FUJITSU Enterprise Postgres

Compare features across versions

FUJITSU

Discover how FUJITSU Enterprise Postgres is taking the power of PostgreSQL to the next level.

FUJITSU Enterprise Postgres is an enhanced PostgreSQL for enterprises seeking a more robust, secure, and fully supported edition in business environments.

FUJITSU Enterprise Postgres has been designed to deliver the Quality of Service (QoS) that enterprises demand of their databases in the digital world while supporting the openness and extensibility expected of open source platforms, all at a lower cost than traditional enterprise databases. It is an enhanced distribution of PostgreSQL, the open source database platform, with improvements to support enterprise-level workloads and provide improved Deployment and Management.

Feature	Postgres 14	FUJITSU Enterprise Postgres					
		IBM LinuxONE	IBM Power	14	13	12	11
Integration with CryptoCard hardware security module (HSM)	✗	✓	✗	✗	✗	✗	✗
IBM Hyper Protect Data Controller	✗	✓	✗	✗	✗	✗	✗
zEnterprise Data Compression (zEDC)	✗	✓	✗	✗	✗	✗	✗
Transparent Data Encryption (256-bit PCI DSS-compliant)	✗	✓	✓	✓	✓	✓	✓
Data Masking	✗	✓	✓	✓	✓	✓	✓
Dedicated audit logs	✗	✓	✓	✓	✓	✓	✓
Anomaly detection	✗	✓	✓	✓	✓	✓	✓
In-Memory Columnar Index (Vertical Clustered Index)	✗	✓	✓	✓	✓	✓	✓
Global Meta Cache	✗	✓	✓	✓	✓	✓	✗
High-speed backup/recovery	✗	✓	✓	✓	✓	✓	✓
High-speed data load	✗	✓	✓	✓	✓	✓	✓
Parallel scanning and aggregation	✓	✓	✓	✓	✓	✓	✓
Mirroring Controller	✗	✓	✓	✓	✓	✓	✓
Connection Manager	✗	✓	✓	✓	✓	✓	✗
Database Transaction Log Mirroring	✗	✓	✓	✓	✓	✓	✓
WAL duplication	✗	✓	✓	✓	✓	✓	✓
Smart setup (Create Master / Standby / Standalone)	✗	✓	✓	✓	✓	✓	✓
Easy backup/recovery	✗	✓	✓	✓	✓	✓	✓
Instance configuration / management	✗	✓	✓	✓	✓	✓	✓
Easy cluster setup / management (with Mirroring Controller)	✗	✓	✓	✓	✓	✓	✓
Support for COBOL applications	✗	✗	✗	✓	✓	✓	✓
System usage statistics	✗	✓	✓	✓	✓	✓	✓
Enhanced GUI for cluster management	✗	✓	✓	✓	✓	✓	✓
WebAdmin	✗	✓	✓	✓	✓	✓	✓
Rapid setup	✗	✓	✓	✓	✓	✓	✓
Interoperability (ability to connect to older versions)	✗	✓	✓	✓	✓	✓	✓
Support for Embedded SQL National Character Data in COBOL	✗	✗	✗	✓	✓	✓	✓
Support for variable format source code in COBOL programs	✗	✗	✗	✓	✓	✓	✓

Security Performance High Availability DevOps Ease of use

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Security features

- Integration with CryptoCard hardware security module (HSM)

  The CryptoCard is a hardware security module (HSM) that protects your digital keys by storing them in separate hardware and is FIPS 140-2 Level4 certified.

- IBM Hyper Protect Data Controller

  Centralized access control by encrypting data into trusted data objects before leaving the system of record. This protection follows your selected data as it traverses the enterprise network and prevents unauthorized access at all locations and end points.

- Transparent Data Encryption (256-bit PCI DSS-compliant)

  256-bit encryption is one of the most secure encryption methods available as it uses a 256-bit key to encrypt/decrypt data.

- Data Masking

  Data Masking allows you to retain the actual structure of the data when sharing a database with sensitive customer information beyond the permitted production environment, such as for development and testing.

- Dedicated audit logs

  This is a unique feature of FUJITSU Enterprise Postgres to deliver in the key areas of data accountability, traceability, and the ability to audit. It is also Payment Card Industry Data Security Standard (PCI DSS).

- Anomaly detection

  This enables you to identify suspicious items, events or observations based on the fact they differ from the majority of the data. These can often be problems such as fraud, a structural defect, or errors in text.

Performance features

- zEnterprise Data Compression (zEDC)

  On-chip compression accelerator reduces disk usage by compressing backup data and archive logs at high speed. Hardware compression results in 40% performance improvement.

- Transparent Data Encryption (256-bit PCI DSS-compliant)

  256-bit encryption is one of the most secure encryption methods available as it uses a 256-bit key to encrypt/decrypt data.

- In-Memory Columnar Index (Vertical Clustered Index)

  Fujitsu's implementation of In-Memory Columnar Index uses a parallel-processing engine to instantly update column-oriented data in response to changes in row-oriented data, and processes column-oriented data quickly.

- Global Meta Cache

  This is a unique feature of FUJITSU Enterprise Postgres that caches system catalog and table information in shared memory instead on in per-process memory.

- High-speed backup/recovery

  One-click backup/recovery improves efficiency and meant time to recovery. Also back up and recover the cluster and selected tablespaces using any user-specified copy method. On IBM LinuxONE, zEDC hardware compression increases performance.

- High-speed data load

  Leverages the PostgreSQL COPY command by running it in parallel using as many workers as your available resources allow.

- Parallel scanning and aggregation

  Parallel processing is a method of breaking up and running program tasks simultaneously to reduce processing time. Data aggregation is a type of data and information mining process where data is searched, gathered, and presented in a report-based format.

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High Availability features

- Mirroring Controller

  This is a unique feature to FUJITSU Enterprise Postgres that continually monitors your system and seamlessly switches online transaction processing to an alternate server to ensure business continuity when an abnormality is detected.

- Connection Manager

  This is a unique feature of FUJITSU Enterprise Postgres that allows application access and replication operation to be continued without being aware of the connection destination of the applications.

- Database Transaction Log Mirroring

  Transaction records are continuously streamed from the primary database to the standby database. This secures your transaction logs.

- WAL duplication

  Solves PostgreSQL's single point of failure.

- Smart setup (Create Master/ Standby/ Standalone)

  Leverage the smart setup features to setup your database quickly and efficiently often saving time and money as well as ensuring correct setup from the start.

- Easy backup/ recovery

  Utilize extensive data backup and recovery features to protect yourself in the case of data loss due to any number of events including deletion and corruption.

- Instance configuration / management

  A database instance refers to the set of structures that manage database files and its associated data and then serves them to users.

- Easy cluster setup and management (with Mirroring Controller)

  This enables several servers or instances (collection of memory and processes that interact with a database, as in the actual files and processes) to connect to a single version of the database.

- High-speed backup/recovery

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DevOps features

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- Support for COBOL applications

  Execute SQL commands from your legacy COBOL programs with little to no modifications. Embedded SQL in COBOL programs is precompiled by ECOBPG, so that its output can be processed by any COBOL compiler.

- System usage statistics

  A network usage monitor enables users to review your database's utilization metrics and statistics to discover and manage the resource utilization of your database.

- Enhanced GUI for cluster management

  Simplify the setup and management of streaming replication clusters.

- WebAdmin

  Helps you easily manage your database and its contents saving time and money.

- Interoperability (ability to connect to older versions)

  Data interoperability means that the data you create can be utilized by any older versions of the platform you may have residing across the organization.

- Support for variable format source code in COBOL programs

  FUJITSU Enterprise Postgres supports a variable version of source code in COBOL applications.

Security Performance High Availability DevOps Ease of use

Ease of Use features

- Anomaly detection

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- Enhanced GUI for cluster management

  Simplify the setup and management of streaming replication clusters.

- WebAdmin

  The WebAdmin in FUJITSU Enterprise Postgres helps you easily manage your database and its contents saving time and money.

- Rapid setup

  Save time and money by setting up the database quickly and easily.

- Interoperability (ability to connect to older versions)

  Data interoperability means that the data you create can be utilized by any older versions of the platform you may have residing across the organization.

- Easy setup (installer)

  PostgreSQL has offered an installer system since version 8.0 to make the process easier and faster.

Security Performance High Availability DevOps Ease of use

fast.fujitsu.com/
Email: enterprisepostgresql@fujitsu.com
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