

# Efficiently store, manage, and scale your data

## Reduce data storage costs with MongoDB Atlas on AWS

Unstructured data makes up about 80 percent of big data. However, enterprises can experience challenges storing this data due to its high volume, variety, and velocity. Document databases help solve this issue because users can store and query unstructured data as JSON (JavaScript Object Notation)-like documents.

MongoDB Atlas is a fully managed document database service that enables you to capture more value from your unstructured data. MongoDB's developer data platform empowers you to build and scale faster, reduce data storage costs, and minimize data architecture complexity. With MongoDB, you can develop applications that are highly available, performant at scale, and meet security and privacy standards.

### How it works

MongoDB replaces the rigid tables of relational databases with flexible documents that are suited for the way developers think and code. Instead of storing data in columns and rows, MongoDB can store data as JSON. As a document database, MongoDB can store any type of data, and the structure of documents can be quickly modified. This enables developers to be more productive and build or iterate upon their applications faster.

### Key benefits



#### Fast and seamless for developers

Documents in MongoDB's database directly align to the objects in your code, making them easier to work with. Also, data that is accessed together is typically stored together, so you have less code to write and users get higher performance.

In collaboration with:



### Customer success: Reducing storage costs with automated data tiering

**Nesto** is a platform that uses artificial intelligence (AI) to forecast optimal staffing requirements, automating common tasks such as time management and tracking of employee records. Founded in 2017, Nesto has tripled in growth and was determined to find a database that would allow it to scale without compromising on storage costs or the end-user experience. Nesto turned to MongoDB to help reduce its time to market with a Database-as-a-Service offering, MongoDB Atlas. Nesto also used MongoDB Atlas Online Archive to automate data tiering for its read audit collection, which helped the company save 60 percent in data storage costs and 70 percent in cloud backup costs. Using MongoDB Atlas on AWS, Nesto has the support needed to automate hospitality tasks and operate more efficiently.

## Key benefits continued



### Flexible schema

With MongoDB, a document's schema is dynamic and self-describing, so you don't need to predefine it in the database. Fields can vary from document to document, and you can modify the structure at any time. This allows you to integrate new application functionality without dealing with disruptive schema migrations.



### Reliably process and sort data

JSON documents allow you to structure data in any way your application needs, such as rich objects, key-value pairs, tables, geospatial and time series data, and the nodes and edges of a graph. As a result of these properties, you can serve more classes of applications with a single database.

## Reduce storage costs with MongoDB

In addition to performance and scalability benefits, MongoDB Atlas on AWS offers several ways to help you reduce storage costs and complexity.

### 1. Seamlessly move and export data

Organizations can use MongoDB tools like `mongodump` and `mongoexport` to solve data growth challenges. These tools can help you drop data into cloud object storage like Amazon Simple Storage Service (Amazon S3) for retrieval in the future, or for consumption by another tool.

### 2. Automate data tiering

With MongoDB Atlas Online Archive, you can create rules to automatically archive aged data to a fully managed object storage, while preserving the ability to query all your data through a single endpoint.

### 3. Offload aged data

Companies can seamlessly offload aged data using MongoDB Atlas Data Lake, a serverless, scalable query engine that makes it seamless to work with data across MongoDB Atlas and Amazon S3.

## Customer success:

### Improving data processing times with IT modernization

**Midland Credit Management, Inc. (MCM)**, a specialty finance company providing debt recovery solutions for consumers, was struggling to efficiently process data with its current IT infrastructure. MCM tapped MongoDB to build a distributed, hybrid architecture that would enable the company to create an accurate, unified view of the customer. Since modernizing its system with MongoDB Atlas on AWS, MCM has seen a 50x increase in scalability and a 120x execution cost reduction for its marketing letters solution.

## Outcomes

### Build and ship faster

With MongoDB, you can focus on consistently shipping exceptional features and products.

### Improve security resilience and performance

With MongoDB, you can develop applications that are highly available, performant at scale, and meet demanding security and privacy standards.

### Reduce storage costs and complexity

MongoDB helps you meet all your core application data needs in a single system on AWS.

### Enhance the developer and operational experience

MongoDB Atlas allows you to focus on driving innovation and business value, instead of managing infrastructure.

## Featured AWS products



**AWS PrivateLink** provides private connectivity between VPCs, services from AWS, and your on-premises networks without exposing your traffic to the public internet.



**Amazon EventBridge** is a serverless service that uses events to connect application components together, making it easier for you to build scalable event-driven applications.



**AWS Key Management Service (AWS KMS)** makes it seamless for you to create and control the encryption keys that are used to encrypt your data.



**AWS Wavelength** embeds AWS compute and storage services within 5G networks, providing mobile edge computing infrastructure for developing, deploying, and scaling low-latency applications.



**Amazon Data Firehose** seamlessly captures, transforms, and delivers data streams into AWS and third-party analytics services.



**Amazon Simple Storage Service (Amazon S3)** is an object storage service offering industry-leading scalability, data availability, security, and performance.



**AWS Lambda** is a serverless, event-driven compute service that lets you run code for any application or backend service without provisioning or managing servers.



**AWS Identity and Access Management (AWS IAM)** helps you manage and scale workload and workforce access securely supporting your agility and innovation in AWS.



**AWS IAM Identity Center** helps you connect your existing workforce identity source and centrally manage access to AWS.



**Amazon Managed Streaming for Apache Kafka (Amazon MSK)** makes it seamless to ingest and process streaming data in real time with fully managed Apache Kafka.

[Learn more >](#)

**Get started for free with MongoDB Atlas in AWS Marketplace.**

[Learn more](#) about reducing data storage costs with MongoDB.

## About MongoDB

MongoDB's developer data platform integrates all of the data services you need to build intelligent applications in a unified developer experience on AWS. It handles transactional workloads, app-driven analytics, full-text search, AI-enhanced experiences, stream data processing, and more, all while reducing data infrastructure sprawl and complexity.