

Amazon DynamoDB

DynamoDB is a managed NoSQL with seamless scalability and predictable performance that shields users from the complexities of manual setup.

DynamoDB is primarily a **key-value** store in the sense that its data model consists of key-value pairs in a schemaless, very large, non-relational table of rows (records).

DynamoDB focuses on innovation and optimizing costs with a fully managed serverless database that automatically scales up and down to fit your needs.

DynamoDB offers some of the best features such as built-in security, backup and restores, and in-memory caching.

Major Components

Table - The collection of items is known as a table.

Items - An item is a group of attributes that is uniquely identifiable among all of the other items.

Attributes - An attribute is a fundamental data element, something that does not need to be broken down any further.

Benefits

Performance and Scalability - provides virtually unlimited storage, and users can utilize it as required.

Enterprise ready - supports ACID transactions to enable build business-critical applications at scale.

Seamless Data Replication - allows easy recovery from any disaster and avoids service disruptions.

Serverless - does not require users to maintain any underlying infrastructure.

Use Cases

Developing software applications

Banking & finance

Media & entertainment

Gaming

Seamless retail experiences