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

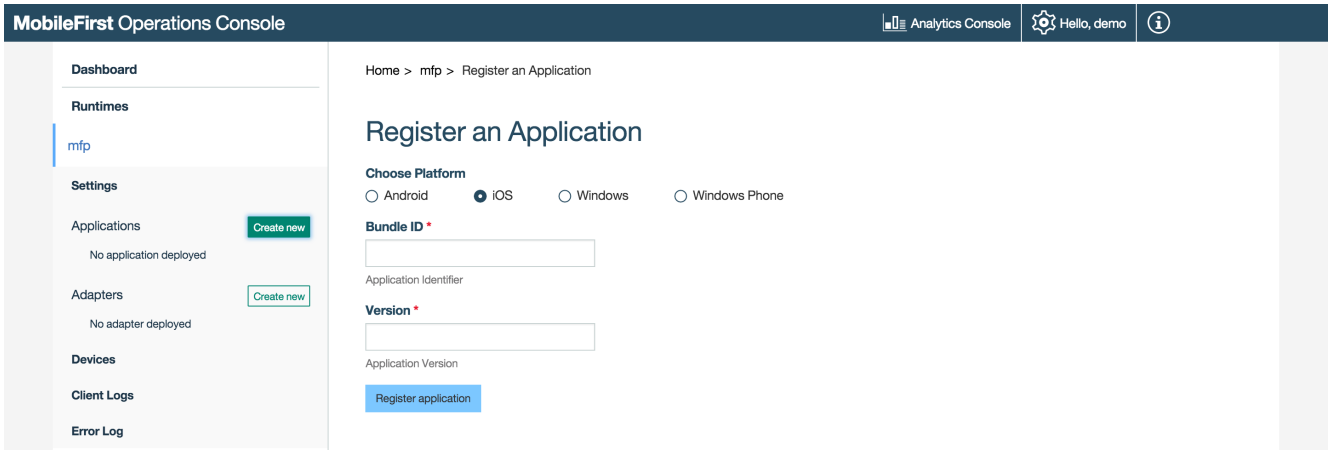
> If a remote server was already set-up, skip this step.

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

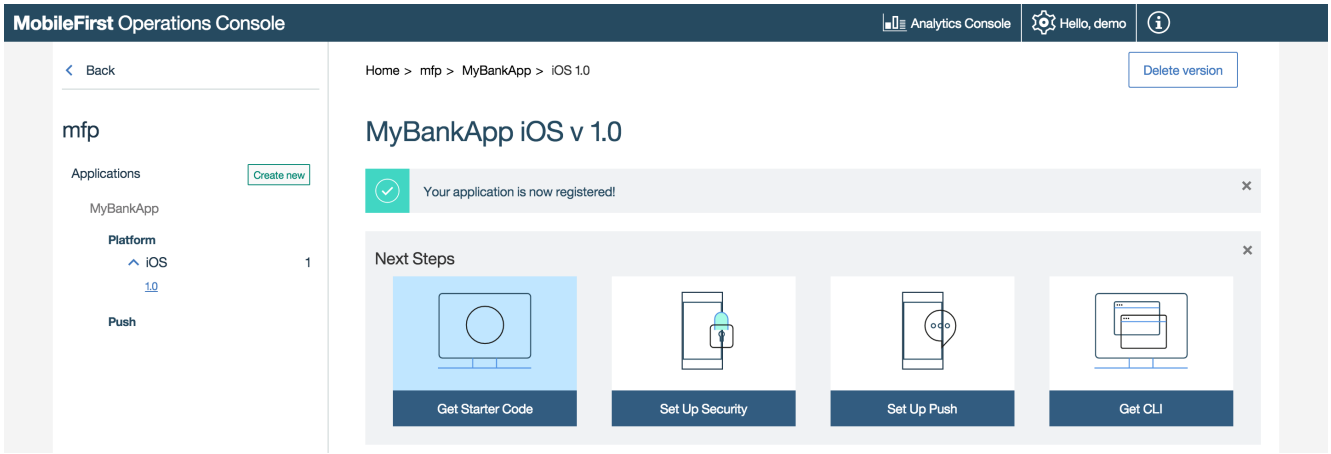
2. Creating an application

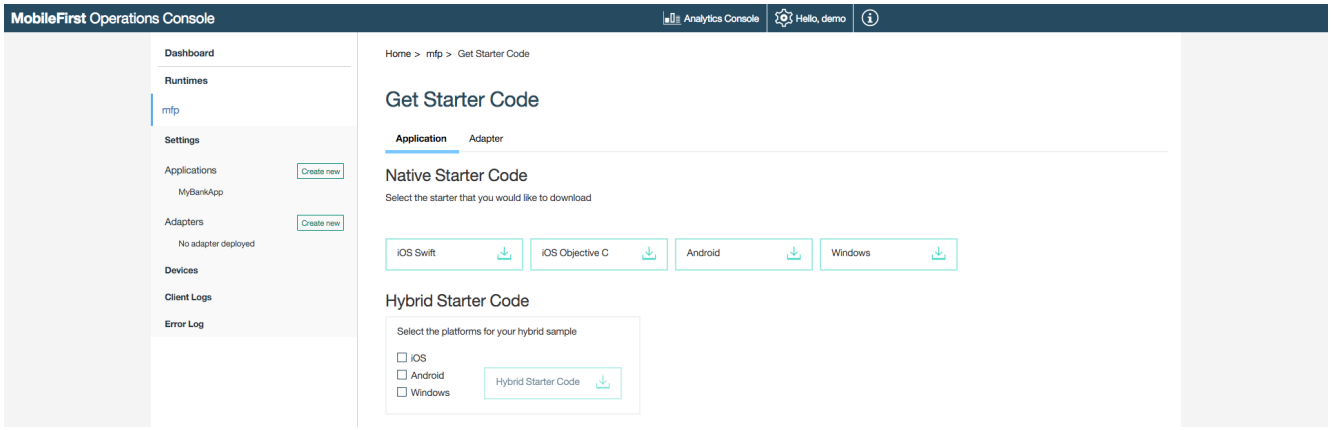
In a browser window, open the MobileFirst Operations Console by loading the URL: `http://your-server-host:server-port/mfpconsole`. If running locally, use: http://localhost:9080/mfpconsole (http://localhost:9080/mfpconsole). The username/password are *admin/admin*.

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 != nil){
          NSLog(@"Success: %@",response.responseText);
      }
  }];
  ```

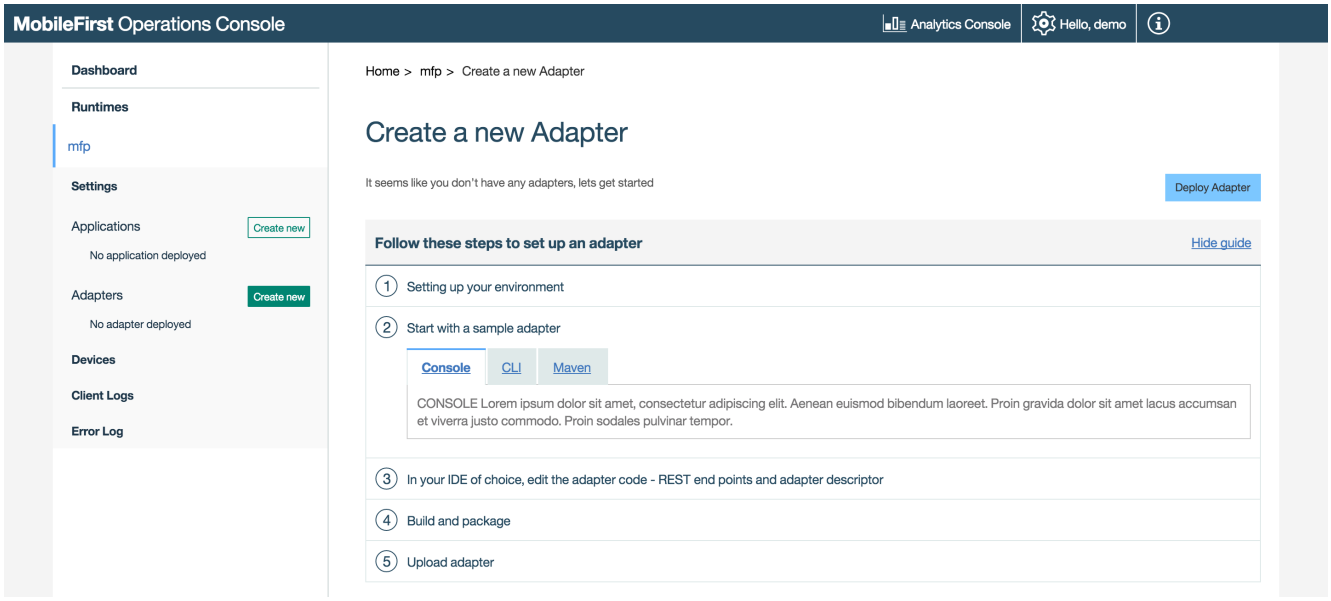
  In Swift:

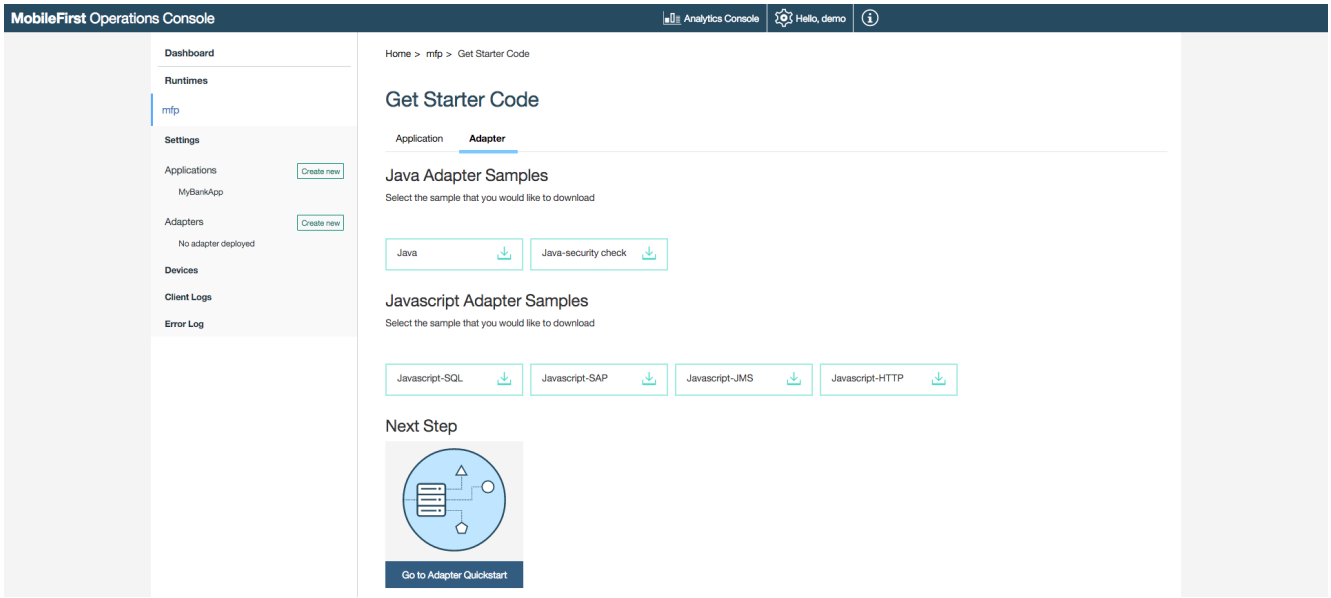
  ```
  let url = NSURL(string: "/adapters/javaAdapter/users/world")
  let request = WLResourceRequest(URL: url, method: WLHttpMethodGet)

  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:

```
<key>NSAppTransportSecurity</key>
<dict>
   <key>NSAllowsArbitraryLoads</key>
   <true/>
</dict>
```

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)