MongoDB Atlas

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Database as a Service on Amazon Web Services (AWS)

Product overview

MongoDB Atlas delivers a database for modern applications as a fully automated cloud service engineered and run by the same team that builds the database. Proven operational and security practices are built in, automating time-consuming administration tasks such as infrastructure provisioning, database setup, ensuring availability, global distribution, backups, and more. The easy-to-use control panel and API let you spend more time building your applications and less time managing your database.

Benefits:

- **Automated database lifecycle** - MongoDB Atlas automates infrastructure provisioning, setup, and deployment so your teams can get the database resources they need, when they need them. Patches and minor version upgrades are applied automatically. And when you need to modify your cluster — whether it's to adjust capacity or perform an upgrade — Atlas lets you do so in a few clicks or API calls with no downtime windows required.
- **Always on and durable** - With MongoDB Atlas, your self-healing clusters are made up of geographically distributed database instances to ensure no single point of failure. You can even replicate your database across multiple cloud regions for multi-region fault tolerance. Atlas also includes powerful features to enhance reliability for your mission-critical production databases, such as continuous backups with point-in-time data recovery.
- **Highly scalable for global applications** - MongoDB Atlas allows you to scale your database's compute, memory, and storage resources with only a few mouse clicks or an API call. If you need to scale your application to serve globally dispersed users, you can easily deploy a single, distributed database that spans as many cloud regions as you need and provide low latency, responsive read and write access anywhere in the world.
- **Secure from the start** - With MongoDB Atlas, your databases are deployed in unique Virtual Private Clouds (VPC) for network isolation. Leverage IP whitelisting or VPC Peering, always-on authentication, encryption at rest and encryption in transit, and sophisticated role-based access management to control access to your data. Atlas also supports enterprise security features such as encryption key management, Lightweight Directory Access Protocol (LDAP) integration, and database-level auditing for organizations with more advanced requirements.
- **Simplified performance optimization -** MongoDB Atlas includes an integrated set of features that take the pain out of database monitoring and optimization. Get deep visibility into your cluster using optimized charts tracking dozens of key metrics. Easily customize and send alerts, see what's happening in your cluster in real-time, and take advantage of automatically generated suggestions on how to improve query performance.

Product features

Live migrate your data

Supporting an app with a MongoDB cluster running somewhere else? Want to migrate an Atlas database between cloud providers? No problem — Atlas makes it simple to live migrate your data with minimal impact to your application.

Connect to visualize your data

Use MongoDB Atlas as a data source for your SQL-based BI and analytics platforms. Seamlessly create visualizations and dashboards to help you extract actionable insights from your multi-structured data.

Restore data in minutes

Accidentally delete an important document? Rather than restore your entire database, MongoDB Atlas allows you to perform queries against your backup snapshots and restore data at the document level in minutes.

React quickly to anomalies

See what's happening in your cluster live so you can react quickly. In addition to showing memory usage, network in/out, and operations, the built-in real-time performance panel highlights your hottest collections, long-running queries, and lets you kill slow operations.

Receive automated performance tips

The built-in Performance Advisor will highlight the collections experiencing suboptimal performance, give you examples of slow-running queries and relevant metrics, and most importantly, automatically generate index suggestions to help you optimize your database.

Support applications serving a global audience

Global clusters in MongoDB Atlas allow you to deploy a fully managed, distributed database that provides low latency, responsive reads and writes to users anywhere, with strong data placement controls to satisfy regulations.

Support your most sensitive workloads

Enterprise security features such as LDAP integration, encryption key management, and database-level auditing grant you more control over how you secure your environment.

Support for protected health information

Use MongoDB Atlas to develop HIPAA-compliant services and solutions that address business needs in the healthcare space.

Solution available in [AWS Marketplace](#)