

MongoDB Realm



MongoDB Realm is the better way to build cross-platform mobile applications that sync in real-time and deliver great experiences, even for users with spotty connections.

Core to MongoDB Realm is the Realm Mobile Database, which offers developers an intuitive way to work with data for mobile applications; and Realm Sync, which seamlessly synchronizes data between end user devices and MongoDB Atlas.

Realm's application services such as GraphQL, triggers & functions, and declarative access control rules further reduce the code teams need to write when getting their applications off the ground.



A Better Way to Build For Mobile

- **Realm Mobile Database** is a lightweight, embedded database that replaces SQLite and Core Data. Your developers can enjoy working with a flexible, object-oriented data model aligned to how they already think and code. It can be used across Android and iOS applications with SDKs for Java, Swift, React Native, and more. The database is open source and has been downloaded to user devices over 2 billion times.
- **Realm Sync (beta)** provides seamless, bidirectional data synchronization between the Realm Mobile Database and MongoDB Atlas, the global cloud database service for MongoDB. Sync works out-of-the-box, eliminating the thousands of lines of conflict resolution and networking code that you would otherwise have to write and maintain.

A Better Way to Build, Period

- **Realm GraphQL** is a service that grants applications access to data stored in linked MongoDB Atlas clusters using any standard GraphQL client. The service automatically creates GraphQL types for linked MongoDB collections that have a defined document schema and uses role-based permissions for all GraphQL requests.
- **Realm Access Control Rules** allow you to declaratively set field-level permissions for end users and apply those settings across multiple applications and platforms. It is the easiest way to ensure data security and end user privacy, across your entire application.
- **Realm Functions** let you to define and execute JavaScript functions without worrying about provisioning or managing servers, making it easy to implement application logic, securely integrate with cloud services, and build APIs.
- **Realm Triggers** enable you to execute database or application logic using functions automatically, either in response to events or on a predefined schedule. Supported triggers include database triggers, which fire when documents in a collection are added, updated, or removed; authentication triggers, which can help execute server-side logic when a user is created, authenticated, or deleted; and scheduled triggers, which execute functions at preset time intervals.

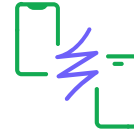
Why MongoDB Realm?



Fast queries with embedded database



Designed with offline-first experience in mind



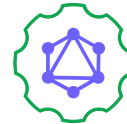
Cross-platform support across Android and iOS



Out-of-the-box sync



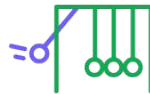
Built-in conflict resolution



GraphQL access to backend



Declarative access control rules protect end user privacy



Triggers enable event-driven applications



Serverless functions reduce infrastructure requirements

Resources

We are the MongoDB experts. Over 20,000 organizations rely on our commercial products. We offer software and services to make your life easier. For more information, please visit mongodb.com or contact us at sales@mongodb.com.

- Case studies (mongodb.com/customers)
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