

Instructions

1 - Create a new project

- Create blank ionic project using the latest [ionic-cli](#)

```
ionic start StarterFirebasePackV2 blank --cordova
```

- Copy the folders `src`, `package.json` and replace them in your new project root.
- Run inside the project folder, install all dependencies added to the new package.json file running:

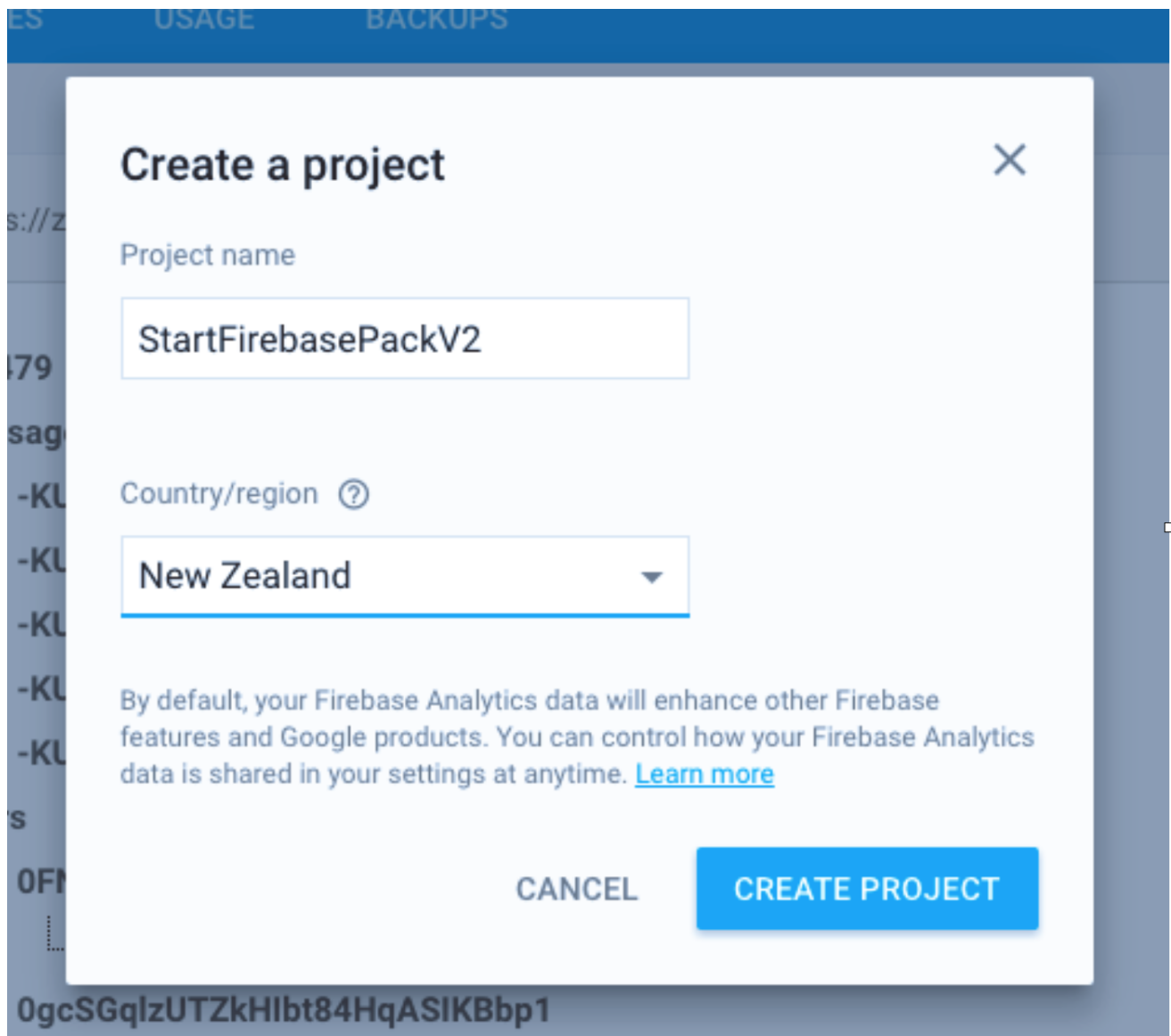
```
npm install
```

- Add all platforms you need:

```
ionic cordova platform add ios ionic cordova platform add android
```

2 - Configuring Firebase project

- Create a Firebase project



- Add project to Web application.



Add Firebase to your web app

- Add info inside the `config.ts` file:

```
export const firebaseConfig = {
  apiKey: "",
  authDomain: "",
  databaseURL: "",
  projectId: "",
  storageBucket: "",
  messagingSenderId: ""
};
```

3 - Anonymous and Email/password auth.

- Enable Anonymous and Email/Password authentications in Firebase.

The screenshot shows the Firebase console interface. On the left, a sidebar lists various services under 'DEVELOP', 'GROW', and 'EXPAND' categories. The 'Authentication' service is selected. The main panel displays the 'Sign-in providers' section, which contains a table with the following data:

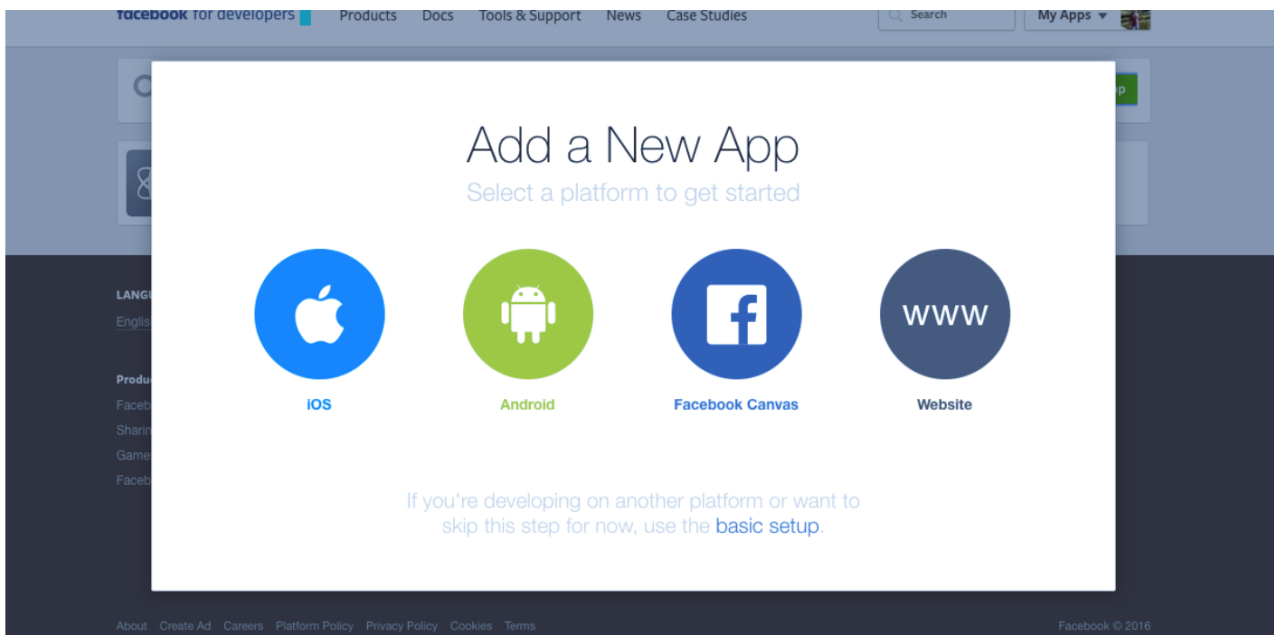
Provider	Status
Email/Password	Disabled
Google	Disabled
Facebook	Disabled
Twitter	Disabled
GitHub	Disabled
Anonymous	Disabled

- If you run `ionic serve` in your project root, you should be able to Register and authenticate via Email/password and Anonymous users.

4 - Facebook oAuth v4 SDK

- Enable Facebook login in Firebase – **Copy the redirect URL since we will use it later, leave this page opened for now, we will get the App ID and App secret later.**
- Create Facebook developer app, use the Basic Setup.

<https://developers.facebook.com/apps>



Create a New App ID

Get started integrating Facebook into your app or website

Display Name

Contact Email

Category

Education ▼

By proceeding, you agree to the [Facebook Platform Policies](#)

- Now create a Facebook Login product and paste the OAuth redirect URL provided by Firebase when you enabled the Facebook Authentication.

- Save, grab the App ID and App Secret in your Facebook Dashboard, and add them in the Firebase Facebook Authentication.

- Run the following command:

```
ionic cordova plugin add cordova-plugin-facebook4 --save --variable APP_ID="your_facebook_app_id" --variable APP_NAME="StarterFirebasePackV2"
```

- At this point the Facebook login should work in the Browser Mode only
- However, in order to make the Facebook login work for iOS and Android devices, we need to configure a few more things.

Let's enable for iOS first.

- In the Facebook developer dashboard, go to Settings.
- Add a new platform.
- Choose iOS.
- Now add your Bundle ID – found in the `config.xml` file.

```
<widget id=.....>
```

- Save, and you are done.

The screenshot shows the Facebook iOS configuration settings page. At the top, there's a header with 'iOS' and a 'Quick Start' button. The main content area has several fields and options:

- Bundle ID:** A text input field containing 'com.ionicframework.starterfirebasepackv2970812' with a small 'x' icon to clear the text.
- iPhone Store ID:** A text input field with the placeholder text 'The ID to identify your app in the iOS Store'.
- URL Scheme Suffix (Optional):** An empty text input field.
- iPad Store ID:** A text input field with the placeholder text 'The ID to identify your app in the iPad Store'.
- Single Sign On:** A toggle switch set to 'No' with the text 'Will launch from iOS Notifications'.
- iOS Only: Log In-App Purchase Events Automatically (Recommended):** A toggle switch set to 'No' with a detailed description: 'Turning this on logs all in-app purchase events automatically on iOS. This feature needs version 3.22 of the Facebook SDK or newer. **Notice:** When this setting is turned on, you should stop logging in-app purchases manually on iOS or else they'll be duplicated. [Learn More](#)'.

Next up Android.

- In the Facebook developer dashboard, go to Settings.
- Add a new platform.
- Choose Android.
- Add the same value for the Bundle ID in iOS in the field Google Play Package Name.
- Now things gets a little bit nasty, we need to generate a Hash key for the Android apk. **We are going to generate a Hash for the debug apk, so we can deploy our app to an Android device and test.**
- First thing, run the command in your project root folder.

```
keytool -exportcert -alias androiddebugkey -keystore ~/.android/debug.keystore | openssl sha1 -binary | openssl base64
```

- The password for the `debug.keystore` should be always `android`.
- Now copy the hash generated by this command and paste into the Facebook Android product field Key hashes.

Android

Quick Start

✕

Google Play Package Name

com.ionicframework.starterfirebasepackv2970812

Class Name

The Main Activity you want Facebook to launch

Key Hashes

JYmeL9xyQfM0/k6+alwE6W+P25M= ✕

Amazon Appstore URL (Optional)

Ex. http://www.amazon.com/dp/B004GJDQT8

☐

No

Single Sign On

Will launch from Android Notifications

And we are done! You should now be able to Login via Facebook now using devices.

5 - Twitter OAuth

- Enable Twitter authentication if Firebase.
- Copy the callback URL.
- Create a Twitter application at: <https://apps.twitter.com/app>
- Add the callback URL to the application.

Application Details

Name *

StarterFirebasePackv2

Your application name. This is used to attribute the source of a tweet and in user-facing authorization screens. 32 characters max.

Description *

Ipsum lorem

Your application description, which will be shown in user-facing authorization screens. Between 10 and 200 characters max.

Website *

www.placeholder.com

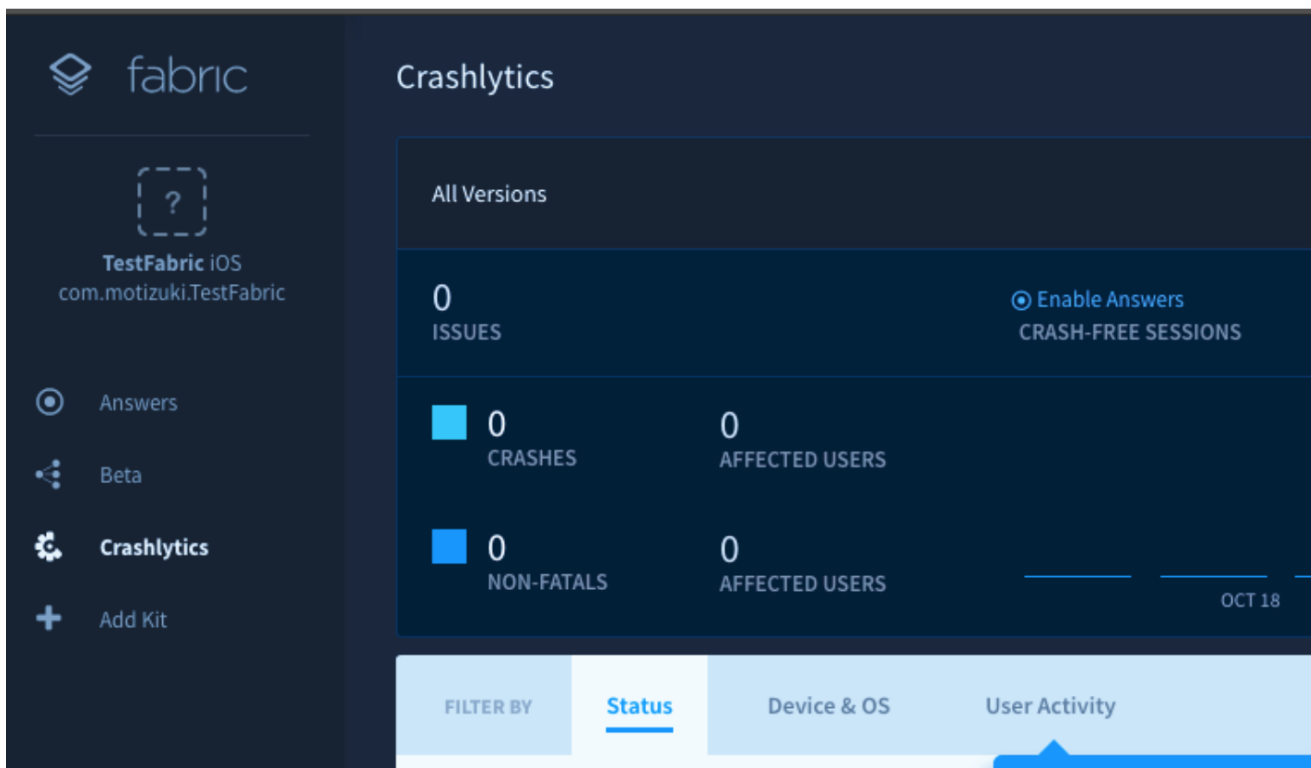
Your application's publicly accessible home page, where users can go to download, make use of, or find out more information about your application. This fully-qualified URL is used in the source attribution for tweets created by your application and will be shown in user-facing authorization screens.
(If you don't have a URL yet, just put a placeholder here but remember to change it later.)

Callback URL

https://starterfirebasepackv2.firebaseio.com/_/auth/handler

Where should we return after successfully authenticating? OAuth 1.0a applications should explicitly specify their oauth_callback URL on the request token step, regardless of the value given here. To restrict your application from using callbacks, leave this field blank.

- Go to keys and access token tab and grab your API key and API secret.
- Go back to Firebase website and add them to the Twitter Authentication and save.
- Now we need to create a Fabric application to use the Fabric API in the Twitter Connect Plugin.
- Go to : <https://fabric.io>
- Create any project, It could be an iOS application for instance.



- The only thing we really need is the API key. Getting the API key is fairly tricky, but this process seems to work:
 - Login to Fabric account and open <https://fabric.io/kits/android/crashlytics/install>
 - Find the meta-data code block in AndroidManifest.xml
 - Find your API Key pre filled in the code.
- Now run the following command with your Fabric API KEY in your project root:

```
ionic cordova plugin add twitter-connect-plugin --variable FABRIC_KEY=<Fabric API Key>
```

- The last thing you need to do now is to open config.xml (in your project's root) and add these two lines before the closing `</widget>` tag:

```
<preference name="TwitterConsumerKey" value="<Twitter Consumer Key>" />
<preference name="TwitterConsumerSecret" value="<Twitter Consumer Secret>" />
```

If you get stuck in one of those steps, you can checkout the plugin github page for more information: <https://github.com/ManifestWebDesign/twitter-connect-plugin>.

6 - GooglePlus oAuth

Enable Google authentication in Firebase.

iOS

- To get your iOS `REVERSED_CLIENT_ID`, generate a configuration file here. This `GoogleService-Info.plist` file contains the `REVERSED_CLIENT_ID` you'll need during installation.
- Go to: <https://developers.google.com/mobile/add?platform=ios&cntapi=signin>
- Create a new application by passing a name and adding the `BundleID`.
- Enable Google Sign in.
- Download the plist file.
- You will find your reverse client ID inside this file.
- Run the following command using your reverse client id:

```
ionic cordova plugin add cordova-plugin-googleplus --save --variable REVERSED_CLIENT_ID=myreversedclientid
```

Android

- Go to: <https://developers.google.com/mobile/add?platform=android&cntapi=signin>
- Create a new application by passing a name and adding the `BundleID` .
- Enable Google Sign in.
- We need to get the SHA1 Hash now.
- Run the command:

```
keytool -exportcert -list -v -alias androiddebugkey -keystore ~/.android/debug.keystore
```

- Get the `SHA-1` and add to the enable the Google Sign in.
- Add in Firebase an Android app

Add Firebase to your Android app

1 Enter app details 2 Copy config file 3 Add to build.gradle

Get started on Android faster by clicking [Tools > Firebase](#) in [Android Studio 2.2+](#)

Package name ⓘ

com.yourapp.android

App nickname (optional) ⓘ

Freemium Android App

Debug signing certificate SHA-1 (optional) ⓘ

00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00

Required for Dynamic Links, Invites, and Google Sign-In support in Auth. Edit SHA-1s in Settings.

CANCEL ADD APP

[downloads google-services.json for your app](#)

- Add the `SHA-1` into it
- Lastly, get your web client ID at: <https://console.developers.google.com/apis/credentials>
- Add it to the `/src/app/config.ts`

- Make sure all client ids were correctly added, and they should all be present in the console dashboard.

Dashboard

Library

Credentials

<input type="checkbox"/>	Name	Creation date ▾	Restriction	Key
<input type="checkbox"/>	Android key (auto created by Google Service)	Oct 19, 2016	None	AlzaSyDAdSPFI
<input type="checkbox"/>	iOS key (auto created by Google Service)	Oct 19, 2016	None	AlzaSyCtRnv9W

OAuth 2.0 client IDs

<input type="checkbox"/>	Name	Creation date ▾	Type	Client ID
<input type="checkbox"/>	Android client for com.ionicframework.ionicfire2625339 (auto created by Google Service)	Oct 19, 2016	Android	372184:so0g94l
<input type="checkbox"/>	iOS client for com.ionicframework.ionicfire2625339 (auto created by Google Service)	Oct 19, 2016	iOS	372184:
<input type="checkbox"/>	Web client (auto created by Google Service)	Oct 19, 2016	Web application	372184:

If you had any trouble running those steps, checkout the github website for the plugin:
<https://github.com/EddyVerbruggen/cordova-plugin-googleplus>

Feel free to contact me if you have any questions. gustavokm90@gmail.com

Happy coding