



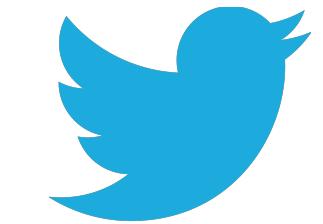
FIREBASE

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HI, I'M JACK

Senior Creative Technologist @ Cloudbees

P R E V I O U S W O R K



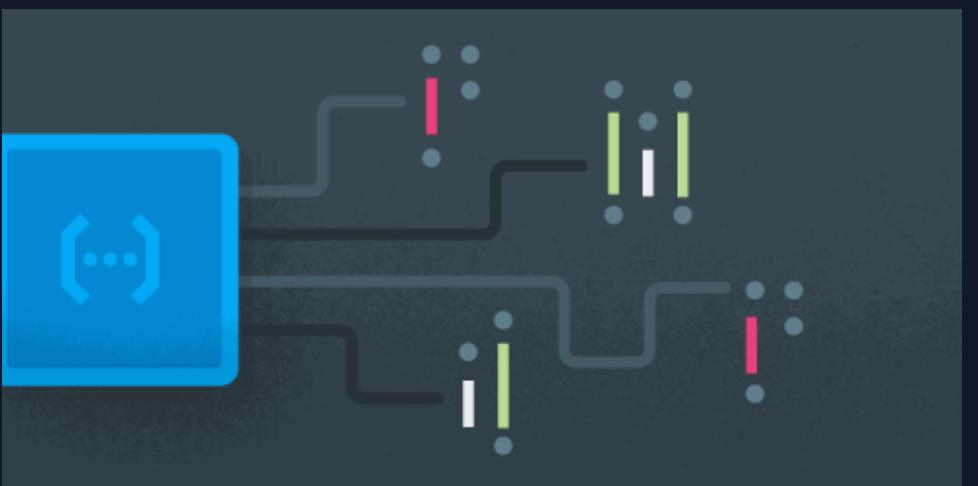


Firebase

FUN GOODIES



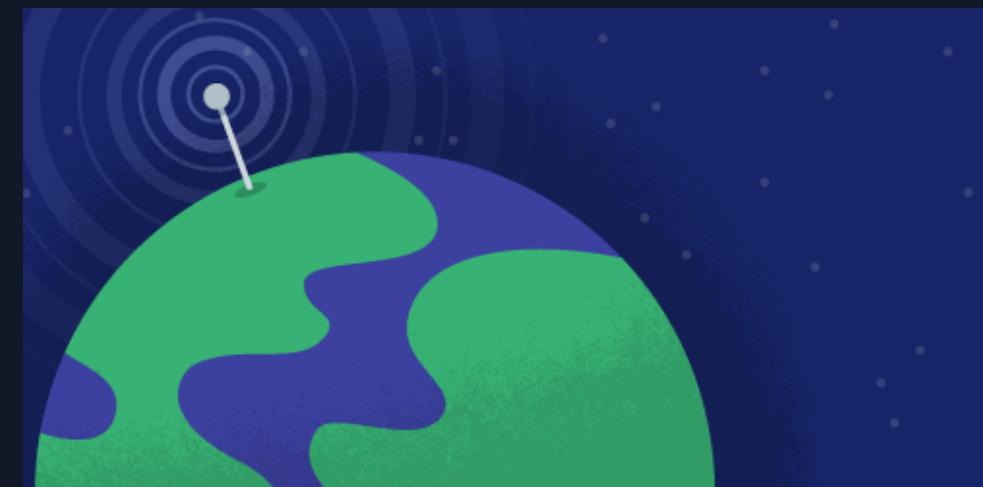
FIRESTORE



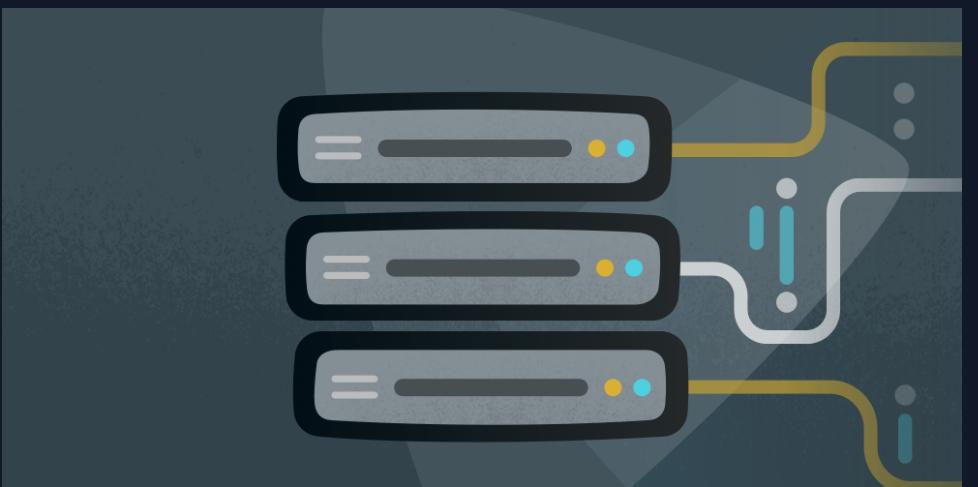
CLOUD FUNCTIONS



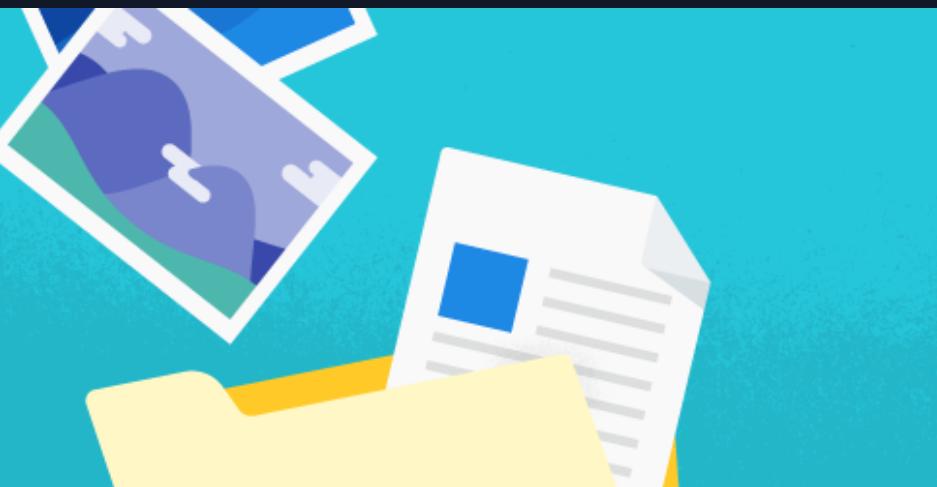
AUTHENTICATION



HOSTING



CLI



CLOUD STORAGE

FIRESTORE

Document / Collection DB service

NoSQL vs MySQL (a la MongoDB)

Realtime out of the box, Offline ready

Using snapshot listeners, you can subscribe to realtime transactions. If you lose connection, Firebase can reconcile transactions if configured.

Powerful querying

Basic queries are simple, and for more complex operations you can generate indexes for fast responses

Scalable

Up to 100k concurrent connections (apparently)



CLOUD FUNCTIONS

Super simple backends

Serverless framework either in TS or JS

Event, callable, or HTTPS driven

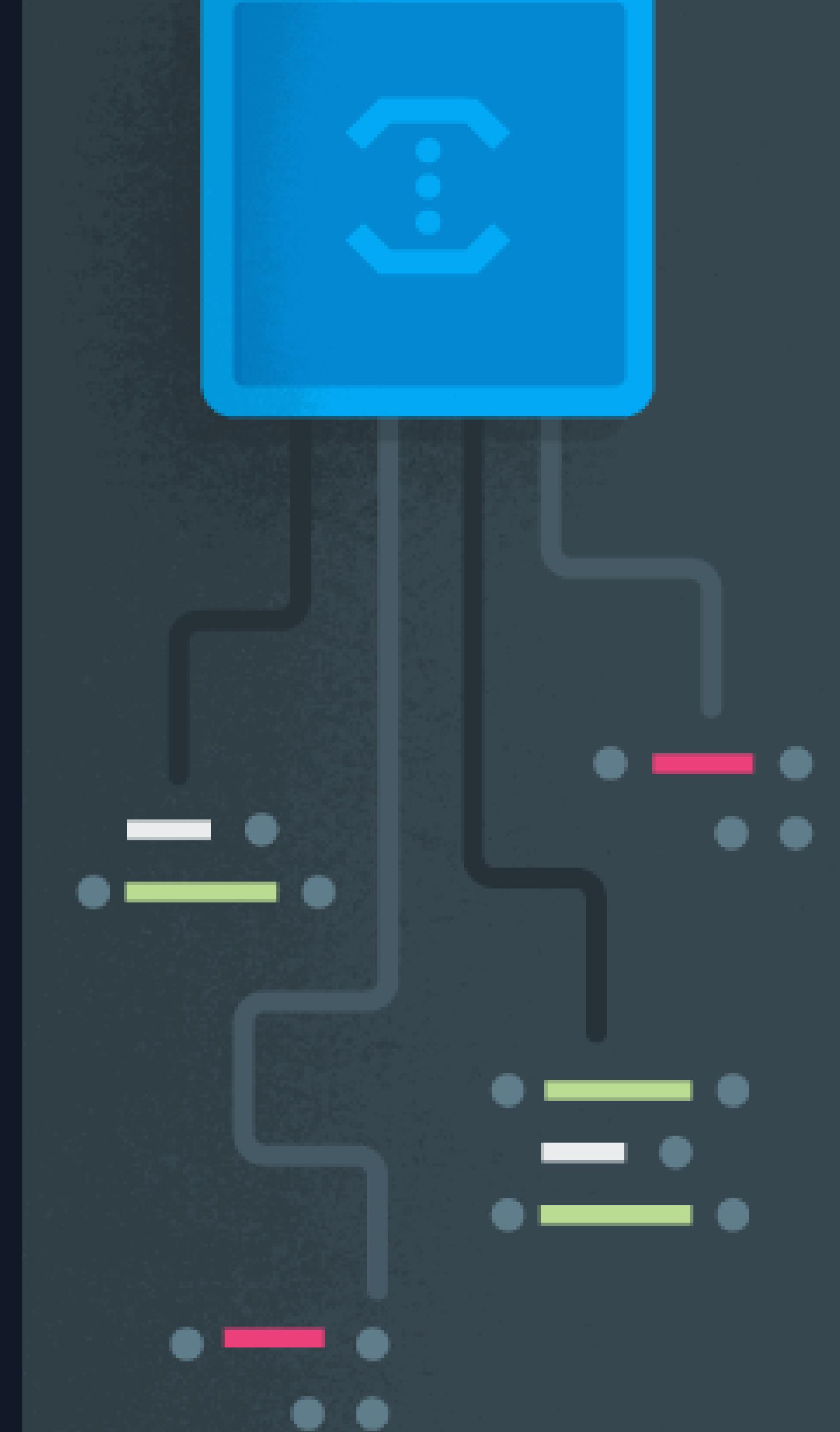
Functions run in response to events triggered by other Firebase features (Auth signups, Firestore record changes, Storage events), can be called from directly within your app, or over HTTPS.

Deployable from CLI

You can deploy functions just like hosting with a simple CLI command

Autoscaling

Function resources scale as usage does, meaning your functions don't fail, and you can scale easily.



CLOUD STORAGE

Object storage for the cloud

Save user-generated content, simply and securely.

Reliable infrastructure

Firebase Cloud Storage sits on the same infrastructure as Google and Spotify.

Secure by default

Works with Firebase Authentication out of the box.

Resumability

Resumable download and upload operations.



HOSTING

Global CDN

Put your software wherever your users are

Agnostic hosting

You can deploy static sites, SPAs, or even microservices

Branch / PR Previews

Like Heroku / Netlify, you can have previews built on every branch in your CI.

1-click rollback

Configurable actions to store several previous iterations of your sites, and roll-back with one click.

Multi-site hosting

Can host multiple sites under a single Firebase project.
(useful for admin panels, portals, etc)



AUTHENTICATION

Easy Authentication

Email and password implementation is very straightforward.

Federated Identity Provider

Google, Facebook, Github, Twitter

Integrate into existing auth systems

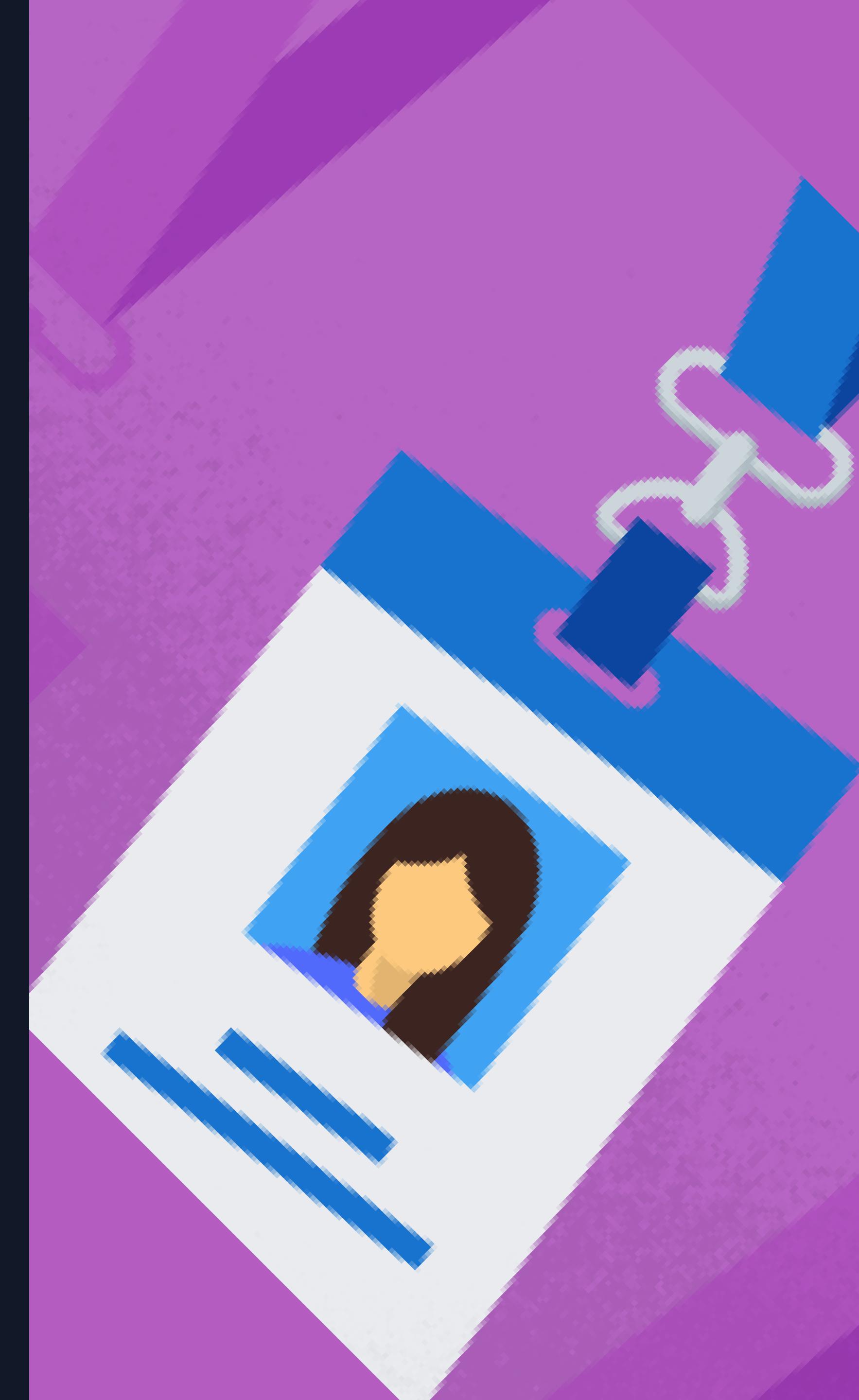
If you're into that sort of thing

Anonymous accounts

Allow your users to save data without signing up

Extensible

Can grow into fully-fledged Google IAM and do multi-tenancy



CLI

Easy setup

Literally install a package, that's it.

Deploy all the things

Functions, hosting, security rules.

CI integrations

Hook into your CI/CD pipelines.

Lots of options

Run `firebase` in your console, you'll see.

Emulators

Getting better all the time, run your entire infrastructure locally on your machine with emulators.



WORKSHOP TIME