

4 Migration to TimescaleDB

Overview

Support of a time-series database has been added since Zabbix 4.2 in the form of **experimental** support of TimescaleDB, a PostgreSQL-based database solution of automatically partitioning data into time-based chunks to support faster performance at scale.

Currently TimescaleDB is not supported by Zabbix proxy.

This section provides the steps necessary for migrating from existing PostgreSQL tables to TimescaleDB.

Configuration

We assume that TimescaleDB extension has been already installed in the database (see [installation instructions](#)).

TimescaleDB extension must also be enabled for the specific DB by executing:

```
echo "CREATE EXTENSION IF NOT EXISTS timescaledb CASCADE;" | sudo -u postgres psql zabbix
```

Running this command requires database administrator privileges.

If you use a database schema other than 'public' you need to add a SCHEMA clause to the command above. E.g.:

```
echo "CREATE EXTENSION IF NOT EXISTS timescaledb SCHEMA yourschema CASCADE;" | sudo -u postgres psql zabbix
```

Then run the `timescaledb.sql` script located in `database/postgresql`:

```
cat timescaledb.sql | sudo -u zabbix psql zabbix
```

Migration of existing history and trend data may take a lot of time. Zabbix server and frontend must be down for the period of migration.

The `timescaledb.sql` script sets the following housekeeping parameters (from *Administration* → *General* → *Housekeeping*):

- Override item history period
- Override item trend period

In order to use partitioned housekeeping for history and trends both these options must be on. It's possible to use TimescaleDB partitioning only for trends (by setting *Override item trend period*) or only for history (*Override item history period*).

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