

MARIADB CORPORATION

Engineering Policy



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MariaDB Corporation AB

The latest version of this policy may be found at:

<https://mariadb.com/engineering-policies/>

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1 Maintenance, Operating Systems Support, and Deprecation Policies

MariaDB Corporation intends to support all of the most used operating systems and Linux distributions among our customers. For new versions of an Operating System MariaDB aims for providing packages for the last three MariaDB GA versions, if technically possible. For new versions of a distribution where MariaDB Server is included, MariaDB will provide at least the same major and upcoming versions.

However, when a distribution or operating system stops receiving security and other updates, it becomes difficult for MariaDB Corporation to provide packages for that platform. In such cases, our policy is to deprecate that platform and stop providing binary packages for it. To get more information about the maintenance and deprecation policies for those operating system, please consult the following information pages:

- [CentOS Release Information](#)
- [Red Hat Release Information](#)
- [Ubuntu Release Information](#)
- [Debian Release Information](#)
- [SUSE Enterprise Release Information](#)
- [Windows Client Lifecycle Information](#)
- [Windows Server Lifecycle Information](#)

1.1 Extended Support

Some customers require support for software after the standard support for the product has run out. This while the product still hasn't reached its End-Of-Life date. For additional fees, MariaDB Corporation can offer an extended period of support and SLA commitments. Extended Support typically only contains security fixes. After the End-of-Life date there is no more Engineering Support by MariaDB Corporation.

MariaDB Corporation can also offer additional operating system support to their customers on a case by case basis, and for additional needs. Please [contact us](#) for more details.

1.2 Technical Support for Deprecated Platforms

If you've chosen an operating system or Linux distribution that is deprecated, packages or support are not completely unavailable. [MariaDB Corporation](#) can provide support for older versions of MariaDB on special requests and separate contracts.

2 MariaDB Server

2.1 MariaDB Enterprise Server

Supported Versions

Version	Stable (GA) Date	End of Standard Support	End of Life Date
10.2 ¹	23 May 2017	23 May 2022	23 May 2022
10.3 ¹	25 May 2018	25 May 2023	25 May 2023
10.4 ¹	02 July 2019	02 July 2022	02 July 2024
10.5 ¹	16 July 2020	16 July 2023	16 July 2025

Supported Operating Systems

OS	OS Version	Arch.	Version 10.2	Version 10.3	Version 10.4	Version 10.5
Red Hat Enterprise Linux & CentOS ²	6.x	x86_64	OK	OK	OK	
Red Hat Enterprise Linux & CentOS ²	7.x	x86_64	OK	OK	OK	OK
Red Hat Enterprise Linux & CentOS ²	8.x	x86_64	OK	OK	OK	OK
Ubuntu	16.04	x86_64	OK	OK	OK	OK
Ubuntu	18.04	x86_64	OK	OK	OK	OK
Ubuntu	20.04	x86_64		OK	OK	OK
Debian	9	x86_64	OK	OK	OK	OK
Debian	10	x86_64		OK	OK	OK
Windows ³		x86_64	OK	OK	OK	OK
SUSE Linux Enterprise Server	12	x86_64	OK	OK	OK	OK
SUSE Linux Enterprise Server	15	x86_64	OK	OK	OK	OK

Note, we may only provide binaries for the latest major MariaDB Enterprise Server GA version when a new operating system release goes GA, or a new service pack is available.

1. Support for 10.2, 10.3, 10.4, and 10.5 provided based on MariaDB Enterprise Server.

2. CentOS packages are built based on Red Hat Enterprise Linux.

3. Until the product reaches the Mainstream Support End Date.

2.2 MariaDB Enterprise Server components with limited OS coverage

MariaDB Enterprise Cluster

Supported Operating Systems

OS	OS Version	Arch.	Version 10.2	Version 10.3	Version 10.4	Version 10.5
Red Hat Enterprise Linux & CentOS 4	6.x	x86_64	OK	OK	OK	
Red Hat Enterprise Linux & CentOS 4	7.x	x86_64	OK	OK	OK	OK
Red Hat Enterprise Linux & CentOS 4	8.x	x86_64	OK	OK	OK	OK
Ubuntu	16.04	x86_64	OK	OK	OK	OK
Ubuntu	18.04	x86_64	OK	OK	OK	OK
Ubuntu	20.04	x86_64		OK	OK	OK
Debian	9	x86_64	OK	OK	OK	OK
Debian	10	x86_64		OK	OK	OK
SUSE Linux Enterprise Server	12	x86_64	OK	OK	OK	OK
SUSE Linux Enterprise Server	15	x86_64	OK	OK	OK	OK

MariaDB Enterprise (ColumnStore)

Supported Operating Systems

OS	OS Version	Arch.	Version 1.4 5	Version 5 5
Red Hat Enterprise Linux & CentOS 4	7.x	x86_64	OK	OK
Red Hat Enterprise Linux & CentOS 4	8.x	x86_64		OK
Ubuntu	16.04	x86_64	OK	OK
Ubuntu	18.04	x86_64	OK	OK
Ubuntu	20.04	x86_64		OK
Debian	9	x86_64	OK	OK
Debian	10	x86_64	OK	OK
SUSE Linux Enterprise Server	12	x86_64	OK	OK
SUSE Linux Enterprise Server	15	x86_64	OK	OK

4. CentOS packages are built based on Red Hat Enterprise Linux.

5. MariaDB Enterprise ColumnStore 1.4 is only available on MariaDB Enterprise Server 10.4 and MariaDB Enterprise ColumnStore 5 only on MariaDB Enterprise Server 10.5.

3 MariaDB ColumnStore

Supported Versions

Version	Stable (GA) Date	Based on MariaDB Server X EOL	End of Life Date
1.2	3 December 2018	10.3	25 May 2023

Supported Operating Systems

OS	OS Version	Arch.	Version 1.2
Red Hat Enterprise Linux & CentOS 6	7.x	x86_64	OK
Ubuntu	16.04	x86_64	OK
Ubuntu	18.04	x86_64	OK
Debian	9	x86_64	OK
SUSE Linux Enterprise Server	12	x86_64	OK

6. CentOS packages are built based on Red Hat Enterprise Linux.

4 MariaDB MaxScale

Supported versions

Version	Stable (GA) Date	End of Life Date
2.3	December 2018	01 January 2022
2.4	August 2019	01 January 2023
2.5	July 2020	01 January 2024

Supported Operating Systems

OS	OS Version	Arch.	Version 2.3	Version 2.4	Version 2.5
Red Hat Enterprise Linux & CentOS ⁷	7.x	x86_64	OK	OK	OK
Red Hat Enterprise Linux & CentOS ⁷	8.x	x86_64	OK	OK	OK
Ubuntu	16.04	x86_64	OK	OK	OK
Ubuntu	18.04	x86_64	OK	OK	OK
Ubuntu	20.04	x86_64	OK	OK	OK
Debian	9	x86_64	OK	OK	OK
Debian	10	x86_64	OK	OK	OK
SUSE Linux Enterprise Server	12	x86_64	OK	OK	OK
SUSE Linux Enterprise Server	15	x86_64	OK	OK	OK
Generic Linux		x86_64	OK	OK	OK

⁷ CentOS packages are built based on Red Hat Enterprise Linux.

5 ClustrixDB

Supported versions

Version	Stable (GA) Date	End of Life Date
9.2	October 2019	October 2021 or until two major releases exist

Supported Operating Systems

OS	OS Version	Arch	Version 9.2
CentOS	7.x	x86_64	OK

6 MariaDB Connectors

6.1 MariaDB Connector/J

Supported versions

Version	Stable (GA) Date	End of Life Date
1.8	February 2019	February 2024, or EOL Java 7, or when a newer, 100% compatible major version exists
2.7	September 2020	September 2025, or EOL Java 8, or when a newer 100% compatible major version exists

Java Supported Versions

Java Version	Jave EOL ⁸	Version 1.8	Version 2.x
Java 7	July 2022	OK	
Java 8	March 2025		OK
Java 11	September 2026		OK

⁸ EOL date based on the Oracle Java SE Support Roadmap - "extended Support".

6.2 MariaDB Connector/ODBC

Supported versions

Version	Stable (GA) Date	End of Life Date
3.1	May 2019	May 2024, or when a newer, 100% compatible major version exists

Supported Operating Systems

OS	Arch.	Version 3.1
Generic Linux	x86_64	OK
Windows 9	x86_64	OK
macOS	x86_64	OK

9. Until the product reaches the Mainstream Support End Date.

6.3 MariaDB Connector/C

Supported versions

Version	Stable (GA) Date	End of Life Date
2.3	July 2016	July 2021, or when a newer, 100% compatible major version exists
3.1	June 2019	June 2024, or when a newer, 100% compatible major version exists

Supported Operating Systems

OS	OS Version	Arch.	Version 2.3	Version 3.1
Red Hat Enterprise Linux & CentOS ⁷	6.x	x86_64		OK
Red Hat Enterprise Linux & CentOS ⁷	7.x	x86_64		OK
Red Hat Enterprise Linux & CentOS ⁷	8.x	x86_64		OK
Ubuntu	16.04	x86_64		OK
Ubuntu	18.04	x86_64		OK
Ubuntu	20.04	x86_64		OK
Debian	9	x86_64		OK
Debian	10	x86_64		OK
SUSE Linux Enterprise Server	12	x86_64		OK
SUSE Linux Enterprise Server	15	x86_64		OK
Generic Linux		x86_64	OK	OK
Windows ¹¹		x86_64	OK	OK

¹⁰. CentOS packages are built based on Red Hat Enterprise Linux.

¹¹. Until the product reaches the Mainstream Support End Date.

6.4 MariaDB Connector/Node.js

Supported Versions

Version	Stable (GA) Date	End of Life Date
2.5	October 2020	October 2025, or EOL Node.js 10.x, or when a newer, 100% compatible major version exists

Supported Node.js Versions

Node.js Version	Version 2.5
Node.js 10	OK
Node.js 12	OK
Node.js 14	OK

6.5 MariaDB Connector/Python

Supported versions

Distribution	Version	Version 1.0
python.org	3.6	OK
python.org	3.7	OK
python.org	3.8	OK

7 Appendix

7.1 Release Policy

Versioning Scheme by Product

MariaDB Products follow three different version numbering schemes. Each component reflects a category of changes (e.g., major.minor.maintenance).

Versioning scheme	Product
Primary: New Versions Secondary: Major releases Tertiary: Minor & Maintenance releases Quaternary: Sequence number	MariaDB Enterprise Server 12
Primary: New Versions Secondary: Major releases Tertiary: Minor & Maintenance releases	MariaDB ColumnStore MariaDB MaxScale
Primary: Major releases Secondary: Minor releases Tertiary: Maintenance releases	MariaDB Connector/J MariaDB Connector/Node.js MariaDB Connector/C MariaDB Connector/ODBC ClustrixDB 13

12. MariaDB Server plugins & engines can follow different version numbering schemes. Each component reflects a category of changes (e.g., major.minor.maintenance).

13. ClustrixDB uses its own installation script to handle upgrades. See [Clustrix Support policies](#) for information on support for older releases. In rare circumstances, upgrades to ClustrixDB may not be compatible with previous releases. These will be described in the Upgrade Alerts section of the Release notes for that release.

Meaning of Versions

- New versions and major releases are primarily for new features, but may also contain both bug and security fixes.
- Minor and maintenance releases typically provide only bug fixes and security issues.

The numbering does not indicate the maturity of a release (i.e., Alpha, Beta, Release Candidate or General Availability). Instead, it's indicated in the release notes next to the version number (e.g., MariaDB Server 10.2.5 Release Candidate). Note that once a major version of a product reaches Release Candidate status no features are added and all minor releases from that point onwards become maintenance releases and are aimed at fixing bugs and issues unless explicitly expressed otherwise (see MariaDB Enterprise Server).

Plugin & Storage Engine Maturity

This Maturity Policy is designed to help recognize what the maturity levels of the plugins and engines mean and what is required for each maturity level. In addition, it describes how this affects version numbering and the process and conditions for changing the maturity level.

Experimental

The new plugin or storage engine is under development and getting features added regularly at a fast pace and little maintenance. New major versions for an existing plugin will always enter in maturity Experimental unless the MariaDB Corporation Server Steering Committee would decide otherwise, based on a well established QA effort on the plugin.

Beta

The plugin or storage engine is entering a cycle where no new major features are added even if some more minor features and changes are created. It may have open known critical bugs but no blocker bugs. There also does not need to be a complete user experience with documentation yet.

Gamma

The plugin or storage engine is entering a maintenance cycle where no new features are actively added. It can still have a limited number of open bugs if they have a documented workaround. There also does not need to be a complete user experience with documentation yet.

Stable

The plugin or storage engine is now ready for production usage. It also has well-defined user experience and documentation. It can be loaded by default in MariaDB Enterprise.

Between each minor release of the server (e.g., 10.4.9 to 10.4.10), a plugin or storage engine can move up only one level in maturity. Also, a plugin or an engine have their own maturity and can:

- only be of GA maturity in MariaDB Enterprise Server,
- only be of the same or one less maturity in a GA version of MariaDB Community,
- be of any maturity for a MariaDB Server development release.

To see more details on all the MariaDB Server plugin maturity [here](#).

For every released version, the release notes and changelogs will be updated accordingly.

Versions no longer supported

MariaDB Enterprise Server

Version	Stable (GA) Date	End of Life Date
10.1	17 October 2015	17 October 2020

MariaDB ColumnStore

Version	Stable (GA) Date	End of Life Date
1.0	14 December 2016	17 October 2020
1.1	21 November 2017	??

MariaDB MaxScale

Version	Stable (GA) Date	End of Life Date
2.2	February 2018	01 January 2020

ClustrixDB

Version	Stable (GA) Date	End of Life Date
8.0	March 2017	March 2019
9.0	December 2017	December 2019
9.1	March 2018	March 2020

MariaDB Connector/J

Version	Stable (GA) Date	End of Life Date
2.2	November 2017	EOL since 2.3 is 100% compatible
2.3	September 2018	EOL since 2.4 is 100% compatible
2.4	January 2019	EOL since 2.5 is 100% compatible
2.5	November 2019	EOL since 2.6 is 100% compatible
2.6	March 2019	EOL since 2.7 is 100% compatible

MariaDB Connector/ODBC

Version	Stable (GA) Date	End of Life Date
3.0	October 2017	EOL since 3.1 is 100% compatible

MariaDB Connector/C

Version	Stable (GA) Date	End of Life Date
3.0	July 2016	EOL since 3.1 is 100% compatible

MariaDB Connector/Node.js

Version	Stable (GA) Date	End of Life Date
2.0	January 2019	EOL since 2.1 is 100% compatible
2.1	July 2019	EOL since 2.2 is 100% compatible
2.2	February 2020	EOL since 2.3 is 100% compatible
2.3	March 2020	EOL since 2.4 is 100% compatible
2.4	May 2020	EOL since 2.5 is 100% compatible

MariaDB Connector/Python

Version	Stable (GA) Date	End of Life Date
1.0	June 2020	May 2025, or EOL Node.js 10.x, or when a newer, 100% compatible major version exists

Release Schedule

In general, there is no fixed release schedule for new releases, neither for new major versions nor for maintenance releases. The exception to this is MariaDB Enterprise Server that has a fixed release schedule for maintenance releases that is documented on the mariadb.com website. In general, MariaDB Enterprise Server will have a new maintenance release once per quarter. However, all products have a specified lifespan for each major version. MariaDB Engineering maintains major versions of MariaDB products for a certain number of years from the date of the **first GA** release until the major version's **End Of Life (EOL) date**.

- Between those two dates, bugs and security issues that have been reported are fixed and released in regular point releases.
- After the End of Life date, those major version won't get any bug or security fixes anymore.

Below is a list of the maintenance duration for each current product:

Product	Maintenance Duration for Major Releases
MariaDB Enterprise Server	For 10.2 and 10.3 <ul style="list-style-type: none"> • Maintained up to the current EOL date for MariaDB Community Server From 10.4+ <ul style="list-style-type: none"> • Maintained for 3 years
MariaDB ColumnStore	Maintained for 5 years
MariaDB MaxScale	Maintained until the major release specific EOL date
MariaDB Connector/J	The two latest major versions are maintained, if not explicitly deemed EOL because of low demand. EOL for a connector also depends on the EOL date of the "extended Support" of the Java version supported by it
MariaDB Connector/Node.js	The latest major version is maintained. EOL for a connector also depends on the EOL date of the Node.js version supported by it
MariaDB Connector/Python	The latest major version is maintained. EOL for a connector also depends on the EOL date of the python version supported by it
MariaDB Connector/C	The two latest major versions are maintained, if not explicitly deemed EOL because of low demand, or the next version is completely backwards compatible
MariaDB Connector/ODBC	The two latest major versions are maintained, if not explicitly deemed EOL because of low demand, or the next version is completely backwards compatible
ClustrixDB	A release is maintained until it is superseded by two major releases, up to two years

Backward Compatibility

All changes done on major releases (“minor” in case of the connectors and ClustrixDB) will be backwards compatible with concerning the maintenance window. MariaDB Corporation retains the option to break backwards compatibility on major releases when it is deemed necessary to improve the product, or if it is required to address a security bug. This will be announced well in advance to the community and our customers and partners.

7.2 Release Criteria

The MariaDB Engineering teams can only promise to cover bugs in MariaDB Corporation products. The MariaDB development release policy has the following project commitments for the maturity stages:

Commitment for All Releases

- All MariaDB releases should be free from known critical bugs.
- If we make a release with a known critical bug –for example, there may be a serious bug we want to fix at once and distribute the fix while we are fixing other less critical bugs – they will be documented in the release notes.
- In the rare case in which there is a fatal bug that can't be fixed in a specific release – either because it's a design bug or the bug fix is likely to cause other, possibly worse bugs – we will document it in the KNOWN_BUGS.txt file that is included in the MariaDB product distribution. However, we will try to keep these kinds of open bugs to a minimum.

Commitment for Gamma/RC Releases

- No known serious bugs.
- We believe the code is ready for general use based on bug inflow, but we want to do more testing before declaring it stable.

Commitment for Stable/GA Releases

- No known serious bugs.
- No bugs fixed since the last release that caused any notable code changes.
- We believe the code is ready for general use based on bug inflow.
- For MariaDB Enterprise Server we reserve the right to backport new features to older major versions of the server once the new features reach GA maturity level. This will be done on a case by case basis and only features that have limited impact on the code as a whole.

7.3 Security Bug Fixing Policy

MariaDB Engineering classifies all security bugs according to their threat level. The threat level can be one of two possibilities:

- **Critical bugs** contain an exploitable vulnerability that causes arbitrary code execution or allows an unauthenticated user to crash the server or gain access to data. These are typically referred to as a CVE; and
- **Medium bugs** are all bugs that are not classified at the red level.

We will strive to fix:

- Any **Critical security bug**, immediately in a new maintenance release. We will work on it until it's fixed, and release fixed (i.e., not vulnerable) MariaDB binaries, as soon as possible – usually the next day.
- **Medium security bugs**, as soon as possible. However, we will not change our planned release schedule to distribute the fix earlier.

7.4 Engineering Policy Changes

Updated in version 4.02 of this policy:

- Policy updates:
 - ClustrixDB name replaced with Xpand
- New product:
- Existing product version updates:
 - MariaDB Community Server 10.1 is now EOL
 - MariaDB ColumnStore 1.0 is now EOL and 5.4 is GA
 - MariaDB Connector/NodeJS 2.4 is now EOL and 2.5 is GA
 - MariaDB Connector/J 2.6 is now EOL and 2.7 is GA
- Operating System Support:
 - Debian 8 is not supported anymore on any version of MariaDB ColumnStore, MariaDB Connector/C
 - Ubuntu 20.04 is now supported on MariaDB ColumnStore 5
 - RHEL & CentOS 6 is not supported anymore on any version MariaDB ColumnStore, MariaDB MaxScale
- Other:
 - New PDF format