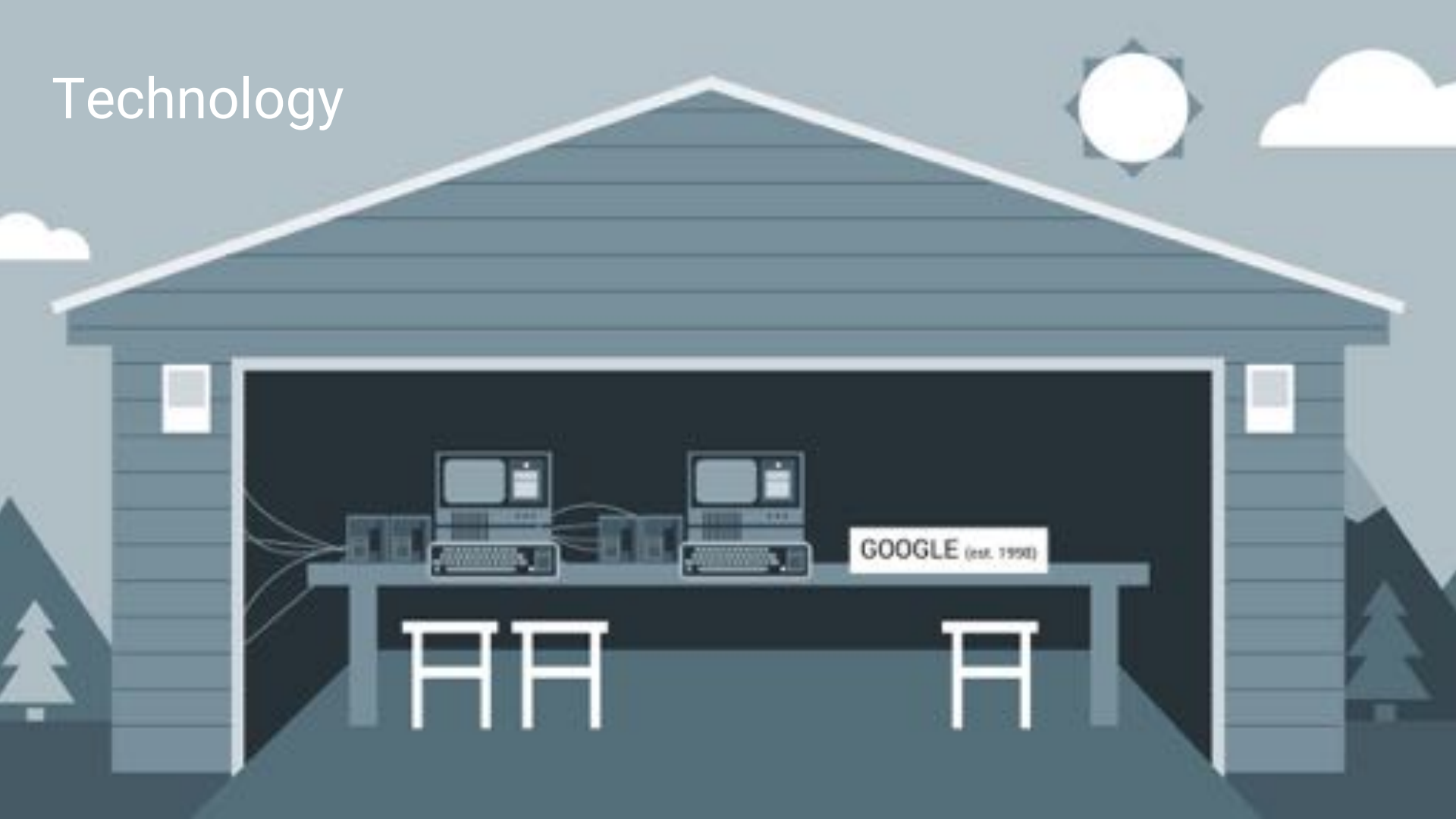
Technology

Technology



Technology

> “Any sufficiently advanced technology is indistinguishable from magic”
>
> Arthur C. Clarke

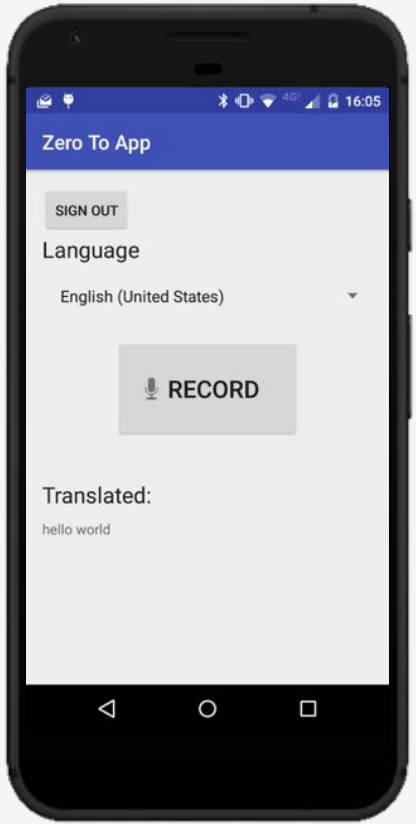
Science fiction

Science fiction

Science fiction

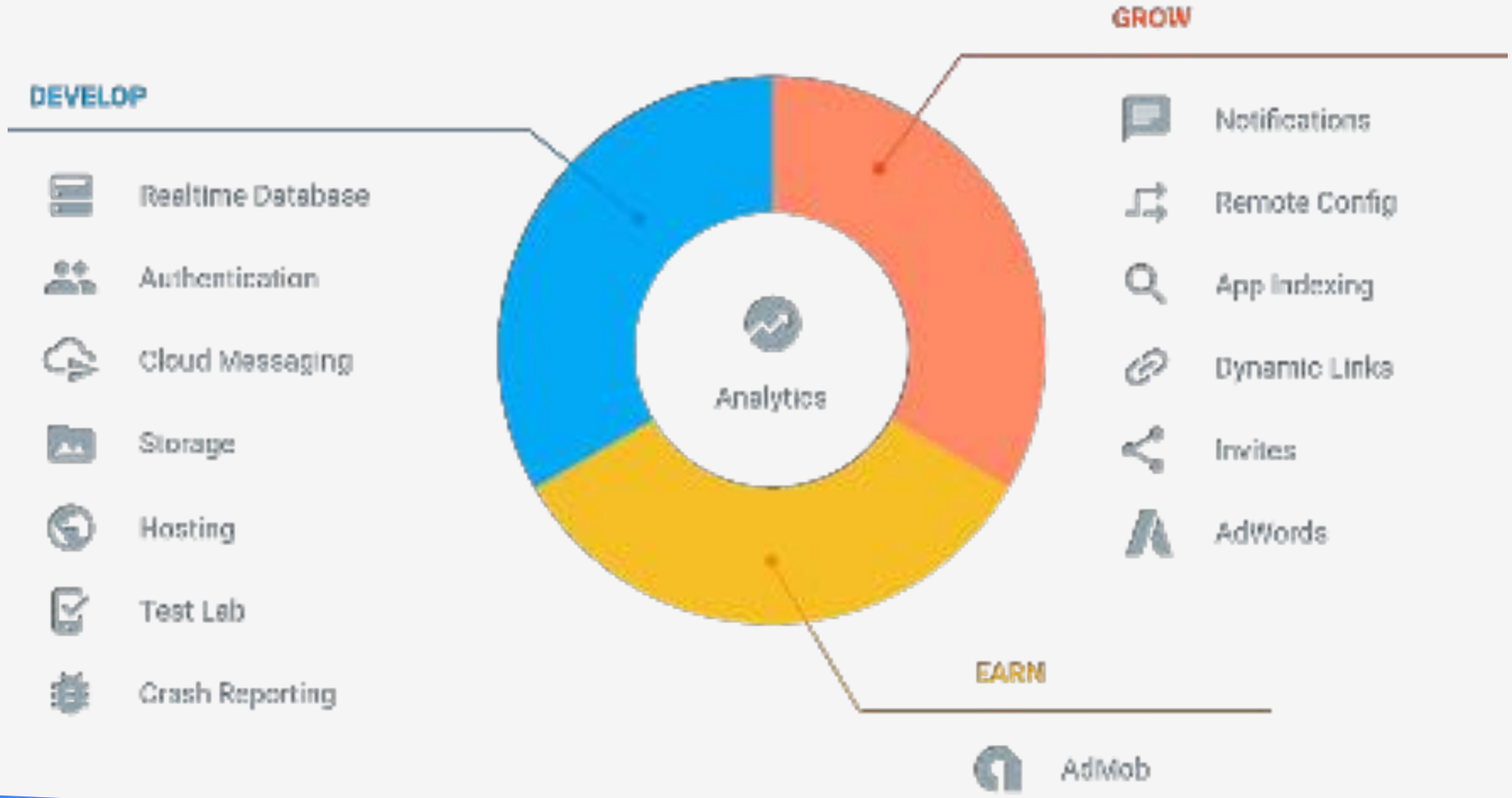
Language is the next barrier

Let's build an app!



Traditional mobile apps require servers

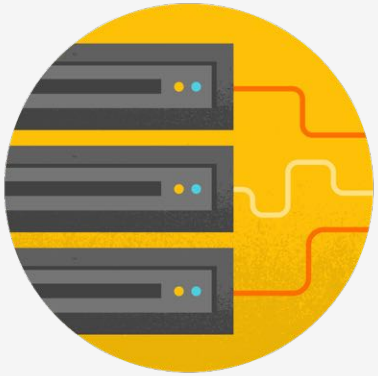
Firebase apps are serverless!


DEVELOP
Realtime Database
Authentication
Cloud Messaging
Storage
Hosting
Test Lab
Crash Reporting
Analytics
GROW
Notifications
Remote Config
App Indexing
Dynamic Links
Invites
AdWords
EARN
AdMob

Firebase developer primitives

Cloud Storage

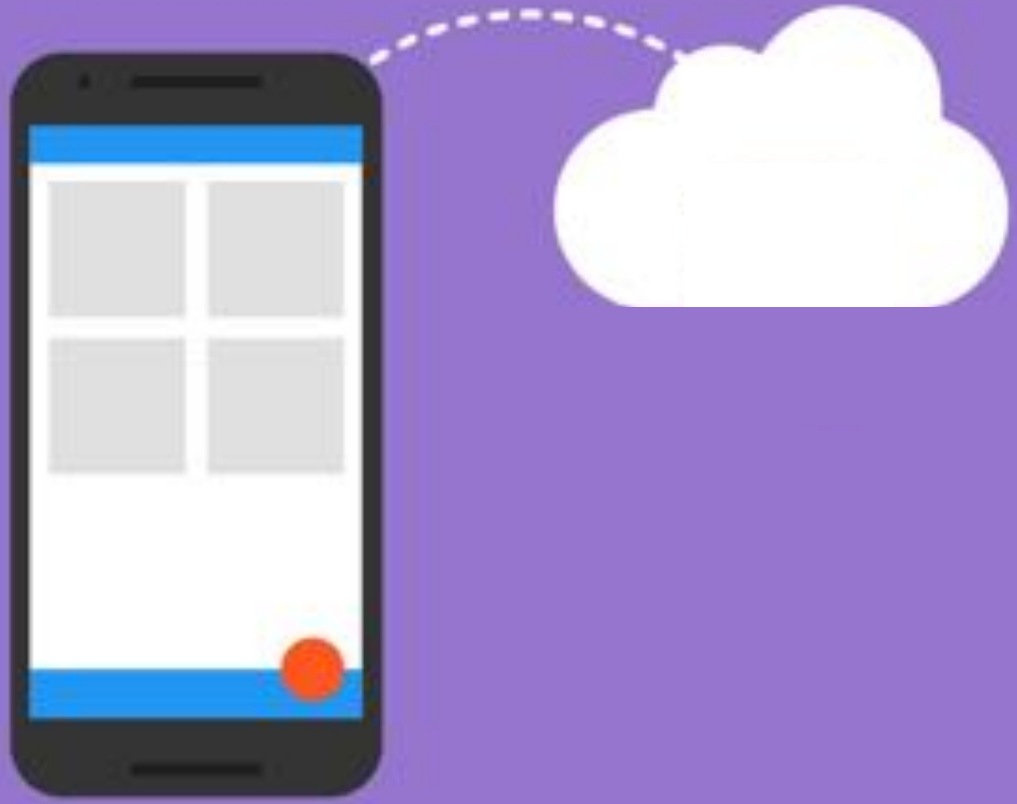
Authentication

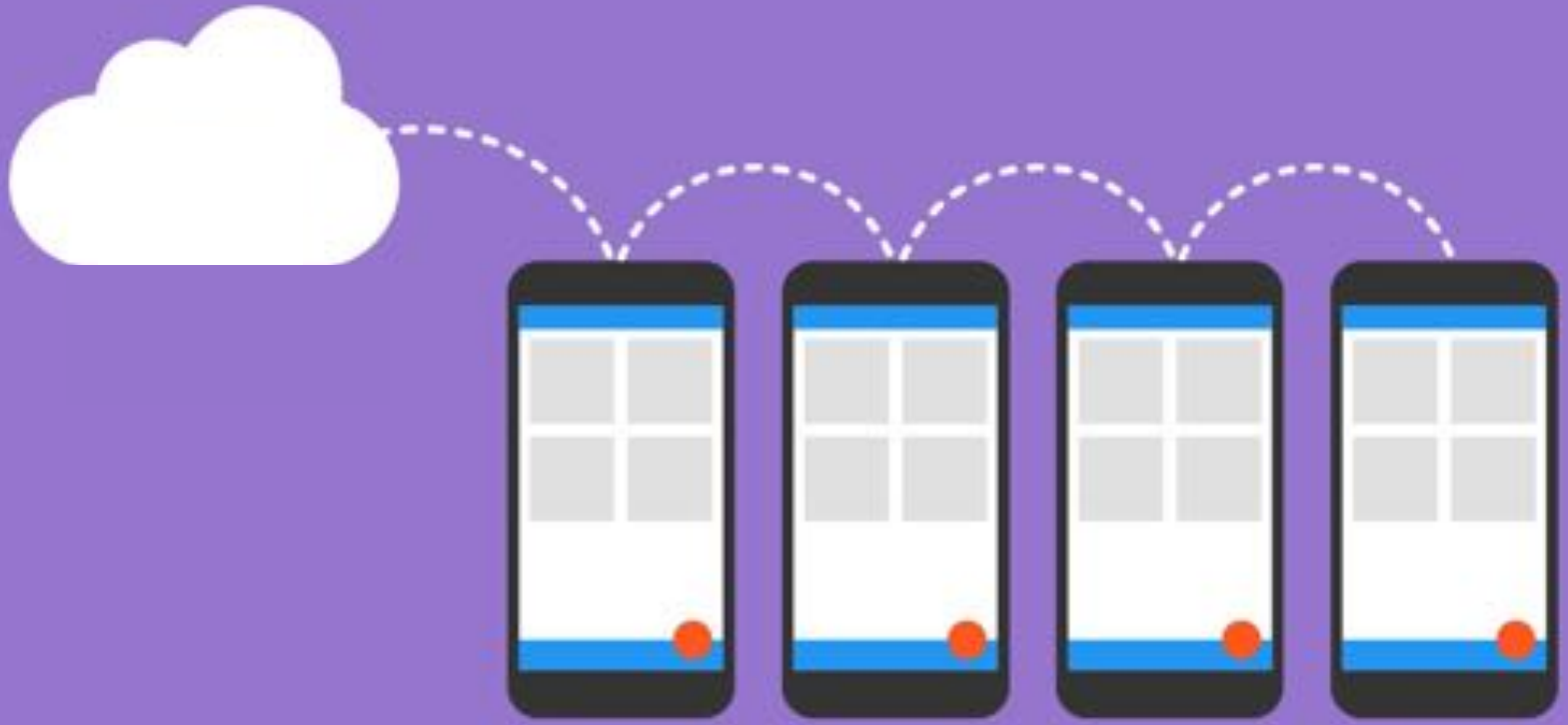


Realtime Database

Cloud Storage

for Firebase





Firebase Auth

Log in users on any provider

Auth: XB-49604260K

Firebase Database

“uploads”
“upload_1”
language: “en”
url: “gs://storage.googleapis.com”
“upload_2”
language: “es”
url: “gs://storage.googleapis.com”

Sync changes in real-time

Enough talk, let's code

Google Cloud Next

Firebase + Cloud
better together

Add some Machine Learning

Add some Machine Learning

Cloud Speech API

Cloud Translation API

Problem solved?

App
+ Firebase SDK

Firebase

Cloud
APIs

Problem solved?

App
+ Firebase SDK

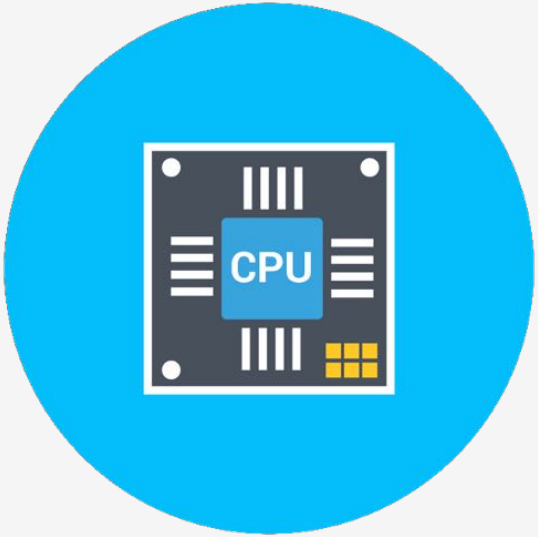
Firebase

?

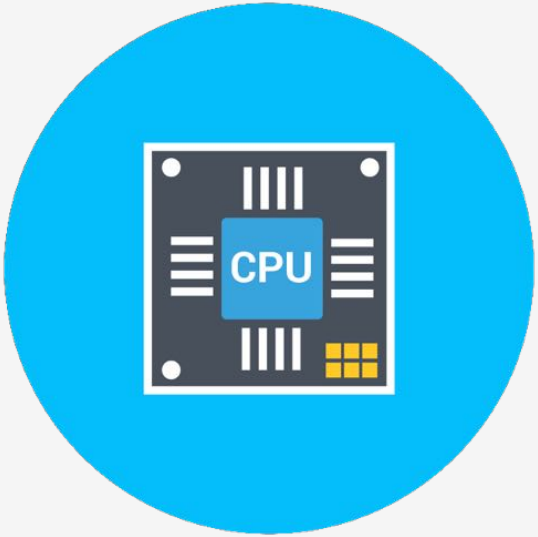
Cloud
APIs

Challenges

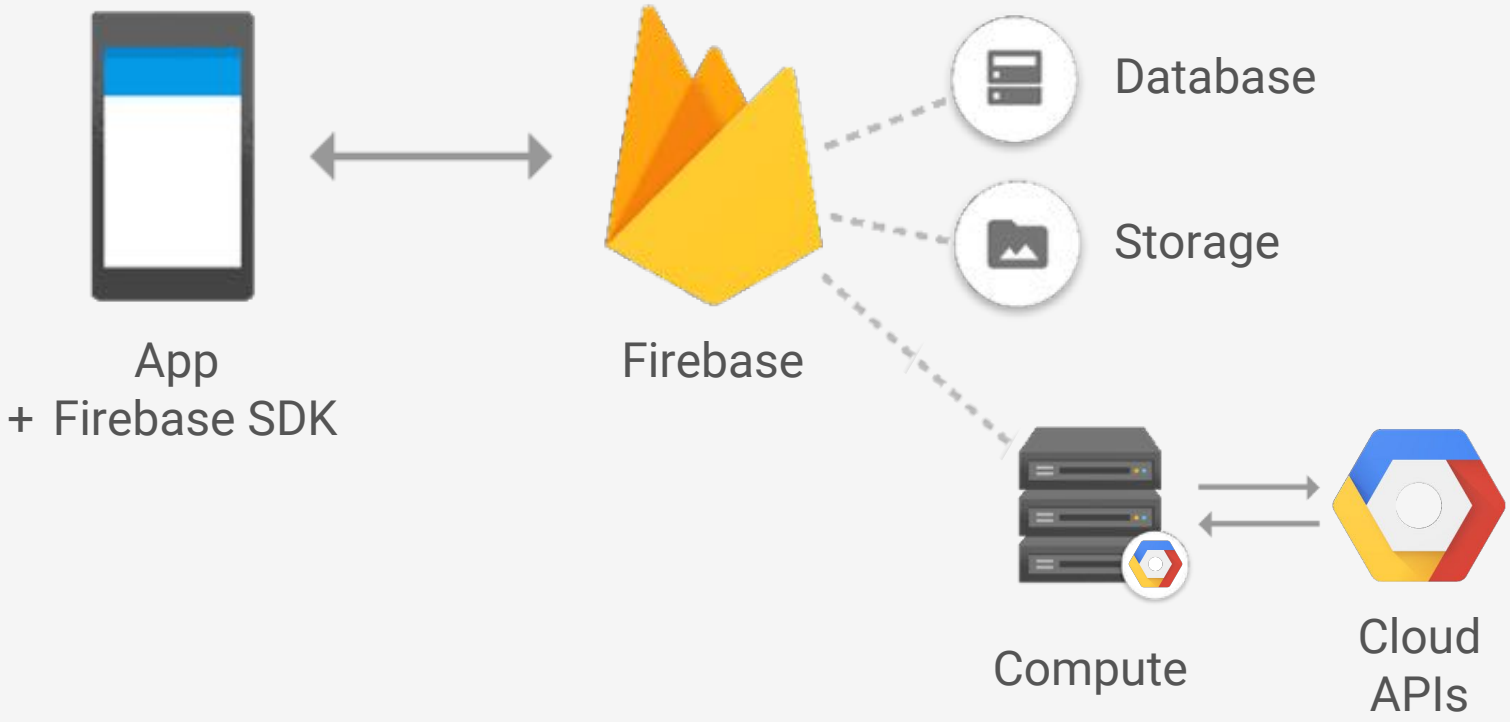
Challenges



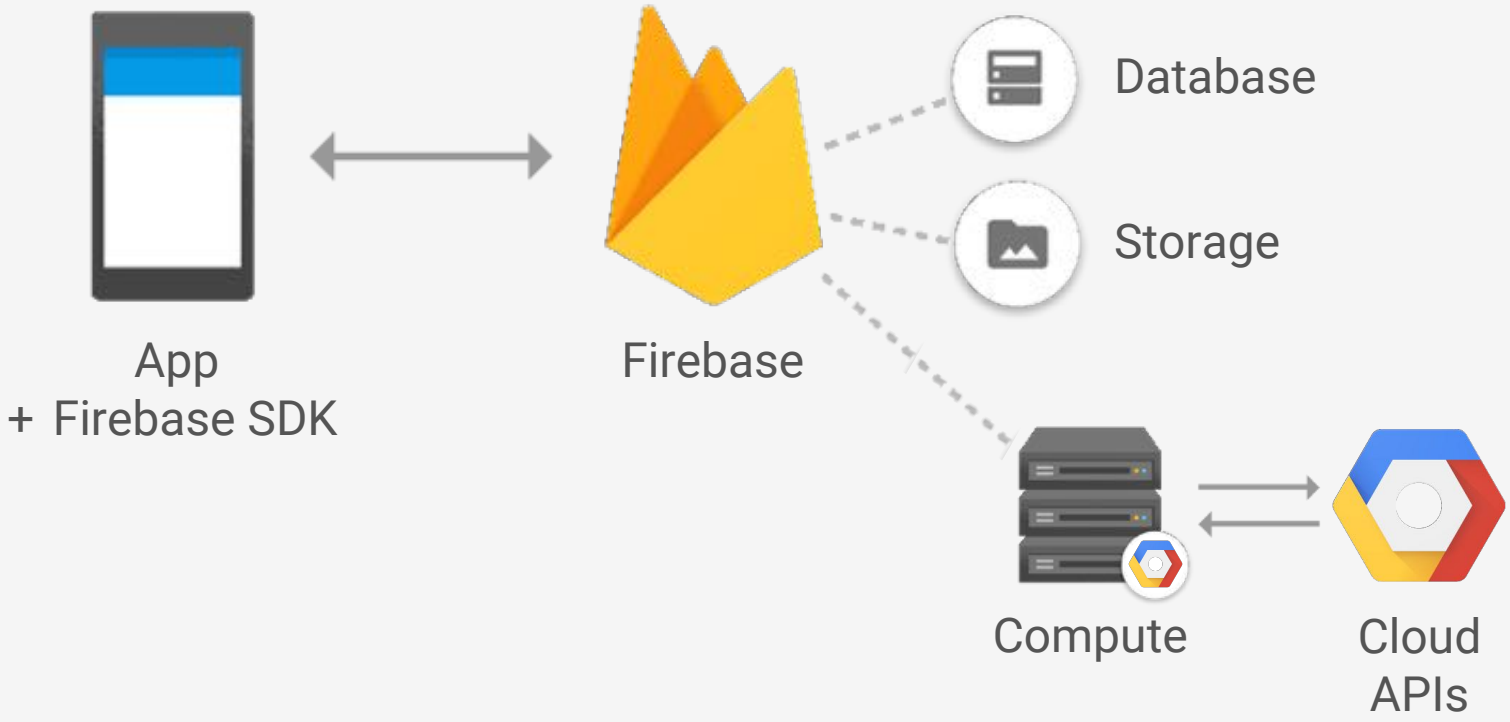
Challenges



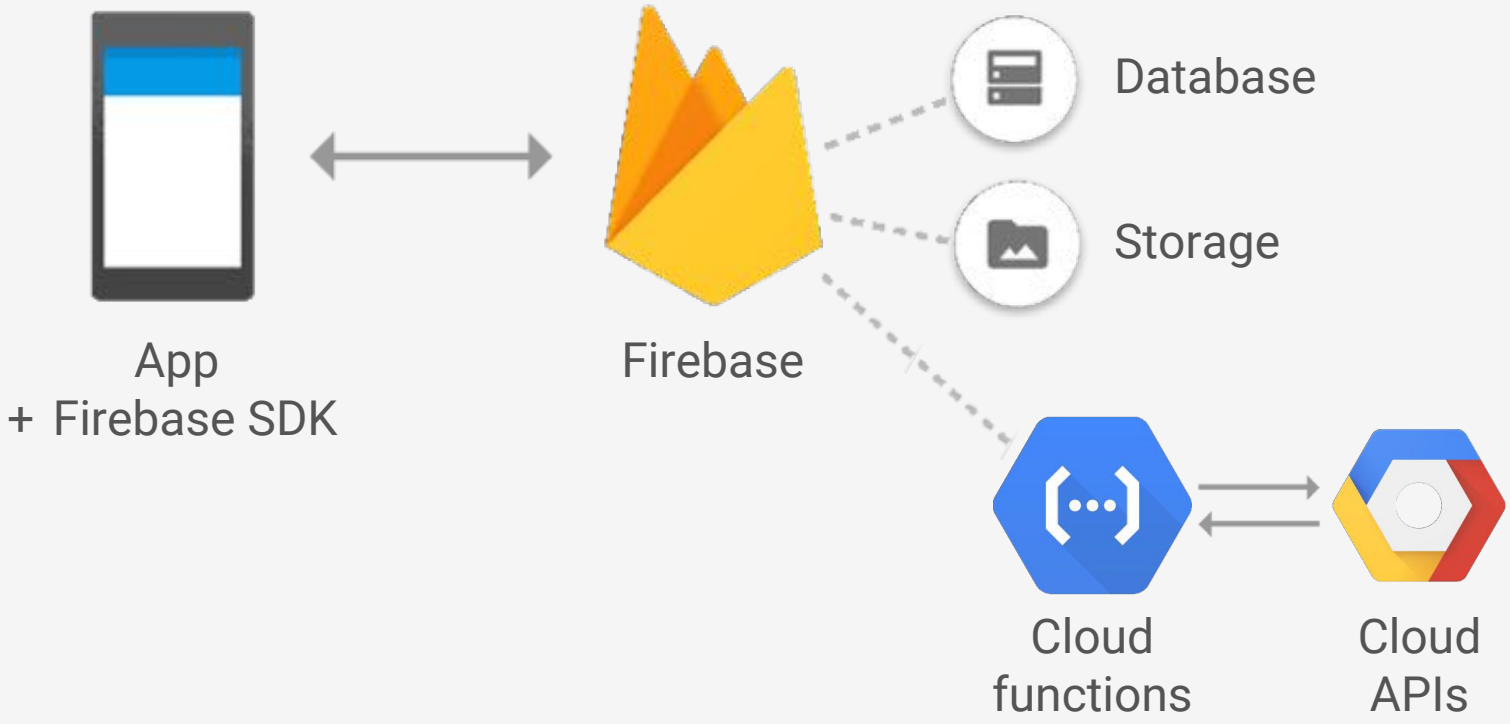
Adding servers



Adding servers?



Adding Cloud functions



New recipe

Enough talk, let's code more

Deploy

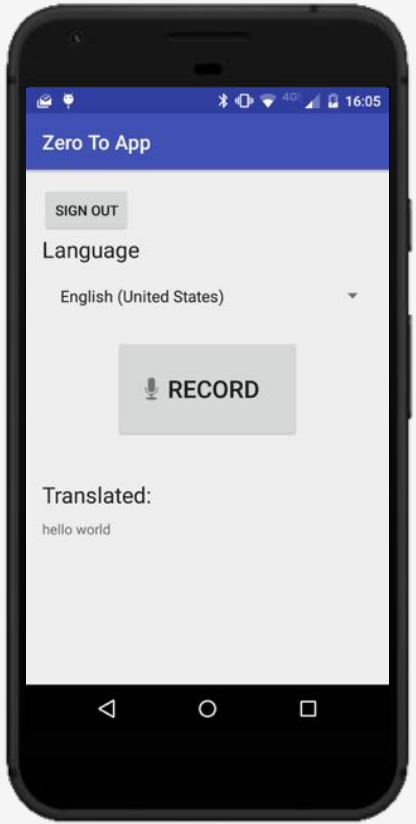
```
$ firebase deploy
=== Deploying to 'babel-fire'...
i  deploying database, functions, hosting
i  starting release process (may take several minutes)...
i  functions: updating function onUpload...
i  functions: updating function onTranscript...
...
✔  functions[onUpload]: Successful update operation.
✔  functions[onTranscript]: Successful update operation.
✔  functions: all functions deployed successfully!

✔  Deploy complete!

Project Console:
https://console.firebase.google.com/project/babel-fire/overview
Hosting URL: https://babelfire.cloud
```

babelfire.cloud

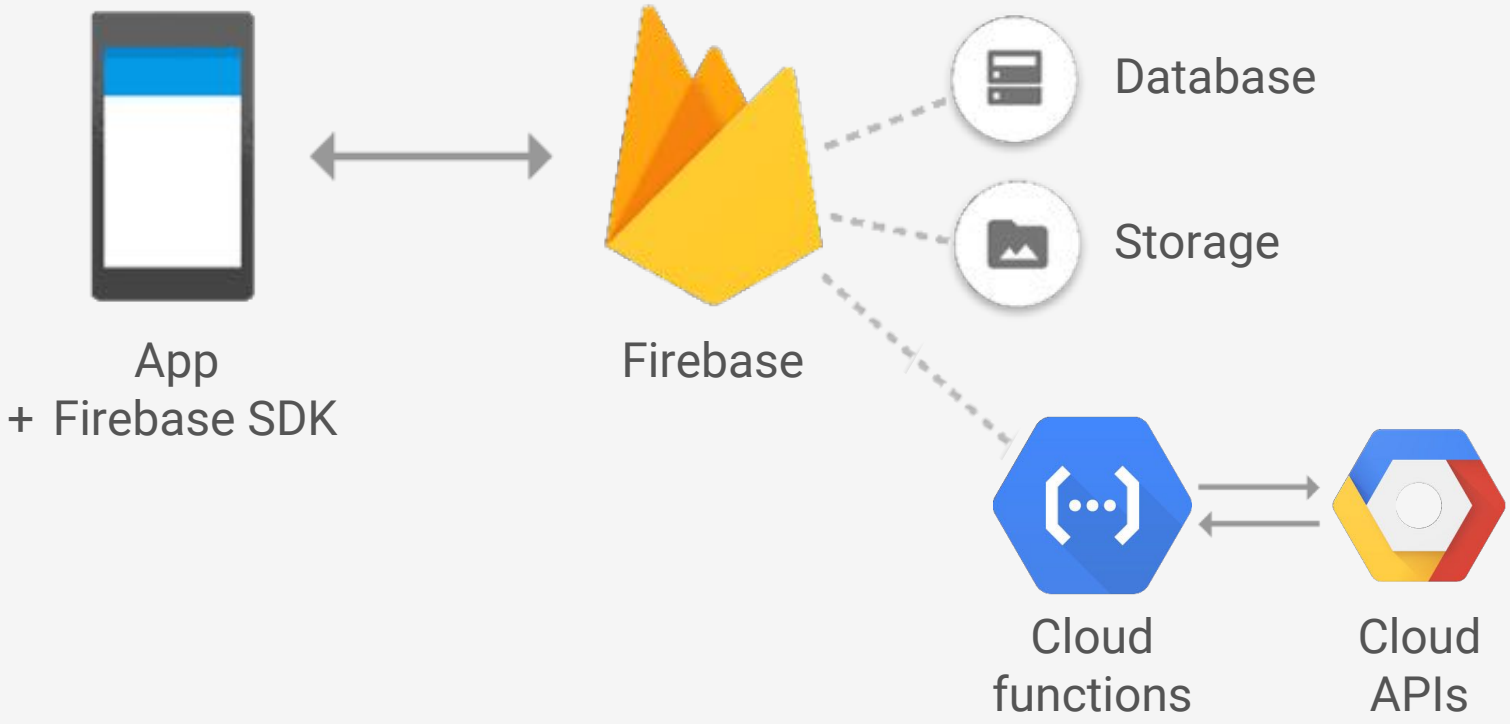
We've built two apps...



Before today, this is what you would have done

But Mike showed you a better way

Adding Cloud functions



SQL
文→A

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Thank you