




PostgreSQL Operator

Technical Guide



Feature	Stackgres	Percona Operator for PostgreSQL	Crunchy Data	EDB (CloudNativePG)	Zalando	KubeDB for PostgreSQL
Generic						
Open source license	AGPL 3	Apache 2.0	Apache 2.0, but images are under Developer Program	Apache 2.0	MIT	Open core
Support cycles	No formal "end-of-life" policy	Latest 3 minor versions of the operator	Latest 3 minor versions of the operator	Latest 2 minor releases of the operator. EOL tied to commercial support	No formal "end-of-life" policy	No formal "end-of-life" policy
Cluster-wide deployment	✓	✓	✓	✓	✓	✓
Maintenance						
Database upgrade	Major/ minor version upgrade support	Major/ minor version upgrade support	Major/ minor version upgrade support	Major/ minor version upgrade support	Major/ minor version upgrade support	Major/ minor version upgrade support
Compute scaling	Horizontal and vertical	Horizontal and vertical	Horizontal and vertical	Horizontal and vertical	Horizontal and vertical	Horizontal and vertical
Storage scaling	Semi-automated	Automated	Automated	Semi-automated	Semi-automated	Semi-automated
PostgreSQL topologies						
Warm standby	✓	✓	✓	✓	✓	✓
Hot standby	✓	✓	✓	✓	✓	✓
Connection pooling	✓	✓	✓	✓	✓	✗
Delayed replica	✗	✓	✓	✓	✓	✗
Backup						
Physical	✓	✓	✓	✓	✓	✗
Logical	✗	✗	✓	✗	✓	✓

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Percona for
PostgreSQL

Incremental	✓	✓	✓	✓	✓	✓
Scheduled backups	✓	✓	✓	✓	✓	✓
WAL archiving	✓	✓	✓	✓	✓	✓
PITR	✓	✓	✓	✓	✓	✓
GCS	✓	✓	✓	✓	✓	✓
S3	✓	✓	✓	✓	✓	✓
Azure	✓	✓	✓	✓	✓	✓

Monitoring

Solution	Exposing metrics in Prometheus format	Percona Monitoring and Management	Prometheus stack and pgMonitor	Exposing metrics in Prometheus format	Sidecars	Monitoring via Prometheus Operator
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Feature

Customize PostgreSQL configuration	✓	✓	✓	✓	✓	✓
Helm	✓	✓	✓	✓	✓	✓
Transport encryption	✓	✓	✓	✓	✓	✓
Data at Rest Encryption	Through storage class	1. Through storage class; 2. pg_tde coming soon.	Through storage class	Through storage class	Through storage class	Through storage class
Create users/roles	✓	✓	✓	✓	✗ Limited	✓
Cross-site replication	✗ Not documented / manual	✓ Multi-cluster standby / cross-region	✓ Multi-cluster standby	✗ Single-cluster replicas only	✓ Multi-cluster / WAL standby	✓ Multi-cluster / streaming replication
Custom PostgreSQL extensions	✗ Limited	✓ Supported via CR	✓ Supported	✗ Limited / custom container needed	✓ Supported via CR	✓ Supported via CR / custom image
Failover support	Automated	Automated	Automated	Automated	Automated	Automated
Init SQL support	✗ Not documented	✓ Supported via init scripts	✓ Supported via init scripts	✓ Supported via initdb / scripts	✓ Supported via CR	✓ Supported via init scripts

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