# ¿Qué es Firebase?

Infraestructura y conjunto de herramientas para ayudarnos a construir aplicaciones web y móviles



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# ¿Qué puedes construir con Firebase?
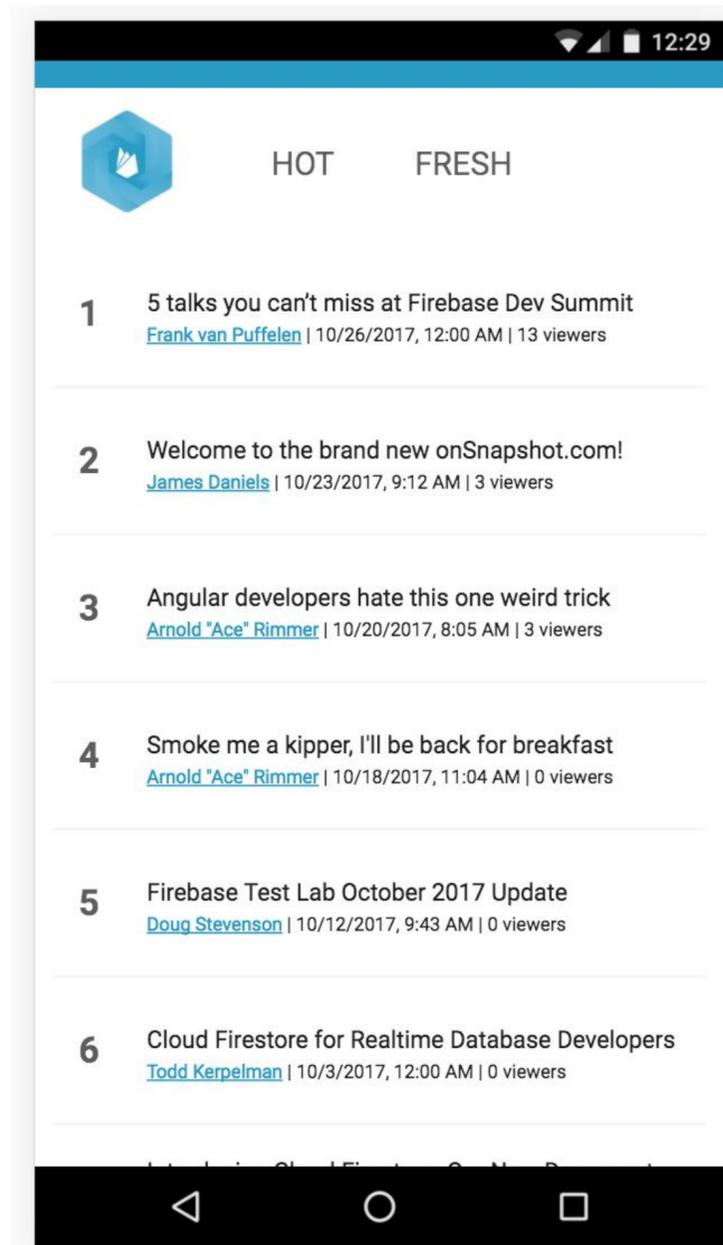


Ejemplo: PWA (Progressive Web App)

- Mostrar una lista de artículos.
- Mostrar los lectores/visitante actuales en tiempo real.
- Almacenar las imágenes de los usuarios.
- Hosting/Servicio de hospedaje de la Web
- Usuarios se pueden autenticar
- Usuarios pueden comentar
- Push Notifications

Fuente: OnSnapshot.com

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# Herramientas para construir

### Realtime Database

Build serverless apps by storing and syncing JSON data between your users in near-realtime, on or offline, with strong user-based security.

Learn more

### Remote Config

Set up feature flags during prototyping and development so you can dynamically control and optimize the user experience in production.

Learn more

### Firebase Extensions

Quickly add functionality to your apps with pre-packaged, open-source bundles of code.

Learn more

### Cloud Messaging

Get infrastructure to reliably send and receive push messages between your server and devices, across platforms at no cost.

Learn more

### Hosting

Deploy fast-loading, secure websites that are backed by a global CDN without all of the hassle.

Learn more

### Cloud Storage

Store and serve user-generated content with ease as your app grows from prototype to production-ready.

Learn more

### App Check

Help protect your app from abuse by attesting that incoming traffic is coming from your app and blocking traffic without valid credentials.

Learn more

### Cloud Functions

Write and run app logic server-side without needing to set up your own server.

Learn more

### Authentication

Add an end-to-end identity solution to your app for easy user authentication, sign-in, and onboarding in just a few lines of code.

Learn more

### Firebase ML BETA

Add powerful machine learning features to your app with ready-to-use APIs and support for custom model deployment.

Learn more

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# Firebase Authentication

Registro y Login de usuarios más sencillo

```javascript
import { initializeApp } from "firebase/app";
import { getAuth } from "firebase/auth";

// TODO: Replace the following with your app's Firebase project configuration
// See: https://firebase.google.com/docs/web/learn-more#config-object
const firebaseConfig = {
  // ...
};

// Initialize Firebase
const app = initializeApp(firebaseConfig);


// Initialize Firebase Authentication and get a reference to the service
const auth = getAuth(app);
```

```
import { getAuth, createUserWithEmailAndPassword } from "firebase/auth";

const auth = getAuth();
createUserWithEmailAndPassword(auth, email, password)
  .then((userCredential) => {
    // Signed in
    const user = userCredential.user;
    // ...
  })
  .catch((error) => {
    const errorCode = error.code;
    const errorMessage = error.message;
    // ..
  });
```

Registro de nuevos usuarios

```js
import { GithubAuthProvider } from "firebase/auth";

const provider = new GithubAuthProvider();

provider.addScope('repo');
```

```js
import { getAuth, signInWithPopup, GithubAuthProvider } from "firebase/auth";

const auth = getAuth();
signInWithPopup(auth, provider)
  .then((result) => {
    // This gives you a GitHub Access Token. You can use it to access the GitHub
    const credential = GithubAuthProvider.credentialFromResult(result);
    const token = credential.accessToken;

    // The signed-in user info.
    const user = result.user;
    // ...
  }).catch((error) => {
    // Handle Errors here.
    const errorCode = error.code;
    const errorMessage = error.message;
    // The email of the user's account used.
    const email = error.customData.email;
    // The AuthCredential type that was used.
    const credential = GithubAuthProvider.credentialFromError(error);
    // ...
  });
```

*Registro a través de un proveedor de OAuth (ej: GitHub)*

# Firebase Cloud Storage

Almacenaje y Servicio de archivos



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# Firebase Cloud Firestore

Base de Datos NoSQL RealTime

# Firebase Hosting

Sirve tu web al mundo.

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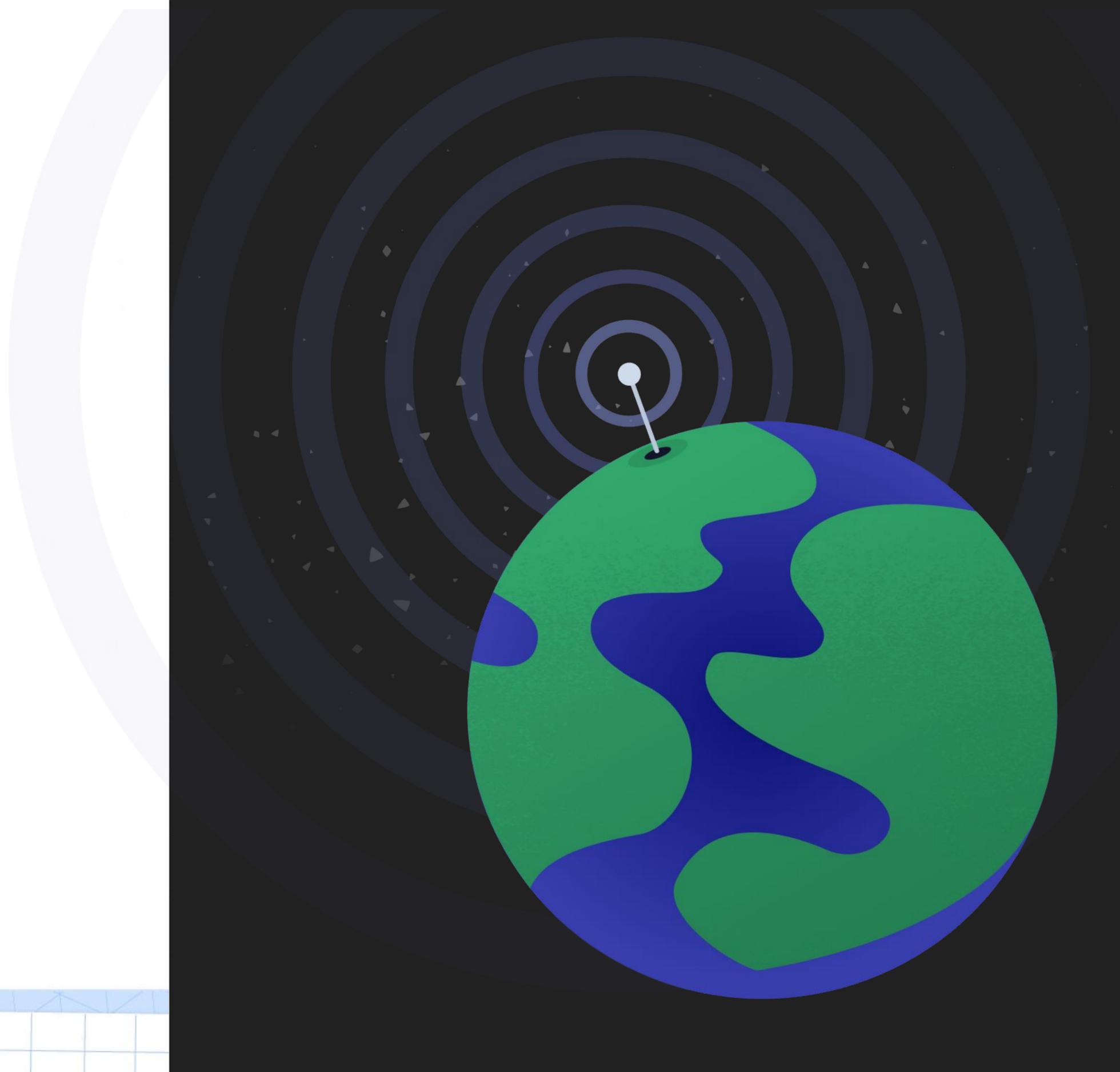
# Firebase Cloud Functions

FaaS: Funciones Lambda para ejecutar código Backend sin servers.

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# Firebase Extensions

Ahorra tiempo implementando features comunes

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# Extensions Marketplace by 🔥 Firebase

ALL EXTENSIONS    DOCS 🔗    FIREBASE CONSOLE 🔗
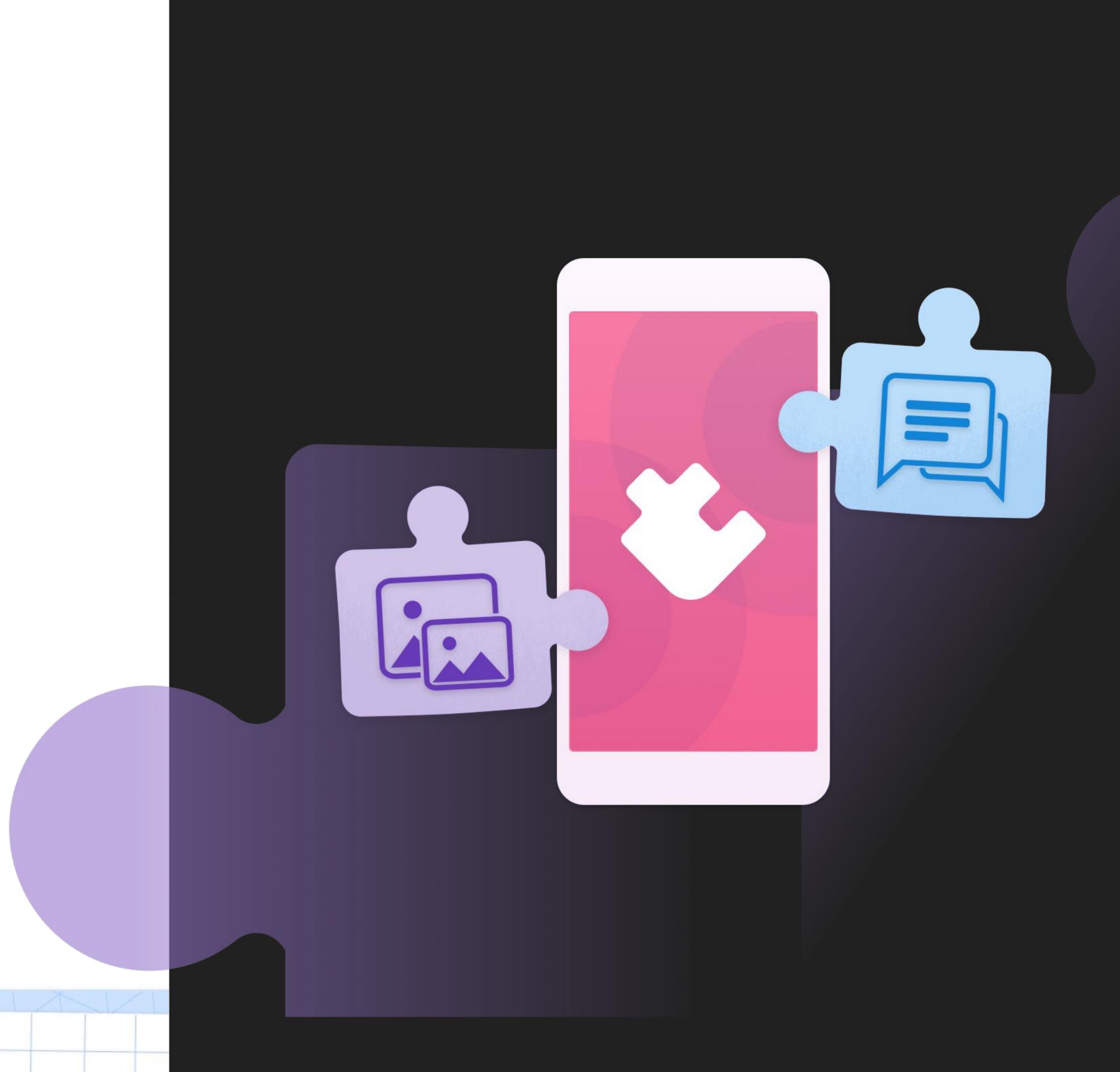
🔍 Search extensions

## Categories ⌃

- ☐ ✉ Marketing
- ☐ 💬 Messaging
- ☐ 🏷 Payments
- ☐ 🔍 Search
- ☐ 🚚 Shipping
- ☐ 👥 Social
- ☐ 🔧 Utilities

## Trending ⌃

- ☐ 💡 Spotlight
- ☐ 🔥 Popular

## Firebase products ⌃

- ☐ 👥 Authentication

### Search with Algolia
Made by **Algolia** ✅

Enables full text search of your Cloud Firestore data with Algolia.

🔍 Search

**Install**    View details

### Search with Elastic App Search
Made by **Elastic** ✅

Syncs documents from a Firestore collection to Elastic App Search to enable full-text search.

🔍 Search

**Install**    View details

### Delete User Data
Made by **Firebase** ✅

Deletes data keyed on a userId from Cloud Firestore, Realtime Database, or Cloud Storage when a user deletes the...

🔧 Utilities

**Install**    View details

### Stream Collections to BigQuery
Made by **Firebase** ✅

Sends realtime, incremental updates from a specified Cloud Firestore collection to BigQuery.

🔧 Utilities

### Distributed Counter
Made by **Firebase** ✅

Records event counters at scale to accommodate high-velocity writes to Cloud Firestore.

🔧 Utilities

### Trigger Email
Made by **Firebase** ✅

Composes and sends an email based on the contents of a document written to a specified Cloud Firestore...

💬 Messaging

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# Run Payments with Stripe

Made by [Stripe](#) ✔

Controls access to paid content by syncing your one-time and recurring payments with Firebase Authentication.

▢ Payments

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🔥 **TEST MODE**

Subscribe to premium

**$15.00** per month

---

**G Pay**

Or pay with card

**Email**

jenny.rosen@example.com

**Card information**

| 1234 1234 1234 1234 | VISA ●● ●● ●● |
| MM / YY | CVC |

**Name on card**

**Country or region**

Singapore ▾

**Subscribe**

By confirming your subscription, you allow firebase-billing to charge your card for this payment and future payments in accordance with their terms.

Powered by stripe | Terms Privacy

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🔥 **Test mode**

firebase-billing partners with Stripe for simplified billing.

← Return to firebase-billing

## Billing

**CURRENT PLAN**

**premium**
$15.00 per month

Your plan renews on July 7, 2020 using Visa •••• 4655.

**Change plan**  **Cancel plan**

**PAYMENT METHOD**

VISA •••• 4655          Expires 02/2022          ⋯

+ Add payment method

**BILLING HISTORY**

Jun 7, 2020 ↗     $15.00     premium

Powered by stripe | Terms Privacy

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# AI (Inteligencia Artificial)

# Ejemplos

**Write to:**

**1** /users/{uid}/followers/{id}

**New follower**

**2**

**3**

Database → Functions → FCM → **New message**

# Ejemplos



Write to:

1 **/msgs/{id}** → Database

**Read incoming message**

2

Functions

3 **Write sanitized message**

# Ejemplos