

## Lab 4 - Register and Manage Application

The MobileFirst platform provides a web based console to easily view and manage application instances, platforms and versions. Managing an application requires an application registration. Registering an application will also enable secure connectivity to the MobileFirst server and will enable the use of the adapter framework and analytics capabilities of the MFP server.

### Steps

1. Open the **IBMEmployeeApp** project using a preferred IDE. Code snippets are available from the `snippets/lab4.js` file.
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   WLAuthorizationManager.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

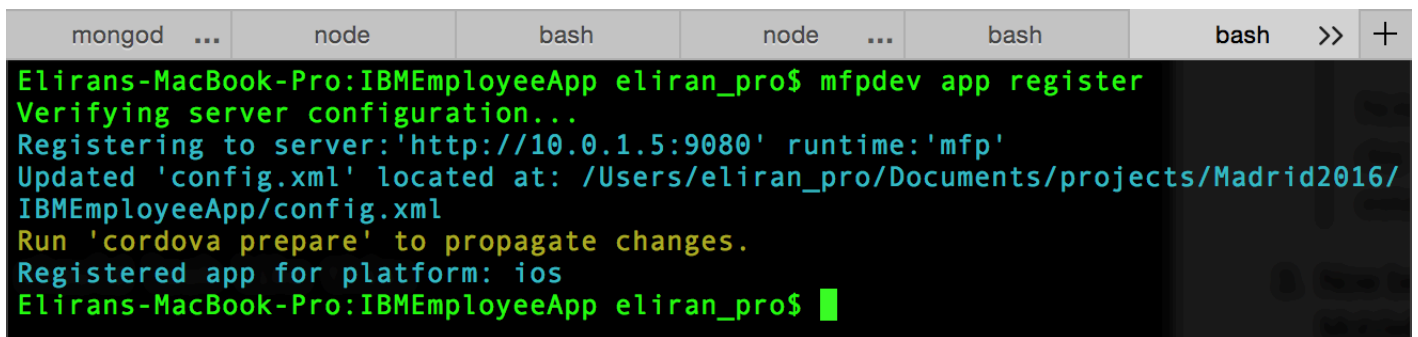
```

**Note:** That the `WLAuthorizationManager.obtainAccessToken()` method obtains an access token for the specified resource scope from the MobileFirst authorization server. The `WLAuthorizationManager` 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.

**Important:** That `WLAuthorizationManager.obtainAccessToken()` method replaces the deprecated `WL.Client.connect()` method that has been used in earlier version of MFP to establish a connection to the MobileFirst

3. Next register the application with the MobileFirst Server, **Run** the following command

```
mfpdev app register
```



```

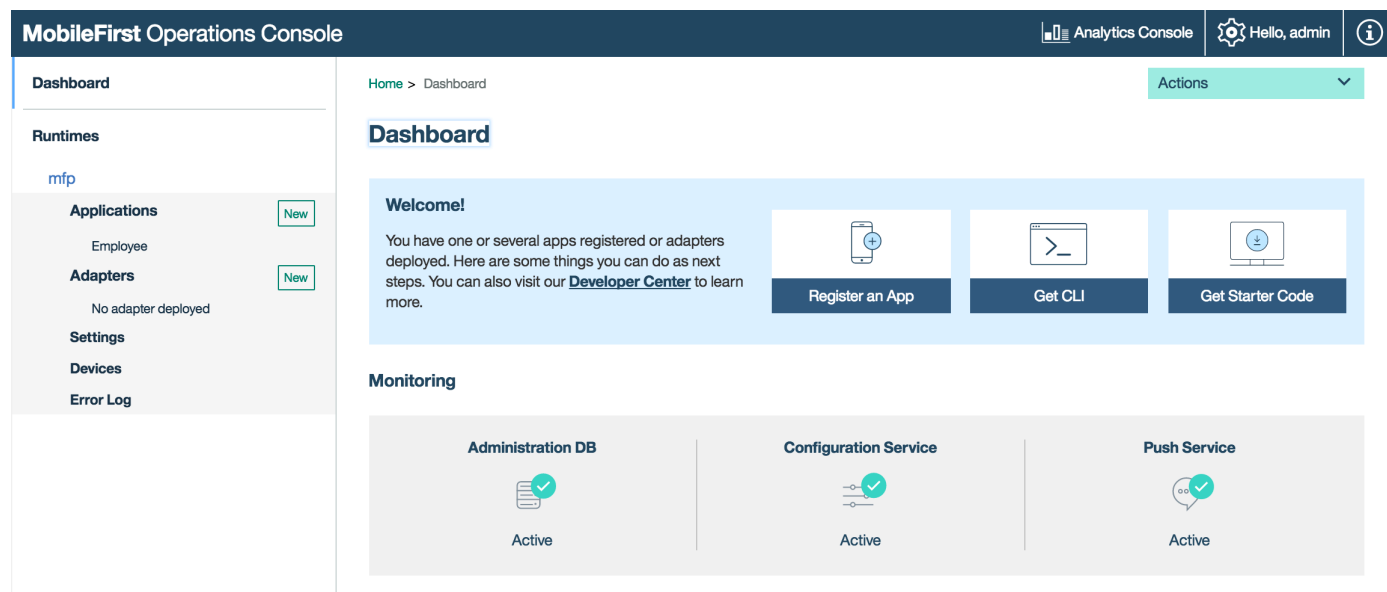
Elixir-MacBook-Pro:IBMEmployeeApp eliran_pro$ mfpdev app register
Verifying server configuration...
Registering to server:'http://10.0.1.5:9080' runtime:'mfp'
Updated 'config.xml' located at: /Users/eliran_pro/Documents/projects/Madrid2016/
IBMEmployeeApp/config.xml
Run 'cordova prepare' to propagate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

```

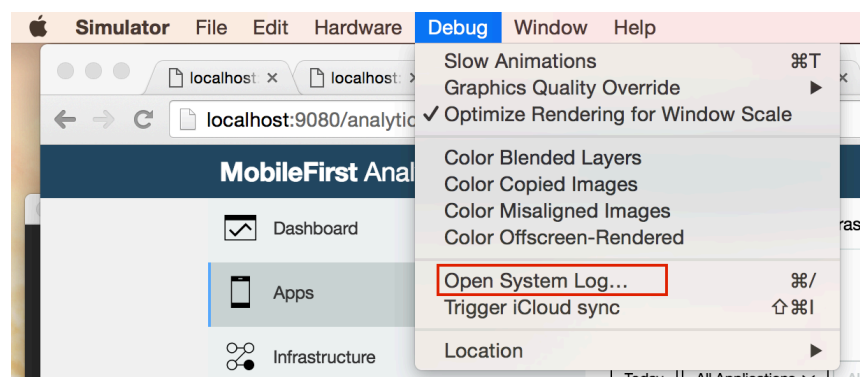
4. The Operations Console is a browser-based interface through which you can manage artifacts deployed to your server. View the **Operations Console** by running `mfpdev server console`

```
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. Check 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



MobileFirst Operations Console

Analytics Console Hello, admin

Home > mfp > Employee > iOS 0.0.1

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

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**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:**

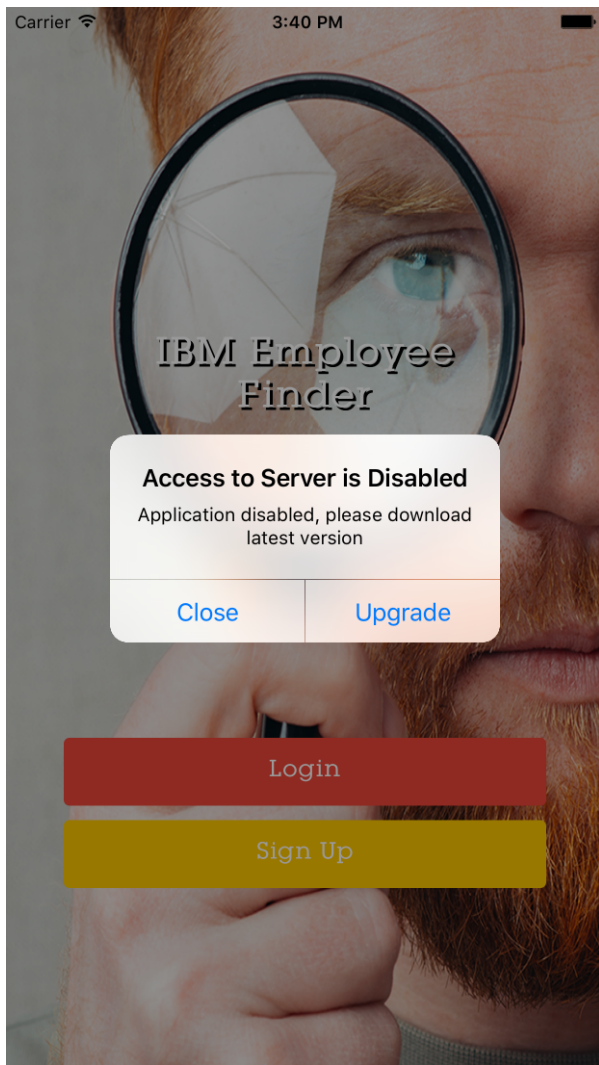
Add locales so that notification text appears in additional languages.

No locale supported

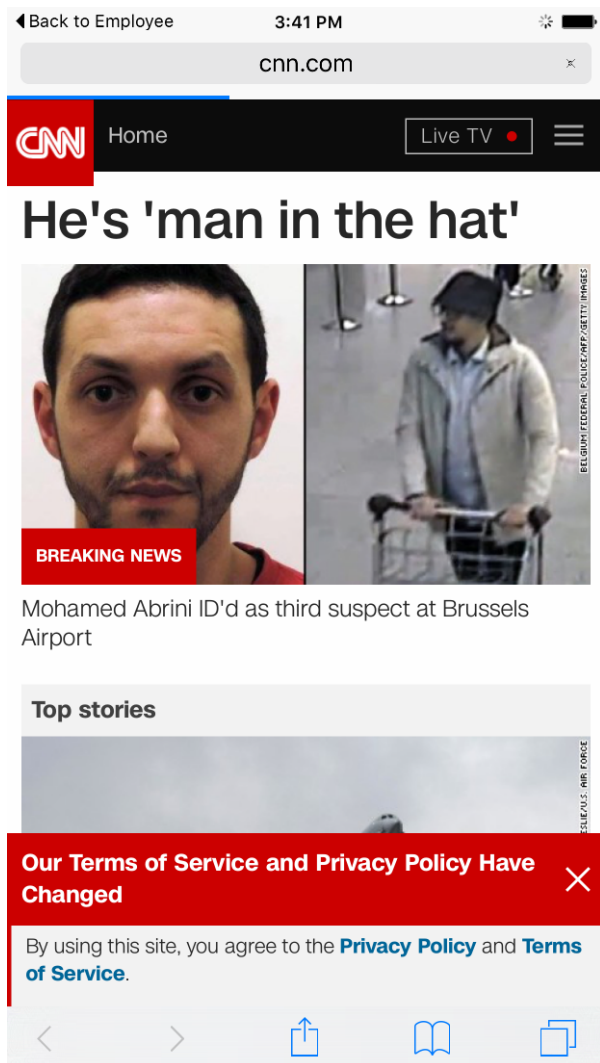
Update Locales

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

**Notice** the "Access disabled" notification when the application starts.



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
```