

Fujitsu Enterprise Postgres 17 for Kubernetes

Release Notes

Linux

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Preface

Purpose of this document

This document provides release information for Fujitsu Enterprise Postgres for Kubernetes.

Structure of this document

This document is structured as follows:

[Chapter 1 New Features and Improvements](#)

Explains the new features and improvements in this version.

Abbreviations

The following abbreviations are used in this manual:

Full Name	Abbreviations
Fujitsu Enterprise Postgres for Kubernetes	FEP
Fujitsu Enterprise Postgres	
Custom Resource	CR
Universal Base Image	UBI
OpenShift Container Platform	OCP
Mutual TLS	MTLS

Abbreviations of manual titles

The following abbreviations are used in this manual as manual titles:

Full Manual Title	Abbreviations
Fujitsu Enterprise Postgres for Kubernetes Release Notes	Release Notes
Fujitsu Enterprise Postgres for Kubernetes Overview	Overview
Fujitsu Enterprise Postgres for Kubernetes User's Guide	User's Guide
Fujitsu Enterprise Postgres for Kubernetes Reference	Reference

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Chapter 1 New Features and Improvements

This chapter explains Fujitsu Enterprise Postgres for Kubernetes new features and improvements added in this version.

Table 1.1 New features and improvements

Version and level	Classification	Feature
FEP 17 Operator image tag:v7.3.0 Container image tag:ubi9-17-3.0 (*1)	AI Application Development Support	Hybrid Search
	OSS	PostgreSQL Rebase
		OSS Updates Provided
	Platform Enhancement	Additional OCP Support
		Additional Kubernetes Support
FEP 17 Operator image tag:v7.2.0 Container image tag:ubi9-17-2.0	AI Application Development Support	Knowledge Data Management
	Operation	SQL Job Scheduler
	Application Development	Python Driver
	OSS	PostgreSQL Rebase
		OSS Updates Provided
	Platform Enhancement	Additional OCP Support
		Additional Kubernetes Support
FEP 17 Operator image tag:v7.1.0 Container image tag:ubi9-17-1.0	OSS	PostgreSQL Rebase
		OSS Updates Provided
	Platform Enhancement	Additional OCP Support
		Additional Kubernetes Support
	Performance	Scheduling of an aggressive freeze for tuples (VACUUM FREEZE)
	Operation	Vector-enabled database
	Monitoring	Operational database monitoring with cloud services

*1: Only x86 is provided.

1.1 Features Added FEP17 Operator in v7.3.0

This section explains the improvement in Fujitsu Enterprise Postgres for Kubernetes v7.3.0.

1.1.1 AI Application Development Support

This section describes features that support AI application development.

- Hybrid Search

1.1.1.1 Hybrid Search

Hybrid search, which combines similar text search based on semantic similarity with full-text search functionality, becomes available.



See

Refer to "Setup of Knowledge Data Management" in the User's Guide for details.

1.1.2 OSS

This section explains the new feature related to OSS:

- PostgreSQL Rebase
- OSS Updates Provided

1.1.2.1 PostgreSQL Rebase

The PostgreSQL version that Fujitsu Enterprise Postgres is based on is 17.6.

1.1.2.2 OSS Updates Provided

The OSS provided by Fujitsu Enterprise Postgres and Fujitsu Enterprise Postgres for Kubernetes has been updated.



See

.....
Refer to "OSS Supported by Fujitsu Enterprise Postgres for Kubernetes" in the Overview.
.....

1.1.3 Platform Enhancement

This section explains the new feature related to platform enhancement:

- Additional OCP Support
- Additional Kubernetes Support

1.1.3.1 Additional OCP Support

The following additional OCP is supported:

- OCP 4.19



See

.....
Refer to "Supported Platform" in the User's Guide for details.
.....

1.1.3.2 Additional Kubernetes Support

The following additional Kubernetes is supported:

- Kubernetes 1.32



See

.....
Refer to "Supported Platform" in the User's Guide for details.
.....

1.2 Features Added FEP17 Operator in v7.2.0

This section explains the improvement in Fujitsu Enterprise Postgres for Kubernetes v7.2.0.

1.2.1 AI Application Development Support

This section explains new features to help you develop AI applications.

- Knowledge Data Management

1.2.1.1 Knowledge Data Management

The Knowledge Data Management feature provides the following features for building applications based on RAGs:

- Vector data management feature
- Text semantic search and automated vectorization
- Graph management feature
- LangChain linkage



See

Refer to "Setup of Knowledge Data Management" in the User's Guide for details.

For information on LangChain linkage, see Fujitsu Enterprise Postgres Knowledge Data Management Feature User's Guide.

1.2.2 Operation

This section describes new features related to Operation.

- SQL Job Scheduler

1.2.2.1 SQL Job Scheduler

It captures the peripheral OSS pg_cron, allowing application developers to run it periodically on the database.



See

Refer to "Setup of Job Scheduler" in the User's Guide for details.

1.2.3 Application Development

Learn about new features related to application development.

- Python Driver

1.2.3.1 Python Driver

A package for the Python language (psycopg) enables development with Python.



See

Refer to "OSS Supported by Fujitsu Enterprise Postgres for Kubernetes" in the Overview.

1.2.4 OSS

This section explains the new feature related to OSS:

- PostgreSQL Rebase
- OSS Updates Provided

1.2.4.1 PostgreSQL Rebase

The PostgreSQL version that Fujitsu Enterprise Postgres is based on is 17.4.

1.2.4.2 OSS Updates Provided

The OSS provided by Fujitsu Enterprise Postgres and Fujitsu Enterprise Postgres for Kubernetes has been updated.



See

Refer to "OSS Supported by Fujitsu Enterprise Postgres for Kubernetes" in the Overview.

1.2.5 Platform Enhancement

This section explains the new feature related to platform enhancement:

- Additional OCP Support
- Additional Kubernetes Support

1.2.5.1 Additional OCP Support

The following additional OCP is supported:

- OCP 4.17



See

Refer to "Supported Platform" in the User's Guide for details.

1.2.5.2 Additional Kubernetes Support

The following additional Kubernetes is supported:

- Kubernetes 1.30



See

Refer to "Supported Platform" in the User's Guide for details.

1.3 Features Added FEP17 Operator in v7.1.0

This section explains the improvement in Fujitsu Enterprise Postgres for Kubernetes v7.1.0.

1.3.1 OSS

This section explains the new feature related to OSS:

- PostgreSQL Rebase
- OSS Updates Provided

1.3.1.1 PostgreSQL Rebase

The PostgreSQL version that Fujitsu Enterprise Postgres is based on is 17.0.

1.3.1.2 OSS Updates Provided

The OSS provided by Fujitsu Enterprise Postgres and Fujitsu Enterprise Postgres for Kubernetes has been updated.



See

Refer to "OSS Supported by Fujitsu Enterprise Postgres for Kubernetes" in the Overview.

1.3.2 Platform Enhancement

This section explains the new feature related to platform enhancement:

- Additional OCP Support
- Additional Kubernetes Support

1.3.2.1 Additional OCP Support

The following additional OCP is supported:

- OCP 4.16



See

Refer to "Supported Platform" in the User's Guide for details.

1.3.2.2 Additional Kubernetes Support

The following additional Kubernetes is supported:

- Kubernetes 1.29



See

Refer to "Supported Platform" in the User's Guide for details.

1.3.3 Performance

This section describes new features related to Performance.

- Scheduling of an aggressive freeze for tuples (VACUUM FREEZE)

1.3.3.1 Scheduling of an aggressive freeze for tuples (VACUUM FREEZE)

Provide features for monitoring transaction ID usage and periodically performing an aggressive freeze for tuples (VACUUM FREEZE), to avoid work stoppages when autovacuum does not perform freezing of transaction IDs in time.



See

Refer to "Scheduling of an aggressive freeze for tuples (VACUUM FREEZE)" in the User's Guide.

1.3.4 Operation

This section describes new features related to Operation:

- Vector-enabled database

1.3.4.1 Vector-enabled database

It captures the peripheral OSS pgvector, allowing vector storage and similarity searching to work.



See

.....
Refer to "OSS Supported by Fujitsu Enterprise Postgres for Kubernetes" in the Overview.
.....

1.3.5 Monitoring

This section describes new features related to Monitoring.

- Operational database monitoring with cloud services

1.3.5.1 Operational database monitoring with cloud services

You can use monitoring tools such as Amazon CloudWatch provided by Amazon Web Services, to collect metrics and logs about your databases, and use the collected information to monitor database operations.



See

.....
Refer to "Collaboration with Amazon CloudWatch" and "FEP Logging" in the User's Guide.
.....