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n8n Workflows

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n8n and your database: the MySQL and PostgreSQL nodes

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n8n's **MySQL** and **PostgreSQL** nodes let a workflow query, insert and update rows directly in a database. The node is the easy part. The hard part is **reaching** the database from the container n8n runs in, and doing it without opening the database to the world.

Where the database lives

Where it is	How n8n gets there
In the same compose file, another container	By the **service name**, on the Docker network. See **Docker Compose: an application with its database**.
On the same VPS, outside Docker	`localhost` inside the container is the container itself, not the VPS. Use the address Docker gives a container to reach its host (Docker's documentation explains it) and make sure the database listens on that interface.
On another VPS	Over a private network, or by opening the port only to the n8n IP. See **installing PostgreSQL on a VPS**.
On a shared hosting plan	Ports 3306 and 5432 are **not open from outside**. You get there through an SSH tunnel. See **the SSH tunnel, step by step**, and what "Remote MySQL" does in **letting an outside address reach your MySQL**.

Setting up the connection

1. **Create a user just for n8n**, with rights only on the tables the workflow needs. If the workflow only reads, give it read rights only. See **creating a database user and giving it the right privileges** and, for PostgreSQL, **creating a PostgreSQL user and database, and connecting with psql**.

2 **Create the credential in n8n**: host, port, database name, user and password. The usual ports are 3306 for MySQL and 5432 for PostgreSQL. If the database is on another machine, switch encryption (SSL) on if the database supports it.

3 **Begin with a read query** returning few rows. If the credential and the network are right, the result appears.

4 **Pass values as parameters.** The nodes let you send the query with the values kept apart; see the node documentation for how. It is the defence against SQL injection.

5 **Limit what you read.** Asking a workflow for a whole table of thousands of rows eats memory. Ask only for the columns and rows you need, and work in batches.

! **Never paste into SQL text anything that came from outside**
(a form field, a webhook body, an e-mail subject). Whoever controls that text controls your database. Use the node parameters and a user without the right to delete.

Two common mix-ups

Mix-up	The truth
The database n8n uses inside is my database	They are two things. n8n keeps its workflows and executions in a database of its own (by default an internal file; the project documentation describes how to use PostgreSQL). The nodes connect to **your** database, the one with the business data.
MySQL and MariaDB are the same	Shared hosting plans use MariaDB, which speaks the same protocol. The MySQL node usually works; see **MySQL or MariaDB: which one runs here**.
Accents turn into question marks	It is the character set. See **character sets: utf8mb4**.

Back up the database before the first workflow that writes to it.
See **backing up with mysqldump and pg_dump**.

RECOMMENDED
Need a VPS to run n8n and the database on?
See the VPS servers →

SEE ALSO

- Reaching MySQL or PostgreSQL through an SSH tunnel
- Creating a database user and giving it the right privileges
- Remote access to PostgreSQL: what works and what does not
- Securing n8n: access, credentials and exposed webhooks

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