PostgreSQL

The world's most advanced open-source database management system

What do Oracle®, DB2®, SQL Server® and PostgreSQL have in common? All are all based on the same fundamental research that led to the development of the very first relational database management system (DBMS): IBM's System R.

While their development progressed in individual threads, they adhere to the same principles of tables, rows and columns as well as atomicity, consistency, isolation and durability (ACID), which is crucial for database reliability.

The others being proprietary implementations, PostgreSQL is developed by a community of thousands of developers and released under an open source license.

The benefits of open source become clear, when comparing the high cost associated with traditional proprietary databases to PostgreSQL and looking at the business practices of some vendors to lock customers into their software for life.

Being aware of the cost pressure experienced by IT organizations and convinced that PostgreSQL is the world's most advanced open source database, EnterpriseDB (EDB) was founded in 2004 with the goal to adopt PostgreSQL for the enterprise saving companies 80% of their DBMS budget.

Open-source PostgreSQL has matured. Businesses however have additional needs, that open-source software alone cannot meet. Managing, integrating and supporting PostgreSQL without an enterprise platform can be costly and risky.

This is why EDB provides more than just PostgreSQL. The affordable EDB Postgres Standard subscription includes enterprise-class tool suites for migration, integration and management, flexible deployment options, and services and support to help you implement and optimize your deployments.

Liberate yourself from expensive databases and vendor lock-in with EDB Postgres.

Highlights

Cost Savings
The PostgreSQL open source license gives permission to use, copy, modify, and distribute PostgreSQL without fee. EDB provides PostgreSQL in an enterprise-ready platform, adding tool suites, 24/7 support and services. EDB Postgres is available in a subscription-based model saving up to 80% of your DBMS budget compared to traditional proprietary databases.

No Vendor Lock-In
Open source software encourages competition and lets you decide who to work with. EDB strives to be a trusted partner and vendor of your choice repeatedly.
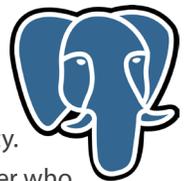
Advanced Features
Besides complying with the basic database standards ACID and MVCC, PostgreSQL provides advanced functionality including native stream-ing replication for high availability, online backup for maximum uptime, and PITR for disaster recovery.

PostgreSQL Community
EDB is proud to have among its employees many leaders in the PostgreSQL community. Each is a thought leader who contributes to the development of PostgreSQL.

PostgreSQL Performance

Over the last 5 years the community has made significant performance and scalability improvements to PostgreSQL, many of which were driven by EDB.
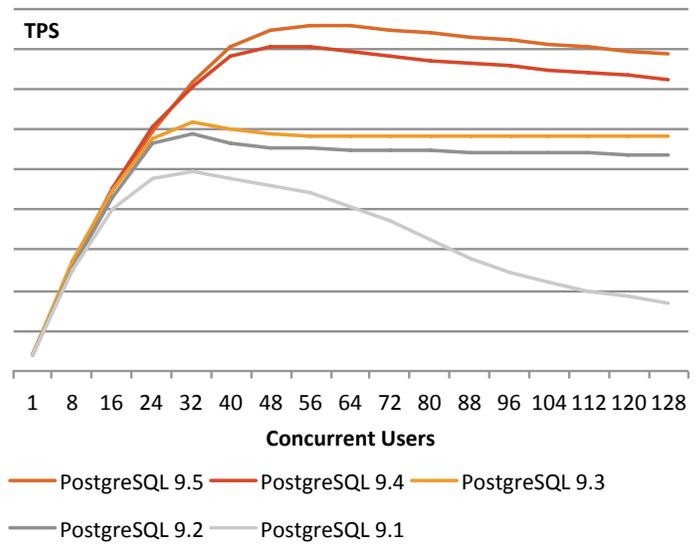
The graph to the right shows transactions per second (TPS) on a high-performance x86 Intel server with 8 sockets with 8 cores each and 500GB RAM while increasing client concurrency for each of the last five versions of PostgreSQL.

The tests were performed with read/write workload using the PostgreSQL benchmarking tool 'pgbench' taking the median of three 30-minute runs.

This benchmark shows that PostgreSQL 9.5 scales best and its read/write performance has doubled at 50 concurrent users and even quadrupled with more concurrent users compared to PostgreSQL 9.1.

pgbench -M prepared
scale_factor=300, max_connection=200, shared_buffer=8GB

EDB Postgres Subscriptions

EDB provides PostgreSQL in an enterprise subscription, EDB Postgres Standard, including a fully tested and certified version of PostgreSQL, tool suites for migration, integration and management, as well as 24/7 global support, training and professional services.

Our full range of deployment options gives you flexibility to run EDB Postgres on physical and virtualized hardware including containers and private cloud, as well as in the public cloud.

While EDB Postgres Standard comes with PostgreSQL, EDB Postgres Enterprise comes with EDB Postgres Advanced Server, which is based on PostgreSQL but includes additional features for improved performance, enterprise security and a compatibility for Oracle®.

Learn more about the benefits of PostgreSQL and contact us today.

Contact us

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