AWS Cloud Databases

Modernize your data infrastructure with fully managed, purpose-built databases

Choose the right purpose-built engine

Build use case-driven, highly scalable, distributed applications suited to your specific needs. AWS offers 15+ purpose-built engines to support diverse data models, including relational, key-value, document, in-memory, graph, time series, wide column, and ledger databases.

Run fully managed databases

Free your teams from time-consuming database tasks like server provisioning, patching, and backups. AWS fully managed database services provide continuous monitoring, self-healing storage, and automated scaling to help you focus on application development.

Achieve performance at scale

Start small and scale as your applications grow with relational databases that are 3-5X faster than popular alternatives, or non-relational databases that give you microsecond to sub-millisecond latency. Match your storage and compute needs easily, often with no downtime.

Rely on high availability and security

Support multi-region, multi-primary replication, and provide full data oversight with multiple levels of security, including network isolation and end-to-end encryption. AWS databases deliver the high availability, reliability, and security you need for business-critical, enterprise workloads.

AWS Databases: Break Free to Save, Grow, and Innovate Faster (2:02)

Database services

Database type

Use cases

AWS service

[Relational](https://aws.amazon.com/products/databases/)

Traditional applications, enterprise resource planning (ERP), customer relationship management (CRM), ecommerce

[Amazon Aurora](https://aws.amazon.com/rds/aurora/?c=db&sec=srv)

[Amazon RDS](https://aws.amazon.com/rds/?c=db&sec=srv)

[Amazon Redshift](https://aws.amazon.com/redshift/?c=db&sec=srv)

[Key-value](https://aws.amazon.com/products/databases/)

High-traffic web applications, ecommerce systems, gaming applications

[Amazon DynamoDB](https://aws.amazon.com/dynamodb/?c=db&sec=srv)

[In-memory](https://aws.amazon.com/products/databases/)

Caching, session management, gaming leaderboards, geospatial applications

[Amazon ElastiCache](https://aws.amazon.com/elasticache/?c=db&sec=srv)

[Amazon MemoryDB for Redis](https://aws.amazon.com/memorydb/)

[Document](https://aws.amazon.com/products/databases/)

Content management, catalogs, user profiles

[Amazon DocumentDB (with MongoDB compatibility)](https://aws.amazon.com/documentdb/?c=db&sec=srv)

[Wide column](https://aws.amazon.com/products/databases/)

High-scale industrial apps for equipment maintenance, fleet management, and route optimization

[Amazon Keyspaces](https://aws.amazon.com/keyspaces/?c=db&sec=srv)

[Graph](https://aws.amazon.com/products/databases/)

Fraud detection, social networking, recommendation engines

[Amazon Neptune](https://aws.amazon.com/neptune/?c=db&sec=srv)

[Time series](https://aws.amazon.com/products/databases/)

Internet of Things (IoT) applications, DevOps, industrial telemetry

[Amazon Timestream](https://aws.amazon.com/timestream/?c=db&sec=srv)

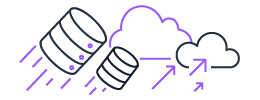
[Ledger](https://aws.amazon.com/products/databases/)

Systems of record, supply chain, registrations, banking transactions

[Amazon Ledger Database Services (QLDB)](https://aws.amazon.com/qldb/?c=db&sec=srv)

[Learn more with 10-minute step-by-step tutorials »](https://aws.amazon.com/products/databases/learn/#Getting_started_tutorials)

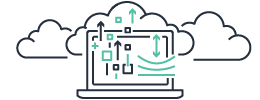
Use cases



Move to managed databases

Automate the time-consuming tasks of setting up, managing, and scaling databases. Spend more time on application development versus the undifferentiated heavy lifting of provisioning and managing databases on-premises.

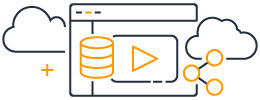
[Learn more »](https://aws.amazon.com/getting-started/hands-on/move-to-managed/)



Build modern apps with purpose-built databases

Choose the database service best fit for the job to help you optimize scale, performance, and costs when designing applications. See how purpose-built databases match up with modern microservices architectures.

[Learn more »](https://aws.amazon.com/getting-started/hands-on/purpose-built-databases/)



Break free from legacy databases

Stop working around proprietary standards, punitive pricing terms, and frequent audits. Embrace open-source compatible cloud databases with commercial grade performance, availability, and scale at a fraction of the cost.

[Learn more »](https://aws.amazon.com/getting-started/hands-on/break-free-from-legacy-databases/)