Google Cloud



Migrate your mobile app to Firebase



🧖 /SandroMachado



/SandroEMachado

Agenda

- Mobile OS's evolution;
- Parse
- Firebase Features and Pricing
- Firebase Integration
- Firebase Realtime database
- Firebase vs Parse
- Firebase console Real app sample



Mobile OS's evolution

Windows Mobile 5	iOS 10
Symbian	Android 7

Mobile Developer Stack



Backend/DevOps Stack



Forget about infrastructure

Parse

- Core
 - Schedule recurring tasks with background jobs;
 - Store and query data without a single server;
 - **Webhooks** to integrate with your own server;
- Push
 - Push notifications across devices and platforms with just a couple lines of code;
 - Push Console to **schedule campaigns** in advance;
 - A/B test;
- Analytics
 - App's retention;
 - Measure growth over time;
 - API requests monitoring.







- [-] zillathrilla 27 points 1 year ago*
- I am devastated. I love Parse. I would honestly pay \$10 / month per app to keep using it. Their docs are amazing and I've never run into something I couldn't do through Parse.



- [-] NPPraxis 107 points 1 year ago
- I literally launched my app with a Parse backend today. Three hours ago.
 I hate everything.

make this process as easy as possible. We are committed to maintaining the backend service during the sunset period, and are providing several tools to help migrate applications to other services.

First, we're releasing a database migration tool that lets you migrate data from your Parse app to any MongoDB database. During this migration, the Parse API will continue to operate as usual based on your new database, so this can happer without downtime. Second, we're releasing the open source Parse Server, which

> Once you have pplication etails, check

- Doomhammered 22 points 1 year ago
- "Move fast and break things", they said.

striving to orking with ilt. Thank you

- ♠ [-] manooka 41 points 1 year ago
- My entire startup relies on Parse. I developed the website and apps myself as this was perfect for me as a Front-end developer without having to worry about back-end servers/databases etc. This is SERIOUSLY bad news.



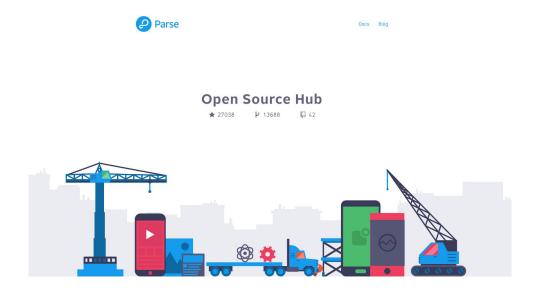
- [-] Koonga 10 points 1 year ago
- Anyone have any suggestions on good alternatives to Parse?

 permalink embed save give gold
- ← [-] luigi3 12 points 1 year ago
- https://www.firebase.com

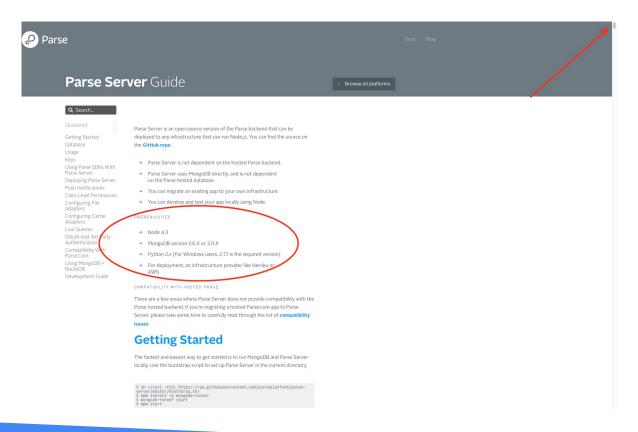


Parse is not dead, Parse service is dead

"The hosted Parse service is now shut down. To all the developers out there, it was a pleasure helping you build apps. Goodbye and good luck!"



Parse server - Open Source



Forget about infrastructure

Firebase



Firebase - Forget about infrastructure

- Analytics
 - Free and unlimited analytics solution
- Cloud Messaging
 - Deliver and receive messages across platforms reliably
- Authentication
 - Reduce friction with robust authentication
- Realtime Database
 - Store and sync app data in realtime
- Cloud Storage
 - Store and serve content with ease

Firebase - Forget about infrastructure

- Cloud Functions
 - Run your mobile backend code without managing servers
- Hosting
 - Deliver web content faster
- Test Lab
 - Test in the lab, not on your users
- Crash Reporting
 - Keep your app stable
- Notifications
 - Engage with users at the right moment

Firebase - Forget about infrastructure

- Remote Config
 - Customize your app on the fly
- App Indexing
 - Drive organic search traffic to your app
- Dynamic Links
 - Send users to the right place inside your app
- Invites
 - Empower your users to share your app
- AdWords
 - Acquire users with the reach of Google

Firebase SDK

- SDK: Android, iOS, WEB, C++, Node, Java and Unity;
- Frameworks: AngularFire, PolymerFire, ReactFire, EmberFire and BackboneFire;
- Helpers: FirebaseUI, firebase-dart, GeoFire, Firebase Queue, firebase-util, FirebaseJobDispatcher and FirePad;
- Utilities: Firebase Tools, Firebase Import and Flashlight;
- Third Party: Firestack

Firebase - Pricing

SPARK
Free
\$25 per month
Pay as you go

Generous limits for hobbyists

Predictable pricing for growing apps

Commodity pricing for apps at scale

Firebase - Pricing Spark

	Simultaneous connections	100
Realtime Database	GB stored	1 GB
Realtime Database	GB downloaded	10 GB/month
	Automated backups	×
	GB stored	5 GB
Storage	GB downloaded	1 GB/day
Storage	Upload operations	20,000/day
	Download operations	50,000/day
	Invocations	125,000/month
Functions	GB-seconds	40,000/month
runctions	CPU-seconds	40,000/month
	Outbound networking	Google-only ³
	GB stored	1 GB
Hosting	GB transferred	10 GB/month
	Custom domain hosting & SSL	~
Test Lab	Daily quota or hourly rate	15 tests/day ⁴
Google Cloud Platform	Use BigQuery & other laaS ⁶	×



Integrate Firebase in your app

- 1. http://console.firebase.google.com Create a new app
- 2. Android app
 - a. Add the SDK
 - i. Root Level build.gradle

```
buildscript {
    // ...
    dependencies {
        // ...
        classpath 'com.google.gms:google-services:3.0.0'
    }
}
```

Integrate Firebase in your app

3 - In the app/build.gradle

```
apply plugin: 'com.android.application'
android {
    // ...
}

dependencies {
    // ...
    compile 'com.google.firebase:firebase-core:10.2.0'

    // Getting a "Could not find" error? Make sure you have
    // the latest Google Repository in the Android SDK manager
}

// ADD THIS AT THE BOTTOM
apply plugin: 'com.google.gms.google-services'
```

Firebase Analytics Integrated!



Firebase - Realtime database

1. Add the Realtime Database to your app

```
compile 'com.google.firebase:firebase-database:10.2.0'
```

2. Configure Firebase Database Rules

Firebase - Realtime Database

Write to your database

```
// Write a message to the database
FirebaseDatabase database = FirebaseDatabase.getInstance();
DatabaseReference myRef = database.getReference("message");
myRef.setValue("Hello, World!");
```

Read from your database

```
// Read from the database
myRef.addValueEventListener(new ValueEventListener() {
    @Override
    public void onDataChange(DataSnapshot dataSnapshot) {
        // This method is called once with the initial value and again
        // whenever data at this location is updated.
        String value = dataSnapshot.getValue(String.class);
        Log.d(TAG, "Value is: " + value);
    }
}
```

Firebase Realtime Database Integrated!



Available libraries

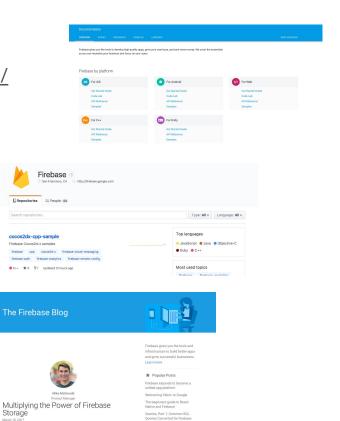
- com.google.firebase:firebase-core:10.2.0
- com.google.firebase:firebase-database:10.2.0
- com.google.firebase:firebase-storage:10.2.0
- com.google.firebase:firebase-crash:10.2.0
- com.google.firebase:firebase-auth:10.2.0
- com.google.firebase:firebase-messaging:10.2.0
- com.google.firebase:firebase-config:10.2.0
- com.google.firebase:firebase-invites:10.2.0
- com.google.firebase:firebase-ads:10.2.0
- com.google.firebase:firebase-appindexing:10.2.0

Firebase Resources

Documentation: https://firebase.google.com/docs/

Github: https://github.com/firebase/

Blog: https://firebase.googleblog.com/



Firebase vs Parse

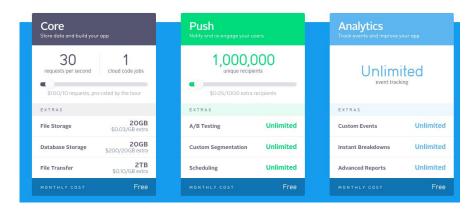


- Is active
- More features and more completed
- Commitment from Google
- Continuous improvements





- Pricing
- Schedule recurring tasks with background jobs;



Firebase console demo

Thank You

Migrate your mobile app to Firebase



