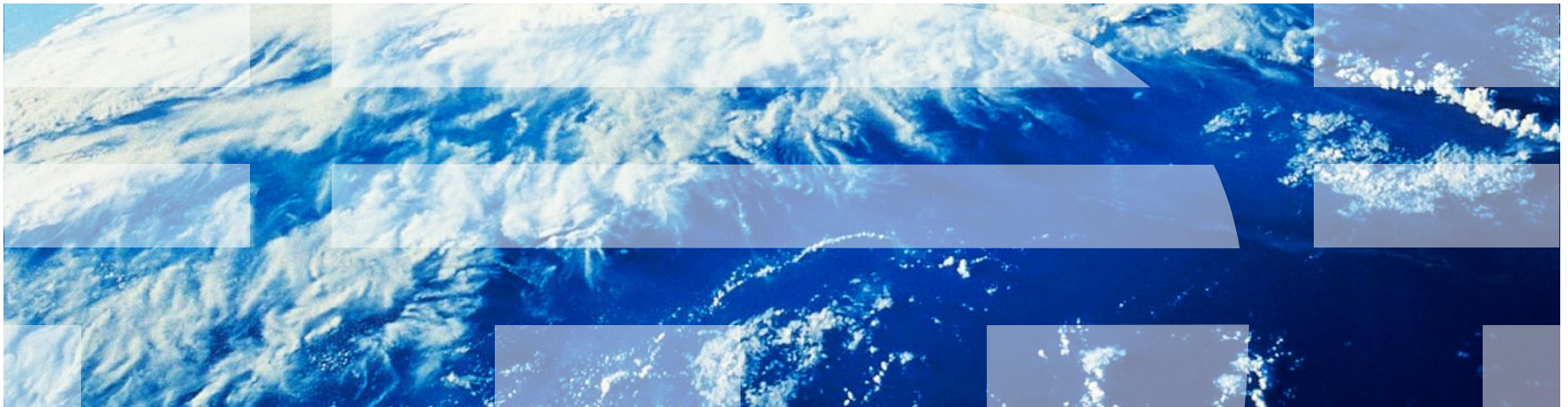# IBM Worklight Foundation V6.2.0
Integrating with other products

Xtify Native iOS and Android Integrations

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Create Worklight Project via Command Line Interface

- Install the Worklight® Command Line interface (CLI).

  - For more information, see the Worklight Getting Started module "Using the Command Line Interface to Create Build and Manage Worklight Project Artifacts" at www.ibm.com/mobile-docs.

- Create a Worklight project from the CLI by using this command:
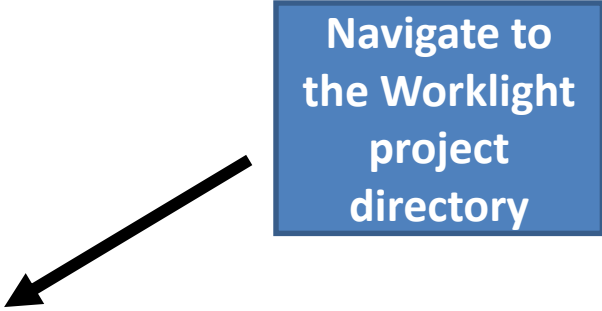
  - `worklight create <projectName>`

Example:

```
/Users/user/Desktop/XtifyExample$ wl create WorklightXtifyProject
A Worklight Project was successfully created at
Users/user/Desktop/XtifyExample/WorklightXtifyProject
```

Worklight Project Add Native API

- Add Native API for Android and iOS to your project.
  - `wl add api --environment android androidApp`
  - `wl add api --environment ios iOSpp`
    - Or `-e` for environment

Navigate to the Worklight project directory

```
/Users/user/Desktop/XtifyExample/WorklightXtifyProject$ wl add api --
environment ios apiName
A new iOS API was added at
/Users/user/Desktop/XtifyExample/WorklightXtifyProject/apps/apiName
```

Worklight Project Add Native API

- Create and start the Worklight Server via CLI.

  - This action builds and deploys the Worklight native API folder.

- Create a native Android or iOS application and copy in the required Worklight files to your native application.

- For more information, see the following Getting Started modules under Hello Worklight on the IBM developerWorks® website:

  – Creating your first native iOS Worklight application

  – Creating your first native Android Worklight application

Worklight Xtify Android native application (1 of 2)

- Download the IBM Push Notification SDK for Android.

- Create a Google API Project with GCM.

  - Open the Google APIs Console page and create an API project.

  - Click the **APIs** menu link tab to enable Google Cloud Messaging for Android.

  - In the **Credentials** tab, click **create New Key > Server Key**. This key is used when you register your Android app with IBM Mobile Push Notification.

- Register your Android app with IBM Mobile Push Notification:

  - Create an Xtify™ Account.

  - Add an Android app, and add your API key to the Google API key field.

  - Submit and copy your Application Key for use in your app.

Worklight Xtify Android native application (2 of 2)

- Implement the IBM Push Notification SDK for Android within your app.

  - Add IBM Push Notification SDK for Android to your project path.

  - Modify the Android version, permissions, and application components in the `AndroidManifest.xml` file.

  - Edit the **Main Activity** to start the IBM Mobile Push Notification registration process.

- Set up your emulator for testing your IBM-enabled Android app:

  - Make sure that the Google APIs are installed in Android SDK Manager.

  - Under **AVD Manager**, select **New**, and, under **target**, make sure to select an option that uses Google APIs.

  - In the launched device, add an active Google account to the device by using **Settings > Accounts**.

- For a complete step-by-step walk-through, see:
  http://developer.xtify.com/display/sdk/Getting+Started+with+Google+Cloud+Messaging

Worklight Xtify iOS native application (1 of 2)

- Download the IBM Push Notification SDK for iOS.

- Register your iOS app with Apple.

- Register your iOS app with IBM.

  - Select **Add New Application** on the **Create/Manage Application Keys** page.

  - Upload the `.p12` certificate from Apple registration.

  - Submit and then copy your Application Key and Secret.

- Implement the IBM Push Notification SDK for Apple iOS within your app.

Worklight Xtify iOS native application (2 of 2)

- Build the IBM Push Notification SDK for Apple iOS Sample App.

- Test and prepare your iOS application for App Store Distribution.

- For a complete step-by-step walk-through, see:
  http://developer.xtify.com/display/sdk/Getting+Started+with+Apple+Push+Notification+Service

For more information

- For more information about integrating a Native Worklight application with Xtify, see the following pages:

  - The IBM Worklight Foundation user documentation at Command Line Interface for IBM Worklight Developers

  - The Getting Started modules under Hello Worklight on the IBM developerWorks website, in particular, the following modules:

    - Creating your first native iOS Worklight application
    - Creating your first native Android Worklight application

  - The following Xtify pages:

    - Getting Started with Apple Push Notification Service
    - Getting Started with Google Cloud Messaging

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