

EDB Postgres™ Advanced Server

Meeting enterprise DBMS requirements

Digital transformation is a crisis for some and an opportunity for others. The winners will be those, who enable their talent to innovate fast and who provide a computing environment that is both reliable and flexible. A multi-model data platform for digital business, that supports agile software development with flexible cloud and on-premise deployment options, is one piece of the puzzle.

EnterpriseDB® (EDB™) meets these digital business requirements by offering the EDB Postgres Platform with EDB Postgres Advanced Server at its core.

EDB Postgres Advanced Server is based on open source PostgreSQL, the world's most advanced open-source database management system, and provides additional capabilities such as enterprise security, advanced performance, database compatibility with Oracle®, and DBA and developer features for enhanced productivity.



PostgreSQL is a multi-model database management system that combines traditional relational capabilities with document and other NoSQL capabilities.

This modern feature set allows organizations to successfully run a large percentage of their existing applications on EDB Postgres as well as leveraging EDB Postgres for developing new applications for mobile, web, and IoT applications with the speed and control needed for enterprise digital business.

Highlights

Deployment flexibility

Deploy and integrate across any environment needed by your business: cloud (public, private, and hybrid), virtualization, containers, and bare metal.

Ease of development

Developer-friendly support for the latest programming languages and IDEs, such as JavaScript, JSON, Python, XML, Ruby, PostGIS, Node.js, and SQL.

Multi-Model DBMS

Built-in relational, document, and key-value models enable schema-less rapid development while adding structure to any data type without loss of integrity.

Support many data types

Whether you use JSON, geospatial, XML, key-value, or most other structured, semi-structured, or unstructured data, EDB Postgres handles it natively.

Cost Savings

Leveraging open source software in an enterprise-class platform offers significant cost savings while keeping up high quality standards. EDB provides EDB Postgres Advanced Server with mission-critical tool suites, 24/7 support and services. The EDB Postgres Platform is available in a subscription-based model saving up to 80% of your DBMS budget compared to traditional proprietary databases.

Enterprise Security for Peace of Mind

EDB Postgres Advanced Server delivers security on par with other leading DBMSs through ANSI SQL GRANT and REVOKE; external authentication support for LDAP, PAM, and Kerberos; granular object permissions; operational auditing; Virtual Private Database; protection against SQL injection attacks and passwords policies.

Furthermore, the Department of Defense published a Security Technical Implementation Guide (STIG) for EDB Postgres Advanced Server, making it the first open-source-based database successfully tested against the DoD's stringent security requirements.

Advanced Performance for Mission-Critical Workloads

EDB Postgres Advanced Server introduces several features to improve and diagnose performance, including the following: Partitioning, Resource Manager, and DRITA.

Resource Manager allows DBAs to ensure business critical transactions have resource priority over other workloads.

In addition to open source PostgreSQL partitioning, EDB Postgres Advanced Server offers advanced partitioning enabling smarter partition pruning making it faster.

Dynamic Runtime Instrumentation Tools Architecture (DRITA) analyzes low-level system and session wait events to identify bottlenecks improving database and query performance.

Database Compatibility to Minimize Migration Efforts

EDB Postgres Advanced Server natively understands and processes existing Oracle PL/SQL programs and data without any translation layers and without long, costly consulting engagements. EDB's compatibility means your expectations

for performance are preserved, your intellectual capital is protected, and your staff can continue using their existing skill set, whilst still embracing technology.

DBA and Developer Features

In addition to the above performance and security enhancements, EDB Postgres Advanced Server also boosts DBA productivity by providing tools and functionality such as EDB*Loader and extended catalog views.

21 function packages with over 250 functions, bulk collect/bind, user-defined object types, nested tables and many other capabilities reduce programming effort and provide faster processing supporting developers.

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