

# Firestore

Easily develop rich applications using a fully managed, scalable, and serverless document database.

New customers get \$300 in free credits to spend on Firestore. All customers get 1 GB storage free per project, not charged against your credits.

- Serverless document database that effortlessly scales to meet any demand, with no maintenance
- Accelerate development of mobile, web, and IoT apps with direct connectivity to the database
- Built-in live synchronization and offline mode makes it easy to develop real-time applications
- Fully customizable security and data validation rules to ensure the data is always protected
- Seamless integration with Firebase and Google Cloud services like Cloud Functions and BigQuery

Firestore is a NoSQL document database built for automatic scaling, high performance, and ease of application development. While the Firestore interface has many of the same features as traditional databases, as a NoSQL database it differs from them in the way it describes relationships between data objects.

## BENEFITS

### **Launch applications and features faster**

Firestore offers a great developer experience with built-in live synchronization, offline support, and ACID transactions. These features are available across a robust set of client and server-side libraries.

### **Effortlessly scale to meet unpredictable demand**

Firestore automatically scales up and down based on demand. It requires no maintenance, and provides high availability of 99.99–99.999% achieved through strongly consistent data replication.

## Simple and flexible with pay as you go

No-ops database lets you pay only for what you use—no up-front expenditure or underutilized resources. Simplified architecture lets your apps talk directly to Firestore from your mobile or web clients.

### KEY FEATURES

## Key features

### Serverless

Focus on your application development using a fully managed, serverless database that effortlessly scales up or down to meet any demand, with no maintenance windows or downtime.

### Live synchronization and offline mode

Built-in live synchronization and offline mode makes it easy to build multi-user, collaborative applications on mobile web, and IoT devices, including workloads consisting of live asset tracking, activity tracking, real-time analytics, media and product catalogs, communications, social user profiles, and gaming leaderboards.

### Powerful query engine

Firestore allows you to run sophisticated ACID transactions against your document data. This gives you more flexibility in the way you structure your data.

## All features

Serverless	Fully managed, serverless database that effortlessly scales up or down to meet any demand, with no maintenance windows or downtime.
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	gives you more flexibility in the way you structure your data.
Libraries for popular languages	Focus on your application development using Firestore client-side development libraries for Web, iOS, Android, Flutter, C++, and Unity. Firestore also supports traditional server-side development libraries using Node.js, Java, Go, Ruby, and PHP.
Security	Firestore seamlessly integrates with Firebase Authentication and Identity Platform, to enable customizable identity-based security access controls and enables data validation via a configuration language.
Multi-region replication	With automatic multi-region replication and strong consistency, your data is safe and has a 99.999% availability guarantee, even when disasters strike.
Datastore mode	Firestore supports the Datastore API. You won't need to make any changes to your existing Datastore apps, and you can expect the same performance characteristics and pricing with the added benefit of strong consistency. Existing Cloud Datastore databases will be automatically upgraded to Firestore starting in 2021.

## Cloud Firestore

Cloud Firestore is a flexible, scalable database for mobile, web, and server development from Firebase and Google Cloud. Like Firebase Realtime Database, it keeps your data in sync across client apps through realtime listeners and offers offline support for mobile and web so you can build responsive apps that work regardless of network latency or Internet connectivity. Cloud Firestore also offers seamless integration with other Firebase and Google Cloud products, including Cloud Functions.