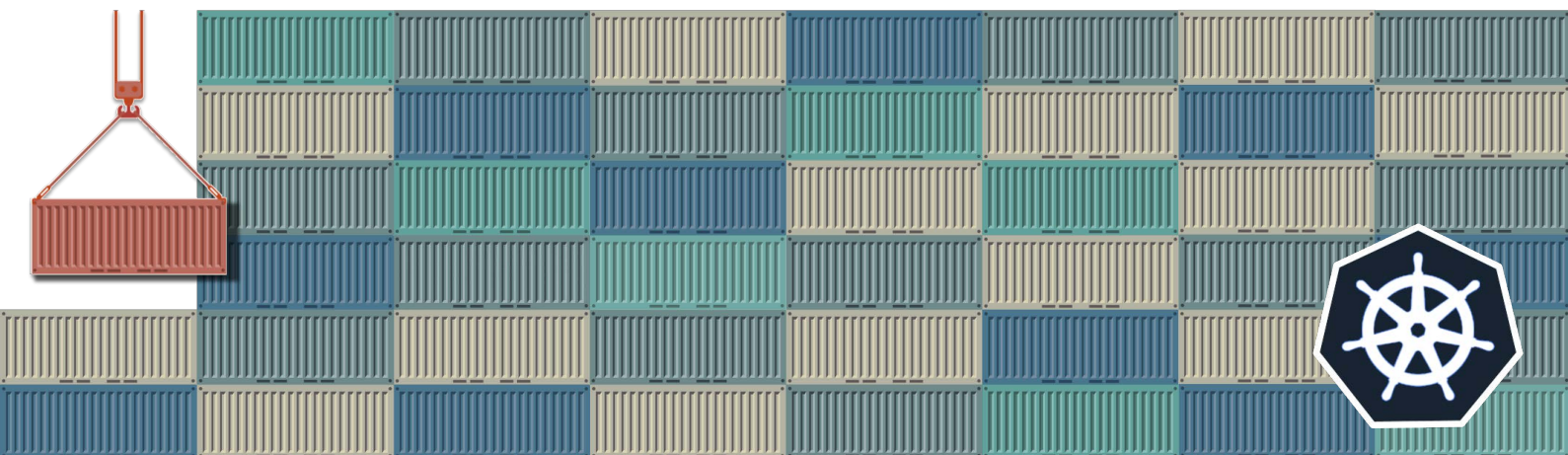


# FUJITSU Enterprise Postgres 13 for Kubernetes



## Release Notes

Linux

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# Preface

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## 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 Software Enterprise Postgres for Kubernetes	FEP or FUJITSU Enterprise Postgres
FUJITSU Software 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 Software Enterprise Postgres for Kubernetes Release Notes	Release Notes
FUJITSU Software Enterprise Postgres for Kubernetes Overview	Overview
FUJITSU Software Enterprise Postgres for Kubernetes User's Guide	User's Guide
FUJITSU Software 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 13 Operator image tag:v3.1.8  Container image tag:ubi8-13-1.8	OSS	<a href="#">PostgreSQL Rebase</a>
	Platform enhancement	<a href="#">Patching the Container's Base OS Image</a>
FEP 13 Operator image tag:v3.1.7  Container image tag:ubi8-13-1.7	OSS	<a href="#">Patching the PostgreSQL JDBC Driver</a>
	Platform enhancement	<a href="#">Patching the Container's Base OS Image</a>
FEP 13 Operator image tag:v3.1.6  Container image tag:ubi8-13-1.6	Platform enhancement	<a href="#">Patching the Container's Base OS Image</a>
FEP 13 Operator image tag:v3.1.5  Container image tag:ubi8-13-1.5	Platform enhancement	<a href="#">Patching the Container's Base OS Image</a>
FEP 13 Operator image tag:v3.1.4  Container image tag:ubi8-13-1.4	OSS	<a href="#">PostgreSQL Rebase</a>
	Platform enhancement	<a href="#">Additional OCP Support</a>
FEP 13 Operator image tag:v3.1.3  Container image tag:ubi8-13-1.3	Platform enhancement	<a href="#">Patching the Container's Base OS Image</a>
FEP 13 Operator image tag:v3.1.2  Container image tag:ubi8-13-1.2	OSS	<a href="#">PostgreSQL Rebase</a>
	Platform enhancement	<a href="#">Additional OCP Support</a>
		<a href="#">Additional OCS Support</a>
FEP 13 Operator image tag:v3.1.1  Container image tag:ubi8-13-1.1	OSS	<a href="#">PostgreSQL Rebase</a>
	Platform enhancement	<a href="#">Additional OCP Support</a>
FEP 13 Operator image tag:v3.1.0  Container image tag:ubi8-13-1.0	OSS	<a href="#">PostgreSQL Rebase</a>
	Platform enhancement	<a href="#">Additional OCP Support</a>
		<a href="#">Additional OCS Support</a>
	Operation	<a href="#">OCP Level4 for Monitoring and Alerting Feature</a>
		<a href="#">OCP Level4 for Event Notification Feature</a>
		<a href="#">OCP Level5 for Auto Scaling Read Replicas</a>
		<a href="#">Logical Replication Support</a>

## 1.1 Features Added FEP13 Operator in v3.1.8

---

This section explains the improvement in FUJITSU Enterprise Postgres for Kubernetes v3.1.8.

### 1.1.1 OSS

---

This section explains the improvement related to OSS:

- PostgreSQL rebase

#### 1.1.1.1 PostgreSQL Rebase

The PostgreSQL version that FUJITSU Enterprise Postgres is based on is 13.8.



See

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

### 1.1.2 Platform Enhancement

---

This section explains the improvement related to platform enhancement:

- Patching the Container's Base OS image

#### 1.1.2.1 Patching the Container's Base OS Image

Patched the Container's Base OS image.

## 1.2 Features Added FEP13 Operator in v3.1.7

---

This section explains the improvement in FUJITSU Enterprise Postgres for Kubernetes v3.1.7.

### 1.2.1 OSS

---

This section explains the improvement related to OSS:

- Patching the PostgreSQL JDBC driver

#### 1.2.1.1 Patching the PostgreSQL JDBC Driver

Patched the PostgreSQL JDBC driver.

### 1.2.2 Platform Enhancement

---

This section explains the improvement related to platform enhancement:

- Patching the Container's Base OS image

#### 1.2.2.1 Patching the Container's Base OS Image

Patched the Container's Base OS image.

## 1.3 Features Added FEP13 Operator in v3.1.6

---

This section explains the improvement in FUJITSU Enterprise Postgres for Kubernetes v3.1.6.

## 1.3.1 Platform Enhancement

---

This section explains the improvement related to platform enhancement:

- Patching the Container's Base OS image

### 1.3.1.1 Patching the Container's Base OS Image

Patched the Container's Base OS image.

## 1.4 Features Added FEP13 Operator in v3.1.5

---

This section explains the improvement in FUJITSU Enterprise Postgres for Kubernetes v3.1.5.

### 1.4.1 Platform Enhancement

---

This section explains the improvement related to platform enhancement:

- Patching the Container's Base OS image

#### 1.4.1.1 Patching the Container's Base OS Image

Patched the Container's Base OS image.

## 1.5 Features Added FEP13 Operator in v3.1.4

---

This section explains new features and improvements in FUJITSU Enterprise Postgres for Kubernetes v3.1.4.

### 1.5.1 OSS

---

This section explains the new feature related to OSS:

- PostgreSQL rebase

#### 1.5.1.1 PostgreSQL Rebase

The PostgreSQL version that FUJITSU Enterprise Postgres is based on is 13.7.



See

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

### 1.5.2 Platform Enhancement

---

This section explains the new features related to platform enhancement:

- Additional OCP support

#### 1.5.2.1 Additional OCP Support

The following additional OCP is supported:

- OCP 4.10



See

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

## 1.6 Features Added FEP13 Operator in v3.1.3

---

This section explains the improvement in FUJITSU Enterprise Postgres for Kubernetes v3.1.3.

### 1.6.1 Platform Enhancement

---

This section explains the improvement related to platform enhancement:

- Patching the Container's Base OS image

#### 1.6.1.1 Patching the Container's Base OS Image

Patched the Container's Base OS image.

## 1.7 Features Added FEP13 Operator in v3.1.2

---

This section explains new features and improvements in FUJITSU Enterprise Postgres for Kubernetes v3.1.2.

### 1.7.1 OSS

---

This section explains the new feature related to OSS:

- PostgreSQL rebase

#### 1.7.1.1 PostgreSQL Rebase

The PostgreSQL version that FUJITSU Enterprise Postgres is based on is 13.6.



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

### 1.7.2 Platform Enhancement

---

This section explains the new features related to platform enhancement:

- Additional OCP support

#### 1.7.2.1 Additional OCP Support

The following additional OCP is supported:

- OCP 4.9



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

#### 1.7.2.2 Additional OCS Support

The following additional OCS is supported:

- OCS 4.8



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



## 1.8 Features Added FEP13 Operator in v3.1.1

---

This section explains new features and improvements in FUJITSU Enterprise Postgres for Kubernetes v3.1.1.

### 1.8.1 OSS

---

This section explains the new feature related to OSS:

- PostgreSQL rebase

#### 1.8.1.1 PostgreSQL Rebase

The PostgreSQL version that FUJITSU Enterprise Postgres is based on is 13.5.



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

### 1.8.2 Platform Enhancement

---

This section explains the new features related to platform enhancement:

- Additional OCP support

#### 1.8.2.1 Additional OCP Support

The following additional OCP is supported:

- OCP 4.8



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

## 1.9 Features Added FEP13 Operator in v3.1.0

---

This section explains new features and improvements in FUJITSU Enterprise Postgres for Kubernetes v3.1.0.

### 1.9.1 OSS

---

This section explains the new feature related to OSS:

- PostgreSQL rebase

#### 1.9.1.1 PostgreSQL Rebase

The PostgreSQL version that FUJITSU Enterprise Postgres is based on is 13.3.



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

### 1.9.2 Platform Enhancement

---

This section explains the new features related to platform enhancement:

- Additional OCP support

- Additional OCS support

### 1.9.2.1 Additional OCP Support

The following additional OCP is supported:

- OCP 4.7



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

### 1.9.2.2 Additional OCS Support

Supports OpenShift Container Storage for storage.



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

## 1.9.3 Operation

---

This section explains the new feature related to operation:

- OCP Level4 for Monitoring and Alerting feature
- OCP Level4 for Event Notification feature
- OCP Level5 for Auto Scaling Read Replicas
- Logical Replication support

### 1.9.3.1 OCP Level4 for Monitoring and Alerting Feature

Provides operator and operand (i.e. FEPCluster) monitoring and alerting as required for OCP Level 4 functionality.



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

### 1.9.3.2 OCP Level4 for Event Notification Feature

Provides notification of custom resource creation event as required for OCP Level 4 functionality.



Refer to "Event Notification" in the User's Guide for details.

### 1.9.3.3 OCP Level5 for Auto Scaling Read Replicas

Provides the auto-scale-out capability of read replicas required for OCP level 5 functionality.



Refer to "Scaling Replicas" in the User's Guide for details.

### 1.9.3.4 Logical Replication Support

New support for logical replication as a replication method.



See

Refer to "Replication slots" in the User's Guide for details.

## 1.10 Additional Notes

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Please note the following:

- There is a change in the default value.
  - Exclude pgaudit and vci from 'shared\_preload\_libraries'
  - Set the default backup retention date (7 days)
  - Enable SSL parameters for PGPool2 by default