endoflife.date

recommendations

How to document support lifecycles effectively.

whoami

Nemo
@captn3m0

Programmer/Geek/UX Enthusiast. Button Masher @Razorpay. @recursecenter alum
#TeaOps

Doesn't have Aadhaar.

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📅 Joined February 2009

endoflife-date / **endoflife.date**

Keep track of various End of Life dates and support lifecycles for various products. Visit https://endoflife.date for a list of supported products. This information is very often hard to track or badly presented. This project collates this data and presents it in an easily accessible format, with URLs that are easy to guess and remember.

If you maintain release information (end-of-life dates, or support information) for a product, we have a set of recommendations along with a checklist on some best practices for publishing this information.

Currently tracking 89+ products.

MIT license

875 stars

Contributors 170
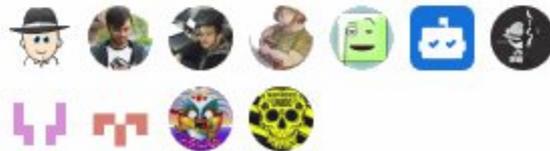
Sponsor this project

endoflife-date endoflife.date

opencollective.com/endoflife-date

angular

Release	Released	Active Support	Security Support	Latest
14 (Upcoming LTS)	6 days ago (02 Jun 2022)	Ends in 5 months and 3 weeks (02 Dec 2022)	Ends in 5 months and 3 weeks (02 Dec 2022)	14.0.0
13 (LTS)	7 months ago (03 Nov 2021)	Ended 1 month and 5 days ago (04 May 2022)	Ends in 11 months (04 May 2023)	13.3.11
12 (LTS)	1 year ago (13 May 2021)	Ended 6 months and 4 weeks ago (12 Nov 2021)	Ends in 5 months (12 Nov 2022)	12.2.16
11 (LTS)	1 year and 6 months ago (11 Nov 2020)	Ended 1 year ago (11 May 2021)	Ended 4 weeks ago (11 May 2022)	11.2.14
10 (LTS)	1 year and 11 months ago (24 Jun 2020)	Ended 1 year and 5 months ago (24 Dec 2020)	Ended 5 months and 2 weeks ago (24 Dec 2021)	10.2.5
9 (LTS)	2 years and 4 months ago (06 Feb 2020)	Ended 1 year and 10 months ago (06 Aug 2020)	Ended 10 months ago (06 Aug 2021)	9.1.13

Angular is a TypeScript-based free and open-source web application framework led from Google that was designed as a ground-up rewrite of AngularJS.

All major releases are typically supported for 18 months. This includes 6 months of active support (updates and patches), and 12 months of LTS support (critical fixes and security patches). Only newly identified security vulnerabilities and regression fixes are considered for LTS versions.

Angular follows semantic versioning. Major releases happen roughly every 6 months, with 1-3 minor releases for every major release. There is an update guide available.

laravel

Release	Released	Active Support	Security Support	Latest
9	3 months and 3 weeks ago (08 Feb 2022)	Ends in 1 year and 2 months (08 Aug 2023)	Ends in 1 year and 8 months (08 Feb 2024)	9.15.0
8	1 year and 8 months ago (08 Sep 2020)	Ends in 1 month and 3 weeks (26 Jul 2022)	Ends in 7 months and 3 weeks (24 Jan 2023)	8.83.15
7	2 years and 3 months ago (03 Mar 2020)	Ended 1 year and 7 months ago (06 Oct 2020)	Ended 1 year and 3 months ago (03 Mar 2021)	7.30.6
6 (LTS)	2 years and 9 months ago (03 Sep 2019)	Ended 4 months ago (25 Jan 2022)	Ends in 3 months (06 Sep 2022)	6.20.44
5.8	3 years ago (26 Feb 2019)	Ended 2 years and 9 months ago (26 Aug 2019)	Ended 2 years and 3 months ago (26 Feb 2020)	5.8.38
5.5 (LTS)	4 years and 9 months ago (30 Aug 2017)	Ended 2 years and 9 months ago (30 Aug 2019)	Ended 1 year and 9 months ago (30 Aug 2020)	5.5.50

Laravel is a free, open-source PHP web framework, created by Taylor Otwell and intended for the development of web applications following the model–view–controller (MVC) architectural pattern and based on Symfony.

For LTS releases, such as Laravel 5.5 and 6.0, bug fixes are provided for 2 years and security fixes are provided for 3 years. These releases provide the longest window of support and maintenance. For general releases, bug fixes are provided for 6 months and security fixes are provided for 1 year. For all additional libraries, including Lumen, only the latest release receives bug fixes.

The Gold Standard

Currently Supported Versions

Branch	Initial Release		Active Support Until		Security Support Until	
7.4	28 Nov 2019	2 years, 6 months ago	28 Nov 2021	6 months ago	28 Nov 2022	in 5 months
8.0	26 Nov 2020	1 year, 6 months ago	26 Nov 2022	in 5 months	26 Nov 2023	in 1 year, 5 months
8.1	25 Nov 2021	6 months ago	25 Nov 2023	in 1 year, 5 months	25 Nov 2024	in 2 years, 5 months

Or, visualised as a calendar:

Today: 9 Jun 2022

Goes out to far future

Good use of colors

Key

Clear explanation of what each phase means

Active support	A release that is being actively supported. Reported bugs and security issues are fixed and regular point releases are made.
Security fixes only	A release that is supported for critical security issues only. Releases are only made on an as-needed basis.
End of life	A release that is no longer supported. Users of this release should upgrade as soon as possible, as they may be exposed to unpatched security vulnerabilities.

php

kubernetes   endoflife.date/k8s

Support Period

In accordance with the yearly support KEP, the Kubernetes Community will support roughly fourteen (14) months.

The first twelve months of this timeframe will be considered the standard period.

Towards the end of the twelve month, the following will happen:

- Release Managers will cut a release
- The patch release series will enter maintenance mode

During the two-month maintenance mode period, Release Managers may cut additi

- CVEs (under the advisement of the Security Response Committee)
- dependency issues (including base image updates)
- critical core component issues

At the end of the two-month maintenance mode period, the patch release series wil picks to the associated branch are to be closed soon afterwards.

Note that the 28th of the month was chosen for maintenance mode and EOL target

Release	Released	Active Support	Maintenance Support	Latest
1.24	1 month and 6 days ago (03 May 2022)	Ends in 1 year and 3 months (29 Sep 2023)	Ends in 1 year and 3 months (29 Sep 2023)	1.24.1
1.23	6 months ago (07 Dec 2021)	Ends in 6 months and 3 weeks (28 Dec 2022)	Ends in 8 months (28 Feb 2023)	1.23.7
1.22	10 months ago (04 Aug 2021)	Ends in 2 months and 3 weeks (28 Aug 2022)	Ends in 4 months and 3 weeks (28 Oct 2022)	1.22.10
1.21	1 year and 2 months ago (08 Apr 2021)	Ended 1 month and 1 week ago (28 Apr 2022)	Ends in 2 weeks and 6 days (28 Jun 2022)	1.21.13

Kubernetes is an open-source container-orchestration system for automating computer application deployment, scaling, and management.

Kubernetes follows an N-2 support policy (meaning that the 3 most recent minor versions receive security and bug fixes) along with a 15-week release cycle. This results in a release being supported for 14 months (12 months of support and 2 months of upgrade period) starting from v1.19. (Prior releases received approximately 9 months of patch support).

Applicable fixes, including security fixes, may be backported to those three release branches, depending on severity and feasibility. Patch releases are cut from those branches at a regular cadence, plus additional urgent releases, when required. The Release Managers group owns this decision. For more information, see the patch release page, which also lists expected release dates for future releases, along with exact EoL dates for all active branches.

Since Kubernetes has a client-server architecture, there is a supported version skew between the client/server, which also determines the supported component upgrade order.

Understanding Expectations

Questions your release page is asked

Updates

Is there a new releases available? When is the next one due?

Support

Am I running a supported release? What does support mean?

Compatibility

What changes were made in release X. Will something break?

Lifecycle

How long will release X get bug fixes or security fixes?

Release Distinction

Should I be running a LTS release? What's the difference?

Policy

How are new releases versioned?

Recommendations

Empathy

Be Helpful.

In One Place

Stick to one page, one website.

Publishing

GOOD

example.com/docs/eol
example.com/release-policy
angular.io/guide/releases
php.net/supported-versions.php

BAD

wiki.ubuntu.com/ReleaseCadence
ubuntu.com/about/release-cycle
wiki.ubuntu.com/Releases

example.com/docs/v3.4/eol (?)
devguide.python.org

Document the lifecycle

Tell what's supported and for how long

Release Cadence

How often are you making new releases?

Release Cadence

GOOD

- Ubuntu
- Every month
- Every Christmas (Ruby)
- Every 29th February
- Maybe once every 2 weeks, but not guaranteed.
- Whenever needed.
- No release cadence.

BAD

Saying nothing.

What does Support mean?

Different Meanings

- Priority security fixes.
- Critical bugfixes.
- Issues will be looked at
- Community Forum for support.

Conditions Applied*

- Only packages in the "main" repository.
- Only if you are a paying customer.
- Free for 3 machines.
- Only packages covered by our upstream LTS.
- As long as you're running a support Python version.

What is supported?

Provide a list of "supported releases".

elasticsearch

Elasticsearch	EOL date	Maintained until
7.14.x	2023-02-03	7.15.0
7.15.x	2023-03-22	7.16.0
7.16.x	2023-06-07	7.17.0
7.17.x	2023-08-01	9.0.0
8.0.x	2023-08-10	8.1.0
8.1.x	2023-09-08	8.2.0
8.2.x	2023-10-26	8.3.0

Dates

Be accurate, and exact.

How to document dates correctly

Absolute Dates

Don't make your users do the math every time.

Complete Dates

"2022 December" might mean upgrading on new year or not.

No Ambigous Dates

07-07-2021 is bad.

RFC3339 FTW!

Calendar Images

Good Release Calendar Images

- Clearly **labelled** X-axis (Years, Quarters)
- Well **sorted** releases.
- Mark the **current date**
- **(Interactive)** Show information on hover.
- Keep it updated!
- Accessible

# Django Release Cycle
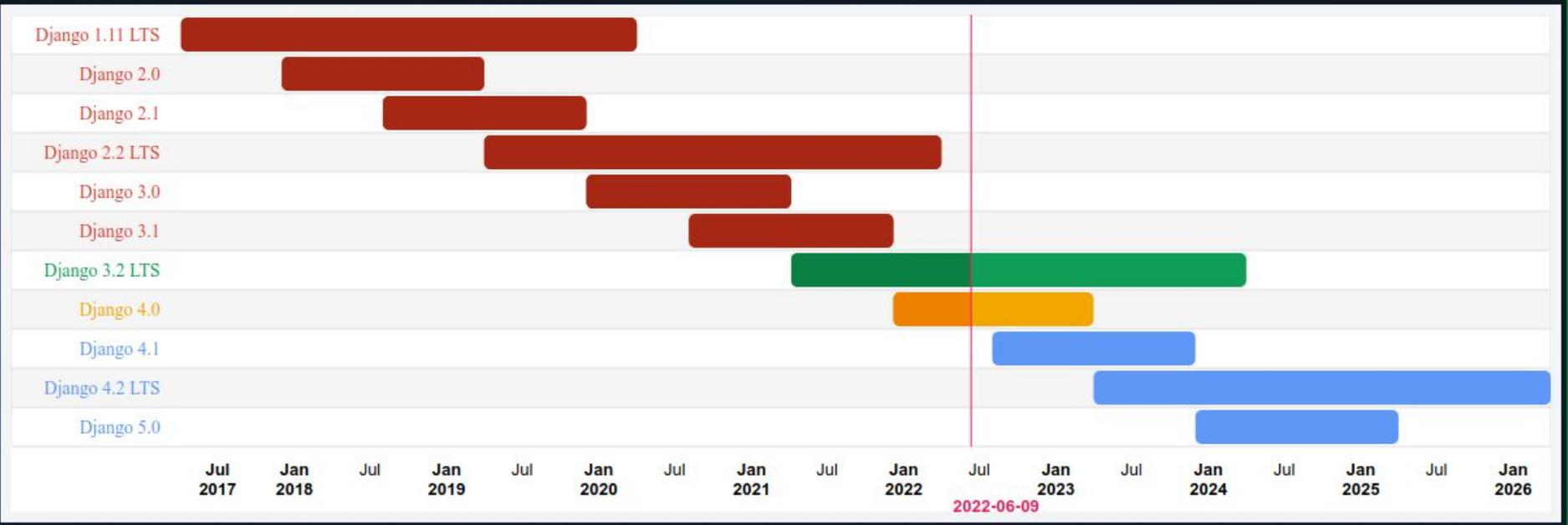
Made by: Jeff Triplett aka @webology
Remixed from: @di_codes's Python Release Cycle
Made with: https://developers.google.com/chart/interactive/docs/gallery/ganttchart
Data Source: https://www.djangoproject.com/download/

ubuntu

Ubuntu releases

Ubuntu releases timeline chart:

- **22.04 LTS (Jammy Jellyfish)** — Hardware and maintenance updates from 2022 to ~2027, Extended Security Maintenance (ESM) to 2032
- 21.10 (Impish Indri) — Interim release Standard Support ~2021–2022
- 21.04 (Hirsute Hippo) — Interim release Standard Support ~2021
- 20.10 (Groovy Gorilla) — Interim release Standard Support ~2020–2021
- **20.04 LTS (Focal Fossa)** — Hardware and maintenance updates from 2020 to ~2025, ESM to 2030
- **18.04 LTS (Bionic Beaver)** — Hardware and maintenance updates from 2018 to ~2023, ESM to 2028
- **16.04 LTS (Xenial Xerus)** — Hardware and maintenance updates from 2016 to ~2021, ESM to 2026
- **14.04 LTS (Trusty Tahr)** — Hardware and maintenance updates from 2014 to ~2019, ESM to 2024

Timeline axis: 2014 2016 2018 2020 2022 2024 2026 2028 2030 2032

Legend:
- Hardware and maintenance updates
- Interim release Standard Support
- Extended Security Maintenance (ESM)
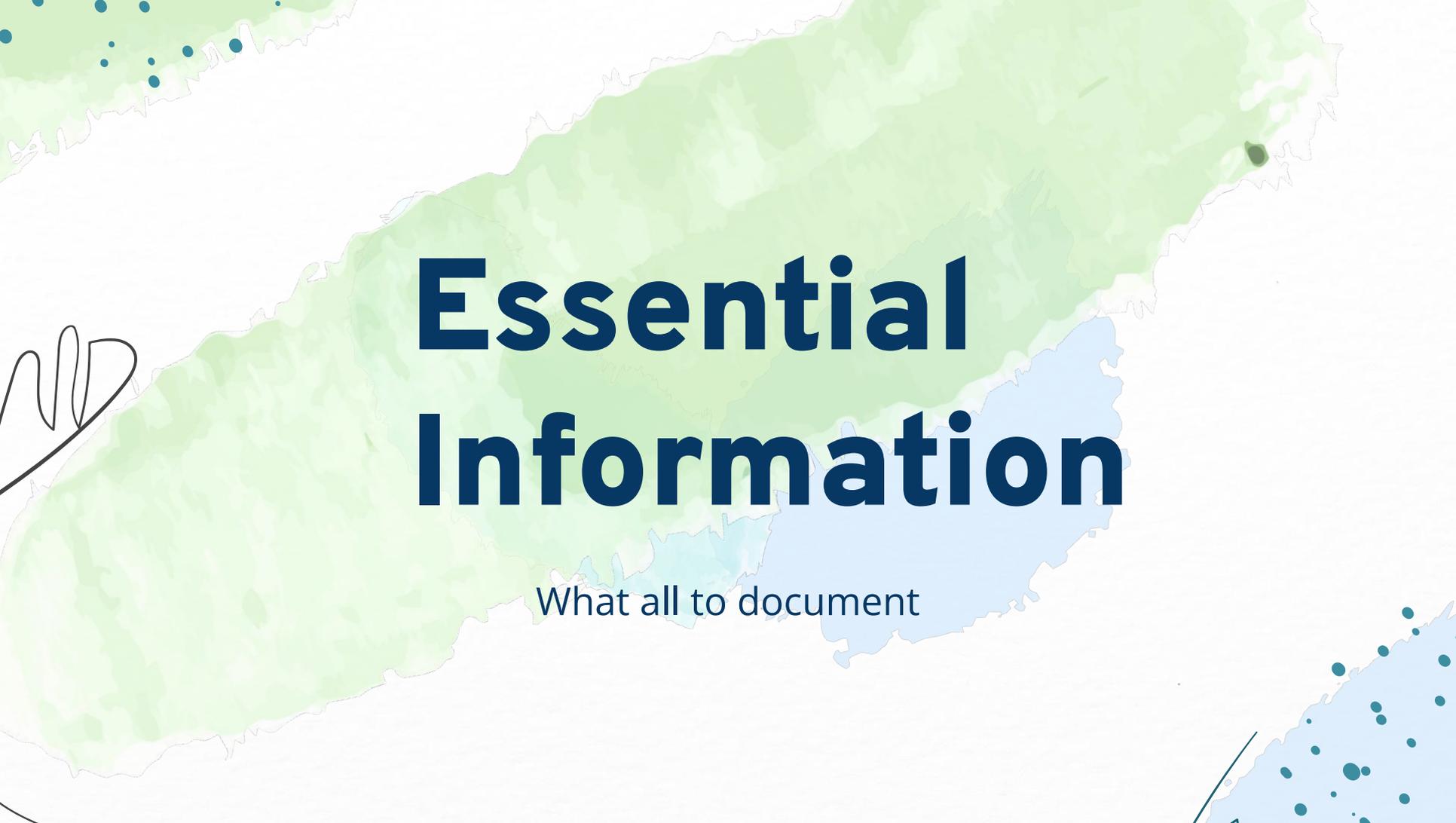
Essential Information

What all to document

What all to list for every release cycle

Changelog

A link to the changelog for the latest release, not just the first one.

Latest

What's the latest release in this cycle (and is it supported)?

Dates

Release, Latest Release Date, LTS Date, Support, EOL

Download/Upgrade Links

How do I get this release?

Migration Guide

Helpful for complicated upgrades.

~~Unsupported Releases~~

Don't list these alongside supported ones.

Showcase

Node.js
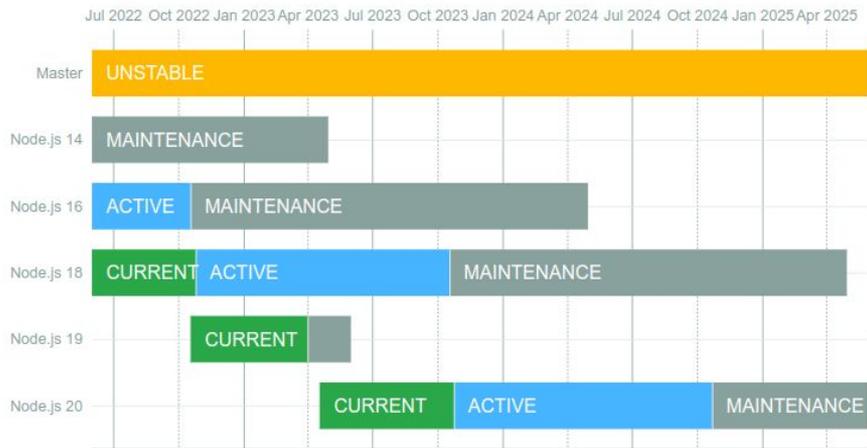
RELEASE	STATUS	CODENAME	INITIAL RELEASE	ACTIVE LTS START	MAINTENANCE LTS START	END-OF-LIFE
v14	Maintenance LTS	Fermium	2020-04-21	2020-10-27	2021-10-19	2023-04-30
v16	Active LTS	Gallium	2021-04-20	2021-10-26	2022-10-18	2024-04-30
v18	Current		2022-04-19	2022-10-25	2023-10-18	2025-04-30
v19	Pending		2022-10-18		2023-04-01	2023-06-01
v20	Pending		2023-04-18	2023-10-24	2024-10-22	2026-04-30

- Changelog
- Latest Release
- Dates
- Download
- Migration
- Unsupported Releases
- Today's Date

BONUS

- Future releases
- Calendar

kubernetes

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- Changelog
- Latest Release
- Dates
- Download
- Migration
- Unsupported Releases

Python

- Changelog
- Latest Release
- Dates
- Download
- Migration
- Unsupported Releases

Active Python Releases

For more information visit the Python Developer's Guide.

Python version	Maintenance status	First released	End of support
3.10	bugfix	2021-10-04	2026-10
3.9	security	2020-10-05	2025-10
3.8	security	2019-10-14	2024-10
3.7	security	2018-06-27	2023-06-27
2.7	end-of-life	2010-07-03	2020-01-01

Azure Kubernetes Service

K8s version	Upstream release	AKS preview	AKS GA	End of life
1.20	Dec-08-20	Jan 2021	Mar 2021	1.23 GA
1.21	Apr-08-21	May 2021	Jul 2021	1.24 GA
1.22	Aug-04-21	Sept 2021	Dec 2021	1.25 GA
1.23	Dec 2021	Jan 2022	Apr 2022	1.26 GA
1.24	Apr-22-22	May 2022	Jul 2022	1.27 GA
1.25	Aug 2022	Sept 2022	Nov 2022	1.28 GA

- Changelog
- Latest Release
- Dates
- Release Notes
- Unsupported Releases

Amazon EKS

Kubernetes version	Upstream release	Amazon EKS release	Amazon EKS end of support
1.17	December 9, 2019	July 10, 2020	November 2, 2021
1.18	March 23, 2020	October 13, 2020	March 31, 2022
1.19	August 26, 2020	February 16, 2021	June 30, 2022
1.20	December 8, 2020	May 18, 2021	September 2022
1.21	April 8, 2021	July 19, 2021	February 2023
1.22	August 4, 2021	April 4, 2022	May 2023
1.23	December 7, 2021	August 2022	October 2023

- Changelog
- Latest Release
- Dates
- Release Notes
- Unsupported Releases

haproxy

Branch	Release date	End of life	Latest version	Changelog	Links
2.7-dev	~2022-Q4	2024-Q1 (dev » stable)	2.7-dev0	2022/05/31	git / web / dir / announce
2.6	2022-05-31	2027-Q2 (LTS)	2.6.0	2022/05/31	git / web / dir / announce / bugs
2.5	2021-11-23	2023-Q1 (stable)	2.5.7	2022/05/13	git / web / dir / announce / bugs
2.4	2021-05-14	**2026-Q2 (LTS)**	2.4.17	2022/05/13	git / web / dir / announce / bugs
2.2	2020-07-07	**2025-Q2 (LTS)**	2.2.24	2022/05/13	git / web / dir / announce / bugs
2.0	2019-06-16	**2024-Q2 (critical fixes only)**	2.0.29	2022/05/13	git / web / dir / announce / bugs
1.8	2017-11-26	**2022-Q4 (critical fixes only)**	1.8.30	2021/04/12	git / web / dir / announce / bugs
		Hide/Show unmaintained			

- Changelog
- Latest Release
  - Dates
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- Unsupported Releases

Be Helpful

🔗 endoflife.date/recommendations

Credits & Slides: captnemo.in/talks