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**IBM z Systems**  
**Introduction**  
**May 2017**

**PostgreSQL and IBM z Systems**  
Frequently Asked Questions

Worldwide



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## PostgreSQL and IBM z Systems

### What is PostgreSQL and how does it deliver value?

PostgreSQL is an open source object-relational database system. It has more than 15 years of active development and a proven architecture that has earned a reputation for reliability and data integrity. PostgreSQL has won praises from its users and industry recognition, including the Linux® New Media Award for Best Database System and five-time winner of the Linux Journal Editors' Choice Award for best DBMS.

PostgreSQL is widely used in the industry, from start-ups to enterprises. While PostgreSQL implements the majority of the ISO standard of SQL:2011, it offers many features including a wide range of data types, functions, security, extensibility, durability and scalability.

PostgreSQL development is highly driven by the open source community, rather than controlled by a single company. Contributions to PostgreSQL are made by developers from all around the world, many of whom are engaged through enterprises who use PostgreSQL. Many professional software firms, such as EnterpriseDB and 2ndQuadrant, offer PostgreSQL enterprise solutions.

### How are clients using PostgreSQL?

PostgreSQL has gained popularity over the years, with more than 2 million downloads to date. According to a blog post<sup>[1]</sup> on EnterpriseDB.com, use cases show that many enterprises deploy PostgreSQL in their systems to handle some of the most critical assets in their core business. Clients deploy multiple servers running PostgreSQL to scale out to meet their business needs. Because PostgreSQL follows the SQL standard closely, developers should be able to reuse the skills from other SQL databases.

### How is IBM working with the PostgreSQL community?

IBM Open Source Ecosystem for Linux on IBM z Systems® team works directly with the community to port and test PostgreSQL, to ensure that the software runs optimally on IBM z Systems.

### What IBM products and services work with PostgreSQL?

A global PostgreSQL support and consultancy firm, 2ndQuadrant, partners with IBM to support PostgreSQL on IBM z Systems, and has made a long-term commitment to invest in the continuous development of PostgreSQL for IBM z Systems. For more information, see *2ndQuadrant* (<http://2ndquadrant.com/en/support/ibmz/>).

IBM also offers PostgreSQL as a solution on IBM Bluemix®. For more information, see *IBM Bluemix docs* (<https://www.ng.bluemix.net/docs/#services/PostgreSQL/index.html#PostgreSQL>).

### How does PostgreSQL work with z Systems?

PostgreSQL 9.4 has been tested on enterprise Linux distributions (RHEL and SLES) that run on z Systems. For more information about the installation instructions, see *Building PostgreSQL* (<https://github.com/linux-on-ibm-z/docs/wiki/Building-PostgreSQL>).

## What benefits do clients gain by running PostgreSQL on z Systems?

Linux on IBM z Systems offers many features that other systems cannot match – including availability, stability, and flexibility – that combine to help PostgreSQL excel as a powerful enterprise database solution. An independent performance test<sup>[2]</sup> conducted by 2ndQuadrant found that PostgreSQL on the IBM z13™ infrastructure provides greater throughput, regardless of the type of workloads, compared to an infrastructure based on a competitive architecture.

For more information, see *PostgreSQL* (<http://www.postgresql.org/>).

[1]: <http://www.enterprisedb.com/postgres-plus-edb-blog/gary-carter/sql-server-users-what-you-dont-know-about-postgresql-can-cost-you>

[2]: <http://2ndquadrant.com/en/support/support-ibm-z-systems/performance-analysis/>



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