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# TWiki System Requirements

## Server and client requirements

Low client and server base requirements are core features that keep TWiki widely deployable, particularly across a range of browser platforms and versions. Many Plugins and contrib modules exist which enhance and expand TWiki's capabilities; they may have additional requirements.

## Server Requirements

TWiki is written in Perl 5, uses a number of shell commands, and requires RCS (Revision Control System), a GNU Free Software package. TWiki is developed in a basic Linux/Apache environment. It also works with Microsoft Windows, and should have no problem on any other platform that meets the requirements.

Resource	Required Server Environment *
Perl	5.8.0 or higher (5.8.4 or higher is recommended)
RCS	5.7 or higher (including GNU diff) Optional, TWiki includes a pure perl implementation of RCS that can be used instead (although it's slower)
GNU diff	GNU diff 2.7 or higher is required when not using the all-Perl RcsLite. Install on PATH if not included with RCS (check version with diff -v) Must be the version used by RCS, to avoid problems with binary attachments - RCS may have hard-coded path to diff
GNU df	Used by the site statistics to record disk usage statistics, optional. The df command is pre-installed on Linux and OS-X. On Windows install the CoreUtils for Windows.
GNU patch	For upgrades only: GNU patch is required when using the TWiki:Codev.UpgradeTWiki script
GNU fgrep, egrep	Modify command line parameters in configure if you use non-GNU grep programs
zip	Zip archive command line utility. Used by the BackupRestorePlugin to create and restore from backups.
Cron/scheduler	<ul style="list-style-type: none"><li>• Unix: cron</li><li>• Windows: cron equivalents</li></ul>
Web server	Apache is well supported; see TWiki:TWiki.InstallingTWiki#OtherWebServers for other servers

## Required CPAN Modules

Most of the CPAN libraries listed below are part of a standard Perl installation so you most likely have them all!

See TWiki:TWiki.HowToInstallCpanModules for detailed information on how to install CPAN libraries

The following Perl CPAN modules are used by TWiki:

Module	Preferred version	Comment
Algorithm::Diff		Included in TWiki distribution
CGI	>=3.18	Versions 2.89 and 3.37 must be avoided. Most version from 3.15 and onwards should work.
CGI::Carp	>=1.26	
Config	>=0	

Cwd	>=3.05	
Data::Dumper	>=2.121	
Encode	>=2.1	
Error		Included in TWiki distribution
File::Copy	>=2.06	
File::Find	>=1.05	
File::Spec	>=3.05	
File::Temp	>=0.18	Included with perl 5.6 and later
FileHandle	>=2.01	
HTML::Parser	>=3.28	Needed by the WysiwygPlugin for WYSIWYG editing
HTML::Entities	>=1.25	Needed by the WysiwygPlugin for WYSIWYG editing
IO::File	>=1.10	
Net::SMTP	>=2.29	Used for sending mail
Text::Diff		Included in TWiki distribution
Time::Local	>=1.11	

## Optional CPAN Modules

The following Perl modules may be used by TWiki:

See [TWiki:TWiki.HowToInstallCpanModules](#) for detailed information on how to install CPAN libraries

Module	Preferred version	Description
Archive::Tar		May be required by the Extensions Installer in configure if command line tar or unzip is not available
Authen::SASL		Used for SMTP Authentication
CGI::Cookie	>=1.24	Used for session support
CGI::Session	>=3.95	Used for session support
Crypt::SMIME	>=0.09	Required if S/MIME-signed administrative e-mail is enabled.
Digest::base		
Digest::SHA1		
Locale::Maketext::Lexicon	>=0	Used for I18N support
Net::SMTP	>=2.29	Used for sending mail
URI		Used for configure

Most of them will probably already be available in your installation. You can check version numbers with the configure script, or if you're still trying to get to that point, check from the command line like this:

```
perl -e 'use FileHandle; print $FileHandle::VERSION."\n"'
```

## Client Requirements

The TWiki standard installation has relatively low browser requirements:

- HTML 3.2 compliant
- Cookies, if persistent sessions are required

CSS and Javascript are used in most skins, although there is a low-fat skin (Classic skin) available that minimises these requirements. Some skins will require more recent releases of browsers. The default skin (Pattern) is tested on IE 6, Safari, and Mozilla 5.0 based browsers (such as Firefox).

You can easily select a balance of browser capability versus look and feel. Try the installed skins at TWikiSkinBrowser and more at TWiki:Plugins.SkinPackage .

## Important note about TWiki Plugins

- Plugins can require just about anything - browser-specific functions, stylesheets (CSS), Java applets, cookies, specific Perl modules,... - check the individual Plugin specs.

%STOPSECTION{"requirements"}%

**Related Topics:** AdminDocumentationCategory

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Ideas, requests, problems regarding TWiki? Send feedback

**Note:** Please contribute updates to this topic on TWiki.org at TWiki:TWiki.TWikiSystemRequirements.