

Fujitsu Enterprise Postgres

Compare features
across versions




























































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The hybrid
multi-cloud
Postgres
you can
rely on

Discover how Fujitsu Enterprise Postgres takes 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.

Feature	Postgres 15	Fujitsu Enterprise Postgres						
		15	14	13	12	11	IBM LinuxONE	IBM Power
Transparent Data Encryption (256-bit PCI DSS-compliant)   	✗	✓	✓	✓	✓	✓	✓	✓
Data Masking  	✗	✓	✓	✓	✓	✓	✓	✓
Dedicated audit logs 	✗	✓	✓	✓	✓	✓	✓	✓
Key management for Transparent Data Encryption 	✗	✓	✓	✗	✗	✗	✓	✓
Cloud-based key management 	✗	✓	✗	✗	✗	✗	✓	✓
Confidentiality management  	✗	✓	✗	✗	✗	✗	✓	✓
Policy-based password management  	✗	✓	✗	✗	✗	✗	✓	✗
FIPS compliance  	✗	✓	✗	✗	✗	✗	✓	✗
Anomaly detection   	✗	✓	✓	✓	✓	✓	✓	✓
Integration with CryptoCard hardware security module (HSM) 	✗	✗	✗	✗	✗	✗	✓	✗
IBM Hyper Protect Data Controller 	✗	✗	✗	✗	✗	✗	✓	✗
Vertical Clustered Index (In-Memory Columnar Index) 	✗	✓	✓	✓	✓	✓	✓	✓
Global Meta Cache 	✗	✓	✓	✓	✓	✗	✓	✓
High-speed backup/recovery  	✗	✓	✓	✓	✓	✓	✓	✓
High-speed data load  	✗	✓	✓	✓	✓	✓	✓	✓
Parallel scanning and aggregation 	✓	✓	✓	✓	✓	✓	✓	✓
zEnterprise Data Compression (zEDC) 	✗	✗	✗	✗	✗	✗	✓	✗
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 	✗	✓	✓	✓	✓	✓	✗	✗

 Security  Performance  Reliability  DevSecOps  Usability

[Read more >](#)

Security features

- 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 Log 



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).

- Key management for Transparent Data Encryption 

Increased flexibility to use KMIP certified external Key Management Systems (KMS) for improved data security. Reduced risk of data leakage by storing encryption keys outside the database. Better governance by the division of role between the database administrator and the administrator for Master Encryption Keys.

- Cloud-based key management 

Allows you to store Transparent Data Encryption keys in cloud key management services. Supports plug-ins to call communication adapters in the cloud and to share data encryption keys. Key management services in the cloud provide more choices for key management, lower operational costs, and increased security.

- Confidentiality management  

Simpler operations for role-based access control (RBAC) setting and audit. Easier and more efficient security operations, and reduced human errors, minimizing security risks.

- Policy-based password management  

Restricts access to accounts by setting restrictions on password use, preventing unauthorized logins and improving database security.

- FIPS compliance  

Fujitsu Enterprise Postgres with Cryptographic Module can use algorithms approved by the Cryptographic Module Security Requirements (Federal Information Processing Standard) 140, designed to ensure strengthened data encryption and communication security.

- 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.




- 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. Protects selected data as it traverses the enterprise network and prevents unauthorized access at all locations and end points.

Performance features

- 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.

- Vertical Clustered Index (In-Memory Columnar 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  

Improved 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  

Runs the PostgreSQL COPY command in parallel using as many workers as your available resources allow.

- Parallel scanning and aggregation 

Parallel processing breaks up and runs program tasks simultaneously to reduce processing time. Data aggregation mines data and information by searching, gathering, and presenting data in a report-based format.

- 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.

Reliability 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   


Fujitsu Enterprise Postgres provides an efficient GUI-based tool to configure and maintain your DB instances.




- 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  

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.

DevSecOps features 

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

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- 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.

- FIPS compliance  




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- 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.

- High-speed data load  




Leverages PostgreSQL COPY command, running it in parallel with as many workers as available resources allow.

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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.

Usability features 

- Confidentiality management  
Simpler operations for role-based access control (RBAC) setting and audit. Easier and more efficient security operations, and reduced human errors, minimizing security risks.
- Policy-based password management  
Restricts access to accounts by setting restrictions on password use, preventing unauthorized logins and improving database security.
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- 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.
- Rapid setup  
Save time and money by setting up the database quickly and easily.
- Interoperability (ability to connect to older versions)  
The data you create can be use by 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  Reliability  DevSecOps  Usability