Push Notifications in Native iOS Applications

fork and edit tutorial (https://github.com/MobileFirst-Platform-Developer-Center/DevCenter/#fork-destination-box) | report issue (https://github.com/MobileFirst-Platform-Developer-Center/DevCenter/issues/new)

Overview

This tutorial explains how to configure a MobileFirst native iOS application to support push notifications. Also mentioned are the addresses and ports that must be accessible for notifications to arrive to the supported Apple Push Notification Service vendor (APNS).

Prerequisite: Make sure to read the Configuring a native iOS application with the MobileFirst Platform SDK (../../../hello-world/configuring-a-native-ios-application-with-the-mfp-sdk/) tutorial first.

This tutorial covers the following topics:

- Setting up push notifications
- Apple Push Notifications Service
- Notification types

Setting up push notifications

To send push notifications to iOS devices, use the Apple Push Notifications Service (APNS).
You must be a registered Apple iOS Developer to obtain an APNS certificate for your application.
Note: APNS certificates must have a non-blank password.

- During the development phase, use the `apns-certificate-sandbox.p12` sandbox certificate file.
- During a production phase, use the `apns-certificate-production.p12` production certificate file.

> To learn about setting up the certificates that are required for push notifications, see this blog post: Understanding and setting up certificates required to use iOS devices and Apple Push Notifications services (APNS) (https://www.ibm.com/developerworks/community/blogs/worklight/entry/understanding-and-setting-up-push-notifications-in-development-evnironment?lang=en)

1. Create a MobileFirst project and add a MobileFirst iOS Native API.
2. Place the Apple APNS certificate file at the root of the application folder.
3. In `application-descriptor.xml`, add the `pushSender` element under the nativeIOSApp environment. These settings are also editable with the Application Descriptor Editor in Design mode.
   - Replace the **`password`** value with the .p12 certificate password.
   - Replace the **`bundleId`** value with your application `bundleId` value. Consult the Apple documentation about how to create a `bundleId` for Xcode projects.
     For example:

```
<nativeIOSApp id="AppName" bundleId="com.REPLACE-WITH-BUNDLE-ID" platformVer
sion="7.0.0.00.20150312-0731"
 version="1.0" xmlns="http://www.worklight.com/native-ios-descriptor">
<displayName>AppName</displayName>
<description>AppName</description>
<accessTokenExpiration>3600</accessTokenExpiration>
<userIdentityRealms></userIdentityRealms>
<pushSender password="REPLACE-WITH-CERTIFICATE-PASSWORD"/>
</nativeIOSApp>
```

4. Deploy the MobileFirst native API:

   CLI

   Use `mfp deploy` from within the application folder.

   Studio

   Right-click the Native API folder and select **Run As > Deploy Native API**.

Apple Push Notifications Service

For push notifications to be sent, the following servers must be accessible from a MobileFirst Server instance:

Sandbox servers:
gateway.sandbox.push.apple.com:2195
feedback.sandbox.push.apple.com:2196

Production servers:
gateway.push.apple.com:2195
Feedback.push.apple.com:2196

1-courier.push.apple.com 5223

Notification types