EDB POSTGRES AI

EDB Postgres® AI: Database

Always-on sovereign Postgres database powering transactional, analytical, and AI workloads

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The challenge: Fragmented data slows down developer agility

Modern applications require enterprises to have an always-on, secure database system to act as a single data store for multiple data types. Unfortunately, organizations today deal with multiple, fragmented systems that complicate management and governance, lead to outages, and open the door to security risks, especially for those using open source libraries.

The solution: Always-on sovereign Postgres database powering transactional, analytical, and AI workloads

Organizations can run business-critical applications without interruption with the always-on database from EDB Postgres AI, enabling smooth global operations. With support for structured, semi-structured, and unstructured data in a single database, organizations preserve existing application investments while standardizing on a data foundation for future growth. Consolidating on a single, flexible database engine that works across all environments streamlines operations, reduces data silos, and accelerates application delivery. Business can respond quickly to market opportunities with modern database capabilities that provide the enterprise reliability, security, and performance that organizations depend on.

- **Unified data platform:** Eliminate vendor lock-in, reduce infrastructure sprawl, and improve developer agility with a diverse database designed for all workloads.
- **Resilience to anything:** With always-on, distributed databases, you can operate with confidence, knowing your systems are resilient and able to provide fast access for customers to interact with their data.
- **Safeguarded customer data:** Protect customer data and internal systems with strong open source software and data safeguards from the most trusted provider of Postgres.
- **Modern apps anywhere:** Deploy fast, modern applications with a single data store that can be deployed and managed anywhere with complete observability.

A single database platform for any workload, ready for sovereign AI

EDB Postgres AI Database provides an all-in-one data store to unify transactional, analytical, and AI workloads in a sovereign hybrid environment. This single, trusted Postgres platform redefines efficiency by cutting infrastructure costs while enabling AI innovation directly on your data. Your business applications remain continuously available with up to 99.999% uptime through a distributed high availability (HA) architecture, safeguarding your revenue streams and customer satisfaction by minimizing both planned and unplanned downtime. Flexible hybrid deployment with container-driven automation accelerates your team's productivity by reducing deployment time from days to minutes while enterprise-grade security preserves data sovereignty. Deliver immediate cost efficiency and create the agile foundation your teams want, without boundaries, while retaining complete control of your data.

- **Multi-model data in one sovereign database:** Modernize with a multipurpose data store for building applications with structured, semi-structured, and unstructured data types. Gain format support for relational, document, time series, columnar, vector, Oracle-compatible, and more in a single managed environment, enabling your teams to build an unlimited number of specialized databases while providing native AI capabilities directly on your data. Optimized read/write performance that scales effortlessly from high-concurrency transactional workloads to complex analytical queries, all deployable in a hybrid environment that ensures complete data sovereignty and security.
- **Distributed high availability:** Power 24/7 global businesses with up to 99.999% of HA built on a geo-distributed, active-active architecture. With uninterrupted operations, perform maintenance and rollout updates to your application without worrying about outages. Build applications on a resilient backend that has self-healing capabilities and automated failover. Flexibly deploy the level of HA best suited for your application needs.
- **Secure by default:** Keep customer information secure at all layers with Transparent Data Encryption (TDE), supply chain security measures, and hardened container images from Iron Bank. Advanced security features include role-based access control with fine-grained permissions down to row-level, robust audit logging for real-time threat detection, and data redaction to limit sensitive information exposure, ensuring compliance with evolving regulations such as PCI DSS and SOC 2 while maintaining complete data sovereignty.
- **Deploy anywhere:** Flexibly manage EDB Postgres AI databases across multi-cloud and hybrid environments, including VM, bare metal, and Kubernetes deployments. Enhance database performance and troubleshoot application issues proactively with built-in observability from a centralized control plane. Automate common deployment environments with templates to simplify faster container orchestration and enable self-healing database clusters.

Key benefits

- **Build without traditional boundaries:** Build modern applications faster as you leverage one familiar data store for your transactional, analytical, and AI needs without specialized databases or single-purpose tools. With a single database that natively supports GenAI and AI-powered business intelligence, the innovation never stops.
- **Deliver always-on experiences:** Implementing HA for your enterprise database actively protects revenue by preventing downtime that directly impacts sales, while continuously maintaining customer satisfaction through consistently reliable service.
- **Secure your data assets:** Build on open source with confidence, knowing that your data is backed by enterprise-grade security best practices from the most trusted Postgres provider. EDB Postgres AI is secure by default, so you can fulfill your compliance and governance needs to adopt Postgres without hassle.
- **Boost productivity:** Simplify complex infrastructure tasks with container-driven automation. Deploy Postgres anywhere in minutes instead of days, so your teams can focus on scaling and value-adding innovation instead of undifferentiated infrastructure management.

Key use cases

- **Legacy app modernization:** EDB Postgres AI enables modern data infrastructure for next-gen application development within a hybrid, customer-controlled environment. Modernizing from legacy systems to hardened Postgres from EDB Postgres AI reduces costs and improves performance, availability, and security outcomes while enabling developers to leverage diverse data models for modern apps. Learn More »
- **Secure open source software:** EDB Postgres AI is a trusted enterprise provider of hardened Postgres software packages, protecting against all known vulnerabilities and enabling you to operate confidently with open source software. Also, additional enterprise security features protect customer data and limit database access, providing extra layers of security. Learn More »

Hear from our customers

"EDB Postgres AI Distributed HA provided what we needed in a single lower-cost solution—without any additional add-ons. And it's philosophically well aligned with our worldview."

– ACI Worldwide

Read the Case Study »

"We took the opportunity to modernize to something lower cost and more performant than what we were getting with Oracle."

– USDA Forest Service

Read the Case Study »

"The reason that we went with EDB Postgres AI is because we were looking for enterprise-level high availability, scalability, and support."

– KATIM

Read the Case Study »

"EDB Postgres AI provided us with the performance and data management capabilities we needed to provide unparalleled results for our customers—all at an incredibly lower cost."

– Ericsson

Read the Case Study »

Learn more

EDB Postgres AI »
Multi-model support »
High availability »
Deploy anywhere »
Secure by default »
Hybrid Management »
Migrations »

About EDB Postgres AI

EDB Postgres AI is the first open, enterprise-grade sovereign data and AI platform, with a secure, compliant, and fully scalable environment, on premises and across clouds. Supported by a global partner network, EDB Postgres AI unifies transactional, analytical, and AI workloads, enabling organizations to operationalize their data and LLMs where, when, and how they need it.

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