



When you install Percona Distribution for PostgreSQL, you get everything you need to be up and running with PostgreSQL. It provides:

- PostgreSQL Core Distribution version 11.5
- `pg_repack` extension to enable altering tables without locks
- `pgaudit` to provide a complete trail of session and/or object-level changes
- `pgBackRest` for safe and secure backup and restore functionality
- Patroni for a tested solution for high availability (HA)

Percona Distribution for PostgreSQL delivers all of this in a single installation. The components are tested to work together and they, along with the PostgreSQL Core Distribution, will be updated as appropriate.

Percona Distribution for PostgreSQL 11

Percona Distribution for PostgreSQL 11 delivers a single source that provides an enterprise-grade, open-source installation of PostgreSQL Core Distribution. No longer do you need to find solutions for common requirements, like high availability and backup, on your own. Installing Percona Distribution for PostgreSQL provides a complete package for PostgreSQL that meets the needs of all companies, large and small.

PostgreSQL Core Distribution

Percona Distribution for PostgreSQL is based on the current version of the PostgreSQL Core Distribution. At present, it is based on version 11.5.

PostgreSQL Core Distribution is an open-source, ACID-compliant relational database management system. It supports a wide range of data types and user-defined objects. PostgreSQL Core Distribution is a stable and secure product, relied upon by many organizations.

pg_repack

`pg_repack` is an extension for PostgreSQL that provides the ability to rebuild tables online. There are three reasons that `pg_repack` is an important tool in your PostgreSQL installation:

- Reclaim free space from a table to disk, after deleting a huge chunk of records
- Rebuild a table to re-order the records and shrink/pack them to a lesser number of pages. This may enable a query to fetch fewer pages from disk, reducing IO and improving performance.
- Reclaim free space from a table that has grown in size with a lot of bloat due to improper autovacuum settings

pgaudit

`pgaudit` helps to audit the activities happening in the database. If any unauthorized user has obfuscated the DDL or DML, the statement the user has passed, and the sub-statement that was actually executed in the database, are logged in the PostgreSQL log file. This provides the ability to restore the database back to its previous state before the offending command was executed.

`pgaudit` provides the highest level of auditing, which allows the monitoring of even SUPERUSER actions.

pgBackRest

The backup solution in Percona Distribution for PostgreSQL is pgBackRest. pgBackRest is an easy to use and reliable solution that provides backup and restore capabilities that can scale to meet the needs of the largest database environments.

pgBackRest provides for full, incremental, and differential backups; remote or local operations; streaming compression to minimize storage needs; and delta restores to lower the amount of time and effort needed to complete a restore. It is supported by a strong and active community.

Patroni

Patroni provides a template for you to create an HA PostgreSQL solution easily and quickly. It is referred to as a template since it is meant to provide guidance for designing a customized HA environment.

By default, Patroni sets up PostgreSQL asynchronous replication, but your needs may be different. In that case, Patroni can support PostgreSQL synchronous replication or its own, more restrictive synchronous replication mode. In Patroni's custom synchronous replication mode, it will only promote a standby if it is certain that the standby contains all transactions that have returned a successful commit status to the client's replication mode. While more restrictive, this ensures that no committed transactions are lost.



Percona PostgreSQL Support and Consulting Services

Whether you're running Percona Distribution for PostgreSQL or another PostgreSQL distribution, Percona offers a comprehensive, responsive, and cost-effective Support plan to help your organization's deployment succeed. Percona also offers expert PostgreSQL Consulting services to help with your deployment and ensure optimal ongoing performance.