# iOS end-to-end demonstration

### **Overview**

The purpose of this demonstration is to experience an end-to-end flow where an application is quickly created using the MobileFirst Operations Console and connectivity is verified with the MobileFirst Server.

#### Prerequisites:

- Configured Xcode
- MobileFirst Developer CLI (download (file:////home/travis/build/MFPSamples/DevCenter/ site/downloads))
- Optional Stand-alone MobileFirst Server(download (file:////home/travis/build/MFPSamples/DevCenter/\_site/downloads))

### 1. Starting the MobileFirst Server

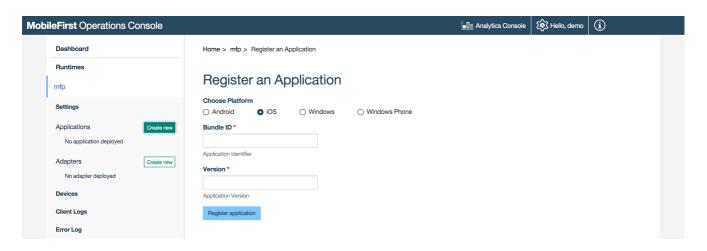
If a remote server was already set-up, skip this step.

1. From a Command-line window, navigate to the server's scripts folder and run the command: ./start.sh.

#### 2. Creating an application

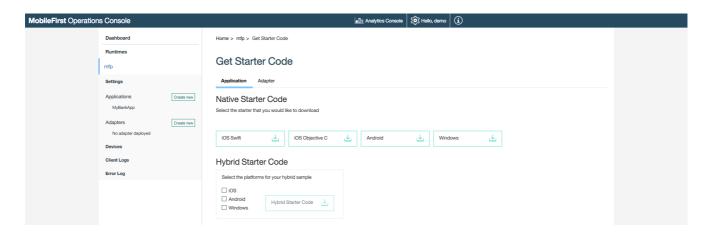
In a browser window, open the MobileFirst Operations Console by loading the URL: http://your-server-host:server-port/mfpconsole. If running locally, use: http://localhost:9080/mfpconsole (http://localhost:9080/mfpconsole). The username/password are admin/admin.

1. Click on the "Create new" button next to Applications and select the desired platform, identifier and version values.



2. Click on the Get Starter Code tile and select to download the iOS Starter Code.





### 3. Editing application logic

- 1. Open the Xcode project project.
- 2. Select the [project-root]/ViewController.m/swift file and:
- Add the following header:

In Objective-C:

```
#import <IBMMobileFirstPlatformFoundation/IBMMobileFirstPlatformFoundation.h>
```

In Swift:

```
import IBMMobileFirstPlatformFoundation
```

• Paste the following code snippet in the viewDidLoad function:

In Objective-C:

```
NSURL* url = [NSURL URLWithString:@"/adapters/javaAdapter/users/world"];
WLResourceRequest* request = [WLResourceRequest requestWithURL:url method:WLHttpMethodGet];

[request sendWithCompletionHandler:^(WLResponse *response, NSError *error) {
    if (error != nil){
        NSLog(@"Failure: %@",error.description);
    }
    else if (response != nill){
        NSLog(@"Success: %@",response.responseText);
    }
}];
```

In Swift:

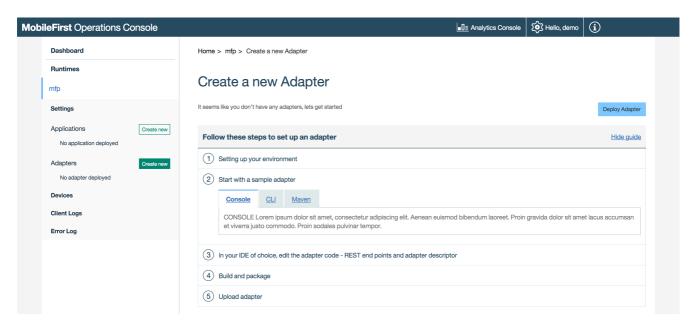
```
let url = NSURL(string: "/adapters/javaAdapter/users/world")
let request = WLResourceRequest(URL: url, method: WLHttpMethodGet)

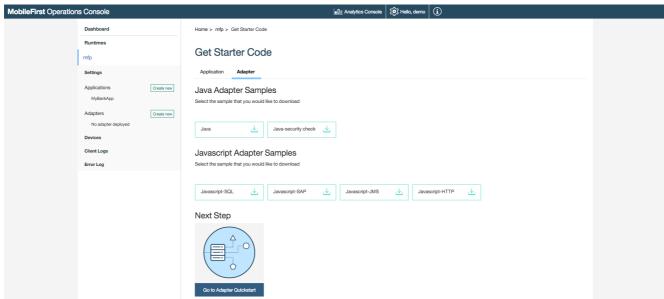
request.sendWithCompletionHandler { (WLResponse response, NSError error) -> Void in
    if (error != nil){
        NSLog("Failure: " + error.description)
    }
    else if (response != nil){
        NSLog("Success: " + response.responseText)
    }
}
```

### 4. Creating an adapter

1. Click on the "Create new" button next to Adapters and download the Java adapter sample.

If Maven and MobileFirst CLI are not installed, follow the on-screen **Setting up your environment** instructions to install.





2. From a Command-line window, navigate to the adapter's Maven project root folder and run the command:

mfpdev adapter build

3. When the build finishes, run the command:

mfpdev adapter deploy

If using a remote MobileFirst Server, run the command:

mfpdev adapter deploy Replace-with-remote-server-name

### 5. Testing the application

In Xcode, press the Play button.



Note: Xcode 7 enables Application Transport Security (ATS)

(https://developer.apple.com/library/ios/releasenotes/General/WhatsNewIniOS/Articles/iOS9.html#//apple\_ref/doc/uid/TP40016198-SW14) by default.

To complete the tutorial, disable ATS (http://iosdevtips.co/post/121756573323/ios-9-xcode-7-http-connect-server-error).

- 1. In Xcode, right-click the [project]/info.plist file → Open As → Source Code
- 2. Paste the following:

3. Press the Play button.

## **Next steps**

Learn more on using adapters in applications, and how to integrate additional services such as Push Notifications, using the MobileFirst security framework and more:

- Review the Server-side development tutorials (../../server-side-development/)
- Review the Authentication and security tutorials (../../authentication-and-security/)
- Review the Notifications tutorials (../../notifications/)
- Review All Tutorials (../../all-tutorials)