# Databases in the ecosystem

The databases of the Exponential ecosystem in the project's official order - SQLite 3, PostgreSQL, MongoDB, MariaDB, Oracle and MySQL - what each is chosen for, what the CI tests, Microsoft SQL Server's status, and...

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> "**Supported databases (Exponential 6.0.x), in order of preference:** 1. SQLite 3 (the default) · 2. PostgreSQL · 3. MongoDB · 4. MariaDB · 5. Oracle · 6. MySQL. Microsoft SQL Server is known to be possible with additional work at this time." (Database support)

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## The six databases

| # | Database | Chosen for | Server needed | Tested in CI |
|---|---|---|---|---|
| 1 | SQLite 3 | The default; "a full production database for a site served from one machine" | No: one file | Driver unit tests |
| 2 | PostgreSQL | "the recommended database server" | Yes | Yes (PostgreSQL 15) |
| 3 | MongoDB | "organizations standardized on MongoDB", through an adapter | Yes | Adapter unit tests |
| 4 | MariaDB | "the MySQL-compatible server the project prefers" | Yes | No |
| 5 | Oracle | 19c and later, through `ezoracle`, present in every installation | Yes | No |
| 6 | MySQL | Supported on the same driver as MariaDB | Yes | Yes (MySQL 8.0) |

Source: Database support.

## Microsoft SQL Server

"Microsoft SQL Server has no driver in Exponential 6.0.x. It is known to be possible", and "An extension written for the 4.x line, `se7enxweb/xrowmssql`, is the natural starting point for that work" (Database support). A contribution opportunity for the ecosystem.

## The platform line

The Symfony distributions use their own database layer. The ecosystem's addition there is SQLite support: the DXP "features improvements not found in Ibexa DXP OSS", starting with "The SQLite database driver and framework support" (`README.md`); see SQLite for the platform.

## Where to read more

- For hosts, one page per database: Hosting basics.
- Changing engines on a running site: Changing the database engine.
- The SQLite feature: SQLite database; MongoDB: MongoDB database support.

## Related pages

- The PHP stack
- Database support
- Databases in the official order
- Talking points: hosting, databases and freedom
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