yugabyteDB

Yugabyte
Overview

Businesses build and deploy apps differently today compared to ten years ago. Why? Because they need to be able to move quickly and respond to competition and new opportunities. But their existing relational and non-relational databases are stuck in the past and can't keep up. The result is slower innovation and losing out to competitors.

Traditional relational databases offer the flexibility and power of relational data modeling and ACID transactions, but compromise on scalability, cost and geo-distribution. NoSQL databases trade off consistency and relational capabilities for scale and resilience. Cloud provider databases such as Amazon Aurora and Google AlloyDB impose limitations and lock-in, and are expensive at scale. As a result of these compromises, developers have to make costly tradeoffs and work around these limitations.

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A Modern Data Layer For Cloud Native Apps

Building modern apps on legacy databases no longer makes sense. New, enterprise-proven options now exist. YugabyteDB is the cloud native, distributed database that evolves the relational database to meet the demands of today's business-critical transactional applications. YugabyteDB uniquely combines advanced relational database capabilities and runtime PostgreSQL-compatibility with the scalability and resilience of cloud native architectures.

Why does this matter? Because you embraced cloud native technologies for their speed and agility. To realize the full benefits of app modernization and cloud native architectures, you need a future-proof database that can handle your diverse set of new and existing workloads, while allowing you to start small and grow seamlessly with a single, elastic database.

PostgreSQL Compatible	Natively Resilient	Seamlessly Scalable
Global + Local	Enterprise Grade	Multi & Hybrid Cloud

Use Cases For YugabyteDB Distributed SQL Database

- **Database modernization**: You are on a journey to build a data-driven, future-proof organization. Migrate Oracle, SQL Server, and DB2 workloads to a distributed SQL database with minimal disruption using YugabyteDB Voyager.

- **Cloud native applications**: Accelerating app development and creating new revenue streams requires a flexible, modern stack—from the infrastructure to the database to the app. Distributed SQL databases deliver cloud native benefits including productivity, agility, and performance.

- **Edge and streaming applications**: Data is everywhere, driving the need for a modern, distributed database that can store and deliver data from anywhere in the world with predictable performance, elastic scalability, and a flexible topology.

- **Geo-distributed workloads**: Move data closer to users to ensure resilience, performance, and compliance using the industry's largest choice of deployment and replication models.

YugabyteDB Benefits

- **Productivity**: Increase developers rate of innovation and competitiveness by bringing new ideas to production within hours/days using familiar tools and APIs.

- **Resilience:** Ensure that applications and services are always available without any impact on performance despite infrastructure or cloud failures.

- **Efficiency**: Make high-impact changes frequently and predictably with minimal work and support a diverse set of dynamic workloads with a single, elastic database.

- **Savings**: Spend up to 80% less on technology through lower licensing fees, database consolidation, and greater operational efficiencies.

- **Security**: Harden security, achieve compliance, deliver end-to-end encryption, and mitigate risks when moving your applications and data to the cloud.

- **Open source**: Avoid vendor lock-in and enjoy the flexibility and agility of adopting flexible, innovative, & community-supported open source software.

Deployment Options That Match Your Needs

- **YugabyteDB Managed** is a fully-managed DBaaS offering of YugabyteDB. It offers the fastest path to get started, and options to run on all three major public clouds: Amazon Web Services, Google Cloud, and Microsoft Azure.

- **YugabyteDB Anywhere** delivers a self-managed DBaaS that simplifies the experience of deploying and managing YugabyteDB at scale. YugabyteDB Anywhere combines the distributed SQL database with a cloud native orchestration engine and 24/7 support.

- **YugabyteDB** is the full featured, open source core database software that you manually deploy & manage on VMs, servers, or containers in any cloud.

- **YugabyteDB Voyager** is a free technology solution that accelerates cloud native adoption by simplifying the migration from legacy and single-cloud databases to YugabyteDB.

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About Yugabyte, Inc.

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