

# 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 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 <sup>1</sup>	23 May 2017	23 May 2022	23 May 2022
10.3 <sup>1</sup>	25 May 2018	25 May 2023	25 May 2023
10.4 <sup>1</sup>	02 July 2019	02 July 2022	02 July 2024
10.5 <sup>1</sup>	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 <sup>2</sup>	7.x	x86_64	OK	OK	OK	OK
Red Hat Enterprise Linux & CentOS <sup>2</sup>	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 <sup>3</sup>		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.*

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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.

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## 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	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 5.4 5	Version 5.5 5
Red Hat Enterprise Linux & CentOS 4	7.x	x86_64	OK	OK
Red Hat Enterprise Linux & CentOS 4	8.x	x86_64	OK	OK
Ubuntu	16.04	x86_64	OK	OK
Ubuntu	18.04	x86_64	OK	OK
Ubuntu	20.04	x86_64	OK	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

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

5. MariaDB Enterprise ColumnStore 5.4 and 5.5 are only on MariaDB Enterprise Server 10.5.

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### 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 <a href="#">6</a>	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

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

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## 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

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

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## 5 MariaDB Xpand

### Supported versions

Version	Stable (GA) Date	End of Life Date
ClustrixDB 9.2	October 2019	October 2021 or until two major releases exist
5.3	December 2020	December 2022 or until two major releases exist

### Supported Operating Systems

OS	OS Version	Arch	ClustrixDB 9.2	5.3
CentOS	7.x	x86_64	OK	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 <sup>8</sup>	Version 1.8	Version 2.x
Java 7	July 2022	OK	
Java 8	March 2025		OK
Java 11	September 2026		OK

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<sup>8</sup> EOL date based on the Oracle Java SE Support Roadmap - "extended Support".

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## 6.2 MariaDB Connector/R2DBC

### Supported versions

Version	Stable (GA) Date	End of Life Date
1.0	January 2020	January 2025, or EOL Java 8, or when a newer, 100% compatible major version exists

### Java Supported Versions

Java Version	Jave EOL <sup>9</sup>	Version 1.0
Java 8	March 2025	OK
Java 11	September 2026	OK

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

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## 6.3 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	OS Version	Arch.	Version 3.1
Red Hat Enterprise Linux & CentOS <i>10</i>	7.x	x86_64	OK
Red Hat Enterprise Linux & CentOS <i>10</i>	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
Windows <i>11</i>		x86_64	OK
macOS		x86_64	OK

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

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

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## 6.4 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 <sup>12</sup>	7.x	x86_64		OK
Red Hat Enterprise Linux & CentOS <sup>12</sup>	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	
Windows <sup>13</sup>		x86_64	OK	OK

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<sup>12</sup>. CentOS packages are built based on Red Hat Enterprise Linux.

<sup>13</sup>. Until the product reaches the Mainstream Support End Date.

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## 6.5 MariaDB Connector/C++

### Supported versions

Version	Stable (GA) Date	End of Life Date
1.0	February 2021	February 2026, or when a newer, 100% compatible major version exists

### Supported Operating Systems

OS	OS Version	Arch.	Version 1.0
Red Hat Enterprise Linux & CentOS <sup>14</sup>	7.x	x86_64	OK
Red Hat Enterprise Linux & CentOS <sup>14</sup>	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
Windows <sup>15</sup>		x86_64	OK

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<sup>14</sup>. CentOS packages are built based on Red Hat Enterprise Linux.

<sup>15</sup>. Until the product reaches the Mainstream Support End Date.

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## 6.6 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

## 6.7 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

MariaDB Products follow the following versioning scheme.

Product	Versioning scheme
MariaDB Enterprise Server <sup>16</sup>	Primary: Compatibility Version
MariaDB ColumnStore	Secondary: Release Series
MariaDB MaxScale	Tertiary: Maintenance release number
Xpand(ClustrixDB) <sup>17</sup>	Quaternary: Sequence number (where applicable)
MariaDB Connector/J	
MariaDB Connector/R2DBC	
MariaDB Connector/Node.js	
MariaDB Connector/C	
MariaDB Connector/C++	
MariaDB Connector/ODBC	

<sup>16</sup>. MariaDB Server plugins & engines can follow different version numbering schemes. Each component reflects a category of changes (e.g., major.minor.maintenance).

<sup>17</sup>. Xpand(ClustrixDB) uses its own installation script to handle upgrades. See [Xpand Support policies](#) for legacy information on support for older releases. In rare circumstances, upgrades to Xpand(ClustrixDB) may not be compatible with previous releases. These will be described in the Upgrade Alerts section of the Release notes for that release.

- A Release Series (e.g., 10.5 or 10.4 for MariaDB ES) is a version supported with an EOL and an EOS date.
- Fixes to issues in a Release Series are provided by new Maintenance Releases
- New features are added in a new Release Series
- Backward compatibility is not guaranteed between Compatibility Versions (API compatibility for connectors)
- Maintenance Releases typically provide only bug fixes and mitigate security issues

The numbering does not indicate the maturity of a release (i.e. Alpha, Beta, Release Candidate or General Availability). Instead, maturity is indicated in the release notes next to the version number (e.g., MariaDB Server 10.2.5 Release Candidate). Note that a Release Series is not supported until GA maturity level is reached.

## 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.



## Maintenance Duration

MariaDB Enterprise Server 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 Release Series. MariaDB Engineering maintains the Release Series of MariaDB products for a certain number of years from the date of the first GA release until the Release Series' End Of Life (EOL) date. After the End of Support (EOS) date only security fixes will be provided.

For each Release Series of a product:

- Between the first GA release and the EOS date, bugs and security issues that have been reported are fixed and released in maintenance releases.
- Between the EOS date and the EOL date security fixes will be provided in maintenance releases
- After the End of Life date no engineering support is provided

## Versions no longer supported

### MariaDB Community Server

Version	Stable (GA) Date	End of Life Date
5.5	11 April 2012	11 April 2020
10.0	31 March 2014	31 March 2019
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	16 November 2020

### 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	September 7, 2018
2.3	September 2018	January 29, 2019
2.4	January 2019	November 22, 2019
2.5	November 2019	March 20, 2020
2.6	March 2019	September 25, 2020

### MariaDB Connector/ODBC

Version	Stable (GA) Date	End of Life Date
3.0	October 2017	May 9, 2019

#### MariaDB Connector/C

Version	Stable (GA) Date	End of Life Date
3.0	July 2016	June 19, 2019

#### MariaDB Connector/Node.js

Version	Stable (GA) Date	End of Life Date
2.0	January 2019	July 12, 2019
2.1	July 2019	February 4, 2020
2.2	February 2020	March 20, 2020
2.3	March 2020	May 26, 2020
2.4	May 2020	October 19, 2020

#### 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

## Backward Compatibility

All changes done on major releases ("minor" in case of the connectors and Xpand(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 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.

## 7.3 Engineering Policy Changes

Updated in version 4.05 of this policy:

- Policy updates
  - The Versioning Scheme section has been rewritten.
- New products
  - MariaDB Connector/C++ 1.0 is GA
- Existing product version updates:
  - MariaDB ColumnStore 5.4 and 5.5 are now available
  - MariaDB Connector/ODBC 3.1 is now supporting RHEL & CentOS 7 & 8, Ubuntu 16.04, 18.04 and 20.04, Debian 9 & 10, SLES 12 & 15