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
- Free documentation: this page is free to copy, translate and improve under the GNU FDL 1.3.

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