

iOS end-to-end demonstration

fork and edit tutorial (<https://github.ibm.com/MFPSamples/DevCenter/tree/master/tutorials/en/foundation/8.0/quick-start/ios/index.md>) |
report issue (<https://github.ibm.com/MFPSamples/DevCenter/issues/new>)

Overview

The purpose of this demonstration is to experience an end-to-end flow where an application and an adapter are registered using the MobileFirst Operations Console, an "skeleton" Xcode project is downloaded and edited to call the adapter, and the result is printed to the log - verifying a successful connection with the MobileFirst Server.

Prerequisites:

- 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.

From a **Command-line** window, navigate to the server's folder and run the command: `./run.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 "New" button next to **Applications**
 - Select the **iOS** platform
 - Enter **com.ibm.mfpstarteriosobjectivec** or **com.ibm.mfpstarteriosswift** as the **application identifier** (depending on which mobile app scaffold you will download next)
 - Enter **1.0** as the **version** value
 - Click on **Register application**

MobileFirst Operations Console

Home > mfp > Register an Application

Actions

Register an Application

Application Name

MFPStarteriOSSwift ✓

Optional display name of the Application

Choose Platform *

☐ Android ☒ iOS ☐ Windows

Bundle ID *

com.ibm.mfpstarteriosswift ✓

Application Identifier, case sensitive

Version *

1.0 ✓

Application Version

Register application

- Click on the **Get Starter Code** tile and select to download the iOS Objective-C or Swift mobile app scaffold.

MobileFirst Operations Console

Home > mfp > MFPStarteriOSSwift > iOS 1.0

Actions

MFPStarteriOSSwift iOS v 1.0 | com.ibm.mfp.MFPStarteriOSSwift

✓ Your application is now registered!

Next Steps

Get Starter Code Set Up Authenticity Set Up Push Get CLI

Management Authenticity Security Log Filters Configuration Files

Last modified: Feb 21, 2016, 3:35 PM

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.

3. Editing application logic

- Open the Xcode project project by double-clicking the **.xcworkspace** file.
- Select the **[project-root]/ViewController.m/swift** file and paste the following code snippet, replacing the existing `getAccessToken()` function:

In Objective-C:

```

- (void)testServerConnection {
    _connectionStatusText.text = @"Connecting to Server...";
    [[WLAuthorizationManager sharedInstance] obtainAccessTokenForScope: @" " withCompletionHa
ndler:^(AccessToken *accessToken, NSError *error) {
        if (error != nil){
            NSLog(@"Failure: %@",error.description);
            _connectionStatusText.text = @"Client Failed to connect to Server";
        }
        else if (accessToken != nil){
            NSLog(@"Success: %@",accessToken.value);
            _connectionStatusText.text = @"Client has connected to Server";
            NSURL* url = [NSURL URLWithString:@" /adapters/javaAdapter/users/world"];
            WLResourceRequest* request = [WLResourceRequest requestWithURL:url method:WLHttp
MethodGet];
            [request sendWithCompletionHandler:^(WLResponse *response, NSError *error) {
                if (error != nil){
                    NSLog(@"Failure: %@",error.description);
                }
                else if (response != nil){
                    // Will print "Hello world" in the Xcode Console.
                    NSLog(@"Success: %@",response.responseText);
                }
            }];
        }
    }];
}

```

In Swift:

```

@IBAction func getAccessToken(sender: AnyObject) {
    connectionStatusWindow.text = "Connecting to Server...";
    print("Testing Server Connection")
    WLAuthorizationManager.sharedInstance().obtainAccessTokenForScope(nil) { (token, error) ->
Void in
    if (error != nil) {
        self.connectionStatusWindow.text = "Client Failed to connect to Server"
        print("Did not Recieved an Access Token from Server: " + error.description)
    } else {
        self.connectionStatusWindow.text = "Client has connected to Server"
        print("Recieved the Following Access Token value: " + token.value)
        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

Download this prepared .adapter artifact (../javaAdapter.adapter) and deploy it from the MobileFirst Operations Console using the **Actions → Deploy adapter** action.

Alternatively, click on the "New" button next to **Adapters**.

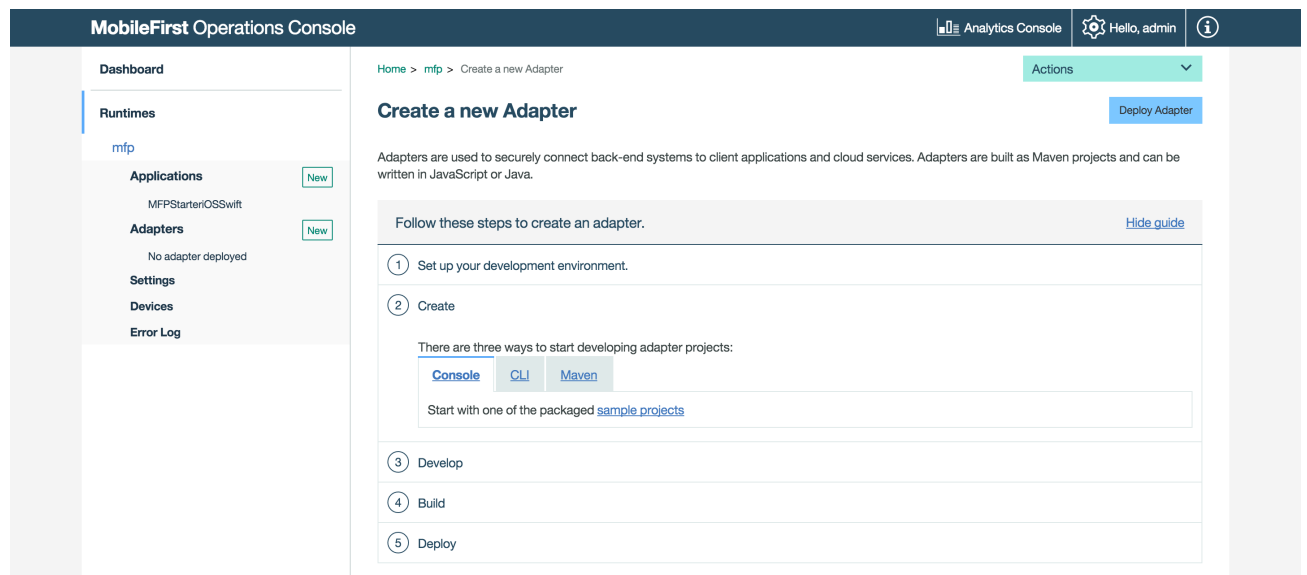
1. Select the **Actions → Download sample** option. Download the "Hello World" **Java** adapter sample.

If Maven and MobileFirst Developer CLI are not installed, follow the on-screen **Set up your development environment** instructions.

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

```
mpfdev adapter build
```

3. When the build finishes, deploy it from the MobileFirst Operations Console using the **Actions → Deploy adapter** action. The adapter can be found in the **[adapter]/target** folder.



5. Testing the application

1. In Xcode, select the **mpfclient.plist** file and edit the **host** property with the IP address of the MobileFirst Server.
2. Press the **Play** button.

Results

- Clicking on the **Test Server Connection** button will display **Client has connected to server**.
- If the application was able to connect to the MobileFirst Server, a resource request call using the Java adapter will take place.

The adapter response is then printed in the Xcode Console.

