

# iOS Quick Start demonstration

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 (../) landing page.

Required installed:

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

- IBMMobileFirstPlatformFoundation.framework (from *WorklightAPI/Frameworks*)
- 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

- Supply the machine's IP address for the `host` property in `worklight.plist`

## 7. Click Run

Review the Xcode console for the data retrieved by the adapter request.

