YugabyteDB Managed
Product Brief

Fully-Managed Distributed Database-as-a-Service

At A Glance

YugabyteDB Managed delivers a fully-managed DBaaS to simplify the adoption of a cloud-native, distributed database.

By combining the industry's most PostgreSQL-compatible distributed SQL database, YugabyteDB, with intelligent automation and a world-class Yugabyte team to manage and operate, organizations of all sizes can focus on building innovative applications and spend less on data and infrastructure management.

Key Capabilities

- PostgreSQL- and Cassandra-CQL compatible APIs
- Turnkey encryption for data at rest and transit
- High availability and horizontal scalability
- Automatic geo-distribution supported by over 45 regions in AWS and GCP
- Performance at scale with zero downtime
- Built-in security and resiliency
- Low TCO with advanced automation
- Unified real-time monitoring and alerting
- Tunable backups and restore
- Always on service and Free from cloud lock-in
- No hassle upgrades
- 24/7 support

Introduction

YugabyteDB Managed is the fully-managed database-as-a-service (DBaaS) offering of YugabyteDB, the cloud-native distributed SQL database for business-critical applications.

YugabyteDB Managed was built from the ground up for organizations that want the benefits of a cloud-native distributed database, but are tired of spending resources on the ongoing deployment, management, and monitoring of databases and infrastructure.

Built on top of YugabyteDB, YugabyteDB Managed offers enterprise-grade RDBMS capabilities such as distributed ACID transactions, replication with strong consistency as well as the horizontal scalability and resilience of non-relational databases, all with the familiarity and consistency of PostgreSQL.

You get complete freedom from data infrastructure with full power, flexibility and scale of YugabyteDB. You can be up and running in a live environment in minutes and leave the day two operations and management challenges to Yugabyte. You can also deploy YugabyteDB Managed on a choice of public clouds and experience exceptionally high performance and enterprise-class high availability.

Industry-leading companies like Admiral, Genxlead and Midoin rely on YugabyteDB Managed to power their critical transactional applications. They can deploy new applications with a few clicks on YugabyteDB across their preferred public cloud, and get the database support and services they need to realize their business outcomes.

The Benefits Of YugabyteDB Managed

YugabyteDB Managed was designed to simplify operations and provide advanced automation on top of the core database features available in the open-source, enterprise-class YugabyteDB database.

In today's cloud-native world, companies of all sizes need a simple, flexible, and easily accessible database that lets them focus on growing their services and offerings.

YugabyteDB Managed does this by helping organizations do the following:

Accelerate Developer Productivity

YugabyteDB Managed delivers the power of distributed SQL with the ease of use of a database-as-a-service. Developers can create and connect to this infinitely scalable, resilient Cassandra- and PostgreSQL-compatible database in minutes using existing skills and familiar tools, with zero operational overhead. YugabyteDB Managed makes running YugabyteDB in any cloud or scaling up as your application grows, effortless.

Increase Efficiency While Lowering Costs:

YugabyteDB Managed is designed to be easy to use and operate, with features like dynamic horizontal and vertical scaling, rolling upgrades, and 24/7 monitoring and support provided by the world-class YugabyteDB service team. This allows users to focus on their applications and data rather than worrying about the underlying infrastructure and operations of the database. Lower operational costs and a pay-as-you-go pricing model can reduce costs compared to traditional databases that require upfront licensing fees or long-term contracts.

Build Inherently Secure Applications

YugabyteDB Managed applies industry best practices to securely manage your infrastructure and database to build an always-on business. These include daily backups, non-disruptive software upgrades, continuous availability, database usage monitoring, logging, auditing, identity and access management, data encryption, and key rotation. This all means that you can build inherently secure applications, more easily.

Expanding Core YugabyteDB Capabilities

YugabyteDB Managed combines the highly resilient, scalable, and open-source distributed SQL database, YugabyteDB, with a cloud-native orchestration engine that delivers the operational excellence capabilities required of a fully-managed DBaaS. The additional benefits delivered by YugabyteDB Managed include:

1. **Lower Cost Operations:** Get started with YugabyteDB Managed on a cloud of your choice with no set-up charges and flexible pricing options. You can further optimize it for unused clusters, all without the overhead of managing day-to-day database operations.

2. **Extreme Global Availability:** Deploy YugabyteDB Managed across the globe on over 45 supported global regions in AWS and Google Cloud. Build always-on, highly-performant applications with low latency and horizontal and vertical scalability supporting availability zone, node, and region-level fault-tolerance.

Midoin migrated to YugabyteDB Managed to deliver a more accessible and environmentally-friendly digital currency.
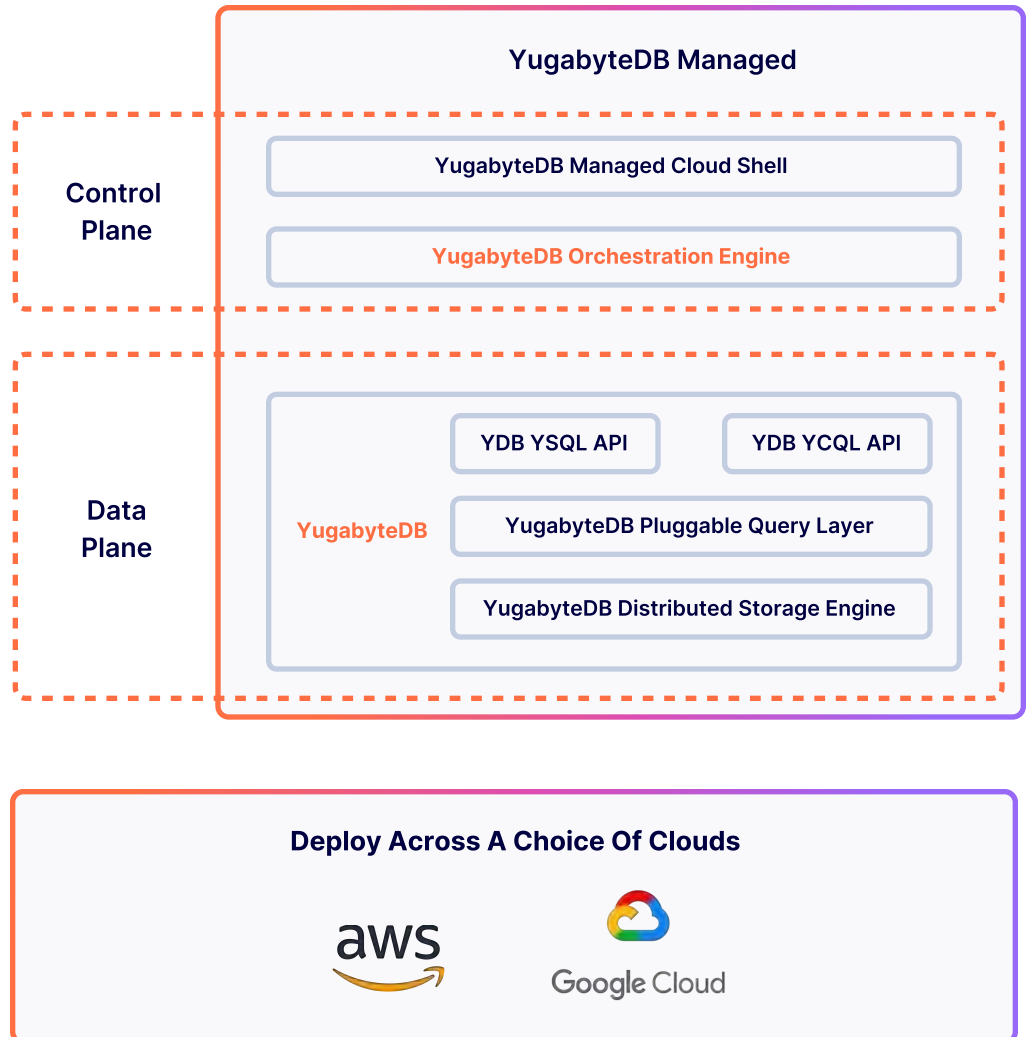
"It's not easy to explain how much more relaxed I am having the ability to scale fast with YugabyteDB Managed. When I was using Postgres on Heroku, I could scale up to a point but no more than this. I had a barrier in front of us that I couldn't overcome. I just couldn't. I don't have that barrier with YugabyteDB Managed. I am much more relaxed now."

- Perros Ninos
Founder, Midoin

3. **Intrinsic Database Security:** Protect your clusters and cloud infrastructure by automatically employing highly secure encryption in transit and encryption at rest, with additional features such as identity and access management, database access logging, auditing, and role-based access control, to obtain best-in-class data security via intuitive administrative controls.

4. **Intelligent Database Management:** Focus on building great applications while programmatically automating critical cluster operations, deploying cloud-native Infrastructure-as-Code (IaC) via an enhanced Terraform Provider, fine-tuning cluster performance, managing alerts, and monitoring performance.

5 **Accelerate Developer productivity:** Increase rate of innovation and competitiveness by bringing news ideas to production within hours/days. Accelerate expansion with frictionless scale and modernization of existing apps with the most Postgres-Compatible distributed SQL database. You can eliminate the tradeoffs of legacy databases and accelerate developer productivity – whether building new microservices or modernizing existing applications. Retain top talent by focusing them on rewarding, growth initiatives.

"As a leader in world-class advertising and marketing services, Genxlead needed to match our innovative, data-driven services with a modern data layer that could seamlessly adapt to a rapidly evolving industry. As a fully-managed distributed database-as-a-service, YugabyteDB Managed was selected as it exceeded our expectations around scalability, performance, and operational simplicity,"

- Madhan Kumar
Founder, Genxlead

YugabyteDB Managed

Control Plane
- YugabyteDB Managed Cloud Shell
- YugabyteDB Orchestration Engine

Data Plane
YugabyteDB
- YDB YSQL API
- YDB YCQL API
- YugabyteDB Pluggable Query Layer
- YugabyteDB Distributed Storage Engine

Deploy Across A Choice Of Clouds

aws

Google Cloud

Key Features Of YugabyteDB Managed

Core YugabyteDB Features

Distributed SQL Database (open-source)	- PostgreSQL- and Cassandra-compatible APIs - Horizontally scalable database with automatic sharding, replication, and load balancing - Synchronous and asynchronous replication - Multi-row ACID transactions - High throughput and low latency in a geo-distributed environment - Security and Compliance - Integrations with the DevOps ecosystem - Data migration tools - Incremental backups and point-in-time recovery

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YugabyteDB Managed Features

Lower Cost Operations	- No set-up charges or commitments - Elastic pricing with pay-as-you-go and annual subscription pricing options - Detailed cost insights and easy billing charges management - VPC networks to help reduce network data transfer costs - Pause and Resume functionality to help reduce costs on unused clusters - Perpetual access to a Free Sandbox tier, perfect for learning, testing and non-production use cases - Full-featured time-limited trial backed by enterprise-grade SLA - No cloud vendor lock-in
Extreme Global availability	- Support for over 45 AWS and Google Cloud regions worldwide - Zero-downtime rolling upgrades on live universe deployments - Availability zone, node and region-level fault-tolerant clusters - Multi-node, highly available production-ready deployments with single-region dedicated clusters - Multi-region sync backed by region-level fault-tolerance - Dynamic horizontal and vertical scalability to support increased workload needs with just a few clicks - Low-latency reads with easy-to-configure Read Replicas
Intrinsic Database Security	- App and database infrastructure security with VPC networks that accepts connections from trusted IP addresses only - Self-service geo-partitioning to address dynamic Compliance requirements - Highly secure encryption in transit and encryption at rest - Role-Based Access Control (RBAC) manages database access and authorization - Audit account and cluster activity monitoring to meet ongoing security best practice

"Our mission is to lead in cloud-native database security. We embed security and privacy in all aspects of our company and product development process to address modern compliance requirements for our customers."

**- Karthik Ranganathan
Co-Founder & CTO, Yugabyte**

	● Automatic application layer protection and protection from volumetric DDoS attacks ● Support for TLS/SSL support, DB encryption at rest, self encrypting drives and key rotation ● Compliance to achieve regulatory requirements – GDPR, CCPA, SOC 2 Type 1 & Type 2, SOC 3
Intelligent Database Management	● Enterprise SLA backed effortless distributed DBaaS 24 hours a day, 7 days a week ● Customizable backup schedule and intuitive restore process ● Performance advisor intelligently detects areas to optimize performance ● Built-in alerts and monitoring help fine-tune performance and track slow queries and live queries ● Planned maintenance windows and exclusion periods ● Admin controls to invite users, change roles and manage login methods
Accelerate Developer Productivity	● Connect to Cassandra and PostgreSQL- compatible databases in minutes using existing and familiar tools, with zero operational overhead ● Run YugabyteDB in any cloud and effortlessly scale applications ● YBM REST API to programmatically deploy and manage database clusters ● Terraform Provider for cloud-native Infrastructure-as-Code ● Self-paced courses, virtual training and builder workshops available on Yugabyte University for developers

Explore Free Options To Get Started Today

Try the full feature trial today

Comparison: Free Tier vs Free Trial

	Free Tier	Free Trial
Item		
Fully-Managed Experience	✔	✔
Explore Postgres compatibility	✔	✔
Try out horizontal scalability	✖	✔
Try out fault-tolerance	✖	✔
Try out multi-region cluster	✖	✔
Time duration	Free forever	Time limited
Ideal persona	Vocational Builders, Students	Partners, Evaluators, POCs

Accelerate End-To-End Migration With Voyager

Migrating to YugabyteDB Managed has never been easier. YugabyteDB Voyager accelerates cloud-native adoption by enabling the safe and easy migration of application data from your legacy databases and single-cloud databases to YugabyteDB, the cloud-native distributed SQL database for your business-critical applications.

YugabyteDB Voyager encompasses the entire lifecycle of the database migration cycle within a single product. This includes assessment, migration, and optimization with the YugabyteDB Performance Advisor. A key component of YugabyteDB Voyager is a powerful data migration engine that easily and safely migrates data to a distributed data fabric that can be deployed on public, private, or hybrid clouds. It supports moving data to YugabyteDB Managed, YugabyteDB Anywhere, and the core open-source database, YugabyteDB.