

YugabyteDB AMP

The Database for **Every Stage of Your Agent Lifecycle**

Serverless scale-to-zero PostgreSQL where every agent gets its own database at the cost of a fraction of a core, with a clear, no-migration upgrade path to YugabyteDB YSQL.

YugabyteDB AMP (Agentic Multitenant Postgres) is a serverless Postgres tier with scale-to-zero economics and a consolidated multi-model data stack.

Why is YugabyteDB AMP Different?

New, prototyped, and vibe-coded agents are bursty and frequently idle, but traditional database economics bill you for capacity whether you use it or not. YugabyteDB AMP matches the consumption model of early-stage agents:



Only pay per CPU minute



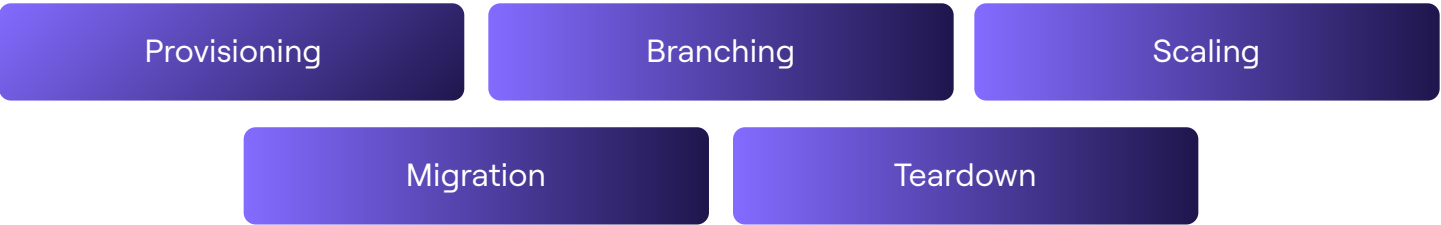
Idle agents cost nothing



Pricing stays transparent and predictable
(no pass-through fees)

YugabyteDB AMP pairs **Enhanced Colocation** with **Serverless Multitenancy** to efficiently pack hundreds of small agent workloads onto shared, distributed infrastructure, all while keeping each one isolated in its own real Postgres database.

Most databases bolt on an MCP read endpoint and call it agentic. YugabyteDB AMP exposes the entire database lifecycle over MCP:



This allows your agents to run the full database loop, not just the query.

As your agents grow in usage and business criticality, YugabyteDB AMP upgrades to YugabyteDB YSQL, adding horizontal write scale, multi-master replication, and geo-distribution on the same ultra-resilient core. There is no need for migration, rewrites, or changes to how agents connect.

The Three Pillars of YugabyteDB AMP



Start Serverless *(A Database Per Agent, at a Fraction of the Cost of One)*

YugabyteDB AMP provides true scale-to-zero architecture with full Postgres compatibility. Your ORM, driver, and extensions work unchanged, and you can provision a new database on demand in seconds. Early-stage agents cost nothing when idle, and you pay by CPU per minute with no pass-through fees.



Stay in Control *(Predictable Costs Across Your Fleet)*

Resource Governance lets you cap CPU per workload today, with caps for RAM, storage, and network coming soon. This means a single noisy agent cannot starve everything around it, and any workload can burst to full hardware capacity when needed. In preliminary internal benchmarks, AMP outperformed Aurora on five of six sysbench workloads. Batch-create hundreds of databases with built-in quotas and manage them as a single fleet.



Grow Without Rebuilding *(Avoid the Growth Cliff)*

AI applications rarely fail because teams can't get started; they fail when lightweight tools hit their ceiling. The no-migration upgrade path to YugabyteDB YSQL adds horizontal write scale and multi-master replication at the exact moment you need it, without intervention or application rewrites.



“Gartner predicts that by 2028, an average global Fortune 500 enterprise will have over 150,000 agents in use, up from less than 15 in 2025, generating significant agent sprawl, IT complexity and management challenges”

- Gartner Press Release

Everything You Need in a Single Platform

Serverless Multitenancy: True scale-to-zero for bursty, frequently idle agent workloads. Consumption-based pricing with no pass-through fees.

Enhanced Colocation: Pack hundreds of small agent databases onto shared infrastructure with real database-level isolation per workload.

Resource Governance: Per-workload CPU caps are available now, with RAM, storage, and network caps coming soon. Prevent one workload from crowding out others, while still allowing bursts to full capacity..

No-Migration Upgrade Path to YSQL: Automatic transition to YugabyteDB YSQL adds horizontal write scale and multi-master replication as your agent grows. No migration or rewrite required.

Fleet Management: Batch-create databases with built-in quotas. Manage hundreds of agent workloads as a single fleet.

Agent-Operable Lifecycle: Four built-in agents run the platform. [YugabyteDB Architect](#) composes the setup. [YugabyteDB Voyager](#) drives migrations, including from Oracle (HexaBridge), SQL Server (AWS Babelfish), and MongoDB (DocumentDB extension). [YugabyteDB Perf Advisor](#) troubleshoots and tunes performance. [YugabyteDB Nexus](#) manages external integrations like connectors, event streams, and BI tools. Every action is logged through [Meko](#) decision traces for accountability. Every agent runs over MCP servers and the REST API, not just the UI.

YugabyteDB MCP 2.0: A native MCP server with OIDC-based authentication and write-capable tools that stay disabled until an operator enables them, allowing agents to reach production data under explicit control.

Connection Manager: A built-in server-side pooler that multiplexes thousands of client connections onto a small backend pool (no external PgBouncer required).

The Full Agentic Stack: Native vector search, in-database RAG, and graph reasoning beside your operational data. A single database instead of five stitched-together systems.

Runs Anywhere: Deploy fully-managed or self-managed, on any public or private cloud, with Terraform, Helm, and Kubernetes Operator support. Keys stay in your own KMS with BYOK, and air-gapped mode is available for disconnected environments.

One Resilient Core, Two Tiers

YugabyteDB AMP and YugabyteDB YSQL share the same ultra-resilient core.

- **YugabyteDB AMP** delivers standard Postgres simplicity with ultra-resilience and high availability, without sharding, schema redesign, or query plan tuning.
- **YugabyteDB YSQL** adds horizontal write scale and multi-master for the most demanding very-high-throughput, no-downtime systems. Move between them with no migration.

Who is YugabyteDB AMP Built For?

YugabyteDB AMP is built for developers and teams taking agents from prototype to production. If you’ve reached for a lightweight, serverless Postgres to get started, only to find a painful migration waiting the moment your agent succeeds, YugabyteDB AMP was designed for you.

You don’t want:

- To be billed for capacity your idle agents don’t use
- A dedicated cluster to get real isolation for every workload
- To watch one runaway query take down your fleet
- To be rewarded for success with months of re-architecture

YugabyteDB AMP takes you from a near-zero-cost prototype to global scale without changing platforms. This means the teams that build successful agents don’t have to become a database migration team down the line.

Start Building a Lasting Agent Infrastructure Today

Every successful agent eventually outgrows the lightweight tools it started on. With YugabyteDB AMP, that moment is a configuration change, not a crisis.

Start serverless, pay only for what your agents use, and upgrade to YugabyteDB YSQL for geo-distributed, mission-critical scale on the same platform without migration, application rewrites, or a new database partner.

Get Started in Minutes

Ready to take your database to the next level? Embrace our fully managed DBaaS, YugabyteDB Aeon, in minutes with a free cluster in AWS, Azure, or GCP.

Get started at cloud.yugabyte.com.

For more information, contact a YugabyteDB expert at yugabyte.com/contact.



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