



## **AWStats logfile analyzer Documentation**



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# What is AWStats / Features

## Features

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**A full log analysis enables AWStats to show you the following information:**

- \* Number of visits, and number of unique visitors,
- \* Visits duration and last visits,
- \* Authenticated users, and last authenticated visits,
- \* Days of week and rush hours (pages, hits, KB for each hour and day of week),
- \* Domains/countries of hosts visitors (pages, hits, KB, [266 domains/countries detected](#)),
- \* Hosts list, last visits and unresolved IP addresses list,
- \* Most viewed, entry and exit pages,
- \* Files type,
- \* Web compression statistics (for mod\_gzip),
- \* Browsers used (pages, hits, KB for each browser, each version, [78 browsers](#): Web, Wap, Media browsers...),
- \* OS used (pages, hits, KB for each OS, [31 OS detected](#)),
- \* Visits of robots ([307 robots detected](#)),
- \* Search engines, keyphrases and keywords used to find your site ([The 90 most famous search engines are detected like yahoo, google, altavista, etc...](#)),
- \* HTTP errors (Page Not Found with last referrer, ...),
- \* Other personalized reports based on url, url parameters, referer field for miscellaneous/marketing purpose.

**AWStats also supports the following features:**

- \* Can analyze a lot of log formats: Apache NCSA combined log files (XLF/ELF) or common (CLF), IIS log files (W3C), WebStar native log files and other web, proxy or wap servers log files (but also ftp, syslog or mail log files). See [AWStats F.A.Q.](#) for examples.
- \* Works from command line and from a browser as a CGI (with dynamic filters capabilities for some charts),
- \* Update of statistics can be made from a web browser and not only from your scheduler,
- \* Unlimited log file size, support split log files (load balancing system),
- \* Support 'nearly sorted' log files even for entry and exit pages,
- \* Reverse DNS lookup before or during analysis, support DNS cache files,
- \* WhoIS links,
- \* A lot of options/filters and plugins can be used,
- \* Multi-named web sites supported (virtual servers, great for web-hosting providers),
- \* Cross Site Scripting Attacks protection,
- \* Several languages. See [AWStats F.A.Q.](#) for full list.
- \* No need of rare perl libraries. All basic perl interpreters can make AWStats working,
- \* Graphical and framed reports,
- \* Look and colors can match your site design,
- \* Help and tooltips on HTML reported pages,
- \* Easy to use (Just one configuration file to edit),
- \* Absolutely free (even for web hosting providers), with sources ([GNU General Public License](#))
- \* AWStats has a [XML Portable Application Description](#).

### Requirements:

To use AWStats, you need the following requirements:

- \* Your server must log web access in a log file you can read.

\* You must be able to run perl scripts (.pl files) from command line and/or as CGI.  
If not, you can solve this by downloading last Perl version at [ActivePerl](#) (Win32) or [Perl.com](#) (Unix/Linux/Other).  
See [AWStats F.A.Q.](#) to have examples of supported OS and Web servers.

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AWStats Changelog ----- \$Revision: 1.68 \$ - \$Author: eldy \$ - \$Date: 2003/01/04 18:56:19 \$ 5.4 Fixes:  
 - File name with space inside were not correctly reported when doing FTP log server analysis. - Problem in %Wy tag for ten first weeks of year (coded on 1 char instead of 2: First week should be "00" instead of "0"). - Tooltips now works correctly with Netscape (>= 5.0). - Better parsing of parameters (Solved bug 635962). New features/improvements: - Added urlaliasbuilder.pl tool. - Added URL in possible values for ExtraSection first column. - New parameter: URLWithAnchor (set to 0 by default). Other/Documentation: - Replaced -month=year option by -month=all. - Added an error message if a -migrate is done on an history file with wrong file name. - GeoIP memory cache code is now stored inside plugin code. - Added list of loaded plugins in AWStats copyright string. - Updated documentation. Note 1: Old deprecated values for -lang option (-lang=0, -lang=1...) has been removed. Use -lang=code\_language instead (-lang=en, -lang=fr, ...). Note 2: Old deprecated -month=year option must be replaced by -month=all when used on command line. 5.3 Fixes: - Fixed: Bad documentation for use of ExtraSection. - Fixed: Bug in ValidSMTPCodes parameter. - Fixed: Remove AWStats header on left frame if ShowHeader=0. - Fixed: 29th february 2004 will be correctly handled. - Fixed: Another try to fix the #include not working correctly. - Fixed: Columns not aligned in unknownip view when not all fields are choosed. - Fixed: Columns not aligned in allhosts and lasthosts view when not all fields are choosed. New features/improvements: - Added awstats\_exportlib.pl tool. - Added 'Full list' view for Domains/Country report. - Added 'Full list' and 'Last visits' for email senders/receivers chart. - Added a memory cache for GeoIP plugin resolution (geoip is faster). - New parameter: Added AuthenticatedUsersNotCaseSensitive. - Speed increased when ExtraSection is used. Other/Documentation: - Updates to AWStats robots, os, browsers, search\_engines databases. - Added awstats\_logo3.png - Added X11 as Unknown Unix OS, and Atari OS. - Change way of reading -output= parameter to prepare build of several output with same running process. - Updated documentation. 5.2 - Added urlalias plugin to replace URL values in URL reports by a text. - Added geoip plugin to track countries from IP location instead of domain value. - Support for postfix mail log. - Added total and average row at bottom of day data array. - Added dynamic filter in Host and Referer pages when used as CGI like in Url report. - Removed "Bytes" text when values is 0. - Reduced main page size. - New parameter: Added OnlyHosts parameter. - New parameter: Added ErrorMessage to use a personalized error message. - New parameter: Added DebugMessages to not allow debug messages. - New parameter: Added URLQuerySeparators parameter. - New parameter: Added UseHTTPSLinkForUrl parameter. - Report for robots accept codes like others charts ('HBL'). - Can use "char+" instead of "char" for LogSeparator. - Records with bad http code for Microsoft Index Servers (on 1 digit instead of 3) are no more reported as corrupted records. - Little support for IPv6. - Static string changed from "string" to 'string'. - Fixed: Fix a bug when using IIS and %query or cs-query-string tag in LogFormat and URLWithQuery=1. - Fixed: #include now works correctly. - Added Albanian, Bulgarian and Welsh language. - Added Seychelles flag. 5.1 - Better support for ftp log files. - Better support for mail log files. - Can analyze streaming log files (Windows Media Server). - Added choice of month and year in list boxes (when used as CGI). - The data values for month and days are reported in main page under the graph, no need to change page. - New feature: ShowxxxStats parameters accept codes to decide which columns to show in chart. - New parameter: Added SkipUserAgents parameter to exclude some user agent from statistics. - New parameter: Added URLNotCaseSensitive. - New parameter: Added URLWithQueryWithoutFollowingParameters to exclude some parameters from URL when URLWithQuery is on. - New parameter: Added URLReferrerWithquery. - Added tag %Wm-n for LogFile parameter (replaced with the week number in month but differs from %WM-n because start with 0). - Added tag %Wy-n for LogFile parameter (replaced with the week number in year but differs from %WY-n because start with 0). - Added tag %Dw-n for LogFile parameter (replaced with the day number in week but differs from %DW-n because start with 0). - Fixed: Log analyze is no more stopped if log file contains binary chars. - Fixed: -debug option is allowed in migrate. - Fixed: Wrong window was opened when clicking on flag link when UseFramesWhenCGI was on. - Fixed: Fixed pb in refreshing page when clicking on "Update Now" link (no need to force the refresh). - Fixed: a bug which makes the keywords report loaded twice when page viewed as a cgi after an update now click. - Fixed: Pb with SAMBAR server ('Expires' line appears at the top of pages). - Fixed: Now last update DNS cache file is saved with same permissions than history files so it depends on SaveDatabaseFilesWithPermissionsForEveryone. - Fixed: Some sorting function were still using old 4.1 algorithm. Now all sorts use new 5.0 algorithm (so speed and memory use again increase above all for large web sites with a lot of referers). - Fixed: Remove DecodeEncodedString on parameters sent by command line. - Rewrite plugins to match the same standard for all of them (All use an init function + AWStats version check + no need of global vars in awstats.pl). - Can use the #include "configfile" directive in config files. - Added week-end color on week-end days in monthdayvalues report. - Added 'spider' and 'crawler' as generic robots. - Added awstats\_updateall.pl tool. - Remove common2combined.pl tool (useless). - Updated graph colors. - Updated documentation. - Updated database. - Updated language files. Note 1: AWStats 5.x are compatible with previous versions (3.x or 4.x). However if you use awstats 5.x runtime to read statistics for old month build with 3.x or 4.x, speed will be a little bit reduce but data will be reported correctly. To benefit the speed/memory improvement of 5.x (2 to 8 times faster when reading stats, less memory use) you can migrate (after backup) your history files with the command : awstats.pl -migrate="/fullpath/awstatsMMYYYY.configval.txt" Note 2: Old deprecated command line parameters -h and site= have been removed. Use config= instead. 5.0 - Complete rewrite of

update process and code to read/save history files. AWStats 5.0 is compatible with previous versions (3.x or 4.x). However if you use awstats 5.0 runtime to read statistics for old month build with 3.x or 4.x, speed will be a little bit reduce but data will be reported correctly. To benefit the speed/memory improvement of 5.0 (2 to 8 times faster when reading stats, less memory use) you can migrate your history files with the command : `awstats.pl -migrate="/fullpath/awstatsMMYYYY.configval.txt"`

- Fixed: pb when using several tags with different offset in LogFile name. – Fixed: Create of directory with `CreateDataDirIfNotExists` is made with 0766 instead of 0666. – New feature: Track detailed minor and major version for browsers. – New feature: Added bandwidth report for robots and errors. – New feature: Support DNS cache files for DNS lookup. – New feature: Added Plugins support and several working plugins: A GMT correcter, A hash file DNS cache saver/reader... – New feature: Use framed report (new `UseFramesWhenCGI` parameter). – "Never updated" and "Exact value ..." are now in language files. – Reduce number of global vars in code. – New feature: `DefaultFile` parameter accepts several values. – New feature: Added all robots and last robots full list report. – New feature: Added all logins and last logins full list report. – New feature: Added url entry and url exit full list report. – New feature: Added `AllowAccessFromWebToFollowingIPAddresses` parameter – New parameter: `LogSeparator` for log files with exotic separators. – New parameter: `EnableLockForUpdate` to allow lock for update process. – New parameter: `DecodeUA` to make AWStats work correctly with Roxen. – New tag for logfile: %WY is replaced by week number in year. – Added slovak, spanish (catalan) language files and updated a lot of language files. – Made changes to allow FTP log analysis. – Made changes to prepare sendmail log analysis. – Updated belarus flag. – Updated os, browsers, robots, search engines database. – Added a map of history files at beginning of files to allow other tools to read AWStats history files or part of them very quickly. – Other minor changes and bug fixes. 4.1 – Fixed: –logfile option can be anywhere on command line and accept space in log file names. – Fixed: A bug vampired memory and caused abnormal disk swapping in `logresolvement.pl` – Fixed: Reduce nb of dropped records for log files not 'completely' sorted. – New tag for logfile: %virtualname allows you to share same log file for several virtual servers. – New feature: A 'pipe' can be used in LogFile name parameter. – New feature: Added full list for refering search engines and refering pages. – New feature: Report keywords AND keyphrases. No need to choose one or else. – New feature: Report exit pages. – New feature: Report visits duration. – New option: Added –dir option to choose destination directory for `awstats_buildstaticpages.pl` – New option: Added AWStats common options to `awstats_buildstaticpages.pl` – Updated AWStats databases (renamed into .pm files and moved to lib dir). – Updated documentation. 4.0 WARNING: 4.0 is not compatible with OLD history data files. If you use 4.0 to read statistics for old month, report for "visitors" will be wrong as all old unresolved ip processed with AWStats 3.2 will not be counted when viewed with 4.0. – Increased speed and reduce memory use for very large web sites. – Unresolved ip are now processed like resolved one. – Added icons in browsers chart. – Personalized log format can also have tab separator (not only space). – New ways to manage security/privacy with updated docs and new parameters: `AllowAccessFromWebToAuthenticatedUsersOnly` `AllowAccessFromWebToFollowingAuthenticatedUsers` – New feature: Added mark on "grabber browsers" in browsers chart. – New feature: Added average files size in Pages/URL report chart. – New feature: You can put dynamic environnement variables into config file. – New feature: Keyphrases list can be viewed entirely (not only most used). – New parameter: `WrapperScript` – New parameter: `CreateDataDirIfNotExists` – New parameter: `ValidHTTPCodes` – New parameter: `MaxRowsInHTMLOutput` – New parameter: `ShowLinksToWhoIs` – New parameter: `LinksToWhoIs` – New parameter: `StyleSheet` – New option: –staticlinks to build static links in report page (to use AWStats with no web servers). – New tool: `common2combined.pl` (A log format converter) – New tool: `awstats_buildstaticpages.pl` – Fixed: wrong size of bar in "average" report when average value was < 1. – Fixed: pb of "Error: Not same number of records" when using some version of `mod_perl`. – Fixed: pb in `logresolvement.pl` – Fixed: Security against CSSA. – No more need to use \. to say . in config file. – Documentation seriously updated. 3.2 – Increased speed (19% faster than 3.1). – Fixed: AWStats history file is no more corrupted by hits made from a search engines using a URL with URL encoded binary chars. – Fixed: AWStats history file is no more corrupted when a reverse DNS lookup return a corrupted hostname (Happens with some DNS systems). – Fixed: Security fix. No more possible to update stats from a browser using direct url (`awstats.pl?update=1`) when `AllowToUpdateStatsFromBrowser` is off. – New feature: Added various tags to use dynamic log file name in conf file according to current but also older date/time (%YYYY–n,%YY–n,%MM–n,%DD–n...) – New feature: Added `NotPageList` parameter to choose which file extensions to count as "hit only" (and not reported in the "Page–URL viewed" report). – New feature: Added `KeepBackupOfHistoricFiles` option. – New feature: Number of visits is also visible in days stats. – New feature: Added stats for day of week. – New feature: Added stats for file types. – New feature: Added stats for entry pages. – New feature: Added stats for web compression (`mod_gzip`). – New feature: Added stats for authenticated users/logins. – New feature: Added parameters to choose which report to see in main page. – New feature: Added `URLWithQuery` option to differentiate `http://mysite/sameurl?param=x` of `http://mysite/sameurl?param=y` – New feature: `ShowFlagLinks` can now accept list of all wanted flags for translation link. – New feature: Support standard ISA server log format. – New tool: Add `logresolvement` tool to merge split log files from a load balancing web server before running awstats. – New parameter: `HTMLHeadSection` allows you to add HTML code in header report. – New parameter: `NbOfLinesForCorruptedLog`. – Fixed: no more

warning/error messages when runned with option perl -w. – Reference database (robots, os, browsers, search engines, domains) has been extracted in external files. – Other minor updates (new flags, reference database updates, ...) – Fixed: Parameter MaxNbOfHostsShown was not working correctly. – New languages. – Added an HTML documentation. 3.1 – Increased seriously speed for update process (above all for large web sites). – Increased VERY seriously speed for viewing stats from a browser. – Reduced amount of memory used. – AWStats search config file in directories: current dir, then /etc/opt/awstats, then /etc/awstats, then /etc – New feature: AWStats can analyze NCSA common log files. – New feature: List of last access. – New feature: Full list of url scores. – New feature: Date format can be chosen according to local country. – New parameter: DirLang allows to choose directory for language files. – New parameter: Expires allows to add a meta-tag EXPIRES in HTML report page. – New parameter: LogoLink parameter to choose link used for clicking on logo. – New parameter: color\_weekend option to show week-end days in different colors. – New option: -update and -output to update and/or output a report. – New option: -showsteps to follow advancement of update process. – Fixed: OS detection now works correctly (Windows ME reported correctly). – Fixed: Bad value were reported in daily chart when no pages were viewed. – Added WAP browsers in AWStats database. – New languages. 3.0 – New look – Added daily report for pages, hits and bytes. – AWStats can use its own conversion array to make some reverse DNS lookup. – Added also SkipDNSLookupFor option. – Added OnlyFiles option. – AWStats works with personalized log file format (support also Webstar native log format). New log format parsing algorithm. – Now update is not made by default when stats are read from a browser. Added an "update now" button on HTML report page if new option AllowToUpdateStatsFromBrowser is on. – Tooltips now works also with Netscape 6, Opera and most browsers. – Update browsers database to add a lot of "audio" browsers and more. – Update OS database (Added Windows ME, OpenBSD). – Robots database updated. – Support new domains (biz, museum, coop, info, aero...). – Added some missing flags icons. – Rewrite UnescapeURL function to works with all encoded URLs, cyrillic URL. – Some minor changes. – Added translation for some "not translated" words. – Bytes reported are auto-scaled (Bytes, KB, MB, GB). – Fixed problem of colors (styles) not working with some browsers. – Added new languages (Korean, Danish, ...). Now 14 different languages. – Fixed bug of bad link in TOP pages links when viewed page is of another virtual host. – 259 domains/countries, 60 browsers database, 26 OS, 258 robots, 47 search engines. 2.24 – Added a way to include dynamic current year, month, day and hour in LogFile parameter. – Option to choose month, year and language is also available from command line. – https request are correctly reported. – Added initialization of parameters to avoid problem of bad cache with mod\_perl. – Fixed check of parameters to avoid 'Cross Site Scripting attacks'. – Added flags for Mongolia, Maldives, San Marino, Senegal. – New keyword detection algorithm (Now use a search engine url database like Webalizer AND old algorithm of AWStats for unknown search engines). – Added option to report keywords used from search engine as separate words or as full search strings. – Added Greek, Czech and Portuguese translation (now 9 different languages supported). – A better and faster config file parsing. Solve the problem of "=" into the HTMLEndSection parameter. – AWStats is no more sensitive to DOS-UNIX config files. – Disable DNS lookup only if host has at least 1 alphabetical char. – Better management of corrupted log files. – Make difference between windows NT and windows 2000. – Added OmniWeb and iCab browser. Better MacOS detection. – Make AWStats still working even when MS IndexServer return a bad HTTP return code (like "1" instead of a "three digits" number). – Fixed problem of missing year=yyyy in some links. – Fixed a bug of empty page when domain has "info" in its name. – A lot of minor changes. – 252 domains/countries, 44 browsers database, 24 OS, 252 robots, 39 search engines. 2.23 – Use of configuration file. – Now AWStats can process old log files (however, you must keep order). – Month-to-month basis statistics works now correctly. – Old years now can also be viewed from AWStats report page. – Working directory (with write permissions) can be chosen (you can use another directory than cgi-bin). – Added PurgeLogFile option (you can choose if AWStats purge log file or not). – awstats.pl can be renamed into awstats.plx (for ActiveState perl) and still works. – Statistic page generated from command line has no more bad links. – Added a link to choose full year view. – Domain and page reports are sorted on pages (no more on hits) – Automatic disabling of reverse DNS lookup if this is already done in your log file. – Can add your own HTML code at the end of awstats (ban advert for example). – Added Italian, German, Polish language (now 7 different languages supported). – 252 domains/countries, 40 browsers database, 22 OS, 252 robots, 35 search engines. – Setup instructions are cleaner 2.1 – AWStats considers myserver and www.myserver as the same, even if "HostAliases" setup is wrong. – Fixed a bug making unique visitors counter too high. – Added ArchiveLog parameter to archive processed records into backup files. – Make difference between unknown browsers and unknown OS. – Robots stats are isolated from the rest of visitors. – Better keywords detection algorithm. – Added last time connection for each hosts – Added list of URL for HTTP Error 404 – Added pages, hits and KB for each statistics – Added colors and links – Works also with IIS – Code a little bit cleaner and faster. – Images are in .png format. – 4 languages: English, French, Dutch, Spanish – 252 domains/countries, 40 browsers database, 22 OS, 250 robots, 32 search engines. 1.0 – First version, not distributed



## Log analyzers Comparisons

### Comparison between AWStats and other famous statistics tools

Features/Softwares	AWStats	Analog	Webalizer	HitBox
Version – Date	5.4 – January 2003	5.30 – November 2002	2.01–10 – April 2002	NA
Language	Perl	C	C	Embedded HTML tag
Available on all platforms	Yes	Yes	Yes	NA
Sources available	Yes	Yes	Yes	No
Price/Licence	Free	Free	Free	Free but with adverts
Works with Apache combined (XLF/ELF) or personalized log format	Yes	Yes	Yes	NA
Works with Apache common (CLF) log format	Just some features	Just some features	Just some features	NA
Works with IIS (W3C) log format	Yes	Yes	Need a patch	NA
Update of statistics from	command line (CLI) and/or a browser (CGI)	command line (CLI) and/or a browser (CGI)	command line	NA
Internal reverse DNS lookup	Yes	Yes	Yes	NA
DNS cache file	Static and dynamic	Static or dynamic	Static or dynamic	NA
Process logs spitted by load balancing systems	Yes	Yes	No	No
Report number of "human" visits	Yes	No	Yes	Yes
Report unique "human" visitors	Yes	No	No	Yes
Report session duration	Yes	No	No	Yes
Not ordered records tolerance and reorder for visits	Yes	Visits not supported	No	?
Statistics for visits are based on	Pages *****	Not supported	Pages *****	Pages *****
Statistics for unique visitors are based on	Pages *****	Not supported	Not supported	Pages *****



Report countries	From IP location or domain name	Domain name	Domain name	?
Report hosts	Yes	Yes	Yes	Yes
WhoIs link on hosts	Yes	No	No	No
Report authenticated users	Yes	Yes	No	No
Report/Filter robots (nb detected)	Yes/Yes (304**)	Yes / Yes (8)	No/No (0**)	No/No (0**)
Report rush hours	Yes	Yes	Yes	Yes
Report days of week	Yes	Yes	Yes	Yes
Report most often viewed pages	Yes	Yes	Yes	Yes
Report entry pages	Yes	No	Yes	Yes
Report exit pages	Yes	No	Yes	Yes
Not ordered records tolerance and reorder for entry/exit pages	Yes	Entry/Exit not supported	No	?
Detection of CGI pages as pages (and not just hits)	Yes	Only if prog ends by a defined value	Only if prog ends by a defined value	Yes
Report pages by directory	No	Yes	No	No
Report pages with last access time/average size	Yes/Yes	Yes/No	No/No	No/No
Dynamic filter on hosts/pages/referers report	Yes/Yes/Yes	No/No/No	No/No/No	No/No/No
Report web compression statistics (mod_gzip)	Yes	No	No	No
Report file types	Yes	Yes	No	No
Report by file size	No	Yes	No	No
Report browsers (nb detected)	Yes (78*)	Yes (9*)	Yes (4*)	Yes (
Report details of browsers versions	Major and minor versions	Major versions only	Major an minor versions	Major and minor versions
Report OS (nb detected)	Yes (31)	Yes (29)	No (0)	?
Report search engines used (nb detected)	Yes (90****)	Yes (24)	No (0)	Yes (
Report keywords/keyphrases used on search engines (nb detected)	Yes/Yes (93****)	Yes/No (29****)	No/Yes (14****)	Yes/No (
Report HTTP Errors	Yes	Yes	Yes	No
Report 404 Errors	Nb + List last date/referer	Nb only	Nb only	No
Report 'Add to favorites' statistics	No	No	No	No
Other personalized reports for miscellaneous/marketing purpose	Yes	No	No	No

Daily statistics	Yes	Yes	Yes	Yes
Monthly statistics	Yes	Yes	Yes	Yes
Yearly statistics	Yes	Yes	Yes	Yes
Benchmark with no DNS lookup in lines/seconds (full features enabled, with XLF format, on Athlon 1Ghz)	4500****	?****	12000****	NA No program to run
Benchmark with DNS lookup in lines/seconds (full features enabled, with XLF format, on Athlon 1Ghz)	80****	80****	80****	NA No program to run
Graphical statistics in one page / several / or frames	Yes/Yes/Yes	Yes/No/No	Yes/Yes/No	No/Yes/Yes

\* This number is not really the number of browsers detected. All browsers (known and unknown) can be detected by products that support user agent listing (AWStats, Analog, Webalizer, HitBox). The 'browser detection feature' and number is the number of known browsers for which different versions/ids of same browser are grouped by default in one browser name.

\*\* AWStats can detect robots visits: All robots among the most common are detected, list is in [robotslist.txt](#) (250Kb). Products that are not able to do this give you false information, above all if your site has few visitors. For example, if you're site was submitted to all famous search engines, robots can make 500 visits a month, to find updates or to see if your site is still online. So, if you have only 2000 visits a month, products with no robot detection capabilities will report 2500 visits (A 25% error !). AWStats will report 500 visits from robots and 2000 visits from human visitors.

\*\*\* AWStats has url syntax rules for the most popular search engines (that's the 'number detected'). Those rules are updated with AWStats updates. But AWStats has also an algorithm to detect keywords of unknown search engines with unknown url syntax rules.

\*\*\*\* As you can see, some log analyzers have, by default, very poor (or not at all) robots, search engines, os or browsers detection capabilities. So to have a benchmark comparison that means something, some log analyzers features were 'enhanced' with AWStats databases, when it was possible (For example, Webalizer config file was completed with this [file](#). Like that, Webalizer features are a little bit closer than those of AWStats. Without this add (using default conf file), Webalizer results are 3 times faster but with less features).  
Benchmarks was made on a combined (XLF/CLF) log record on an Athlon 1GHz.  
You must keep in mind that all this times are without reverse DNS lookup. DNS lookup speed depends on your system, network and Internet but not on the log analyzer you use. For this reason, DNS lookup is disabled in all log analyzer benchmarks. Don't forget that DNS lookup is 95% (even with a lookup cache) of the time used by a log analyzer, so if your host is not already resolved in log file and DNS lookup is enable, the total time of the process will be nearly the same whatever is the speed of the log analyzer.

\*\*\*\*\* Some visitors use a lot of proxy servers to surf (ie: AOL users), this means it's possible that several hosts (with several IP addresses) are used to reach your site for only one visitor (ie: one proxy server download the page and 2 other servers download all images). Because of this, if stats of unique visitors are made on "Hits", 3 users are reported but it's wrong. So AWStats, like HitBox, considers only HTML pages to count unique visitors. This decrease the error (not totally, because it's always possible that a proxy server download one HTML frame and another one download another frame).



# Install, Setup and Use AWStats

AWStats common use is made in 3 steps:

- Step 1 : The install and setup
- Step 2 : The build/update of statistics
- Step 3 : The reading of results

## Step 1 : Install and Setup

### A) With Apache Server (on Unix/Linux, Windows, MacOS...)

#### \* Step 1-1

Configure your apache web server to have **NCSA combined/XLF/ELF** log format (you can use your own log format but this predefined logformat is often the best choice and make setup easier). You can do this by changing, in **httpd.conf**, following directives (See your apache manual for more information):

*CustomLog /yourlogpath/yourlogfile common*

into

*CustomLog /yourlogpath/yourlogfile combined*

To be sure the log format change is effective, you can stop Apache, remove all old log files, restart Apache and go to your homepage. This is an example of records you should get then in your new log file:

*62.161.78.75 - - [dd/mmm/yyyy:hh:mm:ss +0000] "GET / HTTP/1.1" 200 1234 "http://www.from.com/from.html"  
"Mozilla/4.0 (compatible; MSIE 5.01; Windows NT 5.0)"*

#### \* Step 1-2

Copy the contents of the uncompressed cgi-bin folder from your hard drive to your server's cgi-bin directory (this includes **awstats.pl**, **awstats.model.conf**, and the **lang**, **lib** and **plugins** sub-directories).

#### \* Step 1-3

If necessary (should not with most Perl interpreter), edit the first (top-most) line of awstats.pl file that is

*#!/usr/bin/perl*

to reflect the path where your Perl interpreter is installed. Default value works for most of Unix OS, but it also might be

*#!/usr/local/bin/perl*

With Apache for Windows and ActivePerl interpreter, it might be

*!c:/program files/activeperl/bin/perl*

#### \* Step 1-4

Move AWStats **icon sub-directories** and its content into a directory readable by your web server, for example /yourwwwroot/icon or /yourwwwroot/icons.

#### \* Step 1-5

Copy **awstats.model.conf** file into a new file named **awstats.myvirtualhostname.conf**. This new file must be stored in

– /etc/opt/awstats or /etc/awstats or /etc or same directory than awstats.pl (so cgi-bin) for Unix/Linux users.

– same directory than awstats.pl (so cgi-bin) for Windows and other OS.

\* Step 1–6

Edit this new config file with your own setup :

- Change [LogFile](#) value with full path of your web server log file (You can also use a relative path from your awstats.pl directory).
- Check if [LogFormat](#) has the value "1" (it means "NCSA apache combined/ELF/XLF log format").
- Change [DirIcons](#) parameter to reflect relative path of icon directory.
- Edit [SiteDomain](#) parameter with the main domain name or the intranet web server name used to reach the web site to analyze (Example: www.mydomain.com).
- You can change other parameters if you want.

Step 1 (Install and Setup) is finished. You can jump to the [Build/Update Statistics](#) section.

## B) With IIS Server

\* Step 1–1

Configure IIS to log in "**Extended W3C log format**" (You can still use your own log format but setup is easier if made like suggested). So, for this, start the IIS Snap–in, select the web site and look at its Properties. Choose W3C Extended Log Format, then Properties, then the Tab Extended Properties and uncheck everything under Extended Properties. Once they are all unchecked, check all following fields:

*date*  
*time*  
*c–ip*  
*cs–username*  
*cs–method*  
*cs–uri–stem*  
*sc–status*  
*sc–bytes*  
*cs–version*  
*cs(User–Agent)*  
*cs(Referer)*

To be sure the log format change is effective, you must stop IIS, remove all old log files, restart IIS and go to your homepage. This is an example of records you should get then in the new log file:

*2000–07–19 14:14:14 62.161.78.73 – GET / 200 1234 HTTP/1.1*  
*Mozilla/4.0+(compatible;+MSIE+5.01;+Windows+NT+5.0) http://www.from.com/from.htm*

\* Step 1–2

Copy the contents of the uncompressed cgi–bin folder from your hard drive to your server's cgi–bin directory (this includes **awstats.pl**, **awstats.model.conf**, and the **lang**, **lib** and **plugins** sub–directories).

\* Step 1–3

Move AWStats **icon sub–directories** and its content into a directory readable by your web server, for example C:\yourwwwroot\icon.

\* Step 1–4

Copy **awstats.model.conf** file into a new file named **awstats.myvirtualhostname.conf**. This new file must be stored in – same directory than awstats.pl (so cgi–bin)

\* Step 1–5

Edit this new config file with your own setup :

- Change [LogFile](#) value with full path of your web server log file (You can also use a relative path from your awstats.pl directory).
- Change [LogFormat](#) to value "2" (it means "IIS Extended W3C log format").
- Change [DirIcons](#) parameter to reflect relative path of icon directory.

- Edit [SiteDomain](#) parameter with the main domain name or the intranet web server name used to reach the web site to analyze (Example: www.mydomain.com).
- You can change other parameters if you want.

Step 1 (Install and Setup) is finished. You can jump to the [Build/Update Statistics](#) section.

### C) With other web servers

Setup process is similar to setup for Apache or IIS.

Use [LogFormat](#) to value "3" if you have WebStar native log format.

## Step 2 : Build/Update Statistics

### \* Step 2–1

The first analyze/update of statistics can be made the first time manually from the command line (the first time, process may be long) :

***awstats.pl –config=myvirtualhostname –update***

AWStats will read the config file awstats.myvirtualhostname.conf (or if not found, awstats.conf) and create/update its database with all summary information issued from analyzed log file.

AWStats database files are saved in directory defined by [DirData](#) parameter in config file.

When update is finished, you should get a result like this:

*Lines in file: 225730  
Found 5 dropped records,  
Found 124 corrupted records,  
Found 0 old records,  
Found 225601 new records.*

**Dropped records** are records discarded because they were not user HTTP request or requests were not qualified by AWStats filters (See [SkipHosts](#), [SkipUserAgents](#), [SkipFiles](#), and [OnlyFiles](#) parameters). If you want to see which lines were dropped, you can add the **–showdropped** option on command line.

**Corrupted records** are records that does not match log format defined by "LogFormat" parameter in AWStats config/domain file. With all webservers you can experience a little bit corrupted records ( If all your lines are corrupted and [LogFormat](#) parameter in AWStats config/domain file is correct, it may be the log format setup in your web server that is wrong. Don't forget that your [LogFormat](#) parameter in AWStats config/domain file **MUST** match the log file format you analyze.

If you want to see which lines are corrupted, you can add the **–showcorrupted** option on command line.

**Old records** are simply records that were already processed by a previous update process. So it's not necessary to purge your log file after each update process even if it's highly recommended to do it as often as possible.

**New records** are records in your log file that were successfully used to build/update statistics.

Note : A log analysis process is slow (one second for each 4500 lines of your logfile with Athlon 1Ghz, plus DNS resolution time for each different IP address in your logfile if [DNSLookup](#) is set to 1 and not already done in your log file).

See [Benchmark page](#) for more accurate information.

### \* Step 2–2

Even if AWStats allows "real–time" statistics with its "update from browser feature" (See next section [Read Statistics](#)), you should run an update process from a scheduler (command is same than first process) frequently.

You can add instructions in your **crontab** (Unix/Linux) or your **task scheduler** (for Windows), to launch frequently this

Awstats update process.

For sites with:

- 10,000 visitors a month Launch AWStats once a day
- 50,000 visitors a month Launch AWStats once every 4 hours
- 250,000 visitors a month Launch AWStats once an hour
- 1,000,000 visitors a month Launch AWStats once an hour

This is ABSOLUTELY necessary to keep good performances.

See AWStats [Benchmark page](#) for more accurate information.

!!! Warning, if you don't use (or can't use with IIS) the [PurgeLogFile](#) parameter, it's very important that you don't forget to purge/rotate your log file yourself (or setup your web server to do it) frequently (You can find help for this on [FAQ–SET550](#)). Even if AWStats never analyzes twice the same log record, the more often you clean your log file, the faster AWStats will be.

## **Step 3 : Read Statistics**

To see results of analyze, you have several solutions depending on your [security policy](#).

\* First solution is to build the main reports, in a static HTML page, from the command line, like this :

```
perl awstats.pl –config=virtualhostname –output –staticlinks > awstats.virtualhostname.html
```

You can also use all other output options (each of them give you another report). This is how to use all other possible output options(1) :

```
perl awstats.pl –config=virtualhostname –output=allhosts –staticlinks > awstats.virtualhostname.allhosts.html  
perl awstats.pl –config=virtualhostname –output=lasthosts –staticlinks > awstats.virtualhostname.lasthosts.html  
perl awstats.pl –config=virtualhostname –output=unknownip –staticlinks > awstats.virtualhostname.unknownip.html  
perl awstats.pl –config=virtualhostname –output=alllogins –staticlinks > awstats.virtualhostname.alllogins.html  
perl awstats.pl –config=virtualhostname –output=lastlogins –staticlinks > awstats.virtualhostname.lastlogins.html  
perl awstats.pl –config=virtualhostname –output=allrobots –staticlinks > awstats.virtualhostname.allrobots.html  
perl awstats.pl –config=virtualhostname –output=lastrobots –staticlinks > awstats.virtualhostname.lastrobots.html  
perl awstats.pl –config=virtualhostname –output=urldetail –staticlinks > awstats.virtualhostname.urldetail.html  
perl awstats.pl –config=virtualhostname –output=urllentry –staticlinks > awstats.virtualhostname.urllentry.html  
perl awstats.pl –config=virtualhostname –output=urlexit –staticlinks > awstats.virtualhostname.urlexit.html  
perl awstats.pl –config=virtualhostname –output=browserdetail –staticlinks >  
awstats.virtualhostname.browserdetail.html  
perl awstats.pl –config=virtualhostname –output=unknownbrowsers –staticlinks >  
awstats.virtualhostname.unknownbrowsers.html  
perl awstats.pl –config=virtualhostname –output=unknownnos –staticlinks > awstats.virtualhostname.unknownnos.html  
perl awstats.pl –config=virtualhostname –output=refererse –staticlinks > awstats.virtualhostname.refererse.html  
perl awstats.pl –config=virtualhostname –output=refererpages –staticlinks > awstats.virtualhostname.refererpages.html  
perl awstats.pl –config=virtualhostname –output=keyphrases –staticlinks > awstats.virtualhostname.keyphrases.html  
perl awstats.pl –config=virtualhostname –output=keywords –staticlinks > awstats.virtualhostname.keywords.html  
perl awstats.pl –config=virtualhostname –output=errors404 –staticlinks > awstats.virtualhostname.errors404.html
```

Note (1): If you prefer, you can use [awstats\\_buildstaticpages](#) tool to build all those pages in one command.

Note (2): You can also add a *filter* on the following output reports: **urldetail**, **urllentry**, **urlexit**, **allhosts**, **refererpages**. *filter* can be a regexp on the full key you want awstats to present information about and you must use it after the output parameter separated by a ":".

For example, to output the urldetail report, with a filter on all pages that contains /news, you can use the following command line:

```
perl awstats.pl –config=virtualhostname –output=urldetail:/news –staticlinks >
```

*awstats.virtualhostname.urldetailwithfilter.html*

Note (3): If you want to build a report for a particular month, add options ***-month=MM -year=YYYY***.  
To build a report for full year (warning: This may use a lot of memory and CPU), add options ***-month=all -year=YYYY***.

\* Another solution is to view dynamically your statistics from a browser. For this use URL:

***http://www.myserver.mydomain/cgi-bin/awstats.pl?config=virtualhostname***

where *virtualhostname* is used to know which config file to use (AWStats will use *awstats.virtualhostname.conf* file).

Note (1): All output command line options (except *-staticlinks*) are still available when using AWStats as a browser.  
Just use them as URL parameters like this example

***http://www.myserver.mydomain/cgi-bin/awstats.pl?month=MM=unknownos***

Note (2): If [AllowToUpdateStatsFromBrowser](#) parameter is set to 1 in AWStats config/domain file, you will also be able to run the update process from your browser. Just click on link "Update now".

---





## Little Tips about Security

A lot of AWStats users have several web site to manage. This is particularly true for web hosting providers. The most common things you would like to do is to prevent user xxx (having a site www.xxx.com) to see statistics of user yyy (having a site www.yyy.com).

This is example of possible way of working:

### 1) HIGHLY SECURED POLICY

#### **Policy:**

You have several different config/domains owned by different users and you want to build statistics for each of them. You don't need that your customer have "real-time" statistics.

This is a very good choice for web hosting providers with few but very large web sites of important customers.

#### **Advantage:**

Very highly secured.

#### **Disadvantage:**

Statistics are static, no dynamic update/view.

#### **How:**

All statistics pages for a config/domain file are built in static html files using **–output –staticlinks** option.

There is no CGI use of AWStats and static built pages are stored in a web protected **realm** to be securely viewed by correct allowed users only (or sent by mails).

If users have a command line access (telnet) on statistics server, you must set correct permissions on AWStats database files. Set all AWStats database files (built by the update process) for config/domain1 to have read/write for *user1* (or an admin user) and NO read and NO write permissions for any other users.

Then, check that the [SaveDatabaseFilesWithPermissionsForEveryone](#) parameter is set 0 in your config/domain files.

If AWStats database files for config/domain1 are read protected, only allowed users can see statistics for config/domain1.

If AWStats database files for config/domain1 are write protected, only allowed users can update statistics for config/domain1.

### 2) MEDIUM SECURED POLICY

#### **Policy:**

You have several config/domain and several users. You want to specify which user can see or update dynamically statistics for each config/domain.

This is one of the most popular way of working.

#### **Advantage:**

Statistics are dynamic. High level of manageability.



#### Disadvantage:

AWStats database files must still be readable by anonymous web server user, so if an experienced user can have an access to the server (telnet) where AWStats database files are stored, he can succeed in installing and running a "hacked" version of AWStats that ignores value of parameter `AllowAccessFromWebToAuthenticatedUsersOnly`.

#### How:

`awstats.pl` file must be saved in a web protected **realm** to force a visitor to enter its username/password to access AWStats CGI program.

#### Example of directives you can add into Apache to have `awstats.pl` in a web protected realm:

```
<Files "awstats.pl">
AuthUserFile /path/to/.passwd
AuthGroupFile /path/to/.group
AuthName "Restricted Area For Customers"
AuthType Basic
require valid-user
</Files>
```

If you add such directives into a `.htaccess` file, you must also check that the `AllowOverride` directive is set to `All` in Apache config file to allow the use of `.htaccess` files.

To know how to create a protected realm for servers other than Apache, see your web server manual.

Then edit each config/domain file you want to be protected to set `AllowAccessFromWebToAuthenticatedUsersOnly` to 1. You can also edit list of authorized users in the `AllowAccessFromWebToFollowingAuthenticatedUsers` parameter. You can also specify a range of allowed browsers IP Addresses with the `AllowAccessFromWebToFollowingIPAddresses` parameter.

Other tip: If you define `AWSTATS_CONFIG` environment variable in your web server environment (Adding `SetEnv AWSTATS_CONFIG myconfigvalueformydomain` with other directives in your Apache VirtualHost config), AWStats will use the config file called `awstats.myconfigvalueformydomain.conf` to choose which statistics used, even if a visitor try to force the config/domain file with the URL '`http://mydomain/cgi-bin/awstats.pl?config=otherdomain`'. This might be useful for those who edit their config/domain file with `AllowAccessFromWebToFollowingAuthenticatedUsers="__REMOTE_USER__"` to avoid managing account lists in AWStats config files.

### 3) NO SECURITY POLICY

#### Policy:

You have only one hosts or several hosts or users but you don't need to manage particular permissions for your different config/domain statistics.

#### Advantage:

Setup is very easy (No need of particular setup). Statistics are dynamic.

#### Disadvantage:

No way to prevent stats for config/domain to be seen by a user that known the config/domain name and the url syntax to see stats of a particular config/domain.

#### How:

No particular things to do (You can however easily use `AllowAccessFromWebToFollowingIPAddresses` parameter to have a minimum of security).

There is a lot of possible use for AWStats combining all its options/parameters with all web servers options/parameters. Just use the one you need...





## AWStats configuration directives/options

Each directives available in the AWStats config file (.conf) is listed here.  
They are described using a consistent format.

**Notes** To include an environment variable in any parameter (AWStats will replace it with its value when reading it), follow the example:

*Parameter* = "\_\_ENVNAME\_\_"

### MAIN SETUP SECTION (Required to make AWStats work)

- [LogFile](#)
- [LogFormat](#)
- [LogSeparator](#)
- [DNSLookup](#)
- [DirData](#)
- [DirCgi](#)
- [DirIcons](#)
- [SiteDomain](#)
- [HostAliases](#)
- [AllowToUpdateStatsFromBrowser](#)

### OPTIONAL SETUP SECTION (Not required but increase AWStats features)

- [EnableLockForUpdate](#)
- [DNSStaticCacheFile](#)
- [DNSLastUpdateCacheFile](#)
- [SkipDNSLookupFor](#)
- [AllowAccessFromWebToAuthenticatedUsersOnly](#)
- [AllowAccessFromWebToFollowingAuthenticatedUsers](#)
- [AllowAccessFromWebToFollowingIPAddresses](#)
- [CreateDirDataIfNotExists](#)
- [SaveDatabaseFilesWithPermissionsForEveryone](#)
- [PurgeLogFile](#)
- [ArchiveLogRecords](#)
- [KeepBackupOfHistoricFiles](#)
- [DefaultFile](#)
- [SkipHosts](#)
- [SkipUserAgents](#)
- [SkipFiles](#)
- [OnlyHosts](#)
- [OnlyFiles](#)
- [NotPageList](#)
- [ValidHTTPCodes](#)
- [ValidSMTPCodes](#)

- `AuthenticatedUsersNotCaseSensitive`
- `URLNotCaseSensitive`
- `URLWithAnchor`
- `URLQuerySeparators`
- `URLWithQuery`
- `URLWithQueryWithoutFollowingParameters`
- `URLReferrerWithQuery`
- `WarningMessages`
- `ErrorMessages`
- `DebugMessages`
- `NbOfLinesForCorruptedLog`
- `SplitSearchString`
- `WrapperScript`
- `DecodeUA`

#### **OPTIONAL ACCURACY SETUP SECTION (Not required but increase AWStats features)**

- `LevelForRobotsDetection`
- `LevelForBrowsersDetection`
- `LevelForOSDetection`
- `LevelForRefererAnalyze`

#### **OPTIONAL APPEARANCE SETUP SECTION (Not required but increase AWStats features)**

- `UseFramesWhenCGI`
- `DetailedReportsOnNewWindows`
- `Expires`
- `MaxRowsInHTMLOutput`
- `Lang`
- `DirLang`
- `ShowHeader`
- `ShowMenu`
- `ShowMonthDayStats`
- `ShowDaysOfWeekStats`
- `ShowHoursStats`
- `ShowDomainsStats`
- `ShowHostsStats`
- `ShowAuthenticatedUsers`
- `ShowRobotsStats`
- `ShowSessionsStats`
- `ShowPagesStats`
- `ShowCompressionStats`
- `ShowFileTypesStats`
- `ShowFileSizesStats`
- `ShowBrowsersStats`
- `ShowOSStats`
- `ShowOriginStats`
- `ShowKeyphrasesStats`
- `ShowKeywordsStats`
- `ShowHTTPErrorsStats`
- `MaxNbOfDomain`
- `MaxNbOfHostsShown`
- `MinHitHost`
- `MaxNbOfLoginShown`

- [MinHitLogin](#)
- [MaxNbOfRobotShown](#)
- [MinHitRobot](#)
- [MaxNbOfPageShown](#)
- [MinHitFile](#)
- [MaxNbOfRefererShown](#)
- [MinHitRefer](#)
- [MaxNbOfKeywordsShown](#)
- [MinHitKeyword](#)
- [FirstDayOfWeek](#)
- [ShowFlagLinks](#)
- [ShowLinksOnUrl](#)
- [MaxLengthOfURL](#)
- [ShowLinksToWhoIs](#)
- [LinksToWhoIs](#)
- [LinksToIPWhoIs](#)
- [HTMLHeadSection](#)
- [HTMLEndSection](#)
- [BarWidth](#)
- [BarHeight](#)
- [Logo](#)
- [LogoLink](#)
- [StyleSheet](#)
- [color\\_Background](#)
- [color\\_TableBGTitle](#)
- [color\\_TableTitle](#)
- [color\\_TableBG](#)
- [color\\_TableRowTitle](#)
- [color\\_TableBGRowTitle](#)
- [color\\_TableBorder](#)
- [color\\_text](#)
- [color\\_titletext](#)
- [color\\_weekend](#)
- [color\\_link](#)
- [color\\_hover](#)
- [color\\_u](#)
- [color\\_v](#)
- [color\\_p](#)
- [color\\_h](#)
- [color\\_k](#)
- [color\\_s](#)
- [color\\_e](#)
- [color\\_x](#)

## PLUGINS

- [LoadPlugin](#)

## EXTRA

- [ExtraSectionNameX](#)
- [ExtraSectionConditionX](#)
- [ExtraSectionFirstColumnTitleX](#)
- [ExtraSectionFirstColumnValuesX](#)

- [ExtraSectionStatTypesX](#)
- [MaxNbOfExtraX](#)
- [MinHitExtraX](#)

## INCLUDES

- [#include](#)

### LogFile

**Version :** 1.0 +

3.1+ for tags %YYYY-n,%YY-n,%MM-n,%DD-n,%HH-n

3.2+ for tag %WM-n

4.0+ for tag %DW-n

4.1+ for tag %NS-n

5.0+ for tag %WY-n

5.1+ for tag %Wm-n, %Wy-n, %Dw-n

# "LogFile" contains the web server logfile to analyze.

# You can use a full path or relative path from awstats.pl directory.

# Example: "/var/log/apache/access.log"

# Example: "../logs/mycombinedlog.log"

# You can also use tags in this filename if you need a dynamic file name

# depending on date or time (Replacement is made by AWStats at the beginning  
# of its execution). This is available tags :

# %YYYY-n is replaced with 4 digits year we were n hours ago

# %YY-n is replaced with 2 digits year we were n hours ago

# %MM-n is replaced with month we were n hours ago

# %DD-n is replaced with day we were n hours ago

# %HH-n is replaced with hour we were n hours ago

# %NS-n is replaced with number of seconds at 00:00 since 1970

# %WM-n is replaced with the week number in month (1-5)

# %Wm-n is replaced with the week number in month (0-4)

# %WY-n is replaced with the week number in year (01-52)

# %Wy-n is replaced with the week number in year (00-51)

# %DW-n is replaced with the day number in week (1-7, 1=sunday)

# use n=24 if you need (1-7, 1=monday)

# %Dw-n is replaced with the day number in week (0-6, 0=sunday)

# use n=24 if you need (0-6, 0=monday)

# Use 0 for n if you need current year, month, day, hour...

# Example: "/var/log/access\_log.%YYYY-0%MM-0%DD-0.log"

# Example: "C:/WINNT/system32/LogFiles/W3SVC1/ex%YY-24%MM-24%DD-24.log"

# You can also use a pipe if log file come from a pipe.

# Example: "gzip -d </var/log/apache/access.log.gz |"

#

LogFile="/var/log/httpd/mylog.log"

### LogFormat

**Version :** 2.1 +

3.1+ for tags %host,%logname,%time1,%time2,%methodurl,%methodurlnoproto,%method,%url,

%query,%code,%bytesd,%refererquot,%referer,%uaquot,%ua,%other

3.2+ for tags %gzipin,%gzipout

4.0+ for tags %gzipratio,%syslog

4.1+ for tag %virtualname

```
# Enter here your log format (Must agree with your web server. See setup
# instructions in README.txt to know how to configure your web server to have
# the required log format).
# Possible values: 1,2,3,4,5,6 or "your_own_personalized_log_format"
# 1 – Apache native combined log format (NCSA combined/XLF/ELF log format)
# 2 – IIS log format (W3C log format)
# 3 – Webstar native log format
# 4 – Apache or Squid native common log format (NCSA common log format)
# With LogFormat=4, some features (browsers, os, keywords...) can't work.
# 5 – ISA server standard log format
# 6 – Lotus Notes combined log format
# "your_own_personalized_log_format" = If your log is a personalized format,
# you must use the following syntax keys to define the log format string:
# %host Host client name or IP address
# %logname Authenticated login/user used on protected pages
# %time1 Date and time with format: [dd/mmm/yyyy:hh:mm:ss +0000]
# %time1b Date and time with format: [dd/mmm/yyyy:hh:mm:ss]
# %time2 Date and time with format: yyyy-mm-dd hh-mm-ss
# %methodurl Method and URL with format: "GET /index.html HTTP/x.x"
# %methodurlnoproto Method and URL with format: "GET /index.html"
# %method Method with format: GET
# %url URL only with format: /index.html
# %query Query string (used by URLWithQuery option)
# %code Return code status (with format for web log: 999)
# %bytesd Size of document in bytes
# %refererquot Referer page with format: "http://from.com/from.htm"
# %referer Referer page with format: http://from.com/from.htm
# %uaquot User agent with format: "Mozilla/4.0 (compatible, ...)"
# %ua User agent with format: Mozilla/4.0_(compatible...)
# %gzipin Mod_gzip compression input bytes: In:XXX
# %gzipout Mod_gzip compression output bytes &ratio: Out:YYY:ZZZpct.
# %gzipratio Mod_gzip compression ratio: ZZZpct.
# %email EMail sender (for mail log)
# %email_r EMail receiver (for mail log)
# %syslog Syslog-specific time and host stamp with format: Mon dd hh:mm:ss hostname
# %virtualname Web sever virtual hostname. Use this tag when same log
# file contains data of several virtual web servers. The
# SiteDomain will be used to filter the one you want.
# If your log format has some fields not included in this list, use
# %other Means another field
#
# Examples for Apache combined logs (following two examples are equivalent):
# LogFormat = 1
# LogFormat = "%host %other %logname %time1 %methodurl %code %bytesd %refererquot %uaquot"
#
# Examples for IIS (following two examples are equivalent):
# LogFormat = 2
# LogFormat = "%time2 %host %logname %method %url %code %bytesd %other %ua %referer"
#
LogFormat=1
```

---

## **LogSeparator**

**Version : 5.0 +**

```
# If your log field's separator is not a space, you can change this parameter.
# This parameter is not used if LogFormat is a predefined value (1,2,3,4,5,6)
# Example: " "
# Example: "\t"
# Example: "|"
# Default: " "
#
```

---

## **DNSLookup**

**Version : 1.0 + (5.0 + for value 2)**

```
# If you want to have hosts reported by name instead of ip address, AWStats
# need to make reverse DNS lookups (if not already done in your log file).
# With DNSLookup to 0, all hosts will be reported by their IP addresses and
# not by the full hostname of visitors.
# If you want to set DNSLookup to 1, don't forget that this will reduce
# dramatically AWStats update process speed. Do not use on large web sites.
# Note: Country detection can works without reverse DNS lookup if plugin
# 'geoip' is enabled (faster and more accurate than reverse DNS lookup).
# Possible values:
# 0 – No DNS Lookup
# 1 – DNS Lookup is fully enabled
# 2 – DNS Lookup is made only from DNS cache files (if exist)
# Default: 2
#
DNSLookup=2
```

---

## **DirData**

**Version : 1.0 +**

```
# When AWStats updates its statistics, it stores results of its analysis in
# files (AWStats database). All those files are written in the directory
# defined by the "DirData" parameter. Set this value to the directory where
# you want AWStats to save its database and working files into.
# Warning: If you want to be able to use the "AllowToUpdateStatsFromBrowser"
# feature (see later), you need write permissions by webserver user on this
# directory.
# Example: "/var/cache/awstats"
# Example: "../data"
# Example: "C:/awstats_data_dir"
# Default: "." (means same directory as awstats.pl)
#
DirData="."
```

---

## **DirCgi**

**Version : 1.0 +**

```
# Relative or absolute web URL of your awstats.pl directory.
# This parameter is used only when AWStats is ran from command line
# with -output option (to generate links in HTML reported page).
```



```
# Default: "/cgi-bin" (means awstats.pl is in "/mywwwroot/cgi-bin")
#
DirCgi="/cgi-bin"
```

---

## **DirIcons**

**Version : 1.0 +**

```
# If AWStats used as a CGI, enter relative or absolute web URL of all icons
# subdirectories.
# If you build static reports ("... -output > outputpath/output.html"), enter
# path of icon directory relative to the directory outputpath.
# Example: "/icon"
# Example: "../icon"
# Default: "/icon" (means you must copy icon directories in "/mywwwroot/icon")
#
DirIcons="/icon"
```

---

## **SiteDomain**

**Version : 3.2 +**

```
# "SiteDomain" must contain the main domain name or the main intranet web
# server name used to reach the web site.
# If you share the same log file for several virtual web servers, this
# parameter is used to tell AWStats to filter record that contains records for
# this virtual host name only (So check that this virtual hostname can be
# found in your log file and use a personalized log format that include the
# %virtualname tag).
# But for multi hosting a better solution is to have one log file for each
# virtual web server. In this case, this parameter is only used to generate
# full URL's links when ShowLinksOnUrl option is set to 1.
# Example: "www.mysite.com"
# Example: "user.mydomain.com"
# Example: "myintranetserver"
#
SiteDomain=""
```

---

## **HostAliases**

**Version : 1.0 +**

```
# Enter here all other possible domain names, addresses or virtual host
# aliases someone can use to access your site. Try to keep only the minimum
# number of possible names/adresses to have the best performances.
# You can repeat the "SiteDomain" value in this list.
# Use space between each value and put a backslash before each dot.
# This parameter is used to analyze referer field in log file and to help
# AWStats to know if a referer URL is a local URL of same site or an URL of
# another site.
# Example: "www.myserver.com x.y.z.w localhost 127.0.0.1"
#
HostAliases="www.myserver.com x.y.z.w localhost 127.0.0.1"
```

---

## **AllowToUpdateStatsFromBrowser**

**Version : 3.0 +**

```
# When this parameter is set to 1, AWStats add a button on report page to
# allow to "update" statistics from a web browser. Warning, when "update" is
# made from a browser, AWStats is ran as a CGI by the web server user
# defined in your web server (user "nobody" by default with Apache, "IUSR_XXX"
# with IIS), so the "DirData" directory and all already existing history files
# (awstatsMMYYYY[.xxx].txt) must be writable by this user. Change permissions
# if required.
# Warning: Update process can be long so you might experience "time out"
# browser errors if you don't launch AWStats enough frequently.
# When set to 0, update is only made when AWStats is ran from the command
# line interface (or a task scheduler).
# Possible values: 0 or 1
# Default: 0
#
AllowToUpdateStatsFromBrowser=0
```

---

## **EnableLockForUpdate**

**Version : 5.0 +**

```
# When the update process run, AWStats can set a lock file in TEMP or TMP
# directory. This lock is to avoid to have 2 update processes running at the
# same time to prevent unknown conflicts problems and avoid DoS attacks when
# AllowToUpdateStatsFromBrowser is set to 1.
# Because, when you use lock file, you can experience sometimes problems in
# lock file not correctly removed (when process is killed for example, this
# requires that you remove the file manually), this option is not enabled by
# default (Do not enable this option with no consol server access).
# Possible values: 0 or 1
# Default: 0
#
EnableLockForUpdate=0
```

---

## **DNSStaticCacheFile**

**Version : 5.0 +**

```
# AWStats can do reverse DNS lookups through a static DNS cache file that was
# previously created manually. If no path is given in static DNS cache file
# name, AWStats will search DirData directory. This file is never changed.
# This option is not used if DNSLookup=0.
# Note: DNS cache file format is 'minsince1970 ipaddress resolved_hostname'
# or just 'ipaddress resolved_hostname'
# Example: "/mydnscachedir/dnscache"
# Default: "dnscache.txt"
#
DNSStaticCacheFile="dnscache.txt"
```

---

## **DNSLastUpdateCacheFile**

**Version : 5.0 +**

```
# AWStats can do reverse DNS lookups through a DNS cache file that was created
```

```
# by a previous run of AWStats. This file is erased and recreated after each
# statistics update process. You don't need to create and/or edit it.
# AWStats will read and save this file in DirData directory.
# This option is not used if DNSLookup=0.
# Example: "/mydnscachedir/dnscachelastupdate"
# Default: "dnscachelastupdate.txt"
#
DNSLastUpdateCacheFile="dnscachelastupdate.txt"
```

---

### **SkipDNSLookupFor**

**Version : 3.0 +**

```
# You can specify specific IP addresses that should NOT be looked up in
# the DNS. You may specify partial addresses (ie 163.85. for everything
# behind the usual firewall setup, etc)...
# This option is used only if DNSLookup=1.
# Note: Use space between each value.
# Example: "163.85. 201.101.51.2"
# Default: ""
#
SkipDNSLookupFor=""
```

---

### **AllowAccessFromWebToAuthenticatedUsersOnly**

**Version : 4.0 +**

```
# The following two parameters allow you to protect a config file to be used
# by your AWStats program called from a browser only if web user has been
# authenticated. Your AWStats program must be in a web protected "realm" (With
# Apache, you can use .htaccess files to do so. With other web servers, see
# your server setup manual).
# Possible values: 0 or 1
# Default: 0
#
AllowAccessFromWebToAuthenticatedUsersOnly=0
```

---

### **AllowAccessFromWebToFollowingAuthenticatedUsers**

**Version : 4.0 +**

```
# This parameter gives the list of all authorized authenticated users to view
# statistics for this domain/config file. This parameter is used only if
# AllowAccessToAuthenticatedUsersOnly is set to 1.
# Example: "user1 user2"
# Default: ""
#
AllowAccessFromWebToFollowingAuthenticatedUsers=""
```

---

### **AllowAccessFromWebToFollowingIPAddresses**

**Version : 5.0 +**

```
# When this parameter is define to something, the IP address of the user that
# read its statistics from a browser (when AWStats is used as a CGI) is
# checked and must match the IP address range defined by this parameter.
```

```
# Example: "123.123.123.10-123.123.123.255"
# Default: ""
#
AllowAccessFromWebToFollowingIPAddresses=""
```

---

### **CreateDirDataIfNotExists**

**Version : 4.0 +**

```
# If the "DirData" directory (see above) does not exists, AWStats return an
# error. However, you can ask AWStats to create it. This option can be used by
# some Web Hosting Providers that has defined a dynamic value for DirData (for
# example DirData="/home/___REMOTE_USER___").
# Possible values: 0 or 1
# Default: 0
#
CreateDirDataIfNotExists=1
```

---

### **SaveDatabaseFilesWithPermissionsForEveryone**

**Version : 4.0 +**

```
# In most case, AWStats is used as a cgi program. So AWStats process is ran
# by default web server user (nobody for Unix, IUSR_xxx for IIS/Windows,...).
# To make use easier and avoid permission problems between update process
# (run by an admin user) and CGI process (ran by a low level user), AWStats
# save its database files with read and write for everyone.
# If you have experience on managing security policies (Web Hosting Provider),
# you should set this parameter to 0. AWStats will keep default process user
# permissions on its files.
# Possible values: 0 or 1
# Default: 1
#
SaveDatabaseFilesWithPermissionsForEveryone=1
```

---

### **PurgeLogFile**

**Version : 2.23 +**

```
# AWStats can purge log after processing it. By this way, the next time you
# launch AWStats, log file will be smaller and processing time will be better.
# IMPORTANT !!!
# AWStats is able to detect new lines in log file, to process only them, so
# you can launch AWStats as soon as you want, even with this parameter to 0.
# With 0, no purge is made, so you must use a scheduled task or a web server
# that make this purge frequently.
# With 1, the purge of the log file is made each time AWStats is ran.
# This parameter doesn't work with IIS (This web server doesn't let its log
# file to be purged).
# Possible values: 0 or 1
# Default: 0
#
PurgeLogFile=0
```

---

## **ArchiveLogRecords**

**Version : 2.1 +**

```
# When PurgeLogFile is setup to 1, AWStats will clean your log file after
# processing it. You can however keep an archive file (saved in "DirData") of
# all processed log records by setting this to 1 (For example if you want to
# use another log analyzer).
# This parameter is not used if PurgeLogFile=0
# Possible values: 0 or 1
# Default: 0
#
ArchiveLogRecords=0
```

---

## **KeepBackupOfHistoricFiles**

**Version : 3.2 +**

```
# Each time you run the update process, AWStats overwrite the 'historic file'
# for the month (awstatsMMYYYYY[.*.txt) with the updated one.
# When write errors occurs (IO, disk full,...), this historic file can be
# corrupted and must be deleted. Because this file contains information of all
# past processed log files, you will loose old stats if removed. So you can
# ask AWStats to save last non corrupted file in a .bak file. This file is
# stored in "DirData" directory with other 'historic files'.
# Possible values: 0 or 1
# Default: 0
#
KeepBackupOfHistoricFiles=0
```

---

## **DefaultFile**

**Version : 1.0 + (5.0 + can accept several values)**

```
# Default index page name for your web server.
# Example: "default.htm default.html"
# Default: "index.html"
#
DefaultFile="index.html"
```

---

## **SkipHosts**

**Version : 1.0 +**

```
# Do not include access from clients that match following criteria.
# If your log file contains IP adresses in host field, you must enter here
# matching IP addresses criteria.
# If DNS lookup is already done in your log file, you must enter here hostname
# criteria, else enter ip address criteria.
# The opposite parameter of "SkipHosts" is "OnlyHosts".
# Note: Use space between each value.
# Note: ^xxx means hosts starting with xxx.
# Note: xxx$ means hosts ending with xxx.
# Example: "^127.0.0.1$ ^163.84."
# Example: "localhost abcxyz"
# Default: ""
#
```

SkipHosts=""

---

## **SkipUserAgents**

**Version : 5.1 +**

# Do not include access from clients with a user agent that match following  
# criteria. If you want to exclude a robot, you should update the robots.pm  
# file instead of this parameter.  
# Note: Use space between each value. This parameter is not case sensitive.  
# Example: "konqueror"  
# Default: ""  
#  
SkipUserAgents=""

---

## **SkipFiles**

**Version : 1.0 +**

# Use SkipFiles to ignore access to URLs that match one of following entries.  
# You can, with this option, add a list of not important frame pages (like  
# menus, etc...) to exclude them from statistics.  
# For example, to ignore a whole directory tree, just add "directorytoignore",  
# to ignore "users" pages in your stats, you can add "/~".  
# The opposite parameter of "SkipFiles" is "OnlyFiles".  
# Note: This parameter is not case sensitive.  
# Note: Use space between each value and do not remove default values.  
# Note: ^xxx means url starting with xxx.  
# Note: xxx\$ means url ending with xxx.  
# Example: "robots.txt\$ favicon.ico\$ badpage.html /~"  
# Default: "robots.txt\$ favicon.ico\$"  
#  
SkipFiles="robots.txt\$ favicon.ico\$"

---

## **OnlyHosts**

**Version : 5.2 +**

# Include in stats, only accesses from hosts that match one of following  
# entries. For example, if you want AWStats to filter access to keep only  
# stats for visits from particular hosts, you can add those hosts names  
# in this parameter.  
# If DNS lookup is already done in your log file, you must enter here hostname  
# criteria, else enter ip address criteria.  
# The opposite parameter of "OnlyHosts" is "SkipHosts".  
# Note: This parameter is not case sensitive.  
# Note: Use space between each value.  
# Note: ^xxx means hosts starting with xxx.  
# Note: xxx\$ means hosts ending with xxx.  
# Example: "^123.123.123.123\$ ^10.0."  
# Default: ""  
#  
OnlyHosts=""

---

## OnlyFiles

Version : 3.0 +

```
# Include in stats, only accesses to URLs that match one of following entries.
# For example, if you want AWStats to filter access to keep only stats that
# match a particular string, like a particular directory, you can add this
# directory name in this parameter.
# The opposite parameter of "OnlyFiles" is "SkipFiles".
# Note: This parameter is not case sensitive.
# Note: Use space between each value and do not remove default values
# Note: ^xxx means url starting with xxx.
# Note: xxx$ means url ending with xxx.
# Example: "marketing_directory"
# Default: ""
#
OnlyFiles=""
```

---

## NotPageList

Version : 3.2 +

```
# Add here a list of kind of url (file extension) that must be counted as
# "Hit only" and not as a "Hit" and "Page/Download". You can set here all
# images extensions as they are hit downloaded that must be counted but they
# are not viewed pages. URLs with such extensions are not included in the TOP
# Pages/URL report.
# Note: If you want to exclude your own URLs from stats (No Pages and no Hits
# reported), you should use SkipFiles parameter instead.
# Example: ""
# Example: "css js class gif jpg jpeg png bmp zip arj gz z wav mp3 wma mpg"
# Default: "css js class gif jpg jpeg png bmp"
#
NotPageList="css js class gif jpg jpeg png bmp"
```

---

## ValidHTTPCodes

Version : 4.0 +

```
# By default, AWStats considers that records found in log file are successful
# hits if HTTP code returned by server is a valid HTTP code (200 and 304).
# Any other code are reported in HTTP error chart.
# However in some specific environment, with web server HTTP redirection,
# you can choose to also accept other codes.
# Example: "200 304 302 305"
# Default: "200 304"
#
ValidHTTPCodes="200 304"
```

This is examples of current HTTP codes

```
#[Miscellaneous successes]
"2xx", "[Miscellaneous successes]",
"200", "OK", # HTTP request OK
"201", "Created",
"202", "Request recorded, will be executed later",
"203", "Non-authoritative information",
```

"204", "Request executed",  
 "205", "Reset document",  
 "206", "Partial Content",  
 #[Miscellaneous redirections]  
 "3xx", "[Miscellaneous redirections]",  
 "300", "Multiple documents available",  
 "301", "Moved Permanently",  
 "302", "Found",  
 "303", "See other document",  
 "304", "Not Modified since last retrieval", # HTTP request OK  
 "305", "Use proxy",  
 "306", "Switch proxy",  
 "307", "Document moved temporarily",  
 #[Miscellaneous client/user errors]  
 "4xx", "[Miscellaneous client/user errors]",  
 "400", "Bad Request",  
 "401", "Unauthorized",  
 "402", "Payment required",  
 "403", "Forbidden",  
 "404", "Document Not Found",  
 "405", "Method not allowed",  
 "406", "Document not acceptable to client",  
 "407", "Proxy authentication required",  
 "408", "Request Timeout",  
 "409", "Request conflicts with state of resource",  
 "410", "Document gone permanently",  
 "411", "Length required",  
 "412", "Precondition failed",  
 "413", "Request too long",  
 "414", "Requested filename too long",  
 "415", "Unsupported media type",  
 "416", "Requested range not valid",  
 "417", "Failed",  
 #[Miscellaneous server errors]  
 "5xx", "[Miscellaneous server errors]",  
 "500", "Internal server Error",  
 "501", "Not implemented",  
 "502", "Received bad response from real server",  
 "503", "Server busy",  
 "504", "Gateway timeout",  
 "505", "HTTP version not supported",  
 "506", "Redirection failed",  
 #[Unknown]  
 "xxx", "[Unknown]"

---

## ValidSMTPCodes

**Version :** 5.0 +

# By default, AWStats considers that records found in mail log file are  
 # successful mail transfers if code saved in log file is a valid code (1 for  
 # sendmail, 0 for postfix).  
 # Example: "1"  
 # Example: "0"  
 # Default: "1"  
 #



ValidSMTPCodes="1"

---

### **AuthenticatedUsersNotCaseSensitive**

**Version : 5.3 +**

# Some web servers on some Operating systems (IIS–Windows) considers that a  
# login with same value but different case are the same login. To tell AWStats  
# to also considers them as one, set this parameter to 1.  
# Possible values: 0 or 1  
# Default: 0  
#  
AuthenticatedUsersNotCaseSensitive=0

---

### **URLNotCaseSensitive**

**Version : 5.1 +**

# Some web servers on some Operating systems (IIS–Windows) considers that two  
# URLs with same value but different case are the same URL. To tell AWStats to  
# also considers them as one, set this parameter to 1.  
# Possible values: 0 or 1  
# Default: 0  
#  
URLNotCaseSensitive=0

---

### **URLWithAnchor**

**Version : 5.4 +**

# Keep or remove the anchor string you can find in some URLs.  
# Possible values: 0 or 1  
# Default: 0  
#  
URLWithAnchor=0

---

### **URLQuerySeparators**

**Version : 5.2 +**

# In URL links, "?" char is used to add parameter's list in URLs. Syntax is:  
# /mypage.html?param1=value1  
# However, some servers/sites have also others chars to isolate dynamic part of  
# their URLs. You can complete this list with all such characters.  
# Example: "?,,"  
# Default: "?,"  
#  
URLQuerySeparators="?,,"

---

### **URLWithQuery**

**Version : 3.2 +**

# Keep or remove the query string to the URL in the statistics for individual  
# pages. This is primarily used to differentiate between the URLs of dynamic

```
# pages. If set to 1, mypage.html?id=x and mypage.html?id=y are counted as two
# different pages.
# Warning, when set to 1, memory required to run AWStats is dramatically
# increased if you have a lot of changing URLs (for example URLs with a random
# id inside). Such web sites should not set this option to 1 or use seriously
# the next parameter URLWithQueryWithoutFollowingParameters.
# Possible values:
# 0 – URLs are cleaned from the query string (ie: "/mypage.html")
# 1 – Full URL with query string is used (ie: "/mypage.html?p=x
# Default: 0
#
URLWithQuery=0
```

---

## **URLWithQueryWithoutFollowingParameters**

**Version : 5.1 +**

```
# When URLWithQuery is on, you will get the full URL with all parameters in
# URL reports. But among those parameters, sometimes you don't need a
# particular parameter because it does not identify the page or because it's
# a random ID changing for each access even if URL points to same page. In
# such cases, it is highly recommended to ask AWStats to remove such parameters
# from the URL before counting, manipulating and storing it. Enter here list
# of all non wanted parameters. For example if you enter "id", one hit on
# /mypage.cgi?p=abc and /mypage.cgi?p=abc
# will be reported as 2 hits on /mypage.cgi?p=abc
# This parameter is not used when URLWithQuery is 0.
# Example: "PHPSESSID jsessionid"
# Default: ""
#
URLWithQueryWithoutFollowingParameters=""
```

---

## **URLReferrerWithQuery**

**Version : 5.1 +**

```
# Keep or remove the query string to the referrer URL in the statistics for
# external referrer pages. This is used to differentiate between the URLs of
# dynamic referrer pages. If set to 1, mypage.html?id=x and mypage.html?id=y
# are counted as two different referrer pages.
# Possible values:
# 0 – Referrer URLs are cleaned from the query string (ie: "/mypage.html")
# 1 – Full URL with query string is used (ie: "/mypage.html?p=x
# Default: 0
#
URLReferrerWithQuery=0
```

---

## **WarningMessages**

**Version : 1.0 +**

```
# AWStats can detect setup problems or show you important informations to have
# a better use. Keep this to 1, except if AWStats says you can change it.
# Possible values: 0 or 1
# Default: 1
#
```

WarningMessages=1

---

## ErrorMessages

**Version : 5.2 +**

# When an error occurs, AWStats output a message related to errors. If you  
# want (in most cases for security reasons) to have no error messages, you  
# can set this parameter to your personalized generic message.  
# Example: "An error occurred. Contact your Administrator"  
# Default: ""  
#  
ErrorMessage=""

---

## DebugMessages

**Version : 5.2 +**

# AWStat can be run with debug=x parameter to output various informations  
# to help in debugging or solving troubles. If you want (in most cases for  
# security reasons) to disable debugging, set this parameter to 0.  
# Possible values: 0 or 1  
# Default: 1  
#  
DebugMessages=1

---

## NbOfLinesForCorruptedLog

**Version : 3.2 +**

# To help you to detect if your log format is good, AWStats report an error  
# if all the first NbOfLinesForCorruptedLog lines have a format that does not  
# match the LogFormat parameter.  
# However, some worm virus attack on your web server can result in a very high  
# number of corrupted lines in your log. So if you experience awstats stop  
# because of bad virus records at the beginning of your log file, you can  
# increase this parameter (very rare).  
# Default: 50  
#  
NbOfLinesForCorruptedLog=50

---

## SplitSearchString

**Version : 2.24 – 4.0 (deprecated since 4.1)**

AWStats 4.1+ supports both keywords AND keyphrases by default with no need of any parameter.

# Search engines keywords reported are full search string or separate keywords  
# Possible values:  
# 0 – Search keywords reported are full search string (ie: "town maps")  
# 1 – Search keywords reported are separated words (ie: "town" and "maps")  
# Default: 0  
#  
SplitSearchString=0

---

## **WrapperScript**

**Version : 4.0 +**

```
# For some particular integration needs, you may want to have CGI links to
# point to another script than awstats.pl.
# Use the name of this script in WrapperScript parameter.
# Example: "awstatslauncher.pl"
# Default: ""
#
WrapperScript=""
```

---

## **DecodeUA**

**Version : 5.0 +**

```
# DecodeUA must be set to 1 if you use Roxen web server. This server converts
# all spaces in user agent field into %20. This make the AWStats robots, os
# and browsers detection fail in some cases. Just change it to 1 if and only
# if your web server is Roxen.
# Possible values: 0 or 1
# Default: 0
#
DecodeUA=0
```

---

## **LevelFor**

**Version : 4.0 +**

```
# Following values allows you to disable/enable some AWStats features.
# Possible values: 0, 1 (or 2 for LevelForRobotsDetection)
# Default: 1 (2 for LevelForRobotsDetection)
#
LevelForRobotsDetection=2 # 0 will increase AWStats speed by 1%.
LevelForBrowsersDetection=1 # 0 disables Browsers detection. No speed gain.
LevelForOSDetection=1 # 0 disables OS detection. No speed gain.
LevelForRefererAnalyze=1 # 0 will increase AWStats speed by 5%.
```

---

## **UseFramesWhenCGI**

**Version : 5.0 +**

```
# When you use AWStats as a CGI, you can have the reports shown in HTML views.
# Frames are only available for report viewed dynamically. When you build
# pages from command line, this option is not used and no frames are built.
# Possible values: 0 or 1
# Default: 1
#
UseFramesWhenCGI=1
```

---

## **DetailedReportsOnNewWindows**

**Version : 4.1 + (5.0 + for value 2)**

```
# This parameter ask your browser to open detailed reports into a different
# window than the main page.
# Possible values:
```

# 0 – Open all in same browser window  
# 1 – Open detailed reports in another window except if using frames  
# 2 – Open always in a different window even if reports are framed  
# Default: 1  
#  
DetailedReportsOnNewWindows=1

---

## **Expires**

**Version : 3.1 +**

# You can add in the HTML report page a delay to force browsers to not use cache  
# if page is loaded a second time after this delay (in seconds).  
# This parameter is not used when report are built with –staticlinks option.  
# Example: 3600  
# Default: 0  
#  
Expires=0

---

## **MaxRowsInHTMLOutput**

**Version : 4.0 +**

# To avoid too large web pages, you can ask AWStats to limit number of rows of  
# all reported charts to this number when no other limit apply.  
# Default: 1000  
#  
MaxRowsInHTMLOutput=1000

---

## **Lang**

**Version : 2.1 +**

# Set your primary language.  
# Possible value:  
# Albanian=al, Bosnian=ba, Bulgarian=bg,  
# Chinese (Taiwan)=tw, Chinese (Traditional)=cn, Czech=cz,  
# Danish=dk, Dutch=nl, English=en, Finnish=fi, French=fr, German=de,  
# Greek=gr, Hungarian=hu, Indonesian=id, Italian=it, Japanese=jp, Korean=kr,  
# Latvian=lv, Norwegian (Nynorsk)=nn, Norwegian (Bokmal)=nb, Polish=pl,  
# Portuguese=pt, Portuguese (Brazilian)=br, Romanian=ro, Russian=ru,  
# Slovak=sk, Spanish=es, Spanish (Catalan)=es\_cat, Swedish=se, Turkish=tr,  
# Ukrainian=ua, Welsh=wlk  
# Default: "en"  
#  
Lang="en"

---

## **DirLang**

**Version : 2.1 +**

# Set the location of language files.  
# Example: "/opt/awstats/lang"  
# Default: "./lang" (means lang directory is in same location than awstats.pl)  
#  
DirLang="./lang"

---

## Show...

### Version :

3.2 for ShowHeader, ShowMenu, ShowMonthDayStats, ShowDaysOfWeekStats, ShowHoursStats,  
ShowDomainsStats, ShowHostsStats, ShowAuthenticatedUsers, ShowRobotsStats,  
ShowPagesStats, ShowFileTypesStats, ShowFileSizesStats, ShowBrowsersStats,  
ShowOSStats, ShowOriginStats, ShowKeyphrasesStats, ShowKeywordsStats, ShowHTTPErrorsStats  
3.2 – 5.0 for ShowCompressionStats (deprecated since 5.1, use code C with ShowFileTypesStats instead)  
4.1 for ShowSessionsStats, ShowKeywordsStats  
5.1 for all letters codes

# You choose here which reports you want to see in the main page and what you  
# want to see in those reports.

# Possible values:

# 0 – Topic is not shown at all

# 1 – Report is shown with default informations

# XYZ – Report is shown with only informations defined by code X,Y,Z

# X,Y,Z are code letters among the following:

# U = Unique visitors

# V = Visits

# P = Number of pages

# H = Number of hits

# B = Bandwith

# L = Last access date

# E = Entry pages

# X = Exit pages

# C = Web compression (mod\_gzip)

# M = Average mail size (mail logs)

#

# Show AWStats head title and icon

# Default: 1, Possible codes: None

ShowHeader=1

# Show menu header with links on detailed reports

# Default: 1, Possible codes: None

ShowMenu=1

# Show monthly and daily chart

# Default: UVPHB, Possible codes: UVPHB

ShowMonthDayStats=UVPHB

# Show days of week chart

# Default: PHB, Possible codes: PHB

ShowDaysOfWeekStats=PHB

# Show hourly chart

# Default: PHB, Possible codes: PHB

ShowHoursStats=PHB

# Show domains/country chart

# Default: PHB, Possible codes: PHB

ShowDomainsStats=PHB

# Show hosts chart

# Default: PHBL, Possible codes: PHBL

ShowHostsStats=PHBL

# Show authenticated users chart

# Default: 0, Possible codes: PHBL

ShowAuthenticatedUsers=0

# Show robots chart

# Default: HBL, Possible codes: HBL

```

ShowRobotsStats=HBL
# Show EMail senders chart (For use when analyzing mail log files)
# Default: 0, Possible codes: HBML
ShowEMailSenders=0
# Show EMail receiver chart (For use when analyzing mail log files)
# Default: 0, Possible codes: HBML
ShowEMailReceivers=0
# Show session chart
# Default: 1, Possible codes: None
ShowSessionsStats=1
# Show pages-url chart.
# Default: PBEX, Possible codes: PBEX
ShowPagesStats=PBEX
# Show file types chart.
# Default: HB, Possible codes: HBC
ShowFileTypesStats=HB
# Show file size chart (Not yet available)
# Default: 1, Possible codes: None
ShowFileSizesStats=0
# Show browsers chart
# Default: 1, Possible codes: None
ShowBrowsersStats=1
# Show Operating systems chart
# Default: 1, Possible codes: None
ShowOSStats=1
# Show Origin chart
# Default: PH, Possible codes: HB
ShowOriginStats=PH
# Show keyphrases chart
# Default: 1, Possible codes: None
ShowKeyphrasesStats=1
# Show keywords chart
# Default: 1, Possible codes: None
ShowKeywordsStats=1
# Show HTTP errors chart
# Default: 1, Possible codes: None
ShowHTTPErrorsStats=1

```

---

## Max...

**Version :** 1.0 +

```

# This value can be used to choose maximum number of lines shown for each
# particular reporting.
#
# Stats by domains
MaxNbOfDomain = 10
# Stats by hosts
MaxNbOfHostsShown = 10
MinHitHost = 1
# Stats by authenticated users
MaxNbOfLoginShown = 10
MinHitLogin = 1
# Stats by robots
MaxNbOfRobotShown = 10
MinHitRobot = 1

```

```
# Stats by pages
MaxNbOfPageShown = 10
MinHitFile = 1
# Stats by referers
MaxNbOfRefererShown = 10
MinHitRefer = 1
# Stats for keywords
MaxNbOfKeywordsShown = 10
MinHitKeyword = 1
# Stats for emails
MaxNbOfEMailsShown = 20
MinHitEMail = 1
```

---

## **FirstDayOfWeek**

**Version : 3.2 +**

```
# Choose if you want week to start on sunday or monday
# Possible values:
# 0 – Week start on sunday
# 1 – Week start on monday
# Default: 1
#
FirstDayOfWeek=1
```

---

## **ShowFlagLinks**

**Version : 3.2 +**

```
# List of visible flags with link to other language translations.
# See Lang parameter for list of allowed flag/language codes.
# If you don't want any flag link, set ShowFlagLinks to "".
# This parameter is used only if ShowHeader parameter is set to 1.
# Possible values: "" or "language_codes_separated_by_space"
# Default: "en es fr it nl es"
#
ShowFlagLinks="en fr de it nl es"
```

---

## **ShowLinksOnUrl**

**Version : 3.1 +**

```
# Each URL shown in stats report views are links you can click.
# Possible values: 0 or 1
# Default: 1
#
ShowLinksOnUrl=1
```

---

## **MaxLengthOfURL**

**Version : 1.0 +**

```
# Maximum length of URL shown on stats page (number of characters). This
# affects only URL visible text, larger links still work.
# Default: 72
#
```



### **ShowLinksToWhoIs**

**Version : 4.0 +**

```
# AWStats can include a link to WhoIs database on all hostnames/ip. For this, you
# must set ShowLinksToWhoIs to 1. Warning, a such feature depends on two next
# parameter (LinksToWhoIs and LinksToIPWhoIs) and on WhoIs server
# exhaustivity and availability.
# For this reason, this feature can't be a reliable feature.
# Possible values: 0 or 1
# Default: 0
#
ShowLinksToWhoIs=0
```

---

### **LinksToWhoIs**

**Version : 4.0 +**

```
# Set here the link used to point to Internet WhoIs database for hostnames.
# This parameter is not used if ShowLinksToWhoIs is 0.
# Default: "http://www.whois.net/search.cgi2?str="
# Example: "http://www.netsol.com/cgi-bin/whois/whois?SearchType=all
# Example: "http://www.ripe.net/perl/whois?form_type=simple
# Example: "http://www.arin.net/cgi-bin/whois.pl?queryinput="
#
LinksToWhoIs="http://www.whois.net/search.cgi2?str="
```

---

### **LinksToIPWhoIs**

**Version : 5.0 +**

```
# Set here the link used to point to Internet WhoIs database for ip addresses.
# This parameter is not used if ShowLinksToWhoIs is 0.
# Default: "http://ws.arin.net/cgi-bin/whois.pl?queryinput="
# Example: "http://ws.arin.net/cgi-bin/whois.pl?queryinput="
#
LinksToIPWhoIs="http://ws.arin.net/cgi-bin/whois.pl?queryinput="
```

---

### **HTMLHeadSection**

**Version : 3.2 +**

```
# You can enter HTML code that will be added at the top of AWStats reports.
# Default: ""
#
HTMLHeadSection=""
```

---

### **HTMLEndSection**

**Version : 3.2 +**

```
# You can enter HTML code that will be added at the end of AWStats reports.
# Great to add advert ban.
```

```
# Default: ""
#
HTMLEndSection=""
```

---

### **Bar...**

**Version : 1.0 +**

```
# Value of maximum bar width/height for horizontal/vertical graphics bar
# Default: 260/90
#
BarWidth = 260
BarHeight = 90
```

---

### **Logo...**

**Version : 3.1 +**

```
# You can set Logo and LogoLink to use your own logo.
# Logo must be the name of image file (must be in $DirIcons/other directory).
# LogoLink is the expected URL when clicking on Logo.
# Default: "awstats_logo1.png"
#
Logo="awstats_logo1.png"
LogoLink="http://awstats.sourceforge.net"
```

---

### **StyleSheet**

**Version : 4.0 +**

```
# You can ask AWStats to use a particular CSS (Cascading Style Sheet) to
# change its look.
# Example: "/css/awstats.css"
# Default: ""
#
StyleSheet=""
```

---

### **color\_...**

**Version :**

```
3.1 for color_Background,color_TableBGTitle,color_TableTitle,color_TableBG,
color_TableRowTitle,color_TableBGRowTitle,color_TableBorder,color_text,
color_textpercent,color_titletext,color_weekend,color_link,color_hover, color_u,color_v,color_p,color_h,color_k,color_s
4.1 for color_e,color_x
5.0 for color_other
```

```
# Those colors parameters can be used (if StyleSheet parameter is not used)
# to change AWStats look.
# Example: color_name="RRGGBB" # RRGGBB is Red Green Blue components in Hex
#
color_Background="FFFFFF" # Background color for main page (Default = "FFFFFF")
color_TableBGTitle="CCCCDD" # Background color for table title (Default = "CCCCDD")
color_TableTitle="000000" # Table title font color (Default = "000000")
color_TableBG="CCCCDD" # Background color for table (Default = "CCCCDD")
color_TableRowTitle="FFFFFF" # Table row title font color (Default = "FFFFFF")
color_TableBGRowTitle="ECECEC" # Background color for row title (Default = "ECECEC")
```

```
color_TableBorder="ECECEC" # Table border color (Default = "ECECEC")
color_text="000000" # Color of text (Default = "000000")
color_textpercent="606060" # Color of text for percent values (Default = "606060")
color_titledtext="000000" # Color of text title within colored Title Rows (Default = "000000")
color_weekend="EAEAEA" # Color for week-end days (Default = "EAEAEA")
color_link="0011BB" # Color of HTML links (Default = "0011BB")
color_hover="605040" # Color of HTML on-mouseover links (Default = "605040")
color_other="666688" # Color of text for 'other' record in charts (Default = "666688")
color_u="FFB055" # Background color for number of unique visitors (Default = "FFB055")
color_v="F8E880" # Background color for number of visites (Default = "F8E880")
color_p="4477DD" # Background color for number of pages (Default = "4477DD")
color_h="66F0FF" # Background color for number of hits (Default = "66F0FF")
color_k="2EA495" # Background color for number of bytes (Default = "2EA495")
color_s="8888DD" # Background color for number of search (Default = "8888DD")
color_e="CEC2E8" # Background color for number of entry pages (Default = "CEC2E8")
color_x="C1B2E2" # Background color for number of exit pages (Default = "C1B2E2")
```

---

## LoadPlugin

**Version : 5.0 +**

```
# Add here all plugins file you want to load.
# Plugin files must be .pm files stored in 'plugins' directory.
# Uncomment LoadPlugin lines to enable a plugin after checking that plugin
# required perl modules are installed.
```

```
# Plugin: PluginName
# PluginName description
# Perl modules required: ...
#
LoadPlugin="pluginname"
```

---

## Extra...

**Version : 5.2 +**

```
# You can define your own charts, you choose here what are rows and columns
# keys. This feature is particularly usefull for marketing purpose, tracking
# products orders for example.
# For this, edit all parameters of Extra section. Each set of parameter is a
# different chart. For several charts, duplicate section changing the number.
# Note that each Extra section reduces AWStats speed by 10%.
#
# WARNING: A wrong setup of Extra section can result in a too large arrays
# that will consume all your memory, making AWStats unusable after several
# updates, so be sure to setup it correctly.
# In most cases, you don't need this feature.
#
# ExtraSectionNameX is title of your personalized chart.
# ExtraSectionConditionalX are conditions on URL and/or QUERY_STRING and/or
# REFERER you can use to count or not the hit. Use "|" for "OR".
# ExtraSectionFirstColumnNameX is the first column title of the chart.
# ExtraSectionFirstColumnValuesX is a Regex string to tell AWStats how to
# extract the value used for first column. Each different value found will
# be a different row. Be sure that list of different values is "limited" to
# avoid "not enough memory" problems !
```

```
# ExtraSectionStatTypesX are things you want to count. You can use standard
# code letters (P for pages,H for hits,B for bandwidth,L for last access).
# MaxNbOfExtraX is maximum number of rows shown in chart.
# MinHitExtraX is minimum number of hits required to be shown in chart.
#
```

```
# Example to report the 20 products the most ordered by "order.cgi" script
ExtraSectionName1="Product orders"
ExtraSectionCondition1="URL,/cgi-bin/order.cgi"
ExtraSectionFirstColumnTitle1="Product ID"
ExtraSectionFirstColumnValues1="QUERY_STRING,productid=(^[^&]+)"
ExtraSectionStatTypes1=PL
MaxNbOfExtra1=20
MinHitExtra1=1
```

---

## **#include**

**Version : 5.1 +**

```
# You can include other config files using the directive with the name of the
# config file (like Apache, so you must keep the '#' before 'include').
# This is particularly usefull for users who have a lot of virtual servers, so
# a lot of config files and want to maintain common values in only one file.
# Note that when a variable is defined both in a config file and in an
# included file, AWStats will use the last value read.
#
#include ""
```

---



## Other tools

This is a list of other tools provided with AWStats.  
All those tools are available in **tools** directory of AWStats distribution.

### **configure.pl**

This script creates one config file for each web servers provided by Apache.  
After running this tool, AWStats can immediatly be used.

This tool is not yet available...

### **awstats\_updateall.pl**

awstats\_updateall launches update process for all AWStats config files found in a particular directory, so you can easily setup a cron/scheduler job.  
This directory is by default /etc/opt/awstats.

Usage: awstats\_updateall.pl now [options]

Where options are:

—awstatsprog=pathtoawstatspl  
—confdir=confdirtoscan

### **awstats\_buildstaticpages.pl**

awstats\_buildstaticpages allows you to launch AWStats with —staticlinks option to build all possible pages allowed by AWStats —output option.

Usage:

awstats\_buildstaticpages.pl (awstats\_options) [awstatsbuildstaticpages\_options]

where awstats\_options are any option known by AWStats

- config=configvalue is value for –config parameter (REQUIRED)
- update option used to update statistics before to generate pages
- lang=LL to output a HTML report in language LL (en,de,es,fr,...)
- month=MM to output a HTML report for an old month=MM
- year=YYYY to output a HTML report for an old year=YYYY

and awstatsbuildstaticpages\_options can be

- awstatsprog=pathtoawstatspl gives AWStats software (awstats.pl) path
- dir=outputdir to set output directory for generated pages
- date used to add build date in built pages file name

New versions and FAQ at <http://awstats.sourceforge.net>

## **urlaliasbuilder.pl**

Urlaliasbuilder generates an 'urlalias' file from an input file.

The input file must contain a list of URLs (It can be an AWStats history file).

For each of those URLs, the script get the corresponding HTML page and catch the header information (title), then it writes an output file that contains one line for each URLs and several fields:

- The first field is the URL,
- The second is title caught from web page.

This resulting file can be used by AWStats urlalias plugin.

Usage: urlaliasbuilder.pl –server=www.myserver.com [options]

The server parameter contains the web server to get the page from.

Where options are:

- urllistfile=Input urllist file

If this file is an AWStats history file then urlaliasbuilder will use the SIDER section of this file as its input URL's list.

- urlaliasfile=Output urlalias file to build

- overwrite

Example: urlaliasbuilder.pl –server=www.someotherhost.com

New versions and FAQ at <http://awstats.sourceforge.net>

This script was written from simonjw original works title–grabber.pl.

## **logresolvemerge.pl**

logresolvemerge allows you to merge several log files into one output, sorted on date. It also makes a fast reverse DNS lookup to replace all IP addresses into host names in resulting log file.

logresolvemerge comes with ABSOLUTELY NO WARRANTY. It's a free software distributed with a GNU General Public License (See COPYING.txt file).

logresolvemerge is part of AWStats but can be used alone as a log merger

or resolver before using any other log analyzer.

Usage:

```
logresolvemerge.pl [options] file  
logresolvemerge.pl [options] file1 ... fileN  
logresolvemerge.pl [options] *.*
```

Options:

```
-dnslookup make a reverse DNS lookup on IP addresses (not done by default)  
-showsteps to add benchmark informations every 5000 lines processed
```

This runs logresolvemerge in command line to open one or several web server log files to merge them (sorted on date) and/or to make a reverse DNS lookup. The result log file is sent on standard output.

Note: logresolvemerge is not a 'sort' tool to sort one file. It's a software able to output sorted log records (with a reverse DNS lookup made if wanted) even if log records are shaked in several files. However each of those files must be already independently sorted itself (but that is the case in all web server log files).

logresolvemerge is particularly usefull when you want to merge large log files in a fast process and with a low use of memory getting records in a chronological order from a pipe (for use by a log analyzer).

Now supports/detects:

Automatic detection of log format

No need of extra Perl library

New versions and FAQ at <http://awstats.sourceforge.net>

---



# Glossary

**Unique Visitor:**

A unique visitor is a host that has made at least 1 hit on 1 page of your web site during the current period shown by the report. If this host make several visits during this period, it is counted only once.

The period shown by AWStats reports is by default the current month.

However if you use AWStats as a CGI you can click on the "year" link to have a report for all the year. In a such report, period is full year, so Unique Visitors are number of hosts that have made at least 1 hit on 1 page of your web site during those year.

**Visits:**

Number of visits made by all visitors.

Think "session" here, say a unique IP accesses a page, and then requests three others without an hour between any of the requests, all of the "pages" are included in the visit, therefore you should expect multiple pages per visit and multiple visits per unique visitor (assuming that some of the unique IPs are logged with more than an hour between requests)

**Pages:**

The number of "pages" logged. Only files that don't match an entry in the NotPageList config parameter (and match an entry of OnlyFiles config parameter if used) are counted as "Pages". Usually pages are reserved for HTML files or CGI files, not images nor other files requested as a result of loading a "Page" (like js,css... files).

**Hits:**

Any files requested from the server (including files that are "Pages") except those that match the SkipFiles config parameter.

**Bandwidth:**

Total number of bytes downloaded.

**Entry Page:**

First page viewed by a visitor during its visit.

Note: When a visit started at end of month to end at beginning of next month, you might have an Entry page for the month report and no Exit pages.

That's why Entry pages can be different than Exit pages.

**Exit Page:**

Last page viewed by a visitor during its visit.

Note: When a visit started at end of month to end at beginning of next month, you might have an Entry page for the month report and no Exit pages.

That's why Entry pages can be different than Exit pages.

**Session Duration:**

The time a visitor spent on your site for each visit.

Some Visits durations are 'unknown' because they can't always be calculated. This is the major reason for this:

- Visit was not finished when 'update' occurred.
- Visit started the last hour (after 23:00) of the last day of a month (A technical reason prevents AWStats from calculating duration of such sessions).

**Grabber:**

A browser that is used primarily for copying locally an entire site. These include for example "teleport", "webcapture",







# Frequently Asked Questions + Troubleshooting

## ABOUT QUESTIONS:

- FAQ-ABO100 [Which server log files or operating systems are supported ?](#)
- FAQ-ABO150 [Which log format can AWStats analyze ?](#)
- FAQ-ABO200 [Which languages are available ?](#)
- FAQ-ABO250 [Can AWStats be integrated with PHP Nuke ?](#)

## SETUP or ERROR QUESTIONS:

Here, you can find the most common questions and answers users have to install/setup AWStats.

- FAQ-SET025 [How to use AWStats with no server log](#)
- FAQ-SET050 [Error "Missing \\$ on loop variable ..."](#)
- FAQ-SET100 [I see Perl script's source instead of its execution in my browser.](#)
- FAQ-SET150 [Error "...couldn't create/spawn child process..." with Apache for windows.](#)
- FAQ-SET200 ["Internal Error" or "Error 500" in a browser connecting to Apache.](#)
- FAQ-SET210 ["Internal Error" after a long time in my browser \(See FAQ-COM100 "AWStats speed/timeout problems"\).](#)
- FAQ-SET220 [Crash while running awstats.pl or page content only partially loaded](#)
- FAQ-SET250 [Log format setup or errors.](#)
- FAQ-SET260 [Setup for FTP server log files.](#)
- FAQ-SET270 [Setup for MAIL log files \(Sendmail, Postfix, Exchange\).](#)
- FAQ-SET272 [Setup for WINDOWS MEDIA SERVER log files.](#)
- FAQ-SET280 [Error "Not same number of records of..."](#)
- FAQ-SET300 [Error "Couldn't open file ..."](#)
- FAQ-SET350 [Empty or null statistics reported.](#)
- FAQ-SET400 [Pipe redirection to a file give me an empty file.](#)
- FAQ-SET450 [No pictures/graphics shown.](#)
- FAQ-SET500 [How to rotate my logs without losing data.](#)
- FAQ-SET550 [How to run AWStats frequently ?](#)
- FAQ-SET600 [How to exclude my IP address \(or whole subnet mask\) from stats ?](#)
- FAQ-SET700 [My visits are doubled for old month I migrated from 3.2 to 5.x](#)

## COMMON SUPPORT QUESTIONS:

Here, you can find the most common questions and answers users have when using AWStats.

- FAQ-COM100 [AWStats speed/timeout problems.](#)
- FAQ-COM150 [Benchmark question.](#)
- FAQ-COM200 [How reverse DNS Lookup works, unresolved IP Addresses ?](#)
- FAQ-COM250 [Different results than other log analyzers \(Analog, Webalizer, WUsage, wwwStats...\).](#)
- FAQ-COM300 [Difference between local hour and AWStats reported hour.](#)
- FAQ-COM350 [How can I process old log file ?](#)
- FAQ-COM400 [How can I update my statistics when I use a load balancing system that splits my logs ?](#)
- FAQ-COM500 [How can I reset all my statistics ?](#)
- FAQ-COM550 [Can I safely remove a line in AWStats history files \(awstatsMMYYYY\\*.txt\) ?](#)

## SECURITY QUESTIONS:

Here, you can find the common questions about security problems when setting or using AWStats.

FAQ-SEC100 [Can AWStats be used to make Cross Site Scripting Attacks ?](#)  
FAQ-SEC150 [How can I prevent some users to see statistics of other users ?](#)  
FAQ-SEC200 [How to manage log files \(and statistics\) corrupted by worms attacks like 'Code Red Virus like'.](#)

---

### **FAQ-ABO100 : WHICH SERVER LOG FILES OR OS ARE SUPPORTED ?**

AWStats can works with :

- All web server able to write log file with a combined log format (XLF/ELF) like Apache, a common log format (CLF) like Apache or Squid, a W3C log format like IIS 5.0 or higher, or any other log format that contains all information AWStats expect to find.

- Most of all others Web/Wap/Proxy/Streaming servers.

- Some FTP, Syslog or Mail log files.

Because AWStats is in Perl, it can works on all Operating Systems.

Examples of used platforms (bold means 'tested by author', others were reported by AWStats users to work correctly) :

OS:

**Windows 2000, Windows NT 4.0**, Windows Me, **Linux**, Macintosh, **Solaris, Aix**, BeOS, ...

Web/Wap/Proxy/FTP/Mails/Streaming servers

**Apache 1.3.x and 2, IIS 5.0**, WebStar, WebLogic, WebSite, **Windows Media Server**, Tomcat, **Squid, Sendmail, Postfix**, Roxen, Resin, **ProFTP**, Lotus Notes/Domino, IPlanet, IceCast, Zope, ZeroBrand, www4mail, ...

Perl interpreters:

**ActivePerl 5.6, Perl 5.8, Perl 5.6, Perl 5.0, mod\_perl for Apache**, ...

### **FAQ-ABO150 : WHICH LOG FORMAT CAN AWSTATS ANALYZE ?**

AWStats setup knows predefined log format you can use to make AWStats config easier. However, you can define your own log format, that's the reason why AWStats can analyze nearly all web, wap and proxy server log files. Some FTP servers log files, Syslog or mail logs can also be analyzed.

The only requirement is "Your log file must contain required information".

This is example of possible log format:

*Apache combined log format (known as NCSA combined log format or XLF or ELF format)*

*IIS 5.0+ log format (known as W3C format)*

*Webstar native log format*

*Windows Media Server*

*ProFTP server*

*A lot of web/wap/proxy/streaming servers log format*

*Apache common log format (AWStats can now analyze such log files but such log files does not contain all information AWStats is looking for. The problem is in the content, not in the format). I think analyzing common log files is not interesting because there is a lot of missing information: no way to filter robots, find search engines, keywords, os, browser. But a lot of users asked me for it, so AWStats support it. However, a lot of interesting advanced features can't work: browsers, os's, keywords, robot detection...).*

See also [F.A.Q.: LOG FORMAT SETUP OR ERRORS](#) .

### **FAQ-ABO200 : WHICH LANGUAGES ARE AVAILABLE ?**

AWStats can make reports in 33 languages. This is a list of all of them, for last version, in alphabetical order (with the code you can use for [Lang](#) and [ShowFlagLinks](#) parameter) :

Albanian=al, Bosnian=ba, Bulgarian=bg, Chinese (Taiwan)=tw, Chinese (Traditional)=cn, Czech=cz, Danish=dk, Dutch=nl, English=en, Finnish=fi, French=fr, German=de, Greek=gr, Hungarian=hu, Indonesian=id, Italian=it, Japanese=jp, Korean=kr, Latvian=lv, Norwegian (Nynorsk)=nn, Norwegian (Bokmal)=nb, Polish=pl, Portuguese=pt, Portuguese (Brazilian)=br, Romanian=ro, Russian=ru, Slovak=sk, Spanish=es, Spanish (Catalan)=es\_cat, Swedish=se, Turkish=tr, Ukrainian=ua, Welsh=wlk

However, AWStats documentation is only provided in English.

But, you can find some documentation made by contributors:

### **FAQ-ABO250 : CAN AWSTATS BE INTEGRATED WITH PHP NUKE ?**

I don't know any plan to make an Add-On for PHPNuke to include AWStats, for the moment. But this can change. You should ask to have a such Add-On to PHPNuke authors, and on PHPNuke forums.

---

### **FAQ-SET025 : HOW TO USE AWSTATS WITH NO SERVER LOG FILE**

#### **PROBLEM:**

I want to have AWStats statistics but i have no access to my server log file.

#### **SOLUTION:**

Because AWStats is a log analyzer, if you don't have any way to read your server log file, you have nothing to analyze and you can't use AWStats.

### **FAQ-SET050 : ERROR "MISSING \$ ON LOOP VARIABLE ..."**

#### **PROBLEM:**

When I run awstats.pl from command line, I get:

*"Missing \$ on loop variable at awstats.pl line xxx"*

#### **SOLUTION:**

Problem is in your Perl interpreter. Try to install or reinstall a more recent/stable Perl interpreter.

You can get new Perl version at [ActivePerl](#) (Win32) or [Perl.com](#) (Unix/Linux/Other).

### **FAQ-SET100 : I SEE PERL SCRIPT'S SOURCE INSTEAD OF ITS EXECUTION**

#### **PROBLEM:**

When I try to execute the Perl script through the web server, I see the Perl script's source instead of the HTML result page of its execution !

#### **SOLUTION:**

This is not a problem of AWStats but a problem in your web server setup. awstats.pl file must be in a directory defined in your web server to be a "cgi" directory, this means, a directory configured in your web server to contain "executable" files and not to documents files. You have to read your web server manual to know how to setup a directory to be an "executable cgi" directory (With IIS, you have some checkbox to check in directory properties, with Apache you have to use the "ExecCGI" option in the directory "Directive").

### **FAQ-SET150 : INTERNAL ERROR 500 IN MY BROWSER**

### **FAQ-SET200 : ERROR "... COULDN'T CREATE/SPAWN CHILD PROCESS..."**

#### **PROBLEM:**

AWStats seems to run fine at the command prompt but when ran as a CGI from a browser, I get an *"Internal Error 500"*.

I also also might have the following message in my Apache error log file (or in browser with Apache 2.0+):

*...couldn't create/spawn child process: c:/mywebroot/cgi-bin/awstats.pl*

#### **SOLUTION:**

First, try to run awstats.pl from command line to see if file is correct. If you get some syntax errors and use a Unix like OS, check if your file is a Unix like text file (This means each line end with a LF char and not a CR+LF char).

If awstats.pl file runs correctly from command line, this is probably because your web server is not able to known how to run perl scripts. This problem can occur with Apache web servers with no internal Perl interpreter (mod\_perl not active). To solve this, you must tell Apache where is your external Perl interpreter.

For this, you have 2 solutions:

1) Add the following directive in your Apache **httpd.conf** config (or remove the # to uncomment it if line is already available)

***ScriptInterpreterSource registry***

Then restart Apache. This will tell Apache to look into the registry to find the program associated to .pl extension.

2) Other solution (not necessary if first solution works): Change the first line of awstats.pl file with the full path of your Perl interpreter.

Example with Windows OS and ActivePerl Perl interpreter (installed in C:\Program Files\ActiveState\ActivePerl), you must change the first line of awstats.pl file with:

```
#!c:/program files/activestate/activeperl/bin/perl
```

## **FAQ-SET220 : CRASH WHILE RUNNING AWSTATS.PL OR PAGE CONTENT ONLY PARTIALY LOADED ON WINDOWS XP**

### **PROBLEM:**

Sometimes my browser (Most often IE6) crash while running awstats.pl with some AWStats configuration. With some other versions or browsers, page content is partially loaded.

### **SOLUTION:**

Problem was with WinXP and WinXPpro as documented at MS site Q317949;

"Socket Sharing Creates Data Loss When Listen and Accept Occur on Different Processes"

Result was that MSIE would crash or display nothing. Netscape and Opera handled the socket better but displayed the pages partially.

The effect of the bug was more pronounced as the page contents increased(above 30k).

<http://support.microsoft.com/default.aspx?scid=kb;EN-US;q317949>

And also at Apache.org

<http://www.apache.org/dist/httpd/binaries/win32/>

MS produced a Hotfix which is now included in SP1.

## **FAQ-SET250 : LOG FORMAT SETUP OR ERRORS**

### **PROBLEM:**

Which value do I have to put in the LogFormat parameter to make AWStats working with my log file format ?

### **SOLUTION:**

The AWStats config file give you all possible values for LogFormat parameter. To help you, this is some common cases of log file format, and the corresponding value for LogFormat you must use in your AWStats config file:

If your log records are EXACTLY like this (NCSA combined/XLF/ELF log format):

```
62.161.78.73 -- [dd/mm/yy:hh:mm:ss +0x00] "GET /page.html HTTP/1.1" 200 1234 "http://www.from.com/from.htm"
"Mozilla/4.0 (compatible; MSIE 5.01; Windows NT 5.0)"
```

You must use : `LogFormat=1`

This is same than: `LogFormat="%host %other %logname %time1 %methodurl %code %bytesd %refererquot %uaquot"`

If your log records are EXACTLY like this (NCSA combined with several virtualhostname sharing same log file).

```
virtualserver1 62.161.78.73 -- [dd/mm/yy:hh:mm:ss +0x00] "GET /page.html HTTP/1.1" 200 1234
"http://www.from.com/from.htm" "Mozilla/4.0 (compatible; MSIE 5.01; Windows NT 5.0)"
```

You must use : `LogFormat="%virtualname %host %other %logname %time1 %methodurl %code %bytesd %refererquot %uaquot"`

If your log records are EXACTLY like this (NCSA combined with Apache using mod\_gzip format 1):

```
62.161.78.73 -- [dd/mm/yy:hh:mm:ss +0x00] "GET /page.html HTTP/1.1" 200 1234 "http://www.from.com/from.htm"
"Mozilla/4.0 (compatible; MSIE 5.01; Windows NT 5.0)" mod_gzip: 66pct.
```

You must use : `LogFormat="%host %other %logname %time1 %methodurl %code %bytesd %refererquot %uaquot %other %gzipratio"`

If your log records are EXACTLY like this (NCSA combined with Apache using mod\_gzip format 2):

```
62.161.78.73 -- [dd/mm/yy:hh:mm:ss +0x00] "GET /page.html HTTP/1.1" 200 1234 "http://www.from.com/from.htm"
"Mozilla/4.0 (compatible; MSIE 5.01; Windows NT 5.0)" mod_gzip: DECHUNK:OK In:11393 Out:3904:66pct.
```

You must use : `LogFormat="%host %other %logname %time1 %methodurl %code %bytesd %refererquot %uaquot %other %other %gzipin %gzipout"`

If your log records are EXACTLY like this (NCSA common CLF log format):

```
62.161.78.73 -- [dd/mm/yy:hh:mm:ss +0x00] "GET /page.html HTTP/1.1" 200 1234
```

You must use : `LogFormat=4`

Note: Browsers, OS's, Keywords and Referers features are not available with a such format.

If your log records are EXACTLY like this (With some Squid versions, after setting emulate http log to on):

200.135.30.181 – – [dd/mm/yyyy:hh:mm:ss +0x00] "GET http://www.mysite.com/page.html HTTP/1.0" 200 456  
TCP\_CLIENT\_REFRESH\_MISS:DIRECT

You must use : `LogFormat="%host %other %logname %time1 %methodurl %code %bytesd %other"`

If your log records are EXACTLY like this (IIS W3C log format):

yyyy-mm-dd hh:mm:ss 62.161.78.73 – GET /page.html 200 1234 HTTP/1.1

Mozilla/4.0+(compatible;+MSIE+5.01;+Windows+NT+5.0) http://www.from.com/from.html

You must use : `LogFormat=2`

If your log records are EXACTLY like this (IIS W3C log format with some .net servers):

yyyy-mm-dd hh:mm:ss GET /page.html – 62.161.78.73 – Mozilla/4.0+(compatible;+MSIE+5.01;+Windows+NT+5.0)  
http://www.from.com/from.html 200 1234 HTTP/1.1

You must use : `LogFormat="%time2 %method %url %logname %host %other %ua %referer %code %bytesd %other"`

If your log records are EXACTLY like this (With some WebSite versions):

yyyy-mm-dd hh:mm:ss 62.161.78.73 – 192.168.1.1 80 GET /page.html – 200 11205 0 0 HTTP/1.1 mydomain.com

Mozilla/4.0+(compatible;+MSIE+5.5;+Windows+98) – http://www.from.com/from.html

You must use : `LogFormat="%time2 %host %logname %other %other %method %url %other %code %bytesd %other  
%other %other %other %ua %other %referer"`

If your log records are EXACTLY like this (Webstar native log format):

05/21/00 00:17:31 OK 200 212.242.30.6 Mozilla/4.0 (compatible; MSIE 5.0; Windows 98; DigExt) http://www.cover.dk/  
"www.cover.dk" :Documentation:graphics:starninelogo.white.gif 1133

You must use : `LogFormat=3`

If your log records are EXACTLY like this (Lotus Notes/Domino log format):

62.161.78.73 – Name Surname Service [dd/mm/yyyy:hh:mm:ss +0x00] "GET /page.html HTTP/1.1" 200 1234

"http://www.from.com/from.htm" "Mozilla/4.0 (compatible; MSIE 5.01; Windows NT 5.0)"

You must use : `LogFormat=6`

If you use a FTP server like ProFTP:

See [FAQ-SET260](#).

If you want to analyze a mail log file (Sendmail, Exchange):

See [FAQ-SET270](#).

If you use Windows Media Server:

See [FAQ-SET272](#).

If your log records are EXACTLY like this (With some providers):

62.161.78.73 – – [dd/Month/yyyy:hh:mm:ss +0x00] "GET /page.html HTTP/1.1" "-" 200 1234

You must use : `LogFormat="%host %other %logname %time1 %methodurl %other %code %bytesd"`

Note: Browsers, OS's, Keywords and Referers features are not available with a such format.

There is a lot of other possible log formats.

You must use a personalized log format `LogFormat = "..."` as described in config file to support other various log formats.

## **FAQ-SET260 : SETUP FOR FTP SERVER LOG FILES**

PROBLEM:

What do I have to do to use AWStats to analyze some FTP server log files.

SOLUTION:

AWStats was built to analyze web,wap or proxy server's log files. However it can be used with some FTP server log files.

Setup your ProFTP logformat:

Modify the proftpd.conf file to add the following two lines :

`LogFormat awstats "%t %h %u %m %f %s %b" # WARNING: You must use a tab char between % tags and not a space !`

`ExtendedLog /var/log/xferlog read,write awstats # WARNING: ExtendedLog directive might need to be placed inside a virtual host context if you use them.`

Then turn off old format Transfer log:

`TransferLog none # WARNING: TransferLog directive might need to be placed inside a virtual host context if you use them.`

To have the change effective, stop your server, remove old log file /var/log/xferlog and restart the server.

Setup AWStats to analyze those FTP log files:

Copy config awstats.model.conf file to "awstats.proftp.conf".

Modify this new config file:

```

LogFile="/var/log/xferlog"
LogFormat="%time1 %host %logname %method %url %code %bytesd"
LogSeparator="\t"
DNSLookup=0
SkipFiles=""
NotPageList=""
ShowLinksOnUrl=0
ShowHeader=1
ShowMenu=1
ShowMonthDayStats=UVHB
ShowDaysOfWeekStats=HB
ShowHoursStats=HB
ShowDomainsStats=HB
ShowHostsStats=HBL
ShowAuthenticatedUsers=HBL
ShowRobotsStats=1
ShowEMailSenders=0
ShowEMailReceivers=0
ShowSessionsStats=1
ShowPagesStats=PBEX
ShowFileTypesStats=HB
ShowFileSizesStats=0
ShowBrowsersStats=0
ShowOSStats=0
ShowOriginStats=0
ShowKeyphrasesStats=0
ShowKeywordsStats=0
ShowHTTPErrorsStats=0

```

Now you can use AWStats as usual (run the update process and read statistics).

## **FAQ-SET270 : SETUP FOR MAIL LOG FILES (SENDMAIL, POSTFIX, EXCHANGE...)**

### **PROBLEM:**

What do I have to do to use AWStats to analyze my mail log files.

### **SOLUTION:**

#### **For Sendmail or PostFix log files**

1- First, install a mail log convertor like [SMA](#) to use it as a post-processor for AWStats update process.

Setup SMA to convert your mail log into a format readable by AWStats:

Copy sma (or sma.exe) file and sma.conf into same directory than awstats.pl file.

Edit sma.conf to change the CLogFormat and CLogSentOnly parameter to :

```
ClogFormat "%y-%m-%d %h:%n:%s %f %t %F %T SMTP - %S %z"
```

```
ClogSentOnly no
```

To check that your sma config is correct, run the following command:

```
sma -O clog -f /pathtosmaconf/sma.conf /pathtomaillog/maillog > convertedmaillog
```

The resulting convertedmaillog file must have records that match the following format:

```
2001-01-01 05:38:08 sender@mailsender.com receiver@mailreceiver.com hostrelaysender hostrelayreceiver SMTP - 131357
```

Warning: some sma versions (1.3) have been reported to not convert month correctly, giving for example a date like this 2001-#01-01 instead of 2001-01-01. This makes AWStats analyze fails so check your sma output and change version if error.

2- Then setup AWStats to analyze SMA processed mail log:

Copy config awstats.model.conf file to "awstats.mail.conf".

Modify this new config file:

```
LogFile="/pathtosma/sma -O clog -f /pathtosmaconf/sma.conf /pathtomaillog/maillog |"  
LogFormat="%time2 %email %email_r %host %host_r %method %url %code %bytesd"  
DNSLookup=0  
ValidSMTPCodes="1"  
ShowHeader=1  
ShowMenu=1  
ShowMonthDayStats=HB  
ShowDaysOfWeekStats=HB  
ShowHoursStats=HB  
ShowDomainsStats=0  
ShowHostsStats=HBL  
ShowAuthenticatedUsers=0  
ShowRobotsStats=0  
ShowEMailSenders=HBL  
ShowEMailReceivers=HBL  
ShowSessionsStats=0  
ShowPagesStats=0  
ShowFileTypesStats=0  
ShowFileSizesStats=0  
ShowBrowsersStats=0  
ShowOSStats=0  
ShowOriginStats=0  
ShowKeyphrasesStats=0  
ShowKeywordsStats=0  
ShowHTTPErrorsStats=0
```

Now you can use AWStats as usual (run the update process and read statistics).

#### For Exchange log files

If someone can understand the Exchange log format, he can explain it to me at eldy@users.sourceforge.net.

Until this server won't log in a clever way, just forget using AWStats or use a more serious mail server (sendmail, postfix, ...). Sorry.

### **FAQ-SET272 : SETUP FOR WINDOWS MEDIA SERVER**

#### **PROBLEM:**

What do I have to do to use AWStats to analyze my Windows Media Server log files.

#### **SOLUTION:**

Setup your Windows Media Server log format to write the following fields:

```
c-ip  
date  
time  
cs-uri-stem  
c-starttime  
x-duration  
c-rate  
c-status  
c-playerid  
c-playerversion  
c-playerlanguage  
cs(User-Agent)  
cs(Referer)  
c-hostexe  
c-hostexever
```



*c-os  
c-osversion  
c-cpu  
filelength  
filesize  
avgbandwidth  
protocol  
transport  
audiocodec  
videocodec  
channelURL  
sc-bytes*

To have the change effective, stop your server, remove old log files and restart the server.

Listen to streaming files and check that your new log file looks like this:

80.223.91.37 2002-10-08 14:18:58 mmst://mydomain.com/mystream 0 106 1 200

{F4A826EE-FA46-480F-A49B-76786320FC6B} 8.0.0.4477 fi-FI - - wmplayer.exe 8.0.0.4477 Windows\_2000

5.1.0.2600 Pentium 0 0 20702 mms TCP Windows\_Media\_Audio\_9 - - 277721

Then setup AWStats to analyze your Media Server log:

Copy config awstats.model.conf file to "awstats.mediaserver.conf".

Modify this new config file:

*LogFile="/pathtomediaserver/mediaserverlog"*

*LogFormat="c-ip date time cs-uri-stem c-starttime x-duration c-rate c-status c-playerid c-playerversion  
c-playerlanguage cs(User-Agent) cs(Referer) c-hostexe c-hostexever c-os c-osversion c-cpu filelength filesize  
avgbandwidth protocol transport audiocodec videocodec channelURL sc-bytes"*

*DNSLookup=0*

*ShowHeader=1*

*ShowMenu=1*

*ShowMonthDayStats=UHB*

*ShowDaysOfWeekStats=HB*

*ShowHoursStats=HB*

*ShowDomainsStats=HB*

*ShowHostsStats=HBL*

*ShowAuthenticatedUsers=0*

*ShowRobotsStats=0*

*ShowEMailSenders=0*

*ShowEMailReceivers=0*

*ShowSessionsStats=0*

*ShowPagesStats=PB*

*ShowFileTypesStats=HB*

*ShowFileSizesStats=0*

*ShowBrowsersStats=1*

*ShowOSStats=1*

*ShowOriginStats=PH*

*ShowKeyphrasesStats=0*

*ShowKeywordsStats=0*

*ShowHTTPErrorsStats=1*

Now you can use AWStats as usual (run the update process and read statistics).

### **FAQ-SET280 : ERROR "NOT SAME NUMBER OF RECORDS OF..."**

PROBLEM:

When I run AWStats from command line (or as a cgi from a browser), I get a message "Not same number of records of ...".

SOLUTION:

This means your AWStats reference database files (operating systems, browsers, robots...) are not correct. First try to update

to last version. Then check in your disk that you have only ONE of those files. They should be in 'lib' directory ('db' with 4.0) where awstats.pl is installed:

browsers.pm  
operating\_systems.pm  
robots.pm  
domains.pm  
search\_engines.pm  
worms.pm

### **FAQ-SET300 : ERROR "COULDN'T OPEN FILE ..."**

#### **PROBLEM:**

I have the following error:

*"Couldn't open file /workingpath/awstatmmmyyyy.tmp.9999: Permission denied."*

#### **SOLUTION:**

This error means that the web server didn't succeed in writing the working temporary file (file ended by .tmp.9999 where 9999 is a number) because of permissions problems.

First check that the directory /workingpath has "Write" permission for user nobody (default user used by Apache on Linux systems) or user IUSR\_SERVERNAME (default used user by IIS on NT).

With Unix, try with a path with no links.

With NT, you must check NTFS permissions ("Read/Write/Modify"), if your directory is on a NTFS partition.

With IIS, there is also a "Write" permission attribute, defined in directory properties in your IIS setup, that you must check.

With IIS, if a default cgi-bin directory was created during IIS install, try to put AWStats directly into this directory.

If this still fails, you can change the DirData parameter to say AWStats that you want to use another directory (A directory you are sure that the default user, used by web server process, can write into).

### **FAQ-SET350 : EMPTY OR NULL STATISTICS REPORTED**

#### **PROBLEM:**

AWStats seems to work but I'm not getting any results. i get a statistics page that looks like i have no hits.

#### **SOLUTION:**

That's one of the most common problem you can get and there is 2 possible reasons :

1) Your log file format setup might be wrong.

#### **If you use Apache web server**

The best way of working is to use the "combined" log format (See the [Setup and Use](#) page to know the way to change your Apache server log from "common" log format into "combined"). Don't forget to stop Apache, reset your log file and restart Apache to make change into combined effective. Then you must setup your AWStats config file with value [LogFormat=1](#). If you want to use another format, read the next FAQ to have examples of LogFile value according to log files format.

#### **If you use IIS server or Windows built-in web server**

The Internet Information Server default W3C Extended Log Format will not work correctly with AWStats. To make it work correctly, start the IIS Snap-in, select the web site and look at it's Properties. Choose W3C Extended Log Format, then Properties, then the Tab Extended Properties and uncheck everything under Extended Properties. Once they are all unchecked, check off the list given in the [Setup and Use](#) page ("With IIS Server" chapter).

You can also read the next FAQ to have examples of [LogFormat](#) value according to log files format.

2) You are viewing stats for a year or month when no hits was made on your server.

When you run awstats, the reports is by default for the current month/year.

If you want to see data for another month/year you must:

Add -year=YYYY -month=MM on command line when building the html report page from command line.

Use an URL like <http://myserver/cgi-bin/awstats.pl?config=xxxMM> if viewing stats with AWStats used as a CGI.

### **FAQ-SET400 : PIPE REDIRECTION TO A FILE GIVE ME AN EMPTY FILE**

#### **PROBLEM:**

I want to redirect awstats.pl output to a file with the following command :

```
> awstats.pl -config=... [other_options] > myfile.html
```

But myfile.html is empty (size is 0). If i remove the redirection, everything works correctly.

**SOLUTION:**

This is not an AWStats bug but a problem between perl and Windows.

You can easily solve this running the following command instead:

```
> perl awstats.pl -config=... [other_options] > myfile.html
```

## **FAQ-SET450 : NO PICTURES/GRAPHICS SHOWN**

**PROBLEM:**

AWStats seems to work (all data and counters seem to be good) but I have no image shown.

**SOLUTION:**

With Apache web server, you might have troubles (no picture shown on stats page) if you use a directory called "icons" (because of Apache pre-defined "icons" alias directory), so use instead, for example, a directory called "icon" with no s at the end (Rename your directory physically and change the [DirIcons](#) parameter in config file to reflect this change).

## **FAQ-SET500 : HOW TO ROTATE MY LOGS WITHOUT LOOSING DATA**

**PROBLEM:**

I want to archive/rotate my logs using my web server system options or a third software (rotatelog, cronolog) but don't want to loose any visits information during the rotate process.

**SOLUTION:**

If you use a rotate system (internal web server feature or third software), this means you probably not use AWStats

[PurgeLogFile](#) nor [ArchiveLogRecords](#) parameter.

\* If your config file is setup to process current log file (because you want to use the [AllowToUpdateStatsFromBrowser](#) option), if you don't want to loose any records during the rotate process, you can just run the AWStats update process on the archived log file just after the update process using the `-logfile` option (This will avoid you to change the config file).

\* If you choose (for security reason, to avoid CPU abuse on large web site or other) to make updates by your scheduler only on archive files, this means you don't use the [AllowToUpdateStatsFromBrowser](#) "real-time" feature of AWStats. In this case all you have to do is to run the update process just after the rotate was done using a config/domain file configured to process the archived log files (using date tags of [LogFile](#) for examples).

Note: For Apache users, use of [cronolog](#) seems to be a better choice than rotatelog (cronolog is available for Unix/Linux and Windows and is more flexible).

To use cronolog or rotatelog you must setup your web server log file name using a pipe like this example:

```
CustomLog "/usr/sbin/cronolog [cronolog_options] /var/logs/access.%Y%m%d.log" combined
```

## **FAQ-SET550 : HOW TO RUN AWSTATS FREQUENTLY**

**PROBLEM:**

AWStats must be ran frequently to update statistics. How can I do this ?

**SOLUTION:**

With Windows, you can use the internal task scheduler. The use of this tool is not an AWStats related problem, so please take a look at your Windows manual. Warning, if you use `"awstats.pl -config=mysite -update"` in your scheduled task, you might experience problem of failing task. Try this instead

```
"C:\WINNT\system32\CMD.EXE /C C:[awstats_path]\awstats.pl -config=mysite -update"
```

or

```
"C:[perl_path]\perl.exe C:[awstats_path]\awstats.pl -config=mysite -update"
```

A lot of other scheduler (sharewares/freewares) are very good.

With unix-like operating systems, you can use the **"crontab"**.

This is examples of lines you can add in the cron file (see your unix reference manual for cron) :

To run update every day at 04:00, use :

```
0 4 * * * /opt/awstats/wwwroot/cgi-bin/awstats.pl -config=mysite -update
```

To run update every hour, use :

0 \* \* \* \* /opt/awstats/wwwroot/cgi-bin/awstats.pl -config=mysite -update

### **FAQ-SET600 : HOW CAN I EXCLUDE MY IP ADDRESS (OR WHOLE SUBNET MASK) FROM STATS ?**

#### **PROBLEM:**

I don't want to see my own IP address in the stats or I want to exclude counting visits from a whole subnet.

#### **SOLUTION:**

You must edit the config file to change the [SkipHosts](#) parameter.

For example, to exclude:

- your own IP address 123.123.123.123, use [SkipHosts](#)="123.123.123.123"
- the whole subnet 123.123.123.xxx, use [SkipHosts](#)="123.123.123"
- all sub hosts xxx.myintranet.com, use [SkipHosts](#)=".myintranet.com" (This one works only if DNS lookup is already done in your log file).

### **FAQ-SET700 : MY VISITS ARE DOUBLED FOR OLD MONTH I MIGRATED FROM 3.2 TO 5.X**

#### **PROBLEM:**

After having migrated an old history file for a month, the number of visits for this month is doubled. So the number of "visits per visitor" is also doubled and "pages per visit" and "hits per visit" is divided by 2. All other data like "pages", "hits" and bandwidth are correct.

#### **SOLUTION:**

This problem occurs when migrating history files from 3.2 to 5.x.

To fix this you can use the following tip (warning, do this only after migrating from 3.2 to 5.x and if your visit value is doubled). The goal is to remove the line in history file that looks like this

YYYYMM00 999 999 999 999

where YYYY and MM are year and month of config file and 999 are numerical values.

#### **So if your OS is Unix/Linux**

```
grep -vE '[0-9]{6}00' oldhistoryfile > newhistoryfile
```

```
mv newhistoryfile oldhistoryfile
```

And then run the migrate process again on the file.

#### **If your OS is windows and got cygwin**

You must follow same instructions than if OS is Unix/Linux BUT you must do this from a cygwin 'sh' shell and not from the DOS prompt (because the ^ is not understood by DOS).

And then run the migrate process again on the file.

#### **In any other case (in fact works for every OS)**

You must remove manually the line YYYYMM00 999 999 999 999 (must find one and only one such line) and then run the migrate process again on the file.

---

### **FAQ-COM100 : AWSTATS SPEED/TIMEOUT PROBLEMS ?**

#### **PROBLEM:**

When I analyze large log files, processing times are very important (Example: update process from a browser returns a timeout/internal error after a long wait). Is there a setup or things to do to avoid this and increase speed ?

#### **SOLUTION:**

You really need to understand how a log analyzer works to have good speed. There is also major setup changes you can do to decrease your processing time.

See [important advices](#) in benchmark page.

### **FAQ-COM150 : BENCHMARK / FREQUENCY TO LAUNCH AWSTATS TO UPDATE STATISTICS**

#### **PROBLEM:**

What is AWStats speed ?

What is the frequency to launch AWStats process to update my statistics ?

SOLUTION:

All benchmarks information and advice on frequency for update process are related into the [Benchmark page](#).

### **FAQ-COM200 : HOW REVERSE DNS LOOKUP WORKS, UNRESOLVED IP ADDRESSES**

PROBLEM:

The reported page AWStats shows me has no hostnames, only IP addresses, countries reported are all "unknown".

SOLUTION:

When AWStats find an IP address in your log file, it tries a reverse DNS lookup to find the hostname and domain if the [DNSLookup](#) parameter, in your AWStats config file, is [DNSLookup=1](#) (Default value). So, first, check if you have the good value. The [DNSLookup=0](#) must be used only if your log file contains already resolved IP address. For example, when you set up Apache with the *HostNameLookups=on* directive. When you ask your web server to make itself the reverse DNS lookup to log hostname instead of IP address, you will still find some IP addresses in your log file because the reverse DNS lookup is not always possible. But if your web server fails in it, AWStats will also fails (All reverse DNS lookups use the same system API). So to avoid AWStats to make an already done lookup (with success or not), you can set [DNSLookup=0](#) in AWStats config file. If you prefer, you can make the reverse DNS lookup on a log file before running your log analyzer (If you only need to convert a logfile with IP Addresses into a logfile with resolved hostnames). You can use for this [logresolvemerge](#) tool provided with AWStats distribution (This tools is an improved version of *logresolve* provided with Apache).

### **FAQ-COM250 : DIFFERENT RESULTS THAN OTHER ANALYZER**

PROBLEM:

I also use webalizer (or another log analyzer) and it doesn't report the same results than AWStats. Why ?

SOLUTION:

If you compare AWStats results with an other log file analyzer, you will found some differences, sometimes very important. In fact, all analyzer (even AWStats) make "over reporting" because of the problem of proxy-servers and robots. However AWStats is one the most accurate and its "over reporting" is very low where all other analyzers, even the most famous, have a very high error rate (10% to 2x more than reality).

This is the most important reasons why you will find differences:

- Some dynamic pages generated by CGI programs are not counted by some analyzer (ie Webalizer) like a "Page" (but only like a "Hit") if CGI prog has not a .cgi extension, so they are not included correctly in their statistics. AWStats does not make this error and all CGI pages are pages.
- AWStats is the alone analyzer (that i know for the moment) able to detect robots visits. All other analyzers think it's a human visitor. This error make them to report more visits and visitors than reality. This does not happen with AWStats. When it tells "1 visitor", it means "1 human visitor". All robots hits are reported in the "Robots/Spiders visitors" chart.
- A lot of analyzer (ie webalizer) use the "Hits" to count visitors. This is not a good way of working : Some visitors use a lot of proxy servers to surf (ie: AOL users), this means it's possible that several hosts (with several IP addresses) are used to reach your site for only one visitor (ie: one proxy server download the page and 2 other servers download all images). Because of this, if stats of unique visitors are made on "hits", 3 users are reported but it's wrong. So AWStats, like HitBox, considers only HTML "Pages" to count unique visitors. This decrease the error, not completely, because it's always possible that a proxy server download one HTML frame and another one download another frame, but this make the over-reporting of unique visitors less important.

There is also differences in log analyzers databases and algorithms that make details of results less or more accurate:

- AWStats has a larger browser, os and search engine database, so reports concerning this are more accurate.
- AWStats has url syntax rules to find keywords or keyphrases used to find your site, but AWStats has also an algorithm to detect keywords of unknown search engines with unknown url syntax rule.

### **FAQ-COM300 : DIFFERENCE BETWEEN LOCAL HOURS AND AWSTATS REPORTED HOURS**

PROBLEM:

I use IIS and there's a difference between local hour and AWStats reported hour. For example I made a hit on a page at 4:00 and AWStats report I hit it at 2:00.

SOLUTION:

This is not a problem of time in your local client host. AWStats use only time reported in logs by your server and all time are related to server hour. The problem is that IIS in some foreign versions puts GMT time in its log file (and not local time). So, you have also GMT time in your statistics.

You can wait that Microsoft change this in next IIS versions. However, Microsoft sheet Q271196 "IIS Log File Entries Have the Incorrect Date and Time Stamp" says:

*The selected log file format is the W3C Extended Log File Format. The extended log file format is defined in the W3C Working Draft WD-logfile-960323 specification by Phillip M. Hallam-Baker and Brian Behlendorf. This document defines the Date and Time files to always be in GMT. This behavior is by design.*

So this means this way of working might never be changed, so another chance is to use the AWStats plugin 'timezone'.

Warning, this plugin need the perl module Time::Local and it reduces seriously AWStats speed.

To enable the plugin, uncomment the following line in your config file.

`LoadPlugin="timezone TZ"`

where TZ is value of your signed timezone (+2 for Paris, -8 for ...)

### **FAQ-COM350 : HOW CAN I PROCESS OLD LOG FILE ?**

PROBLEM:

I want to process an old log file to include its data in my AWStats reports.

SOLUTION:

You must change your [LogFile](#) parameter to point to the old log file and run the update (or use the `-logfile` option on command line to overwrite [LogFile](#) parameter). The update process can only accept files in chronological order, so if you have already processed a recent file, you must before reset all your statistics (see next FAQ) and restart all the update process for all past log files and in chronological order.

### **FAQ-COM400 : HOW CAN I UPDATE MY STATISTICS WHEN I USE A LOAD BALANCING SYSTEM THAT SPLITS MY LOGS ?**

PROBLEM:

How can I update my statistics when i use a load balancing system that split my logs ?

SOLUTION:

The best solution is to merge all split log files resulted from all your load balanced servers into one. For this, you can use the [logresolvemerge](#) tool provided with AWStats :

`logresolvemerge.pl file1.log file2.log ... fileN.log > newfiletoprocess.log`

And setup the [LogFile](#) parameter in your config file to process the `newfiletoprocess.log` file or use the `-logfile` command line option to overwrite [LogFile](#) value.

### **FAQ-COM500 : HOW CAN I RESET ALL MY STATISTICS ?**

PROBLEM:

I want to reset all my statistics and restart my stats from now.

SOLUTION:

All analyzed data are stored by AWStats in files called `awstatsMMYYYY.[site].txt` (one file each month). You will find those files in directory defined by [DirData](#) parameter (same directory than `awstats.pl` by default).

To reset your stats for a month, you just have to delete the file for the required month/year.

To reset all your stats, delete all files `awstats*.txt`

Warning, if you delete those data files, you won't be able to recover your stats back, unless you kept old log files somewhere. You will have to process all past log files (in chronological order) to get old statistics back.

### **FAQ-COM550 : CAN I SAFELY REMOVE A LINE IN HISTORY FILES (awstatsMMYYYY\*.txt) ?**

PROBLEM:

After processing a log file I want to change my statistics without running AWStats update process but changing directly data in AWStats historical database files.

SOLUTION:

If you remove a lines starting with "BEGIN\_" or "END\_", AWStats will find your file "corrupted" so you must not change those two kinds of lines.



You can change, add or remove any line that is in any sections but if you do this, you must also update the MAP section (lines between BEGIN\_MAP and END\_MAP) because this section contains the offset in file of each other sections for direct I/O access. If history file is the last one, you can easily do that by removing completely the MAP section and run an update process. Like that AWStats will rewrite the history file and the MAP section will be rewritten (MAP section is not read by update process, only written). You do this at your own risk. The main risk is that some charts will report wrong values or be unavailable.

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### **FAQ-SEC100 : CAN AWSTATS BE USED TO MAKE CROSS SITE SCRIPTING ATTACKS ?**

#### **PROBLEM:**

If a bad user use a browser to make a hit on an URL that include a < SCRIPT > ... < /SCRIPT > section in its parameter, when AWStats will show the links on the report page, does the script will be executed ?

#### **SOLUTION:**

No. AWStats use a filter to remove all scripts codes that was included in an URL to make a Cross Site Scripting Attack using a log analyzer report page.

### **FAQ-SEC150 : HOW CAN I PREVENT SOME USERS TO SEE STATISTICS OF OTHER USERS ?**

#### **PROBLEM:**

I don't want a user xxx (having a site www.xxx.com) to see statistics of user yyy (having a site www.yyy.com). How can i setup AWStats for this ?

#### **SOLUTION:**

Take a look at the [security page](#).

### **FAQ-SEC200 : HOW TO MANAGE LOG FILES (AND STATISTICS) CORRUPTED BY 'WORMS' ATTACKS ?**

#### **PROBLEM:**

My site is attacked by some worms viruses (like Nimba, Code Red...). This make my log file corrupted and full of 404 errors. So my statistics are also full of 404 errors. This make AWStats slower and my history files very large. Can I do something to avoid this ?

#### **SOLUTION:**

Yes.

'Worms' attacks are infected browsers, robots or server chnaged into web client that make hits on your site using a very long unknown URL like this one:

*/default.ida?XX%40%50...%40%50*

URL is generated by the infected robot and the purpose is to exploit a vulnerability of the web server (In most cases, only IIS is vulnerable). With such attacks, you will will always find a 'common string' in those URLs. For example, with Code Red worm, there is always default.ida in the URL string. Some other worms send URLs with cmd.exe in it. So, you should edit your config file to add in the [SkipFiles](#) parameter the following value:

*SkipFiles="default.ida cmd.exe"*

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## Benchmarks

AWStats update process must be ran frequently, so it's important to know what is AWStats speed to choose an optimum delay between each update process according to AWStats speed and the refresh rate you need to have.

AWStats speed depends on AWStats version and options/setup you use in configuration file.

### This is benchmark results with AWStats version 5.1 and a common configuration:

HARDWARE: Athlon 1 GHz / 128Mb

SOFTWARE: Windows 2000 / Perl 5.8

CONFIG OPTIONS: [LogFormat=1](#), [DNSLookup=0](#), [URLWithQuery=0](#), [URLReferrerWithQuery=0](#), No plugins

AVERAGE SPEED: **4500** lines by seconds

Other times for different kind of web sites sizes are shown later in this page...

### This is other important information to know:

- A log file size is about **150** (NCSA common/CLF log files) to **300 times** (NCSA extended/XLF/ELF log files) its number of lines,
  - A **30Mb file = 100,000 lines = 20,000 pages** (with 5 hits/page) = **2,500 visits** (with 8 pages/visits) => **75 seconds** (Athlon 1GHz)
  - History files (resuming the log analyze) has the following size (one file a month) : **15000+160\*x+100\*y bytes** (where x is number of unique visitors a month and y is number of different pages on web sites)
- WARNING ! All those data are average values for a common public site. Calculation rule can be seriously changed according to web server or AWStats configuration and web site content.

Don't forget that benchmarks of log analyzers are made without reverse DNS lookup because this depends on your system, networks and Internet and not on the log analyzer you use. And the reverse DNS lookup can take more than **95%** of time of a log analysis !

So, have a look at the following chart to:

- Get more real ideas on benchmarks results
- Get more information and advice on a good setup for your site.

### This is examples of frequency/parameters you should use to have a good use of AWStats:

Your Web site size	Recommended values for parameters			Recommended update frequency (Rotate log delay)	Memory required**	Duration***
	DNSLookup*	URLWithQuery	URLReferrerWithQuery			
0 – 1,000 visits/month	1	0 or 1	0 or 1	Once a week Log files are 0–3 MB 10000 lines to process		
	0 (or 2)	0 or 1	0 or 1			



				Once a month Log files are 0–12 MB 40000 lines to process		
1,000 – 10,000 visits/month	1	0 or 1	0 or 1	Every 12 hours Log files are 1–2 MB 660–6600 lines	4–8 MB	1–2mn
	0 (or 2)	0 or 1	0 or 1	Once a week Log files are 3–30 MB 10000–100000 lines	4–8 MB	5–50s
10,000 – 50,000 visits/month	1	0 or 1	0 or 1	Every 4 hours Log files are 1–4 MB 2200–11000 lines	8–16 MB	1–4mn
	0 (or 2)	0 or 1	0 or 1	Once a day Log Files are 4–20 MB 13000–65000 lines	8–16 MB	10–40s
50,000 – 250,000 visits/month	1	0	0 or 1	Every hour Log Files are 1–4 MB 2700–14000 lines	16–64 MB	2–4mn
	0 (or 2)	0	0 or 1	Every 6 hours Log Files are 5–25 MB 17000–80000 lines	16–64 MB	20–80s
250,000 – 1,000,000 visits/month	0 (or 2)	0	0	Every hour Log Files are 4–16 MB 14000–56000 lines	64–256 MB	30–120s
1,000,000 – 5,000,000 visits/month	AWStats is not a good choice for such web sites. Try a tool with less features but faster like <a href="#">Analog</a> or <a href="#">Webalizer</a>					
+5,000,000 visits/month	AWStats is not a good choice for such web sites. Try a tool with less features but faster like <a href="#">Analog</a>					

\* You should set [DNSLookup](#) parameter to 0 (or 2) if

- reverse DNS lookup is already done in your log file,
- or if your web site has more than 250,000 visits a month.

Note: Country report can works without reverse DNS lookup if plugin 'geoip' is enabled (faster and more accurate than reverse DNS lookup).

\*\* Free memory required for update process (in MB).

Warning: If you use the [URLWithQuery](#) or [URLReferrerWithQuery](#) option, or forget to complete correctly [URLQuerySeparators](#) for some sites, this value can be dramatically increased.

\*\*\* Duration is with Athlon 1GHz/128Mb and LogFormat=1.

## **SOME IMPORTANT ADVICES FOR A GOOD USE OF AWSTATS:**

- ★★★★★ – You can disable [DNSLookup](#) in AWStats (set `DNSLookup=0` or `DNSLookup=2` to only use DNS file resolver). Note that with `DNSLookup` disabled, if you still want to have the 'Country' report, you must enable the 'geoip' plugin. Without this plugin, 'Country' report will work only if hosts addresses in your log file are already resolved (need to setup your web server to do so, your web server will be slowed). Without `DNSLookup`, log analyze speed can be increased by 20 to 100 times.
  - ★★★★★ – Use carefully parameters [URLWithQuery](#) and [URLReferrerWithQuery](#) (Let them set to 0 if you don't know what they mean) and check your web site URLs' syntax to know if you need to complete parameter [URLQuerySeparators](#). If you really need to use [URLWithQuery=1](#), check that [URLWithQueryWithoutFollowingParameters](#) is set properly.
  - ★★★★★ – Be sure that your [HostAliases](#) parameter list is complete.
  - ★★★★★ – Rotate your log (See [FAQ-SET500](#)) and launch AWStats more often (from crontab or a scheduler, See [FAQ-SET550](#)). The more often you launch AWStats, the less AWStats has new lines in log to process. This solve also the ActiveState memory problem (see next advice).
  - ★★★★★ – Use standard Perl distribution instead of ActiveState (It seems that ActiveState Perl 5.006 and may be other version) have an important memory problem making speed of analysis slower and slower when analysing more and more lines.
  - ★★★ – Use last AWStats version.
  - ★★★ – Use last Perl version. For example Perl 5.8 is 5% faster than Perl 5.6
  - ★ – If you use Apache and don't rotate your logs (not the best way of working), set [PurgeLogFile](#) to 1 (By default, to avoid bad surprise, [PurgeLogFile](#) is 0 in configure file, but you can set it to 1 to ask AWStats to purge the log file after processing it, this increase speed for next run).
-



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AWStats – Ver: 5.3

Written by: [Laurent Destailleur](#)

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Release Date: 12/21/2002

File Size: 667k – 0.67MB

Type: Freeware

Release Status: **Minor Update**

Cost: 0

**Keywords:** awstats, awstat, log, file, analyzer, analysis, web, logfile, free, advanced, real-time, tool, perl, cgi, software, statistics, stats, analyze, apache, IIS, reports, counter, graphical, analyse, statistiques, freeware, gnu, gpl, project, linux, beos

### Description:

Advanced Web Statistics (AWStats) is a free powerful and featureful web server logfile analyzer (Perl script) that shows you all your Web statistics including visits, unique visitors, pages, hits, rush hours, os, browser's versions, search engines, keywords, robots visits, broken links and more... Works with all major web servers (IIS 5.0+, Apache, ...) as a CGI and/or from command line. Distributed under GNU General Public License.

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Order Online: <http://awstats.sourceforge.net>

Support Email: [eldy@users.sourceforge.net](mailto:eldy@users.sourceforge.net)

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### Download URLs:

<http://awstats.sourceforge.net/files/awstats.zip>

<http://prdownloads.sourceforge.net/awstats/awstats-53.zip>

**Supported Operating Systems:** Win95, Win98, WinME, WinNT 4.x, WinXP, Windows2000, Unix, Linux, OS/2, OS/2 Warp, OS/2 Warp 4, MAC 68k, Mac PPC

**System Requirements:** None

**Install Support:** No Install Support