

# Cordova end-to-end demonstration

## Overview

The purpose of this demonstration is to experience an end-to-end flow where an application & an adapter are created from the MobileFirst Operations Console, and application makes a resource request call using the MobileFirst Adapter to verify connectivity with the MobileFirst Server.

### Prerequisites:

- Configured Xcode for iOS, Android Studio for Android or Visual Studio 2013/2015 for Windows 8/10
- 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 **scripts** folder and run the command: `./start.sh` in Mac and Linux or `start.cmd` in Windows.

## 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 Cordova Starter Code.



### 3. Editing application logic

1. Open the Cordova project in your code editor of choice.
2. Select the `/config.xml` file and edit the `<mf:server ... url=" " />` value with the IP address of the MobileFirst Server.
3. Select the `www/js/index.js` file and paste the following code snippet, replacing the existing `wlCommonInit()` function:

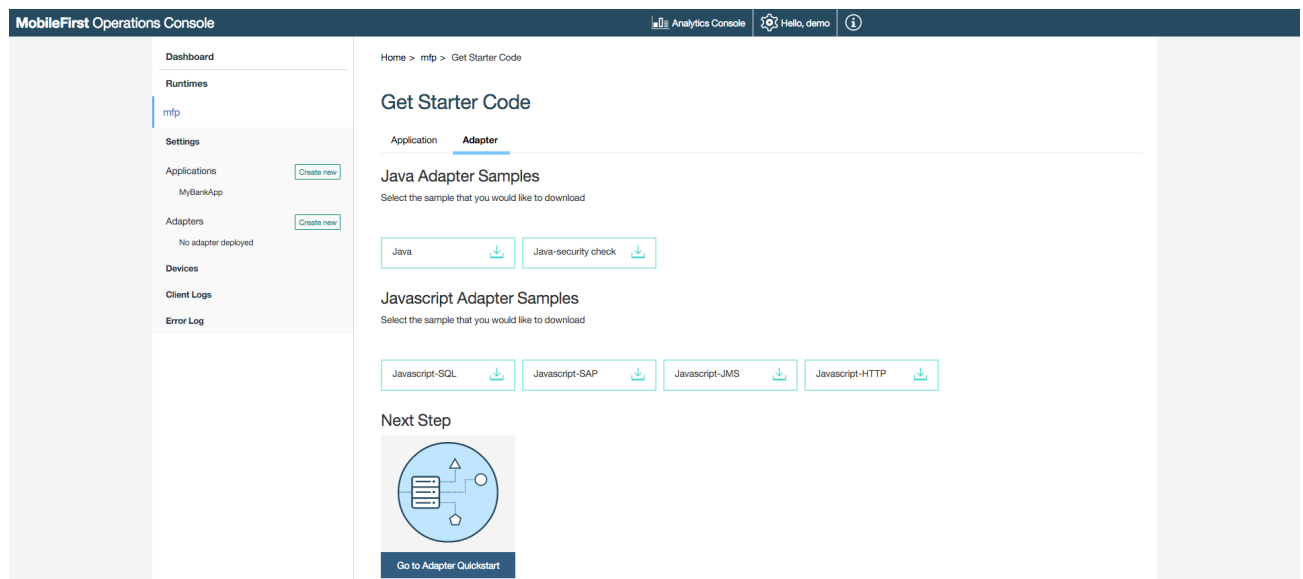
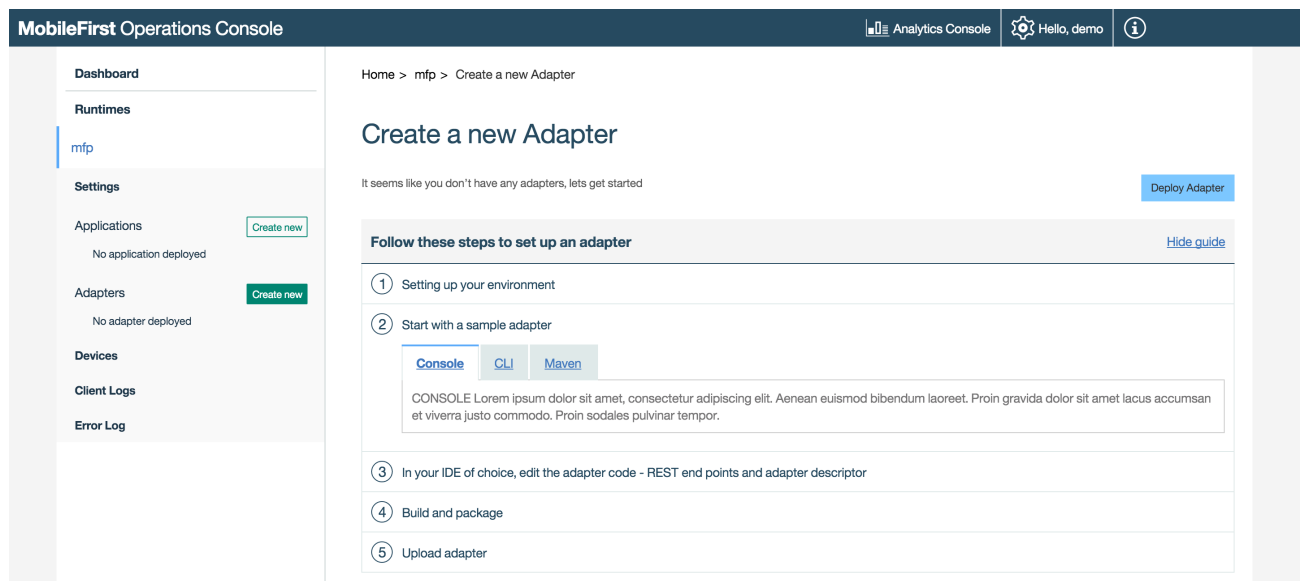
```
function wlCommonInit() {
    var resourceRequest = new WLResourceRequest(
        "/adapters/javaAdapter/users/world",
        WLResourceRequest.GET
    );

    resourceRequest.send().then(
        function(response) {
            // Will display "Hello world".
            alert("Success: " + response.responseText);
        },
        function(response) {
            alert ("Failure: " + response.errorMsg);
        }
    );
}
```

### 4. Creating an adapter

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

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



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

```
mpfdev adapter build
```

- When the build finishes, run the command:

```
mpfdev adapter deploy
```

If using a remote MobileFirst Server, run the command:

```
mpfdev adapter deploy Replace-with-remote-server-name
```

## 5. Testing the application

1. From a **Command-line** window, navigate to the Cordova project root folder.
  2. Run the commands: `cordova prepare` followed by `cordova run`.
- If a device is connected, the application will be installed and launched in the device,
  - Otherwise the Simulator or Emulator will be used.

## Next steps

- Review the Client-side development tutorials ([../client-side-development/](#))
- Review the Server-side development tutorials ([../server-side-development/](#))
- Review the Authentication and security tutorials ([../authentication-and-security/](#))
- Review All Tutorials ([../all-tutorials](#))

