

# iOS Quick Start demonstration

## Overview

The purpose of this demonstration is to experience an end-to-end flow where the MobileFirst Platform Foundation SDK for iOS is integrated into a Xcode project and used to retrieve data using a MobileFirst adapter.

To learn more about creating projects and applications, using adapters and lots more, visit the Native iOS Development ([../ios-tutorials/](#)) landing page.

### Required installed:

- MobileFirst Platform commandline tool (download  
([file:///home/travis/build/MFPSamples/DevCenter/\\_site/downloads/](file:///home/travis/build/MFPSamples/DevCenter/_site/downloads/)))
  - Xcode 6.x
- 

## 1. Create a MobileFirst project and adapter

- Create a new project and iOS framework/server-side application entity

```
mfp create MyProject
cd MyProject
mfp add api MyiOSFramework -e ios
```

- Add a HTTP adapter to the project

```
mfp add adapter MyAdapter -t http
```

## 2. Deploy artifacts to the MobileFirst Server

- Start the MobileFirst Server and deploy the server-side application entity and adapter

```
mfp start
# Wait until a browser window is opened, displaying the MobileFirst C
onsole
mfp build
mfp deploy
```

## 3. Create a Xcode project

## 4. Add the MobileFirst iOS SDK to the Xcode project

- In **Project explorer** right-click and select **Add Files to your-iOS-app-name...**
  - Navigate to **project-folder-location > MyProject > apps > MyiOSFramework** and select **worklight.plist** file and the **WorklightAPI** folder

- In **Build Phases** open **Link Binary With Libraries** and add:
  - `libWorklightStaticLibProjectNative.a` (found in **WorklightAPI**)
  - `sqlcipher.framework` (found in **WorklightAPI/Frameworks**)
  - `SystemConfiguration.framework`
  - `MobileCoreServices.framework`
  - `CoreLocation.framework`
  - `Security.framework`
  - `libstdc++.6.dylib`
  - `libc++.dylib`
  - `libz.dylib`
- In **Build Settings** search for:
  - Header Search Path: add `$(SRCROOT)/WorklightAPI/include`
  - Other Linker Flags: add `-ObjC`

## 5. Implement MobileFirst adapter invocation

- **AppDelegate.h** Add the header:

```
#import "WLResourceRequest.h"
```

- **AppDelegate.m** Add the header:

```
#import "WLResponse.h"
```

Add the following to `didFinishLaunchingWithOptions`:

```
- (BOOL)application:(UIApplication *)application didFinishLaunchingWithOptions:(NSDictionary *)launchOptions {
    NSURL* url = [NSURL URLWithString:@"adapters/MyAdapter/getFeed"];
    WLResourceRequest* request = [WLResourceRequest requestWithURL:url method:WLHttpMethodGet];
    [request setQueryParameterValue:@"[technology]" forName:@"params"];

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

    return YES;
}
```

## 6. Final configurations

- ## 7. Click Run

The screenshot shows the Xcode IDE with the AppDelegate.m file open. The code defines the AppDelegate class and implements the didFinishLaunchingWithOptions method. In this method, a POST request is sent to the URL "http://192.168.1.100:8080/api/v1/news". The request body is a JSON object containing "text": "test", "charset": "UTF-8", "acceptRanges": "none", "server": "GSE", "cacheControl": "private, max-age=0", "xContentTypeOptions": "nosniff", "warnings": [{"totalSize": 151, "responseTime": 100, "info": []}]. The server response is logged, showing headers like "Accept-Ranges", "Alternate-Protocol", "Cache-Control", "Content-Type", "Date", "Expires", "Last-Modified", "Server", "Transfer-Encoding", "Vary", "X-Content-Type-Options", and "X-XSS-Protection". The response body contains copyright information for CNW.com.

```

1 //
2 // Created by Idan Adar on 25/03/15.
3 // Copyright (c) 2015 IBM. All rights reserved.
4
5 #import "AppDelegate.h"
6 #import "AppDelegate.h"
7
8 @interface AppDelegate ()
9
10 @end
11
12 @implementation AppDelegate
13
14 - (BOOL)application:(UIApplication *)application didFinishLaunchingWithOptions:(NSDictionary *)launchOptions {
15     NSURL* url = [NSURL URLWithString:@"http://192.168.1.100:8080/api/v1/news"];
16     NSMutableURLRequest* request = [NSMutableURLRequest requestWithURL:url method:HTTPMethodPOST];
17     [request setQueryParameterValues:@{@"technology": @"flame",@"params": ""}];
18
19     [request sendWithCompletionHandler:^(NSURLResponse *response, NSError *error) {
20         if(error != nil){
21             NSLog(@"%s",error.description);
22         }
23         else{
24             NSLog(@"%s",response.description);
25         }
26     }];
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28     return YES;
29 }
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```

Console Output:

```

2015-03-25 11:07:02.078 MyApp[53372:602219] {
  errors = (
  );
  info = (
  );
  isSuccessful = 1;
  isSuccessful = 1;
  responseHeaders = {
    "Accept-Ranges" = none;
    "Alternate-Protocol" = "80:quic,p=0.5,80:quic,p=0.5";
    "Cache-Control" = "private, max-age=0";
    "Content-Type" = "text/html; charset=UTF-8";
    Date = "Wed, 25 Mar 2015 09:06:57 GMT";
    Expires = "Wed, 25 Mar 2015 09:06:57 GMT";
    "Last-Modified" = "Wed, 25 Mar 2015 09:06:57 GMT";
    Server = GSE;
    "Transfer-Encoding" = chunked;
    Vary = "Accept-Encoding";
    "X-Content-Type-Options" = nosniff;
    "X-XSS-Protection" = "1; mode=block";
  };
  responseTime = 100;
  rss = {
    channel = {
      copyright = "Copyright 2015 Cable News Network LP, LLLP.";
      description = "CNW.com delivers up-to-the-minute news and information on the latest top stories, weather, entertainment, politics and more.";
      image = {
        description = "CNW.com delivers up-to-the-minute news and information on the latest top stories,

```