmployeeApp/www/js` locate the `wlCommonInit()` function and add the following code immediately after the last line of the code inside

```
75 ▼ function wlCommonInit() {  
76     console.log(">> wlCommonInit() ..." );  
77 ▼   var serverUrl = WL.App.getServerUrl(function(success){  
78       console.log(success);  
79 ▼   }, function(fail){  
80       console.log(fail);  
81   })  
82   }
```

```
//Calling to the MobileFirst Server  
WLAuthorizationManager.obtainAccessToken().then(  
    function (accessToken) {  
        console.log(">> Success - Connected to MobileFirst Server");  
    },  
    function (error) {  
        console.log(">> Failed to connect to MobileFirst Server");  
    }  
);
```

Your code should look like this:

```
75 ▼ function wlCommonInit() {
76     console.log(">> wlCommonInit() ..." );
77 ▼   var serverUrl = WL.App.getServerUrl(function(success){
78       console.log(success);
79 ▼   }, function(fail){
80       console.log(fail);
81   });
82
83   //Calling to the MobileFirst Server
84   WLAutorizationManager.obtainAccessToken().then(
85 ▼       function (accessToken) {
86           console.log(">> Success - Connected to MobileFirst Server");
87       },
88 ▼       function (error) {
89           console.log(">> Failed to connect to MobileFirst Server");
90       }
91   );
92
93
94   };
95
```

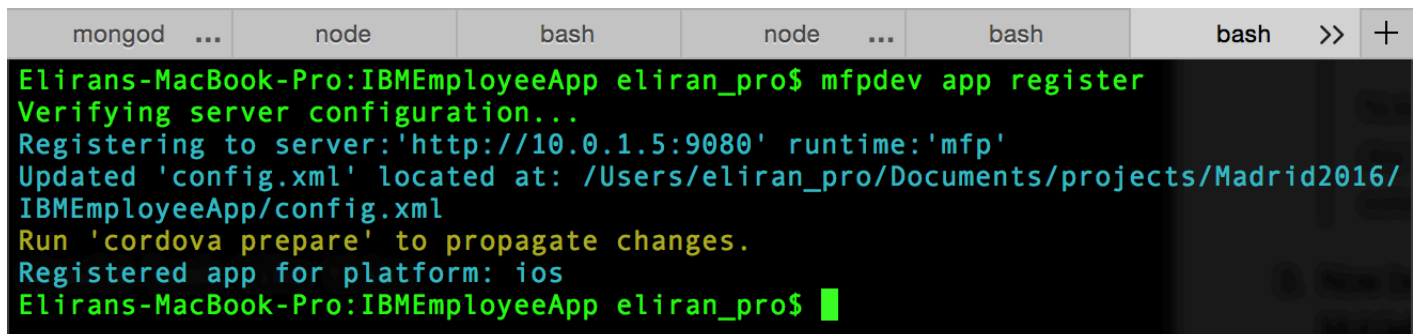
Note: That we are the **WLAutorizationManager.obtainAccessToken()** method the btains an access token for the specified resource scope from the MobileFirst authorization server.

**WLAutorizationManager** class is instantiated as a singleton and can be used anywhere in the application to obtain the client ID and authorization header. It is also called internally to handle MobileFirst OAuth-based security model protocol.

Note: That **WLAutorizationManager.obtainAccessToken()** method replace the deprecated **WL.Client.connect()** method that been used in earlier version of MFP to establishes a connection to the MobileFirst

3. Now before we can preview the application we need to register the application with the MobileFirst Server, **Run** the following command

```
mfpdev app register
```



```
mongod ... node bash node ... bash bash >> +
Elians-MacBook-Pro:IBMEmployeeApp eliran_pro$ mfpdev app register
Verifying server configuration...
Registering to server:'http://10.0.1.5:9080' runtime:'mfp'
Updated 'config.xml' located at: /Users/eliran_pro/Documents/projects/Madrid2016/
IBMEmployeeApp/config.xml
Run 'cordova prepare' to propagate changes.
Registered app for platform: ios
Elians-MacBook-Pro:IBMEmployeeApp eliran_pro$
```

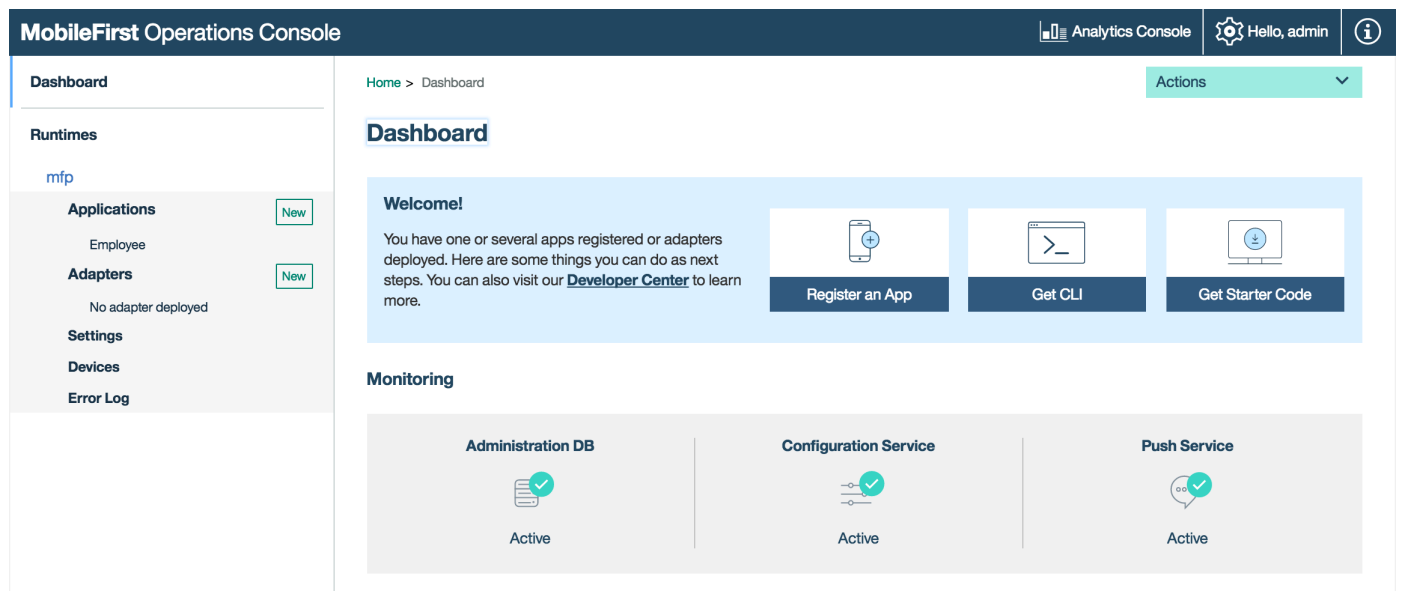
4. The Operations Console is a browser-based interface through which you can manage artifacts deployed

to your server. View the **Operations Console** by running

```
mfpdev server console
```

```
Elirans-MacBook-Pro:IBMEmployeeApp eliran_pro$ mfpdev server console
Opening console for server 'mydevserver'
Elirans-MacBook-Pro:IBMEmployeeApp eliran_pro$
```

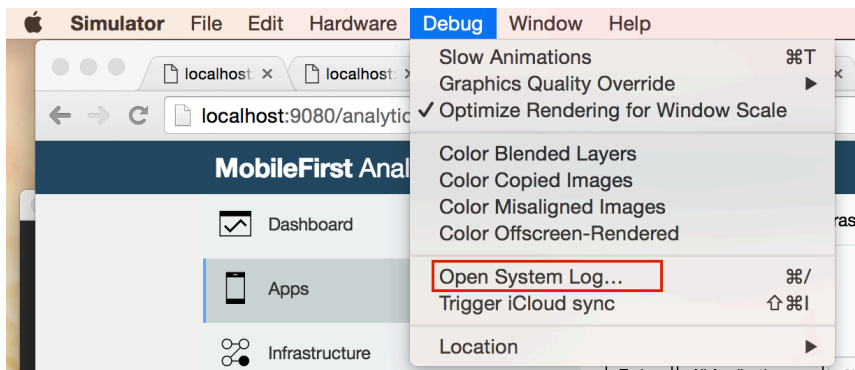
The MobileFirst Operations Console will start in your default browser, you can see the application 'Employee' under the "Application" list on the dashboard left side.



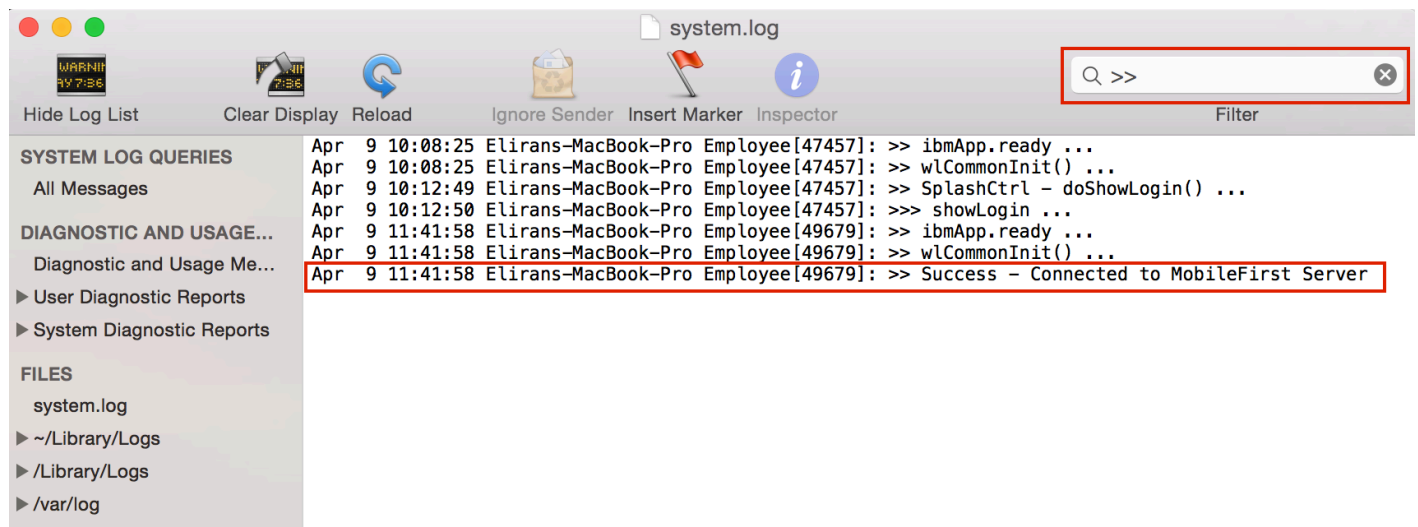
5. Use the cordova emulate command to preview the application on the emulator.

```
cordova emulate
```

6. Let's take a look at the console logs, while the iOS simulator is selected press the Simulator's debug menu and select the "Open console logs option"

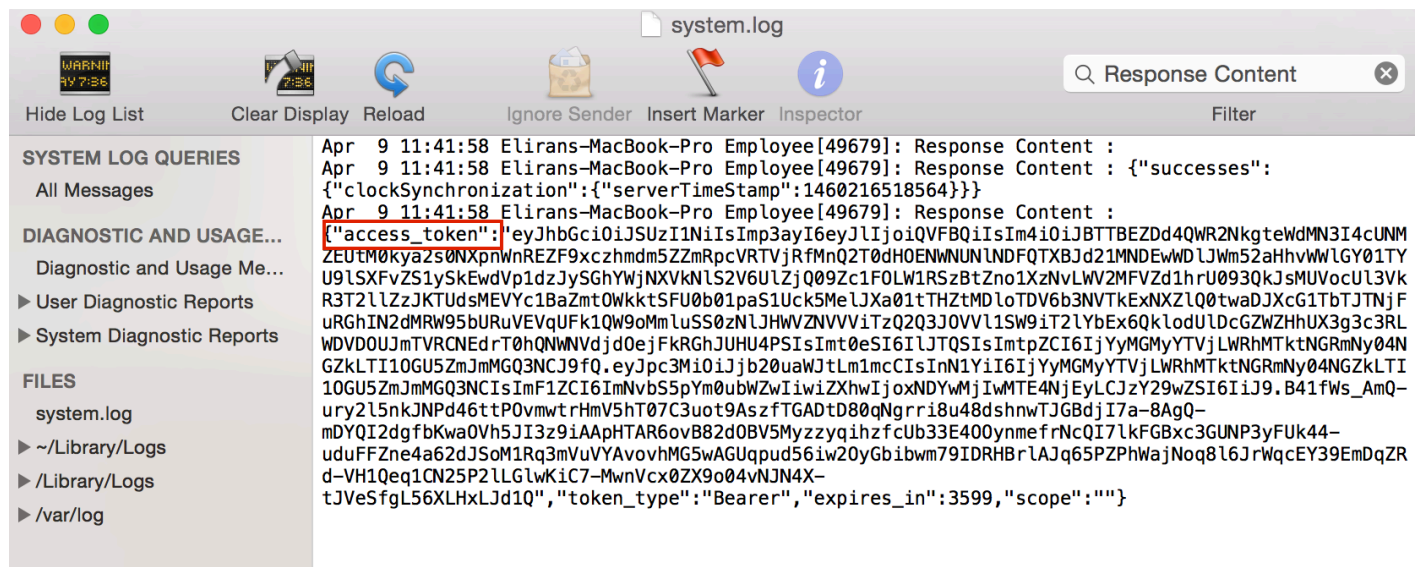


Then in the search box on the top right corner enter ">>" you should be able to see the connection success message



As you can see the application was successfully connected to the MFP server.

7. Delete the ">>" and enter "Response Content" you will see that the server responded with "access\_token"



8. Close the simulator and go back to the web console, lets take a look at the built-in management capabilities of the platform, you can also enter the following url in your browser

**<http://localhost:9080/mfpconsole/index.html#/dashboard>**

9. **Press** on the "Employee" application under the "Application" menu on the left side, you will see the Employee Management feature.

MobileFirst Operations Console

Analytics Console

Hello, admin

Back

mfp

Applications

Employee

Platform

▼ iOS

0.0.1

Push

Settings

New

Home > mfp > Employee > iOS 0.0.1

Actions

Employee

iOS v 0.0.1 | com.ionicframework.libmememployeeapp420875

Management

Authenticity

Security

Log Filters

Configuration Files

Last modified: Apr 9, 2016, 11:29 AM

Application Access

Status: \*

● Active

○ Active and Notifying

○ Access Disabled

Direct Update

Deliver an update to a Cordova cross-platform application by uploading a new web resources (HTML, JavaScript, and CSS) archive.

No Web resources deployed

Upload Web Resources File

10. Select "Access Disable" option

11. In the "URL of latest version" input filed simply enter "http://www.cnn.com"

12. In the "Default notification message\*" enter "Application disabled, please download latest version"

## Application Access

Status: \*

☐ Active
 ☐ Active and Notifying
 ☒ Access Disabled

## URL of latest version

http://www.cnn.com



Specify a URL for the new version of the application (in the appropriate public or private app store).

## Default notification message \*

Application disabled, please download latest

The message that the user receives when opening the application.

## Supported locales:

Add locales so that notification text appears in additional languages.

No locale supported

Update Locales

Save

Cancel

13. Press the "Save button"



The 'com.ionicframework.ibmemployeeapp420875' application version 0.0.1 in iOS is disabled.



**Management**

Authenticity

Security

Log Filters

Configuration Files

**Last modified:** Apr 9, 2016, 11:29 AM

**Application Access**

**Status:** \*

☐ Active ☐ Active and Notifying ☒ Access Disabled

**URL of latest version**

http://www.cnn.com

Specify a URL for the new version of the application (in the appropriate public or private app store).

**Default notification message \***

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The message that the user receives when opening the application.

**Supported locales:**

Add locales so that notification text appears in additional languages.

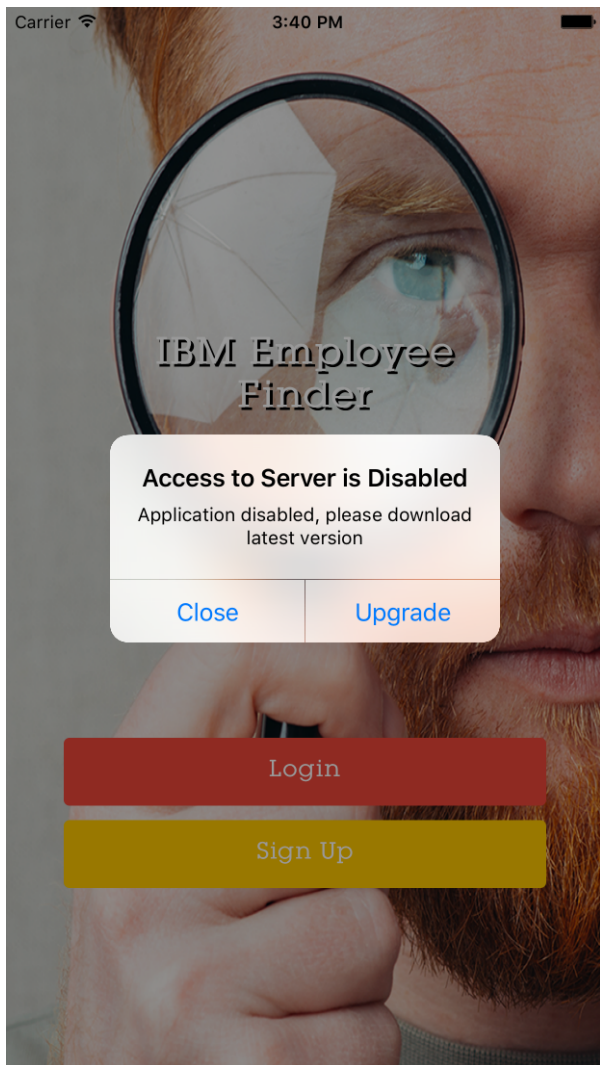
No locale supported

Update Locales

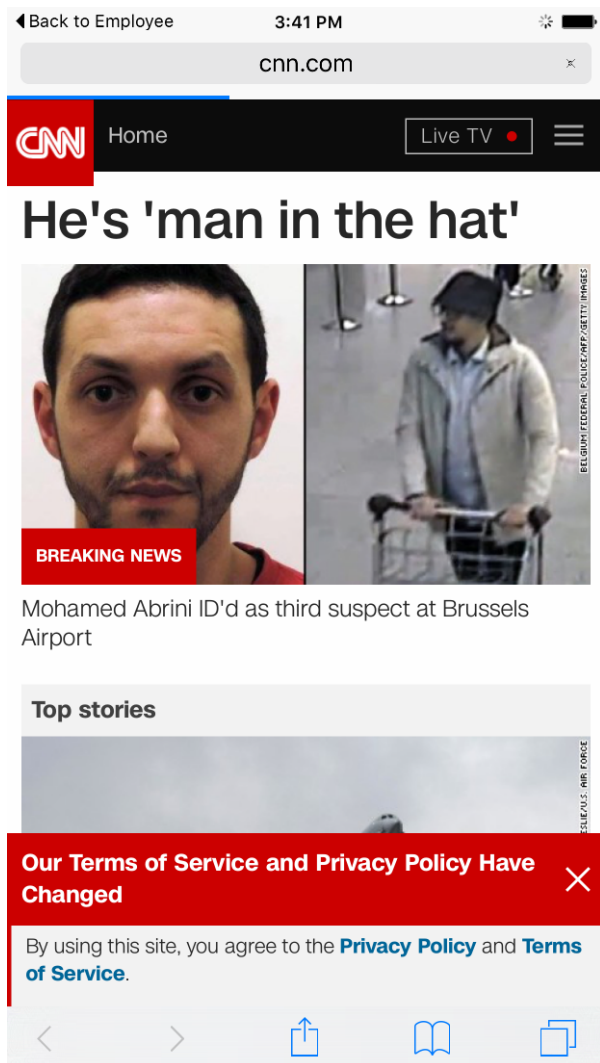
14. **Run** the application again using the cordova emulate command

```
cordova emulate
```

You should see the "Access disabled" notification when the application start.



15. **Press** the "Upgrade" button, you will see the browser on your phone open the cnn.com website.



## Summary

In this lab, you added javascript code to connect to the MobileFirst server when the application start, and used the built-in management features of the platform.

If you were unable to complete this lab, you can catch up by running this command:

```
git checkout -f step-4
```