

# Mobile Application Development

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Produced  
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# Android & Firebase Part 4

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## Firebase Integration





# Agenda

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- ❑ Firebase history
- ❑ The all new Firebase
- ❑ Real-time database
- ❑ Authentication
- ❑ Storage
- ❑ Remote config
- ❑ Hosting
- ❑ Crash reporting
- ❑ Test lab
- ❑ Firebase cloud messaging
- ❑ Dynamic links
- ❑ App indexing
- ❑ Analytics
- ❑ CoffeeMate Highlights & Demos along the way...



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# History of firebase

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- ❑ Originally firebase was an online chat message integration service.
- ❑ Later the real time architecture was separated to create firebase database in 2012.
- ❑ Firebase surfaced as a popular choice when [Parse.com](https://parse.com) went down.
- ❑ Google acquired firebase in 2014 and added a whole lot of features in *Google IO-2016*.
- ❑ Firebase is now a complete BaaS solution.



# Introducing Firebase



# What Is It?

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- Cloud database ?
- Another name for Google app engine?
- Cross platform solution ?
- Another name for GCM ?
- Analytics ?
- Virtual private server ?
- @^#%\$&!<\*>^%(\$....

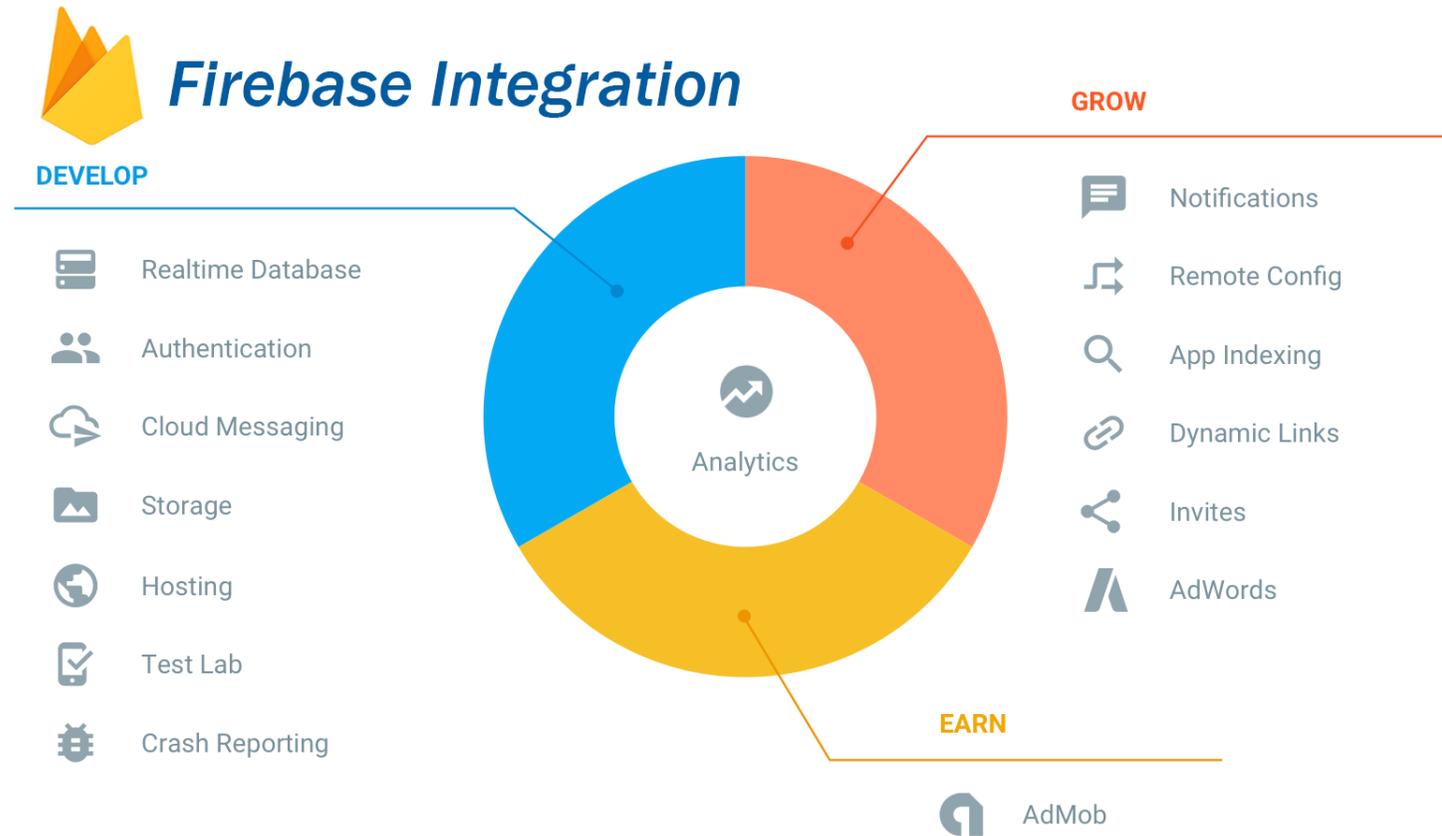




# What It Is ... \*

□ A complete BaaS solution that includes

- Real time JSON database
- Authentication
- Cloud storage
- Cloud messaging
- Crash reporting and analytics
- And a lot more





# Firebase Products

## Develop & test your app



### Realtime Database

Store and sync app data in milliseconds



### Crash Reporting

Find and prioritize bugs; fix them faster



### Authentication

Authenticate users simply and securely



### Cloud Functions

Run mobile backend code without managing servers



### Cloud Storage

Store and serve files at Google scale



### Hosting

Deliver web app assets with speed and security



### Test Lab for Android

Test your app on devices hosted by Google



### Performance Monitoring

Gain insight into your app's performance

## Grow & engage your audience



### Google Analytics

Get free and unlimited app analytics



### Cloud Messaging

Send targeted messages and notifications



### Dynamic Links

Drive growth by using deep links with attribution



### Remote Config

Modify your app without deploying a new version



### Invites

Make it easy to share your app and content



### App Indexing

Drive search traffic to your mobile app



### AdMob

Maximize revenue with in-app ads



### AdWords

Drive installs with targeted ad campaigns

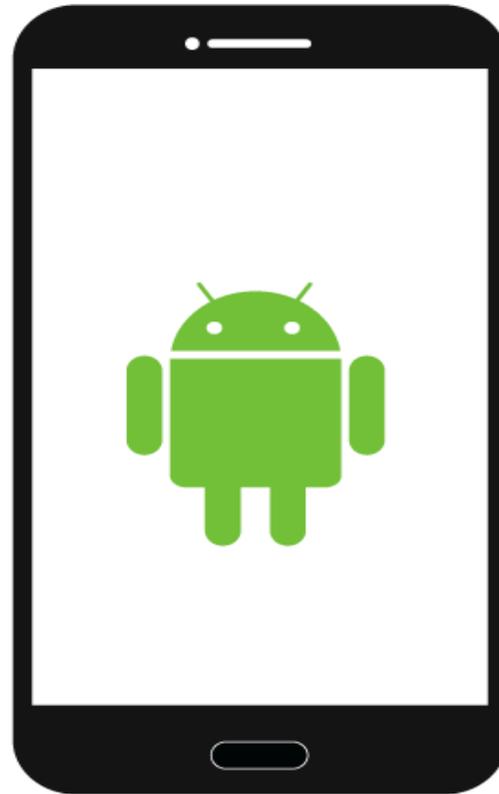


# So... You have an Idea For An App...

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What people think...

Create an android app  
what's the big deal??





# Idea For An App \*

In Reality



backend





# In Reality

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- ❑ That's a lot to learn
- ❑ A lot of code
- ❑ A lot of concerns
- ❑ A lot of resources
- ❑ A lot of maintenance
- ❑ And the most dangerous of all – a lot of unknowns



# And What About... \*

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# Enter The New Firebase

## GROW

-  Notifications
-  Remote Config
-  App Indexing
-  Dynamic Links
-  Invites
-  AdWords

## EARN



Analytics

## DEVELOP

-  Realtime Database
-  Authentication
-  Cloud Messaging
-  Storage
-  Hosting
-  Test Lab
-  Crash Reporting



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Thanks!

A simple line drawing of a smiling person with their arms raised in a gesture of gratitude. The person has a round face with a wide smile, two dots for eyes, and a few lines for hair. Their arms are raised, with hands open. A small '©' symbol is visible at the bottom right of the drawing.



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# Questions?