

Apache vs. Nginx

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Apache



- Apache HTTP Server
- Originally based on the NCSA HTTPd Server
- Development of Apache began in early 1995
- Became the world's most used web server software
- Developed and maintained by an open source community

Features

- Supports features which extend the core functionality
- From server-side programming language support to authentication schemes
- Provides a variety of multi-processing modules including process model, worker model and event model.



TM

Version	Initial release	Latest release
1.3	1998-06-06 ^[46]	2010-02-03 (1.3.42) ^[47]
2.0	2002-04-06 ^[48]	2013-07-10 (2.0.65) ^[49]
2.2	2005-12-01 ^[50]	2017-01-13 (2.2.32) ^[51]
2.4	2012-02-21 ^[52]	2016-12-20 (2.4.25) ^[53]

■ Old version ■ Older version, still supported ■ Latest version

Nginx



- Nginx is another web server, which can also be used as a reverse proxy, load balancer and HTTP cache.
- A free and open source software
- Created in 2004, supported by Nginx Incorporated

Features

- Nginx has a variety of new features
- Server dynamic HTTP content
- Asynchronous event-driven approach

NGINX

Version	Original release date	Latest version	Release date	Status
0.5	2006-12-04	0.5.38	2009-09-14 ^[64]	Legacy
0.6	2007-06-14	0.6.39	2009-09-14 ^[65]	Legacy
0.7	2008-05-19	0.7.69	2011-07-19 ^[66]	Legacy
0.8	2009-06-02	0.8.55	2011-07-19 ^[67]	Legacy
1.0	2011-04-12	1.0.15	2012-04-12 ^[68]	Legacy
1.2	2012-04-23	1.2.9	2013-05-13 ^[69]	Legacy
1.4	2013-04-24	1.4.7	2014-03-18 ^[70]	Legacy
1.6	2014-04-24	1.6.3	2015-04-07 ^[71]	Legacy
1.8	2015-04-21	1.8.1	2016-01-26 ^[72]	Legacy
1.9	2015-04-28	1.9.15	2016-04-19 ^[73]	Legacy
1.10	2016-04-26	1.10.3	2017-01-31 ^[74]	Legacy
1.11	2016-05-24	1.11.8	2016-12-27 ^[75]	Mainline
1.12	2017-04-12	1.12.0	2017-04-12 ^[76]	Stable

Legend: Old version Older version, still supported Latest version Latest preview version

Request Processing Difference

- Nginx was written to outperform the Apache web server.
- In terms of event model, Apache creates one listener thread passes them to a worker thread for processing, while Nginx does not set up extra worker processes per connection in order to maximize the hardware's efficiency.

Performance Comparison

- Static content: Nginx serves static content much faster than Apache
- Dynamic content: performances of them are very similar
- Flexibility: Apache has had dynamic module loading for a long time. For Nginx, most modules do not yet support dynamic loading.
- Nginx is better to handle massive concurrent connections.



THANKS