



Enterprise Data Security Requirements

The frequency and severity of data breaches continues to escalate, with researchers estimating attacks are increasing nearly 50% year on year. Databases store an organization's most important information assets, so securing them is top of mind for security administrators.

Security administrators expect easy integration with external systems, while developers want to focus their energy on business requirements. They expect security to be always-on by default. MongoDB has designed its security principles to meet enterprise security requirements, including:

- Extensive security features for protecting data
- Simple and strong security default settings, so developers can focus on application and business requirements
- Enterprise-grade security that meet industry standards

Data Security in MongoDB Atlas

Companies across industries are modernizing their data platforms to leverage modern applications and advanced analytics as they are moving their data to cloud. **With cybersecurity attacks rising in sophistication, security and data protection in the cloud is top of mind for enterprises.**

MongoDB Atlas offers built-in security controls for all your data. Atlas enables enterprise-grade features to integrate with your existing security protocols and compliance standards. In addition, Atlas simplifies deploying and managing your databases while offering the versatility for developers to build resilient applications.

Enterprise Security Requirements

 Authentication

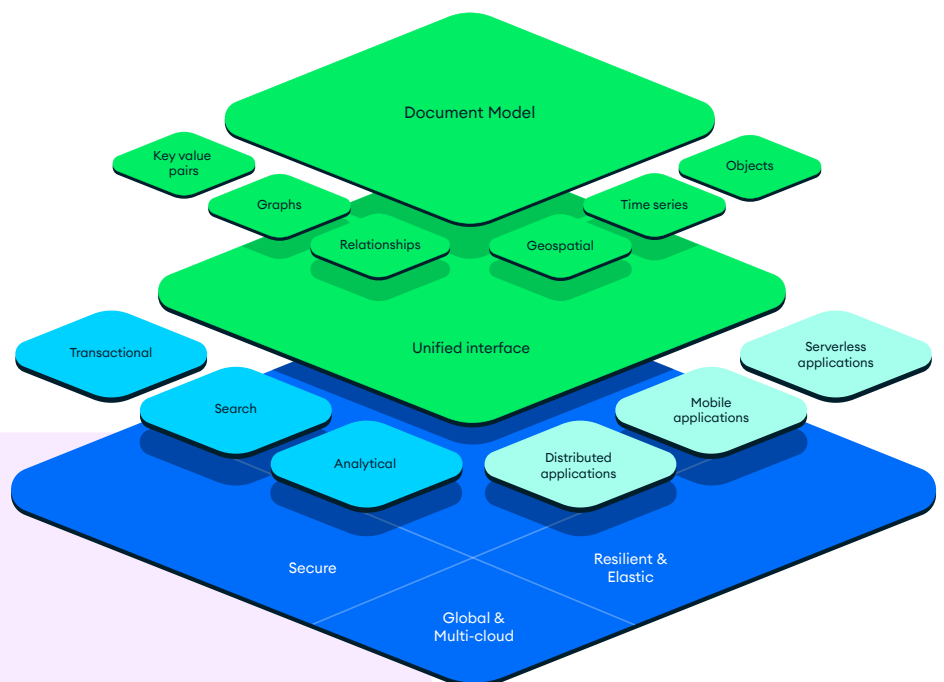
 Authorization

 Auditing

 Encryption

 Network Security

 Compliance



MongoDB Security Overview

Security Requirement	Description
Authentication	MongoDB supports various authentication methods including password authentication using SCRAM, x.509 certificate authentication, Kerberos, and LDAP. Customers can also authenticate to MongoDB Atlas database clusters using AWS IAM credentials .
Authorization	Administrators can configure granular, user-defined roles for role-based access control (RBAC), making it possible to realize a fine-grained separation of duties between different entities accessing and managing the database. Authorization can be managed in MongoDB or via an LDAP server.
Auditing	Administrators can use MongoDB's native audit log to track all access and operations taken against the database, with events written to the console, syslog, or a file for forensic analysis. Atlas offers an activity feed that logs any actions or changes that are made in Atlas and by whom, in addition to always-on database authentication auditing for M10 Tiers and above.
Encryption	Data in MongoDB is encrypted in-transit, at-rest and in-use. Traffic from clients to MongoDB clusters are encrypted in-transit using TLS . MongoDB has built-in encryption at-rest for disks by default. Customers running MongoDB Atlas may choose to bring their own key (BYOK) and enable database-level encryption for sensitive workloads. Client-Side Field Level Encryption (FLE) provides among the strongest levels of data privacy and security for regulated workloads. Customers can selectively encrypt individual fields or multiple fields within the document, and encryption is done before the data is transmitted and stored in MongoDB.
Network Security	MongoDB Atlas database instances are deployed in a unique Virtual Private Cloud (VPC) to ensure network isolation. Customers can connect to Atlas via either public IPs that are protected with IP access lists or private IPs via network peering or private endpoints . Atlas customers can leverage private endpoints provided by AWS, Azure or GCP to allow traffic between applications and Atlas clusters over a private network.
Compliance	MongoDB Atlas undergoes independent verification of platform security, privacy, and compliance controls. MongoDB Atlas is compliant with global information security standards such as ISO 27001 , ISO 27017 , ISO 27018 , SOC 2 Type II , PCI-DSS , GDPR , HIPAA , CSA STAR , and SOC 2 + HITRUST . MongoDB Atlas for Government is a dedicated environment built on AWS GovCloud and FedRAMP regions, and is FedRAMP In-Process for US government workloads. Refer to mongodb.com/trust for MongoDB's latest certifications.

Resources

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