

# Requirements

eZ Publish 5.1 is built to rely on existing technologies and standards, mainly:

- PHP scripting language
- SQL database
- Java JRE when eZ Find search engine is used

To answer the question "Is my platform supported by eZ Publish?", several things must be taken into consideration. The following tables gives you the details of the platform requirements for the latest eZ Publish release.

## Reference platforms

The most safe and optimized stack for eZ Publish Platform. The stack is supported and certified for eZ Publish Platform 5.1. This means that our QA certification team has successfully run intensive certification tests on the platform, and that we can fully support the platform in the scope of an eZ Publish Subscription.

The reference stack for eZ Publish Platform 5.1 is based on Red Hat Enterprise Linux 6. The detail of the stack can be seen in the table below.

Stack	Single mode & Cluster mode
<b>OS</b>	<ul style="list-style-type: none"><li>• RedHat RHEL 6.x</li></ul>
<b>Web Server</b>	<ul style="list-style-type: none"><li>• Apache 2.2.15 (pre-fork mode) (rhel6 package)</li></ul>
<b>DBMS</b>	<ul style="list-style-type: none"><li>• MySQL 5.1.61 (rhel62 packages)</li></ul>
<b>PHP (mod_php) + PHP CLI</b>	<ul style="list-style-type: none"><li>• Official PHP 5.3.3 (rhel62 packages)</li><li>• Official PHP 5.4.x</li></ul>
<b>PHP + PHP CLI extensions</b>	<ul style="list-style-type: none"><li>• APC 3.1.9 (external pecl extension)</li><li>• bz2</li><li>• curl</li><li>• dom</li><li>• exif</li><li>• fileinfo</li><li>• ftp</li><li>• gd</li><li>• iconv</li><li>• json</li><li>• mbstring</li><li>• memcache (only needed for cluster mode)</li><li>• mysqli</li><li>• pcntl</li><li>• pcre</li><li>• pdo-mysql</li><li>• posix</li><li>• reflection</li><li>• simplexml</li><li>• spl</li><li>• ssl</li><li>• xmlreader</li><li>• zlib</li><li>• xml</li><li>• libxml</li><li>• xsl</li></ul>
<b>Graphic Handler</b>	<ul style="list-style-type: none"><li>• ImageMagick 6.5.4.7</li></ul>
<b>Other</b>	<ul style="list-style-type: none"><li>• OpenOffice 3.2.1-19</li><li>• Java JRE 1.6 or higher (Oracle-Sun/OpenJDK) when eZ Find search engine is used</li></ul>

<b>eZ Publish extensions</b>	<ul style="list-style-type: none"> <li>• eZ Online Editor LS 5.1.0</li> <li>• eZ Website Interface LS 5.1.0</li> <li>• eZ Flow LS 5.1.0</li> <li>• eZ Find LS 5.1.0</li> <li>• eZ Google Maps Location LS 5.1.0</li> <li>• eZ Star Rating LS 5.1.0</li> <li>• eZ Website Toolbar LS 5.1.0</li> <li>• eZ Openoffice.org LS 5.1.0</li> <li>• eZ MB Password Expiry LS 5.1.0</li> <li>• eZ Multiupload LS 5.1.0</li> <li>• eZ Survey LS 5.1.0</li> <li>• eZ Comments LS 5.1.0</li> <li>• eZ JSCore LS 5.1.0</li> <li>• eZ Script Monitor LS 5.1.0</li> <li>• eZ SI LS 5.1.0</li> <li>• eZ Style Editor LS 5.1.0</li> <li>• eZ XML Export LS 5.1.0</li> <li>• eZ Image Editor LS 5.1.0</li> <li>• eZ Network LS 5.1.0</li> <li>• eZ Form Token LS 5.1.0</li> <li>• eZ Content Staging LS 5.1.0</li> <li>• eZ Autosave LS 5.1.0</li> <li>• eZ REST API Provider LS 5.1.0</li> </ul>
<b>Cluster mode</b>	<ul style="list-style-type: none"> <li>• eZDFSFileHandler + Linux NFS</li> <li>• Persistence cache configured with Memcache</li> <li>• HTTP cache configured to use Varnish</li> </ul>
<b>File system</b>	<ul style="list-style-type: none"> <li>• Linux ext4</li> </ul>

## Supported non-reference stacks (approved)

These stacks are also tested, but not as extensively as our reference stacks. These stacks still benefit from the full support and maintenance guarantees provided with the eZ Publish Platform Subscription, but more issues might occur during normal operations, performance might be lower and issues take longer to resolve.

The supported non-reference stacks for eZ Publish Platform 5.1 are:

- SUSE Linux Enterprise Server 11 SP2(\*\*)
- Debian 6

The detail of the stacks can be seen in the table below.

	<b>Single Mode</b>	<b>Cluster Mode</b>
<b>Operating system</b>	<ul style="list-style-type: none"> <li>• Debian 6</li> <li>• SUSE Linux Enterprise Server (SLES) 11 SP2(**)</li> </ul>	<ul style="list-style-type: none"> <li>• Debian 6</li> <li>• SUSE Linux Enterprise Server (SLES) 11 SP2(**)</li> </ul>
<b>Web Server</b>	<ul style="list-style-type: none"> <li>• Apache 2.2.x (prefork mode)</li> </ul>	<ul style="list-style-type: none"> <li>• Apache 2.2.x (prefork mode)</li> </ul>
<b>DBMS</b>	<ul style="list-style-type: none"> <li>• MySQL 5.0.x or 5.1.x</li> <li>• PostgreSQL 8.4</li> </ul>	<ul style="list-style-type: none"> <li>• MySQL 5.0.x or 5.1.x</li> </ul>
<b>PHP (mod_php) + PHP CLI + apache</b>	<ul style="list-style-type: none"> <li>• PHP 5.3.x</li> <li>• PHP 5.4.x</li> </ul>	<ul style="list-style-type: none"> <li>• PHP 5.3.x</li> <li>• PHP 5.4.x</li> </ul>

<b>PHP</b>	<ul style="list-style-type: none"> <li>• APC 3.1.9 (external pecl extension)</li> <li>• bz2</li> <li>• curl</li> <li>• dom</li> <li>• exif</li> <li>• fileinfo</li> <li>• ftp</li> <li>• gd</li> <li>• iconv</li> <li>• json</li> <li>• mbstring</li> <li>• mysqli</li> <li>• oci8</li> <li>• pcntl</li> <li>• pcre</li> <li>• pdo-mysql</li> <li>• pdo-pgsql</li> <li>• pgsql</li> <li>• posix</li> <li>• reflection</li> <li>• simplexml</li> <li>• spl</li> <li>• ssl</li> <li>• xmlreader</li> <li>• zlib</li> <li>• xml</li> <li>• libxml</li> <li>• xsl</li> </ul>	<ul style="list-style-type: none"> <li>• APC 3.1.9 (external pecl extension)</li> <li>• bz2</li> <li>• curl</li> <li>• dom</li> <li>• exif</li> <li>• fileinfo</li> <li>• ftp</li> <li>• gd</li> <li>• iconv</li> <li>• json</li> <li>• mbstring</li> <li>• memcached</li> <li>• mysqli</li> <li>• oci8</li> <li>• pcntl</li> <li>• pcre</li> <li>• pdo-mysql</li> <li>• pdo-pgsql</li> <li>• pgsql</li> <li>• posix</li> <li>• reflection</li> <li>• simplexml</li> <li>• spl</li> <li>• ssl</li> <li>• xmlreader</li> <li>• zlib</li> <li>• xml</li> <li>• libxml</li> <li>• xsl</li> </ul>
<b>Graphic Handler</b>	<ul style="list-style-type: none"> <li>• ImageMagick &gt;= 6.4.x</li> <li>• GD2 ( PHP extension )</li> </ul>	<ul style="list-style-type: none"> <li>• ImageMagick &gt;= 6.4.x</li> <li>• GD2 ( PHP extension )</li> </ul>
<b>eZ Publish extensions</b>	<ul style="list-style-type: none"> <li>• eZ Online Editor LS 5.1.0</li> <li>• eZ Website Interface LS 5.1.0</li> <li>• eZ Flow LS 5.1.0</li> <li>• eZ Find LS 5.1.0</li> <li>• eZ Google Maps Location LS 5.1.0</li> <li>• eZ Star Rating LS 5.1.0</li> <li>• eZ Website Toolbar LS 5.1.0</li> <li>• eZ Openoffice.org LS 5.1.0</li> <li>• eZ MB Password Expiry LS 5.1.0</li> <li>• eZ Multiupload LS 5.1.0</li> <li>• eZ Survey LS 5.1.0</li> <li>• eZ Comments LS 5.1.0</li> <li>• eZ JSCore LS 5.1.0</li> <li>• eZ Script Monitor LS 5.1.0</li> <li>• eZ SI LS 5.1.0</li> <li>• eZ Style Editor LS 5.1.0</li> <li>• eZ XML Export LS 5.1.0</li> <li>• eZ Image Editor LS 5.1.0</li> <li>• eZ Network LS 5.1.0</li> <li>• eZ Form Token LS 5.1.0</li> <li>• eZ Content Staging LS 5.1.0</li> <li>• eZ Autosave LS 5.1.0</li> <li>• eZ REST API Provider LS 5.1.0</li> </ul>	<ul style="list-style-type: none"> <li>• eZ Online Editor LS 5.1.0</li> <li>• eZ Website Interface LS 5.1.0</li> <li>• eZ Flow LS 5.1.0</li> <li>• eZ Find LS 5.1.0</li> <li>• eZ Google Maps Location LS 5.1.0</li> <li>• eZ Star Rating LS 5.1.0</li> <li>• eZ Website Toolbar LS 5.1.0</li> <li>• eZ Openoffice.org LS 5.1.0</li> <li>• eZ MB Password Expiry LS 5.1.0</li> <li>• eZ Multiupload LS 5.1.0</li> <li>• eZ Survey LS 5.1.0</li> <li>• eZ Comments LS 5.1.0</li> <li>• eZ JSCore LS 5.1.0</li> <li>• eZ Script Monitor LS 5.1.0</li> <li>• eZ SI LS 5.1.0</li> <li>• eZ Style Editor LS 5.1.0</li> <li>• eZ XML Export LS 5.1.0</li> <li>• eZ Image Editor LS 5.1.0</li> <li>• eZ Network LS 5.1.0</li> <li>• eZ Form Token LS 5.1.0</li> <li>• eZ Content Staging LS 5.1.0</li> <li>• eZ Autosave LS 5.1.0</li> <li>• eZ REST API Provider LS 5.1.0</li> </ul>
<b>Cluster mode</b>		<ul style="list-style-type: none"> <li>• eZDFSFileHandler (mysqli) + Linux NFS</li> <li>• Persistence cache configured with Memcache[d]</li> <li>• HTTP cache configured to use Varnish</li> </ul>
<b>Filesystem</b>	<ul style="list-style-type: none"> <li>• Linux ext3 / ext4</li> </ul>	<ul style="list-style-type: none"> <li>• Linux ext3 / ext4</li> </ul>

\*\* Issues have been identified with the SLES 11 SP2 in regards of the PHP stack. eZ Systems can not provide a workaround and the only recommendation is to wait for a new service pack for SLES.

## Compatible platforms

eZ Publish can run and execute on many more platforms than the ones listed above, including (but not limited to) the following operating systems if they pass the [Symfony requirements](#):

- Solaris
- Opensolaris
- Windows 2000/XP/Vista/7/2008 (only on legacy stack or legacy mode)
- Mac OSX server

However, eZ Systems doesn't insure and guarantee quality operation of an eZ Publish Platform installation if it is running on any platform not listed as supported. eZ Publish Enterprise Subscriptions are still available for compatible platforms, but the guarantee and the product support will not apply and although you will receive various maintenance releases and services, no bug fix guarantee will apply to issues related to the platform. Maintenance and monitoring tools will not be available. eZ Systems does not advise merely compatible platforms for production use.

## Supported browsers

eZ Publish is developed to work properly and support the following browser configurations for administrator users:

- Firefox: Latest stable version. Tested on Firefox 16.
- Google Chrome: Latest stable version. Tested on Chrome 21"
- Internet Explorer: 8 & 9. Tested on IE 9
- Safari: 6. Tested on Safari 6.0 on Mac OSX 10.8

Please note that the interface will display and behave optimally in any browser that supports HTML 5.0, CSS 3.0 and ECMAScript 5. If these technologies are not supported the system will gracefully appear with simpler design/layout but will still be accessible through standard/default HTML elements.

## Known limitation on ImageMagick 6.5.4-7

Please be aware that if you have the `[URLTranslator]/TransformationGroup` legacy setting set to `urlalias_iri` in your `site.ini` (if you are running eZ Publish in legacy mode), then special character escaping with ImageMagick 6.5.4-7 may not work as expected.

This is caused by an ImageMagick limitation which fails on escaping the following special characters: `~*?[]{}<>`

If you are using this version of ImageMagick and `urlalias_iri` as `TransformationGroup`, please be sure to avoid using those characters in file names, or it will generate issues with eZ Publish.