

# FIREBASE GOOGLE DEVELOPER TOOL

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## 1 About

Firebase evolved from Envolv, a prior startup founded by James Tamplin and Andrew Lee in 2011. Envolv provided developers an API that enables the integration of online chat functionality into their websites. After releasing the chat service, Tamplin and Lee found that it was being used to pass application data that weren't chat messages. Developers were using Envolv to sync application data such as game state in real time across their users. Tamplin and Lee decided to separate the chat system and the real-time architecture that powered it. They founded Firebase as a separate company in April 2012.[1]

Firebase gives you functionality like analytics, databases, messaging and crash reporting so you can move quickly and focus on your users.

Backed by Google, trusted by top apps Firebase is built on Google infrastructure and scales automatically, for even the largest apps. One console, with products that work together. Firebase products work great individually but share data and insights, so they work even better together. [2]

## 2 Services

1. Firebase Analytics Firebase Analytics is a cost-free app measurement solution that provides insight into app usage and user engagement
2. Firebase Cloud Messaging Formerly known as Google Cloud Messaging (GCM), Firebase Cloud Messaging (FCM) is a cross-platform solution for messages and notifications for Android, iOS, and web applications, which currently can be used at no cost.[1]
3. Firebase Auth Firebase Auth is a service that can authenticate users using only client-side code. It supports social login providers Facebook, GitHub, Twitter and Google. Additionally, it includes a user management system whereby developers can enable user authentication with email and password login stored with Firebase.[1]

4. Realtime Database Firebase provides a realtime database and backend as a service. The service provides application developers an API that allows application data to be synchronized across clients and stored on Firebase's cloud.[17][18] The company provides client libraries that enable integration with Android, iOS, JavaScript, Java, Objective-C, swift and Node.js applications. The database is also accessible through a REST API and bindings for several JavaScript frameworks such as AngularJS, React, Ember.js and Backbone.js.[19] The REST API uses the Server-Sent Events protocol, which is an API for creating HTTP connections for receiving push notifications from a server. Developers using the realtime database can secure their data by using the company's server-side-enforced security rules.[1]

### 3 References

- [1] Firebase (3rd march 2018) Accessed on 10th March 2018. Available:<https://en.wikipedia.org/wiki/Firebase>
- [2] Firebase helps you build better mobile apps and grow your business. Accessed on 10th March 2018. available:<https://firebase.google.com/>