

# Step 0: Requirements & System Configuration

## Platform as a Service (PaaS)

If you're using a PaaS provider such as our partner [Platform.sh](#), where we have an single-server setup, and in the future also clustered setup, you can [skip](#) this step.

## Server

eZ software is built to rely on existing technologies and standards. The minimal setup is PHP, MySQL/MariaDB, and Apache/Nginx. Recommendation for production setups is to use Varnish, and Memcached, NFS and Solr in a [clustered setup](#).

For supported versions of these technologies see Recommended and Supported setups below.

## Recommended setups

These setups are tested by QA and are generally recommended setups. For security and performance we furthermore recommend use of the newer versions of components below.

	Debian	Ubuntu	RHEL / CentOS
<b>Operating system</b>	8.x "Jessie"	<del>14.04LTS</del> ( <i>not supported as of v1.7</i> )  16.04LTS ( <i>supported as of v1.7</i> )	7.x
<b>Web Server</b>	Nginx 1.6 Apache 2.4 (prefork mode)	Nginx <del>1.10</del> 1.10 Apache 2.4 (prefork mode)	Nginx 1.8 (via RHSCl) Apache 2.4 (prefork mode)
<b>DBMS</b>	MariaDB 10.0 MySQL 5.5	MySQL 5.6 MariaDB <del>5.5</del> 10.0	MariaDB 10.0 (via RHSCl) MySQL 5.6 (via RHSCl) MariaDB 5.5
<b>PHP</b>	PHP 5.6 (via libapache2-mod-php5 for Apache)	<del>PHP 5.5</del> (14.04LTS, via libapache2-mod-php5 for Apache)  PHP 7.0 (16.04LTS)	PHP 5.6 (via RHSCl) <del>PHP 5.5</del> (EOL as of v1.7, via RHSCl)

## In this topic:

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<b>PHP packages</b>	<p>php5-cli  php5-fpm (for use with nginx)  php5-readline  php5-mysqlnd or php5-pgsql  php5-json  php5-xsl  php5-intl  php5-mcrypt  php5-curl  php5-gd  php5-imagick (optional)  php5-twig (optional, improves performance)  php5-memcached (recommended, improves performance)</p>	<table border="1"> <thead> <tr> <th data-bbox="617 128 727 226">14.04LTS</th> <th data-bbox="727 128 837 226">16.04LTS</th> </tr> </thead> <tbody> <tr> <td data-bbox="617 226 727 806"> <del>php5-cli</del>  <del>php5-fpm</del> (for use with nginx)  <del>php5-readline</del>  <del>php5-mysqlnd or php5-pgsql</del>  <del>php5-json</del>  <del>php5-xsl</del>  <del>php5-intl</del>  <del>php5-mcrypt</del>  <del>php5-curl</del>  <del>php5-gd</del>  <del>or php5-imagick</del>    <del>php5-memcached</del> (cluster/performance) </td> <td data-bbox="727 226 837 806"> php-cli  php-fpm (for use with nginx)  php-readline  php-mysql or php-pgsql  php-json  php-xml  php-mbstring  php-intl  php-pear (optional, provides <i>pecl</i>)  php-gd or php-imagick (via <i>pecl</i>)  php-memcached (recommended, via <i>pecl</i>)    php-redis (cluster, via <i>pecl</i>) </td> </tr> </tbody> </table>	14.04LTS	16.04LTS	<del>php5-cli</del> <del>php5-fpm</del> (for use with nginx) <del>php5-readline</del> <del>php5-mysqlnd or php5-pgsql</del> <del>php5-json</del> <del>php5-xsl</del> <del>php5-intl</del> <del>php5-mcrypt</del> <del>php5-curl</del> <del>php5-gd</del> <del>or php5-imagick</del>  <del>php5-memcached</del> (cluster/performance)	php-cli php-fpm (for use with nginx) php-readline php-mysql or php-pgsql php-json php-xml php-mbstring php-intl php-pear (optional, provides <i>pecl</i> ) php-gd or php-imagick (via <i>pecl</i> ) php-memcached (recommended, via <i>pecl</i> )  php-redis (cluster, via <i>pecl</i> )	<p>php-cli  php-fpm (for use with nginx)  php-mysqlnd or php-pgsql  php-xml  php-mbstring  php-process  php-intl  php-pear (optional, provides <i>pecl</i>)  php-gd or php-imagick (via <i>pecl</i>)  php-memcached (recommended, via <i>pecl</i>)</p>
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<b>Search</b>	<p>Solr (recommended, for better performance and scalability of all API Queries)</p> <ul style="list-style-type: none"> <li>▪ Solr 4.10 (not supported as of v1.8)</li> <li>▪ Solr 6.x (supported as of v1.8)</li> </ul> <p>Oracle Java/Open JDK: 7 or 8 (needed for Solr, version 8 recommended, and required as of v1.8)</p>						
<b>Graphic Handler</b>	GraphicsMagick or ImageMagick or GD						
<b>Clustering</b>	Linux NFS (for IO, aka binary files stored in content repository) Memcached (for Persistence cache & Sessions) Varnish (for HttpCache)						
<b>Filesystem</b>	Linux ext3 / ext4						
<b>Package manager</b>	Composer						

## Supported setups

**WORK IN PROGRESS FOR FUTURE RELEASE, SEE ABOVE FOR NOW**

Supported setups are those we perform automated testing on. For security and performance we recommend use of the newer versions of components below.

- OS: Linux
- Web Servers:
  - Apache 2.2, 2.4
  - Nginx 1.4, 1.6, 1.8. 1.10
- DBMS
  - MySQL 5.5, 5.6
  - MariaDB 5.5, 10.0
- PHP
  - 5.6
  - 7.0 (Note: *php* modules like *memcached* are not stable for PHP 7.x yet, so 7.x setup is limited to dev/single server; ETA for cluster support sometime after Ubuntu 16.04 is out.)
- PHP extensions/modules
  - curl
  - ctype
  - fileinfo

- iconv
- intl
- json
- mbstring
- opcache (*recommended over APC*)
- pdo
  - pdo mysql (*with mysqlnd*)
- posix
- readline
- reflection
- xml
- xsl
- zip

## Development & Experimental setups

eZ Platform, the foundation of all eZ software, can theoretically run and execute on many more setups than the ones listed as recommended and supported, including any [operating system supported by PHP](#), on a PHP 5.6 version or higher that pass the [Symfony requirements](#), using cache solutions technically supported by [Stash](#), using databases supported by [Doctrine DBAL](#), and using a binary file storage solution supported by [FlySystem](#).

Examples of Development setups:

- OS: Windows, Mac OS X
- Filesystem: NTFS, HFS+

Examples of Experimental setups:

- OS: Any system supported by PHP
- Persistence Cache: Redis
- Filesystem: BTRFS, AUFS, ...
- IO: S3, Azure, (S)FTP, GridFS, ...
- Databases: Postgres, MSSQL, Oracle (*As in technically supported by Doctrine DBAL which we use, but none supported by our installer at the moment, and Oracle and MSSQL is not covered by automated testing*)

**While all these options are not supported by eZ Systems**, they are community supported, meaning contributions and efforts made to improve support for these technologies are welcome and can contribute to the technology being supported by the eZ Systems team in the future.

## Client

eZ software is developed to work with *any* web browser that support modern standards, on *any* screen resolution suitable for web, running on *any* device. However for the Editorial and Administration User Interfaces you'll need; a minimum of 1024-by-768 screen resolution, a desktop or tablet device, and a recommended/supported browsers found below.

## Recommended browsers

These setups have been undergone some additional manual testing and is known to work.

- Mozilla® Firefox® most recent stable version (tested on Firefox 50)
- Google Chrome™ most recent stable version (tested on Chrome 55)
- Microsoft® Edge® most recent stable version (tested on Edge 38)

## Supported browsers

- Apple® Safari® most recent stable version, desktop *and* tablet
- Opera® most recent stable version, or higher, desktop *and* mobile

Please note that the user interface might not look or behave exactly the same across all browsers

as it will gracefully degrade if browser does not support certain features.