

Getting started with PostgreSQL

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1 Installation

PostgreSQL is a free/libre and open source object-relational database system. Lots of alternatives exist.

On GNU/Linux, some version of PostgreSQL is probably available as package in your distribution (e.g., `sudo apt install postgresql`). Other versions can be installed as well.

For other operating systems, please check out the [download page](#).

If you are familiar with [Docker](#), images exist as well (`docker pull postgres`).

1.1 Notes on Windows

I do not recommend Windows. I recommend [GNU/Linux](#).

I use PostgreSQL via its command line tool `psql`. On Windows, this needs to be activated manually. (In Windows terminals, executable programs such as `psql` are located by searching through various directories, in particular those listed in the system environment variable `Path`.)

Install PostgreSQL as instructed on the [download page](#) mentioned above. This asks you for (a) an installation directory and (b) a password for the database user `postgres`. Remember both.

Add the `bin` sub-directory with executable files to your `Path` environment variable so that you can execute them from a terminal: Open the installation directory in an explorer window, change to the `bin` sub-directory. Copy its location, add it to the `Path` system environment variable: Open System settings (e.g., right-click on Windows symbol), search for environment (umgebung), change system environment variables, locate system variable “Path”, add a new entry with the copied location.

Open a terminal (WindowsKey+R, then type `cmd`). Type `psql`. If that asks you for a password, everything is fine. By default, user `postgres` exists, with the password you remembered above.

2 First Commands

- Connect to database as user `postgres`: `psql -U postgres`
- Type `help` for help, e.g.:
 - `\?` to see built-in commands (such as `\dt`)

- Type SQL commands, ending with “;”, e.g., `create table ...;` or `select * from ... ;`

License Information

Source files are available on GitLab (check out embedded submodules) under free licenses.

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