



## **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, [269 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 or mod\_deflate),
- \* Browsers used (pages, hits, KB for each browser, each version, [89 browsers](#): Web, Wap, Media browsers...),
- \* OS used (pages, hits, KB for each OS, [34 OS detected](#)),
- \* Visits of robots ([310 robots detected](#)),
- \* Search engines, keyphrases and keywords used to find your site ([The 109 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,
- \* Screen size (need to add some HTML tags in index page).
- \* Number of times your site is "added to favourites bookmarks".
- \* Ratio of Browsers with support of: Java, Flash, RealG2 reader, Quicktime reader, WMA reader, PDF reader (need to add some HTML tags in index page).
- \* Cluster report for load balanced servers ratio.

**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, wap or streaming servers log files (but also ftp 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,
- \* Country detection from IP location (geoip) or domain name.
- \* 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, can use CSS,
- \* 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](#))
- \* Available on all platforms,
- \* 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: 1.193 \$ - \$Author: eldy \$ - \$Date: 2003/12/31 06:27:37 \$ 6.0 Fixes:

- Fixed bug 599388: Search engines are not detected if domain is IP address. - Fixed bug 711758. - Fixed bug 812681: bad case for ENV expansion in awstats.conf. - Fixed bug 813908: Incomplete documentation - Fixed bug 816267: onedigit dayofmonth breaks syslog regex - Fixed bug 817287,830458: wrong regexp in Read\_DNS\_Cache subroutine - Fixed bug 817388: lib/referer\_spam.pm & lib/robots.pm - Fixed bug 818704: Warning in IPv6 plugin when no reverse DNS - Fixed bug 841877: regex bug for parsing log lines - Fixed bug 846365: relative path not working for DirData. - Fixed value for ValueSMTPCodes if not defined in config file. - Fixed pb when country code is not same than lang code (example: estonian has lang code 'et' and country code 'ee'). - Replaced Kb/visits to Kb/mails for mail log analysis. - Remove some warnings that appears when running perl -W - Other minor bugs (814970,823064,823323,831438,836315). - Fixed bug in counting hits for miscellaneous and clusters chart when a temporary flush was done on disk during a long update. - ExtraSections now works on all records whatever is the status code. - Click on "Summary" now returns to top of page even with rawlog plugin. - Fix in log parsing that should reduce dropped records to only records that match a dropping criteria (SkipFiles, Skip..., Only...). - Click on "Summary" now returns to top of page even with rawlog plugin. - Fixed AmigaVoyager detection. - Fixed bug in SkipHosts filter for mail log files. - Fixed not working link for search keywords/keyphrase in menu with FireBird. - Fixed pb in loading plugins with mod\_perl2. - Fixed not found relative DirData path with some Perl/OS versions. New features/improvements: - Increased speed by 10 to 20%. - Added a Worms report (Added LevelForWormsDetection and ShowWormsStats parameter). - Added report for "not viewed" traffic in Summary report. - Monthly history report has been extracted from the Summary report. - Some changes to make AWStats to be XML compliant ready. Need to set the new parameter BuildReportFormat to 'xml' in config file. Added also the BuildHistoryFormat parameter (Even if only 'text' is supported for the moment). - A lot of part of codes have been rewritten to make code more easy to understand and reduce unknown bugs. - The link to whois informations for a host, provided by hostinfo plugin, has been replaced by an internal 'whois' showing in a popup window full whois informations whatever is the TLD of IP or host name. - A new search engine database to allow several "match id" for same search engine. Example: All google ip referer id are recognised. - Can use UA and HOST fields to build personalized ExtraSection reports. - Added support for AND conditions in personalized ExtraSection config. - Support for right to left languages. Added 'he' language. - Added LevelForSearchEnginesDetection parameter to choose between 2 possible levels of detection for search engines (like LevelForRobotsDetection). Also, added LevelForFileTypesDetection parameter (2 possible levels). - Added percent column for file types. - The robot chart now shows details between hits on robots.txt file and other hits. - Added patch 857319: Allow several IPs and IP ranges in AllowAccessFromWebToFollowingIPAddresses parameter. - Added experimental graphapplet plugin (graph are built by applet). - Webmin module updated to 1.210 to integrate all new parameters. - Better setup error messages for newbie. - Reports look better on Mozilla browsers. - Added decodeUTFkeys plugin to AWStats to show correctly (in language charset) keywords/keyphrases strings even if they were UTF8 coded by the referer search engine. - Added/updated a lot of os, browser and country icons. - Added Hebrew and Galician language. - configure.pl: A new script to configure AWStats and Apache and build a simple config file. - awstats\_buildstaticpages.pl: The -date option has been replaced by the -builddate=%YY%MM%DD option so you can choose your own date format. - logresolvemerge.pl: can use several threads for reverse DNS lookup with Perl 5.8. - maillogconvert.pl: Allow to process qmail log preprocessed by tai64nlocal tool. - maillogconvert.pl: Added support for MDAemon mail server log files. Other/Documentation: - A httpd.conf sample to configure AWStats is provided. - Added example for analyzing awredir.pl hits by ExtraSections. - Updated database: wget is known as a "grabber" browser, no more as a robots. netcaptor and apt-get added in browser database. asmx and aspx added in mime.pm file. Microsoft URL Control added in robot list. - Documentation seriously updated. - FAQ updated. Note 0: Perl 5.00503 or higher is a requirement to use AWStats 6.0 or higher. Note 1: When migrating to 6.x series, if you use the ExtraSections feature, you must check that the parameter(s) ExtraSectionConditionX use a full REGEX syntax (with 5.x series, this parameter could contain simple string values). If not, feature will be broken. Note 2: When migrating to 6.x series, if you use the Misc feature, you must check that your ShowMiscStats parameter is set to "ajdfqrwp", if you want to have all miscellaneous info reported (you must also have added the awstats\_misc\_tracker.js script in your home page as described in MiscTrackerUrl parameter description). Otherwise the new default value "a" will be used (only the "Add to favourites" will be reported). Note 3: In 6.x series, MaxLengthOfURL parameter has been renamed into MaxLengthOfShownURL. Note 4: When migrating to 6.x series, to enable the new worm detection, you must add parameter LevelForWormsDetection=2 in your config file. Note 5: When migrating to 6.x series, if you used the urlalias or userinfo plugin, you must move the urlalias\*.txt or userinfo\*.txt file from Plugins directory to DirData directory. 5.9 Fixes: - Several fixes in maillogconvert.pl Fixed wrong parsing for qmail log files. Support mail errors in qmail log files. Return code for postfix log were all reported in error for mails sent to several recipients when one recipient was in error. - Fixed wrong percentage in cluster report. - Fixed wrong parsing for qmail log files. - Return code for postfix log were all reported in error for mails sent to several recipients when one recipient was in error. - Fix a not closing HTML TR tag in full list of hosts. - awstats\_buildstaticpages.pl can accept month on 1 digit. - awstats\_buildstaticpages.pl no more try to build pages awstats.misc.html and awstats.filetypes.html that does not exists. - A lot of fix in PDF export: Graph in PDF export are no more inverted. The link "close window" in generated PDF pages is replaced by "back to main page". Infos popup window from hostinfo plugin is not included in PDF export. Popup can't work into PDF. PDF export seems to work correctly now. - mail.yahoo.\* and hotmail.msn.\* refering pages are not more reported as search engines. New features/improvements: - AWStats Webmin module updated to 1.1 - Added the AllowFullYearView parameter. - Year entry in combo box is now the localized text for "Year" instead of '----' - Support of some exchange format in maillogconvert.pl - Option -noloadplugin of awstats\_buildstaticpages.pl can accept a list of plugins separated by comma. - Support mail errors for qmail log files. -

Added the `--diricons` option from `awstats_buildstaticpages.pl` Other/Documentation: – Added rpm, deb and msi mime types – Added documentation page for using AWStats Webmin module 5.8 Fixes: – `mod_deflate` compression reported bandwidth saved instead of bandwidth used. – Fixed wrong number of column for "other" row in host chart. – Fixed problem of parsing with `uabracet` and `refererquot`. – Fixed wrong use of config file in `rawlog` plugin. – Some changes on `maillogconvert.pl`: `maillogconvert` support more exotic sendmail log files (Thanks to W-Mark Kubacki). Fixed wrong parsing of qmail syslog files. Fixed pb of '-' in relay hostname. When a mail is sent to 2 different receivers, now report 2 records. When a forward is active, report the original receiver, not the "forwarded to". – Fixed not working timezone plugin with 5.7. – Fixed missing propagated `configdir` parameter when changing month/year. – Error when loading database pm file with some cygwin perl version. – Fixed not working file type detection for default pages. – Fixed not working `awstats_updateall.pl` on Windows platforms. New features/improvements: – Added a Webmin module. – Enhance the 'Extra' feature with parameters `ExtraSectionFirstColumnFormatX`, `ExtraSectionAddAverageRowX`, `ExtraSectionAddSumRowX`. Also add a dedicated page in documentation. – Added `%lognamequot` tag for `LogFormat` parameter. – Added `OnlyUserAgents` parameter. – Selection of virtualhost records in a log is no more case sensitive on `SiteDomain` nor `HostAliases`. – Added `awredir.pl` tool. – Added a Cluster Report for load balancing systems. Added `%cluster` tag in `LogFormat`. Other/Documentation: – Deprecated `%time1b` tag (`%time1` can be used). – Minor look change. – Updated documentation. 5.7 Fixes: – The `--configdir` parameter in `awstats_updateall.pl` is now working coorectly. – Fix failing call to `ipv6` plugin. – Pb with some regex value used in the new REGEX fields added in 5.6. – Better support for WebStar log files. – Count for add to favourites is done on hits to `favicon.ico` for IE only. This avoid counting wrong "Add" done by browsers that hit the file even when no add is done. Value reported is the (count for IE) / (ratio of IE among all other browsers). – Count for Browsers with WMA audio playing support now works. – Fix problem with default `ShowFlagLinks` defined to 1 instead of " when not included in config file. – Road runner browsers detection problems. – syslog tag can accept hostname with not only a-z chars. – "changed to " " in miscellaneous chart. – Geoip lookup is always done (as it should) on ip when ip is known, even if `DNSLookup` is enabled and successfull. This increase seriously AWStats speed when `DNSLookup` and `Geoip` are both enabled. – Chars < and > inside reported values are no more removed but coded with < and > in html built page. New features/improvements: – Added 'rawlog' plugin to add a form to show raw log content with filter capabilities. – Added a dynamic exclude filter on CGI full list report pages. – Added `maillogconvert.pl` for analyzing mail log files (better support for sendmail, postfix and qmail log files). – Added `--addfilenum` option in `logresolvemerge.pl` – Added `--updatefor` option to limit number of lines parsed in one update session. – Added support for Darwin streaming server. – Added Firebird browser detection. – `awstats_buildstaticpages.pl` can also build a PDF file (need `htmldoc`). – Better management of plugin load failure. – Added `LogType` parameter. – Added option `--dnscache=` in `logresolvemerge.pl` to use dns static file. – Minor bug fixes. – The `HostAliases` list parameter is used to check if a log that contains `%virutalhost` field should be qualified. – Added `%MO` tag for `LogFile` parameter to be replaced by the three first letter of month. Other/Documentation: – The "Popup Whols link" code is now handled by new 'hostinfo' plugin. – Added `mp4` mime type. – Updated documentation. Note 1: The `ShowLinksToWhols` parameter has been removed. You must enable the plugin 'hostinfo' to get the same result, if it was used. 5.6 Fixes: – Domain with no pages hits were always reported as other in domain chart. – percent for other in full list of "links for internet search engines" has been fixed. New features/improvements: – Report compression ratios with `mod_deflate` feature (Apache 2). – A better browser detection. – Can add regex values for a lot of list parameters (`HostAliases`, `SkipDNSLookupFor`, ...) – `StyleSheet` parameter works completely now and sample of CSS files are provided. – Add meta tags `robots noindex,nofollow` to avoid indexing of stats pages by compliant robots. – Added a "Miscellaneous chart" to report ratio of Browsers that support: Java, Flash, Real reader, Quicktime reader, WMA reader, PDF reader. – "Miscellaneous chart" also report the "Add to favourites" (must remove the "robots.txt" and "favicon.ico" entries off your `SkipFiles` parameter in your config file to have this feature working. – Update process now try a direct access at last updated record when a new update is ran. If it fails (file changed or wrong checksum of record), then it does a scan from the beginning of file until a new date has been reached (This was the only way of working on older version). So now update process is very much faster for those who don't purge/rotate their log file between two update process (direct access is faster than full scan). – Better look for report pages on Netscape/Mozilla browsers. Other/Documentation: – Updated documentation. – Update wap/imode browser list. Note 1: You should remove the "robots.txt" and "favicon.ico" entries in the `SkipFiles` parameter in your config files after upgrading to 5.6. 5.5 Fixes: – Summary robots list was limited to `MaxNbOfLoginShown` instead of being limited to `MaxNbOfRobotShown` value. – Fixed a bug when using HBL codes in `ShowRobotsStats` parameter. – `AllowAccessFromWebToFollowingAuthenticatedUsers` now works for users with space in name. – Bug 730996. When `URLWithQueryWithoutFollowingParameters` was used with a value and another parameter was ended with this value, the wrong parameter was truncated from URL. New features/improvements: – Added a 'Screen Size' report. – Group OS by families. Added a detailed OS version chart. – Better 404 errors management. URLs are always cleaned from their parameter to build '404 not found' URLs list (because parameters are not interesting as they can't have effect as page is not found). Referrer URLs list for '404 not found' URLs are kept with parameters only if `URLReferrerWithQuery` is set to 1. This make this report more useful. – Added 'geoipfree' plugin (same than 'geoip' plugin but using the free Perl module `Geo::IPfree`). – 'geoip' plugin can works with Perl module `Geo::IP` but also with Perl module `Geo::IP::PurePerl`). – Added 'userinfo' plugin to add information from a text file (like lastname, office department,...) in authenticated user chart. – month parameter can accept format `--month=D`, not only `--month=DD` – Optimized code size. – Optimized HTML output report size. – Added plugin `ipv6` to fully support IPv6 (included reverse DNS lookup). – Split month summary chart and days of month chart in two different charts in main page. This also means that `ShowDaysOfMonthStats` and `AdddataArrayShowDaysOfMonthStats` parameters were added. – Added `--staticlinksext` to build static pages with another extension than default .html – Added QMail support and better working support for Postfix and

Sendmail (SMA preprocessor was replaced by maillogconv.pl). Other/Documentation: – AWStats default install directory is /usr/local/awstats for unix like OS. – Added Isle of Man, Monserat, and Palestinian flag icon. – Added "local network host" and "Satellite access host" in label of possible countries and icons (They appears when using geoip plugins). – Better management of parsed lines counting. The last line number is also stored in history file, for a future use. – Removed LogFormat=5 option for ISA log file because I am fed up of supporting bugged and non standard MS products. Sorry but this takes me too many times. To use AWStats with an ISA server, just use now a preprocessor tool to convert into a W3C log file. – Added estonian, serban and icelandic language files. – Updated documentation. 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). – Users did not appear in Authenticated users list if hits on pages were 0. – Value of title "Top x" for domains chart was not always correct. – Fixed bug 620040 that prevented to use "#" char in HTMLHeadSection. – Whois link did not work for jp, au, uk and nz domains. – Whols link did not work if host name contained a "-" char. – Fixed a bug in mod\_gzip stats when only ratio was given in log. New features/improvements: – Lang parameter accepts 'auto' value (Choose first available language accepted by browser). – Little support for realmedia server. – Added urlaliasbuilder.pl tool. – Added URL in possible values for ExtraSection first column. – New parameter: URLWithAnchor (set to 0 by default). – Export tooltips features in a plugin (plugin tooltips disabled by default). – Added average session length in Visit Duration report. – Added percentage in Visit Duration report. – logresolvemerge.pl can read .gz or .bz2 files. – Added icons and Mime label for file types report. – Added parameters AddDataArrayMonthDayStats, AddDataArrayShowDaysOfWeekStats, and AddDataArrayShowHoursStats. – Added the Whois info in a centered popup window. – Cosmetic change of browsers reports (group by family and add bar in browserdetail). – Other minor cosmetic change (remove ShowHeader parameter). – Authenticated user field in log file can contain space with LogFormat=1, and they are purged of " with Logformat=6 (Lotus Notes/Domino). – The AWSTATS\_CURRENT\_CONFIG environment variable is now always defined into AWStats environment with value of config (Can be used inside config file like other environment variables). – Added offset of last log line read and a signature of line into the history file after the LastLine date. – Better error report in load of plugins. Other/Documentation: – AWSTATS\_CONFIG environment variable renamed into AWSTATS\_FORCE\_CONFIG. – 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. – Added European and Sao Tome And Principe country flag. – Added Safari browser icon. – 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 vamped memory and caused abnormal disk swapping in logresolvemerge.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: CreateDirDataIfNotExists – New parameter: ValidHTTPCodes – New parameter: MaxRowsInHTMLOutput – New parameter: ShowLinksToWhols – New parameter: LinksToWhols – 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 logresolvemerge.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 logresolve merge 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



## Upgrading AWStats to a new version

To upgrade AWStats from an old version to a new one, all you have to do is:

- \* **Check your Perl version is at least 5.00503.** For this you can run `perl -v` command.
- \* **Replace AWStats runtime files** by new ones. For this you can:
  - decompress new AWStats zip or tgz package to old install directory (AWStats old runtime files are replaced by new ones. This works whatever is the old and new version, 3.x, 4.x, 5.x, 6.x).
  - or just run your OS package tool (rpm, apt, or just .exe for windows).
- \* **Your setup files should not be lost** as AWStats default distribution should not overwrite config file (it provides only one config file example called *awstats.model.conf*). However some packages are not official, so you can save and restore AWStats config files (awstats\*.conf) if you prefer.  
Sometimes, there is new parameter supported by the new version. Since those parameters are not present in old config files, AWStats will use default values for them, to work as it did when those parameters did not exist, so there is no need to add them, except if you want to use differently the new feature.

Note 0: Perl 5.00503 or higher is a requirement to use AWStats 6.0 or higher.

Note 1: When migrating to 6.x series, if you use the ExtraSections feature, you must check that the parameter(s) ExtraSectionConditionX use a full REGEX syntax (with 5.x series, this parameter could contain simple string values). If not, feature will be broken.

Note 2: When migrating to 6.x series, if you use the Misc feature, you must check that your ShowMiscStats parameter is set to "ajdfqrwp", if you want to have all miscellaneous info reported (you must also have added the awstats\_misc\_tracker.js script in your home page as described in MiscTrackerUrl parameter description). Otherwise the new default value "a" will be used (only the "Add to favourites" will be reported).

Note 3: In 6.x series, MaxLengthOfURL parameter has been renamed into MaxLengthOfShownURL

Note 4: When migrating to 6.x series, to enable the new worm detection, you must add parameter LevelForWormsDetection=2 in your config file.

Note 5: When migrating to 6.x series, if you used the urlalias or userinfo plugin, you must move the urlalias\*.txt or userinfo\*.txt file from Plugins directory to DirData directory.

- \* **Your old analyzed data should not be lost** since your 'history files' are saved in the directory defined in DirData parameter in your AWStats config file and 'history files' format is compatible with each new version of AWStats since 5.x series. If you upgrade from 3.x or 4.x series to 5.x, 6.x or higher, AWStats will still be able to 'read' your old history files but a warning will appear to ask you to run the 'migrate' process on your old data files. Just run the command that will appear in warning message. This warning will appear only after upgrade from 3.x or 4.x series to a 5.x, 6.x or higher version and only if 'migrate' is necessary.



# 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 with configure.pl

### A) With Apache or compatible server (on Unix/Linux, Windows, MacOS...)

#### \* Step 1-1:

(if you use a package provided with a Linux distribution or Windows installer, this might be already done, however it is recommended to do it)

After downloading and running the AWStats package, you must run the configure.pl script. You will find it in the **tools** directory (If using the windows installer, the script is automatically launched):

***perl configure.pl***

This is what the script do for you (you can do all of this manually if you prefer):

A) configure.pl check your apache web server log format configuration. If you use a **common** log, configure will suggest to change it 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).

If you answer yes, configure will modify your **httpd.conf** to change all the 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, later 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/mm/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)"*

B) configure.pl will add, if not already done, the following directives to your Apache config file (note that the "/usr/local/awstats/wwwroot" path might differ according to your distribution or OS:

```
#
# Directives to add to your Apache conf file to allow use of AWStats as a CGI
#
Alias /awstatsjs "/usr/local/awstats/wwwroot/js/"
Alias /awstatsclasses "/usr/local/awstats/wwwroot/classes/"
Alias /awstatscss "/usr/local/awstats/wwwroot/css/"
Alias /awstatsicons "/usr/local/awstats/wwwroot/icon/"
ScriptAlias /awstats/ "/usr/local/awstats/wwwroot/cgi-bin/"
```

C) configure.pl restart Apache to apply the changes made in A and B.

D) configure.pl will ask you a name for a config profile. Enter here the name of your web server or any analysis profile name, for example **myvirtualhostname**.

So configure.pl will copy the file **awstats.model.conf** file into a new file named **awstats.myvirtualhostname.conf**. You can use the value of your choice instead of "myvirtualhostname". This new file must be stored in

- For Unix/Linux users: /etc/awstats.
- For Windows and other OS: Same directory than awstats.pl (so cgi-bin).

E) configure.pl finish.

#### \* Step 1–2:

Once a config file has been automatically created (by configure.pl or you package installer), it's important to edit it manually and change the "MAIN PARAMETERS" to match all your needs:

This is for example the parameters you should check seriously :

- Check/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/Change [LogType](#) value with "W" for analyzing web server log files, "S" for a streaming server log file, "M" for mail log files, "F" for ftp log files.
- Check if [LogFormat](#) has the value "1" (it means "NCSA apache combined/ELF/XLF log format") or use a personalized log format if you don't use combined log format.
- Check/Change [Dirlcons](#) parameter to reflect relative URL of awstats 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). If you have several possible name for same site, add list in [HostAlias](#) parameter.
- You can change other parameters if you want.

#### \* Step 1–3:

(if Perl interpreter is correctly setup, this step is not required)

If necessary, edit the first (top–most) line of awstats.pl file that is

```
#!/usr/bin/perl
```

to reflect the path were 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 (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*

*cs–uri–query*

*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 provided 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:**

Create a config file by copying **awstats.model.conf** file into a new file named **awstats.myvirtualhostname.conf**. You can use the value of your choice instead of "myvirtualhostname". 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 **LogType** value with "W" for analyzing web server log files, "S" for a streaming server log file, "M" for mail log files, "F" for ftp log files, "O" otherwise.

– Change **LogFormat** to a value with same field's name defined in step 1-1:

*LogFormat="date time c-ip cs-username cs-method cs-uri-stem cs-uri-query sc-status sc-bytes cs-version cs(User-Agent) cs(Referer)"*

– 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).

– Set **AllowToUpdateStatsFromBrowser** parameter to 1 if you don't have command line access and have only cgi access.

– 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, use a personalized **LogFormat** if your log format is other.

## Step 2 : Build/Update Statistics

**\* Step 2-1:**

The first analyze/update of statistics should be made the first time manually from the command line since first time, process may be long and it's easier to solve problems (if you don't have Command Line access, just go to Step 2-2). The AWStats update command line is:

**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 on screen a result like this:

*Update for config "/etc/awstats/awstats.myvirtualhostname.conf"*

With data in log file "/pathtoyourlog/yourlog.log"...

Phase 1 : First bypass old records, searching new record...

Searching new records from beginning of log file...

Phase 2 : Now process new records (Flush history on disk after 20000 hosts)...

Jumped lines in file: 0

Parsed lines in file: 225730

Found 122 dropped records,

Found 87 corrupted records,

Found 0 old records,

Found 225521 new qualified 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](#), [OnlyHosts](#), [OnlyUserAgents](#) 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 webserver 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. You understood that 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:

AWStats statistics can be updated from a browser, to provide real-time statistics, by clicking the "Update now" link that appears when AWStats is used as a CGI (Next section '[Read Statistics](#) dynamically' gives you URL to use for that).

Warning !!

To enable this link, your parameter [AllowToUpdateStatsFromBrowser](#) must be set to 1 in your config file (Link is not enabled by default).

Then, using on-line update does not prevent you from running the update process from a scheduler frequently (command is same than update of first process).

For this, you have two choices:

- Include the update command in your **logrotate** process. See [FAQ-COM120](#) for this.
- Or add instructions in your **crontab** (Unix/Linux) or your **task scheduler** (for Windows), to launch frequently the Awstats update process. See [FAQ-COM130](#) for this.

See AWStats [Benchmark page](#) for recommended update/logrotate frequency.

## 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 (jump to second solution if you have ONLY CGI access):

```
perl awstats.pl -config=myvirtualhostname -output -staticlinks > awstats.myvirtualhostname.html
```

You can 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=myvirtualhostname -output=allhosts -staticlinks >  
awstats.myvirtualhostname.allhosts.html
```

```
perl awstats.pl -config=myvirtualhostname -output=lasthosts -staticlinks >  
awstats.myvirtualhostname.lasthosts.html
```



```

perl awstats.pl --config=myvirtualhostname --output=unknownip --staticlinks >
awstats.myvirtualhostname.unknownip.html
perl awstats.pl --config=myvirtualhostname --output=alllogins --staticlinks >
awstats.myvirtualhostname.alllogins.html
perl awstats.pl --config=myvirtualhostname --output=lastlogins --staticlinks >
awstats.myvirtualhostname.lastlogins.html
perl awstats.pl --config=myvirtualhostname --output=allrobots --staticlinks >
awstats.myvirtualhostname.allrobots.html
perl awstats.pl --config=myvirtualhostname --output=lastrobots --staticlinks >
awstats.myvirtualhostname.lastrobots.html
perl awstats.pl --config=myvirtualhostname --output=urldetail --staticlinks >
awstats.myvirtualhostname.urldetail.html
perl awstats.pl --config=myvirtualhostname --output=urientry --staticlinks > awstats.myvirtualhostname.urientry.html
perl awstats.pl --config=myvirtualhostname --output=urlexit --staticlinks > awstats.myvirtualhostname.urlexit.html
perl awstats.pl --config=myvirtualhostname --output=browserdetail --staticlinks >
awstats.myvirtualhostname.browserdetail.html
perl awstats.pl --config=myvirtualhostname --output=osdetail --staticlinks >
awstats.myvirtualhostname.osdetail.html
perl awstats.pl --config=myvirtualhostname --output=unknownbrowsers --staticlinks >
awstats.myvirtualhostname.unknownbrowsers.html
perl awstats.pl --config=myvirtualhostname --output=unknownnos --staticlinks >
awstats.myvirtualhostname.unknownnos.html
perl awstats.pl --config=myvirtualhostname --output=refererse --staticlinks >
awstats.myvirtualhostname.refererse.html
perl awstats.pl --config=myvirtualhostname --output=refererpages --staticlinks >
awstats.myvirtualhostname.refererpages.html
perl awstats.pl --config=myvirtualhostname --output=keyphrases --staticlinks >
awstats.myvirtualhostname.keyphrases.html
perl awstats.pl --config=myvirtualhostname --output=keywords --staticlinks >
awstats.myvirtualhostname.keywords.html
perl awstats.pl --config=myvirtualhostname --output=errors404 --staticlinks >
awstats.myvirtualhostname.errors404.html

```

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

Note (2): You can also add a *filter* on the following output reports: **urldetail**, **urientry**, **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=myvirtualhostname --output=urldetail:/news --staticlinks >
awstats.myvirtualhostname.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**.

\* Second solution is to view dynamically your statistics from a browser. For this, use URL:  
**<http://www.myserver.mydomain/cgi-bin/awstats.pl?config=myvirtualhostname>**  
 where *myvirtualhostname* is used to know which config file to use (AWStats will use *awstats.myvirtualhostname.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=unknownnos>**

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".



## 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](#)
- [LogType](#)
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### OPTIONAL SETUP SECTION (Not required but increase AWStats features)

- [EnableLockForUpdate](#)
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- [ValidHTTPCodes](#)
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- [AuthenticatedUsersNotCaseSensitive](#)



- URLNotCaseSensitive
- URLWithAnchor
- URLQuerySeparators
- URLWithQuery
- URLWithQueryWithOnlyFollowingParameters
- URLWithQueryWithoutFollowingParameters
- URLReferrerWithQuery
- WarningMessages
- ErrorMessages
- DebugMessages
- NbOfLinesForCorruptedLog
- SplitSearchString
- WrapperScript
- DecodeUA
- MiscTrackerUrl

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

- LevelForBrowsersDetection
- LevelForOSDetection
- LevelForRefererAnalyze
- LevelForRobotsDetection
- LevelForSearchEnginesDetection
- LevelForKeywordsDetection
- LevelForFileTypesDetection
- LevelForWormsDetection

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

- UseFramesWhenCGI
- DetailedReportsOnNewWindows
- Expires
- MaxRowsInHTMLOutput
- Lang
- DirLang
- ShowHeader
- ShowMenu
- ShowMonthStats
- ShowDaysOfMonthStats
- ShowDaysOfWeekStats
- ShowHoursStats
- ShowDomainsStats
- ShowHostsStats
- ShowAuthenticatedUsers
- ShowRobotsStats
- ShowWormsStats
- ShowSessionsStats
- ShowPagesStats
- ShowCompressionStats
- ShowFileTypesStats
- ShowFileSizesStats
- ShowOSStats
- ShowBrowsersStats
- ShowScreenSizeStats
- ShowOriginStats
- ShowKeyphrasesStats
- ShowKeywordsStats
- ShowMiscStats
- ShowHTTPErrorsStats
- ShowSMTPErrorsStats

- ShowClusterStats
- AddDataArrayMonthStats
- AddDataArrayShowDaysOfMonthStats
- AddDataArrayShowDaysOfWeekStats
- AddDataArrayShowHoursStats
- MaxNbOfDomain
- MinHitDomain
- MaxNbOfHostsShown
- MinHitHost
- MaxNbOfLoginShown
- MinHitLogin
- MaxNbOfRobotShown
- MinHitRobot
- MaxNbOfPageShown
- MaxNbOfOsShown
- MinHitOs
- MaxNbOfBrowsersShown
- MinHitBrowser
- MinHitFile
- MaxNbOfScreenSizesShown
- MinHitScreenSize
- MaxNbOfRefererShown
- MinHitRefer
- MaxNbOfKeywordsShown
- MinHitKeyword
- FirstDayOfWeek
- ShowFlagLinks
- ShowLinksOnUrl
- MaxLengthOfURL
- ShowLinksToWhols
- UseHTTPSLinksForUrl
- LinksToWhols
- LinksToIPWhols
- 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](#)
- [ExtraSectionFirstColumnNameX](#)
- [ExtraSectionFirstColumnValuesX](#)
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- [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, ftp or mail 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

# %MO-n is replaced with 3 letters 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 |"
# If there is several log files from load balancing servers :
# Example: "/pathtotools/logresolvemerge.pl *.log |"
#
LogFile="/var/log/httpd/mylog.log"
```

---

## LogType

**Version : 5.7+**

```
# Enter the log file type you want to analyze.
# Possible values:
# W – For a web log file
# M – For a mail log file
# F – For a ftp log file
# Example: W
# Default: W
#
LogType=W
```

---

## 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
5.6+ for tag %deflateratio

# 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 or "your_own_personalized_log_format"
# 1 – Apache or Lotus Notes/Domino 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/CLF log format)
# With LogFormat=4, some features (browsers, os, keywords...) can't work.
# "your_own_personalized_log_format" = If your log is ftp, mail or other format,
# you must use following keys to define the log format string (See FAQ
# for ftp, mail or exotic web log format examples):
# %host Host client name or IP address
# %lognamequot Authenticated login/user with format: "alex"
# %logname Authenticated login/user with format: alex
# %time1 Date and time with format: [dd/mmm/yyyy:hh:mm:ss +0000] or [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:ZZpct.
# %gzipratio mod_gzip compression ratio: ZZpct.
# %deflateratio mod_deflate compression ratio with format: (ZZ)
```

```
# %email EMail sender (for mail log)
# %email_r EMail receiver (for mail log)
# %virtualname Web sever virtual hostname. Use this tag when same log
# contains data of several virtual web servers. AWStats
# will discard records not in SiteDomain nor HostAliases
# %cluster If log file is provided from several computers (merged by
# logresolve.pl), this tag define field of cluster id.
# 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: " "
#
LogSeparator=" "
```

---

## **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 (except if names are already available
# in log file).
# If you want/need 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: Reverse DNS lookup is done on IPv4 only (Enable ipv6 plugin for IPv6).
# Note: Result of DNS Lookup can be used to build the Country report. However
# it is highly recommended to enable the plugin 'geoipfree' or 'geoip' to
# have an accurate Country report with no need of DNS Lookup.
# Possible values:
# 0 – No DNS Lookup
# 1 – DNS Lookup is fully enabled
# 2 – DNS Lookup is made only from static DNS cache file (if it exists)
# 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/lib/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 cgi-bin directory.
# This parameter is used only when AWStats is ran from command line
# with -output option (to generate links in HTML reported page).
# Example: "/awstats"
# Default: "/cgi-bin" (means awstats.pl is in "/yourwwwroot/cgi-bin")
#
DirCgi="/cgi-bin"
```

---

## **Dirlcons**

**Version : 1.0+**

```
# Relative or absolute web URL of your awstats icon directory.
# If you build static reports ("... -output > outputpath/output.html"), enter
# path of icon directory relative to the output directory 'outputpath'.
# Example: "/awstatsicons"
# Example: "../icon"
# Default: "/icon" (means you must copy icon directories in "/mywwwroot/icon")
#
Dirlcons="/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.
# If analysing mail log, enter here the domain name of mail server.
# Example: "myintranetserver"
# Example: "www.domain.com"
# Example: "ftp.domain.com"
# Example: "domain.com"
#
SiteDomain=""
```

---

## **HostAliases**

**Version : 1.0+ (5.6+ for REGEX syntax)**

```
# 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/addresses to have the best performances.
# You can repeat the "SiteDomain" value in this list.
# 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.
# Note: Use space between each value.
# Note: You can use regular expression values writing value with REGEX[value].
# Example: "www.myserver.com localhost 127.0.0.1 REGEX[\.mydomain\. (net|org)$]"
#
HostAliases="localhost 127.0.0.1 REGEX[^\.myserver\.com$]"
```

---

### **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
```

---

### **AllowFullYearView**

**Version : 5.9+**

```
# AWStats save and sort its database on a month basis, this allows to build
# build a report quickly. However, if you choose the --month=all from command
# line or value '-Year-' from CGI combo form to have a report for all year,
# AWStats needs to reload all data for full year, and resort them completely,
# requiring a large amount of time, memory and CPU. This might be a problem
# for web hosting providers that offer AWStats for large sites on shared
# servers to non CPU cautious customers.
# For this reason, the 'full year' is only enable on Command Line by default.
# You can change this by setting this parameter to 0, 1, 2 or 3.
# Possible values:
# 0 - Never allowed
# 1 - Allowed on CLI only, -Year- value in combo is not visible
# 2 - Allowed on CLI only, -Year- value in combo is visible but not allowed
# 3 - Possible on CLI and CGI
# Default: 2
#
AllowFullYearView=2
```

---

### **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 (killed process for example requires that  
# you remove the file manually), this option is not enabled by default (Do  
# not enable this option with no console 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 used only if DNSLookup=1.  
# Note: If a DNSStaticCacheFile is available, AWStats will check for DNS  
# lookup in DNSLastUpdateCacheFile after checking into DNSStaticCacheFile.  
# Example: "/mydnscachedir/dnscachelastupdate"  
# Default: "dnscachelastupdate.txt"  
#  
DNSLastUpdateCacheFile="dnscachelastupdate.txt"

---

## **SkipDNSLookupFor**

**Version : 3.0+ (5.6+ for REGEX syntax)**

# You can specify specific IP addresses that should NOT be looked up in DNS.  
# This option is used only if DNSLookup=1.  
# Note: Use space between each value.  
# Note: You can use regular expression values writing value with REGEX[value].  
# Change : Effective for new updates only  
# Example: "123.123.123.123 REGEX[^192\.168\.]"  
# Default: ""  
#  
SkipDNSLookupFor=""

---

## **AllowAccessFromWebToAuthenticatedUsersOnly**

**Version : 4.0+**



```
# The following two parameters allow you to protect a config file from being
# read by AWStats when called from a browser if web user has not 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).
# Change : Effective immediatly
# 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.
# Change : Effective immediatly
# Example: "user1 user2"
# Default: ""
#
AllowAccessFromWebToFollowingAuthenticatedUsers=""
```

---

### **AllowAccessFromWebToFollowingIPAddresses**

**Version : 5.0+**

```
# When this parameter is defined 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 one of the IP address values or ranges.
# Change : Effective immediatly
# Example: "127.0.0.1 123.123.123.1-123.123.123.255"
# 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___") and
# don't want to have to create a new directory each time they add a new user.
# Change : Effective immediatly
# Possible values: 0 or 1
# Default: 0
#
CreateDirDataIfNotExists=1
```

---

### **BuildHistoryFormat**

**Version : 6.0+**

```
# If you can choose in which format the awstats history database is saved.
# For the moment, only text is supported.
# Possible values: text
# Default: text
#
```

BuildHistoryFormat=text

---

## **BuildReportFormat**

**Version : 6.0+**

# If you prefer having the report output pages be built as XML compliant pages  
# instead of simple HTML pages, you can set this to 'xml' (May not works  
# properly with some browsers).  
# Possible values: html or xml  
# Default: html  
#  
BuildReportFormat=html

---

## **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 file, after analyzing it. Note that AWStats is able  
# to detect new lines in a log file, to process only them, so you can launch  
# AWStats as often 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 (awstatsMMYYYY[.*.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+ (5.6+ for REGEX syntax)

```
# Do not include access from clients that match following criteria.
# If your log file contains IP addresses 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: You can use regular expression values writing value with REGEX[value].
# Change : Effective for new updates only
# Example: "127.0.0.1 REGEX[^192\168\.] REGEX[^10\0\0\0.]"
# Example: "localhost REGEX[^\.*\localdomain$]"
# Default: ""
#
SkipHosts=""
```

---

## SkipUserAgents

**Version :** 5.1+ (5.6+ for REGEX syntax)

```
# 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.
# The opposite parameter of "SkipUserAgents" is "OnlyUserAgents".
# Note: Use space between each value. This parameter is not case sensitive.
# Note: You can use regular expression values writing value with REGEX[value].
# Change : Effective for new updates only
# Example: "konqueror REGEX[ua_test_v\d\d]"
# Default: ""
#
SkipUserAgents=""
```

---

## SkipFiles

**Version :** 1.0+ (5.6+ for REGEX syntax)

```
# Use SkipFiles to ignore access to URLs that match one of following entries.
# You can enter a list of not important URLs (like framed menus, hidden pages,
# etc...) to exclude them from statistics. You must enter here exact relative
# URL as found in log file, or a matching REGEX value.
# For example, to ignore /badpage.html, just add "/badpage.html". To ignore
# all pages in a particular directory, add "REGEX[^\\directorytoexclude]".
# The opposite parameter of "SkipFiles" is "OnlyFiles".
# Note: Use space between each value. This parameter is not case sensitive.
# Note: You can use regular expression values writing value with REGEX[value].
# Change : Effective for new updates only
# Example: "/badpage.html REGEX[^\\excludedirectory]"
# Default: ""
#
SkipFiles=""
```

---

## OnlyHosts

**Version :** 5.2+ (5.6+ for REGEX syntax)

```
# 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: Use space between each value. This parameter is not case sensitive.
# Note: You can use regular expression values writing value with REGEX[value].
# Change : Effective for new updates only
# Example: "127.0.0.1 REGEX[^192\\.168\\.] REGEX[^10\\.0\\.0\\.]"
# Default: ""
#
OnlyHosts=""
```

---

## OnlyUserAgents

**Version :** 5.8+

```
# Include in stats, only accesses from user agent that match one of following
# entries. For example, if you want AWStats to filter access to keep only
# stats for visits from particular browsers, you can add their user agents
# string in this parameter.
# The opposite parameter of "OnlyUserAgents" is "SkipUserAgents".
# Note: Use space between each value. This parameter is not case sensitive.
# Note: You can use regular expression values writing value with REGEX[value].
# Change : Effective for new updates only
# Example: "msie"
# Default: ""
#
OnlyUserAgents=""
```

---

## OnlyFiles

**Version :** 3.0+ (5.6+ for REGEX syntax)

```
# 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: Use space between each value. This parameter is not case sensitive.
# Note: You can use regular expression values writing value with REGEX[value].
# Change : Effective for new updates only
# Example: "REGEX[marketing_directory] REGEX[officeV.*\.(csv|sxd)$]"
# 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 particular URLs from stats (No Pages and no
# Hits reported), you must use SkipFiles parameter.
# Example: "css js class gif jpg jpeg png bmp zip arj gz z wav mp3 wma mpg"
# Example: ""
# 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 field that represent return code in analyzed  
# log file match values defined by this parameter.  
# Change : Effective for new updates only  
# Example: "1 250 200"  
# Default: "1 250"  
#  
ValidSMTPCodes="1 250"

---

### **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 URLWithoutFollowingParameters.
# 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
```

---

### **URLWithQueryWithOnlyFollowingParameters**

**Version : 6.0+**

```
# 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 keep only parameters
# you need (if you know them) before counting, manipulating and storing it.
```

```
# Enter here list of wanted parameters. For example, with "param", one hit on
# /mypage.cgi?param=abcand /mypage.cgi?param=abc
# will be reported as 2 hits on /mypage.cgi?param=abc
# This parameter is not used when URLWithQuery is 0 and can't be used with
# URLWithQueryWithoutFollowingParameters.
# Change : Effective for new updates only
# Example: "param"
# Default: ""
#
URLWithQueryWithOnlyFollowingParameters=""
```

---

### **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=abcand /mypage.cgi?p=abc
# will be reported as 2 hits on /mypage.cgi?p=abc
# This parameter is not used when URLWithQuery is 0 and can't be used with
# URLWithQueryWithOnlyFollowingParameters.
# Change : Effective for new updates only
# 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)**

This parameter has been removed since 4.1.

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

---

## **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

---

## **MiscTrackerUrl**

**Version : 5.6+**

# MiscTrackerUrl can be used to make AWStats able to detect some miscellaneous  
# things, that can not be tracked on other way like:  
# – Screen size  
# – Screen color depth  
# – Java enabled  
# – Macromedia Director plugin  
# – Macromedia Shockwave plugin  
# – Realplayer G2 plugin  
# – QuickTime plugin  
# – Mediaplayer plugin  
# – Acrobat PDF plugin  
# To enable all this features, you must copy the awstats\_misc\_tracker.js file  
# into a /js/ directory stored in your web document root and add the following  
# HTML code at the end of your index page (before ) :  
# <script language=javascript src="/js/awstats\_misc\_tracker.js">  
# If code is not added in index page, all this detection capabilities will be  
# disabled. You must also check that ShowScreenSizeStats and ShowMiscStats  
# parameters are set to 1 to make results appear in report page.  
# If you want to use another directory than /js/, you must also change the  
# awstatsmisctrackerurl variable into the awstats\_misc\_tracker.js file.  
# Change : Effective for new updates only.  
# Possible value: Full URL of javascript tracker file added in HTML code  
# Default: "/js/awstats\_misc\_tracker.js"  
#  
MiscTrackerUrl="/js/awstats\_misc\_tracker.js"

---

## **LevelFor**

**Version : 4.0+**

6.0+ for LevelForFileTypesDetection, LevelForSearchEnginesDetection, LevelForKeywordsDetection,  
LevelForWormsDetection

# Following values allows you to define accuracy of AWStats entities (robots,  
# browsers, os, referers, file types) detection.  
# It is recommended that very important web sites or ISP that provides AWStats  
# to their customer set this parameter to 1 (or 0), instead of 2.  
# Possible values:  
# 0 = No detection,  
# 1 = Medium/Standard detection  
# 2 = Full detection  
# Change : Effective for new updates only  
# Default: 2 (0 for LevelForWormsDetection)  
#  
LevelForBrowsersDetection=2 # 0 disables Browsers detection.  
LevelForOSDetection=2 # 0 disables OS detection.  
LevelForRefererAnalyze=2 # 0 disables Origin detection.  
LevelForRobotsDetection=2 # 0 disables Robots detection.  
LevelForSearchEnginesDetection=2 # 0 disables Search engines detection.  
LevelForKeywordsDetection=2 # 0 disables Keyphrases/Keywords detection.  
LevelForFileTypesDetection=2 # 0 disables file types detection.  
LevelForWormsDetection=0 # 0 disables Worms detection.

---

### **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 cache lifetime (in seconds) that  
# will be returned to browser in HTTP header answer by server.  
# 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 (Simplified)=cn, Czech=cz,  
# Danish=dk, Dutch=nl, English=en, Estonian=et, Finnish=fi, French=fr,  
# German=de, Greek=gr, Hebrew=he, 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, Serbian=sr, Slovak=sk, Spanish=es,  
# Spanish (Catalan)=es_cat, Swedish=se, Turkish=tr, Ukrainian=ua, Welsh=wlk.  
# First available language accepted by browser=auto  
# Default: "auto"  
#  
Lang="auto"
```

---

## **DirLang**

**Version :** 2.1+

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

---

## **Show...**

**Version :**

```
3.2 – 5.3 for ShowHeader (deprecated since 5.4)  
3.2+ for ShowMenu, ShowMonthStats, 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  
5.5+ for ShowDaysOfMonthStats  
5.6+ for ShowMiscStats, ShowSTMPErrorsStats  
5.8+ for ShowClusterStats  
6.0+ for ShowWormsStats
```

```
# 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 (or mails)
```

```
# B = Bandwith (or total mail size for mail logs)
```

```
# L = Last access date
```

```
# E = Entry pages
```

```
# X = Exit pages
```

```
# C = Web compression (mod_gzip,mod_deflate)
```

```
# M = Average mail size (mail logs)
```

```
#
```

```
# Show menu header with report links
```

```
# Default: 1, Possible codes: None
```

```
ShowMenu=1
```

```
# Show monthly chart
```

```
# Default: UVPHB, Possible codes: UVPHB
```

```
ShowMonthStats=UVPHB
```

```
# Show days of month chart
```

```
# Default: VPHB, Possible codes: VPHB
```

```
ShowDaysOfMonthStats=VPHB
```

```
# 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 worms chart  
 # Default: 0 (See also LevelForWormsDetection if set), Possible codes: HBL  
 ShowWormsStats=0  
 # Show email senders chart (For use when analyzing mail log files)  
 # Default: 0, Possible codes: HBML  
 ShowEMailSenders=0  
 # Show email receivers 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 operating systems chart  
 # Default: 1, Possible codes: None  
 ShowOSStats=1  
 # Show browsers chart  
 # Default: 1, Possible codes: None  
 ShowBrowsersStats=1  
 # Show screen size chart  
 # Default: 0 (See also MiscTrackerUrl if set to 1), Possible codes: None  
 ShowScreenSizeStats=0  
 # 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 misc chart  
 # Default: a (See also MiscTrackerUrl parameter), Possible codes: ajdfqrwp  
 ShowMiscStats=a  
 # Show http errors chart  
 # Default: 1, Possible codes: None  
 ShowHTTPErrorsStats=1  
 # Show smtp errors chart (For use when analyzing mail log files)

# Default: 0, Possible codes: None  
ShowSMTPErrorsStats=0  
# Show the cluster report (Your LogFormat must contains the %cluster tag)  
# Default: 0, Possible codes: PHB  
ShowClusterStats=0

---

### **AddDataArray...**

#### **Version :**

5.4+ for AddDataArrayMonthStats, AddDataArrayShowDaysOfWeekStats, AddDataArrayShowHoursStats  
5.5+ for AddDataArrayShowDaysOfMonthStats

# Some graphical reports are followed by the data array of values.  
# If you don't want this array (to reduce report size for example), you can  
# set those options to 0.  
# Possible values: 0 or 1  
# Default: 1  
#  
# Data array values for the ShowMonthStats report  
AddDataArrayMonthStats=1  
# Data array values for the ShowDaysOfMonthStats report  
AddDataArrayShowDaysOfMonthStats=1  
# Data array values for the ShowDaysOfWeekStats report  
AddDataArrayShowDaysOfWeekStats=1  
# Data array values for the ShowHoursStats report  
AddDataArrayShowHoursStats=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  
MinHitDomain = 1  
# 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 OS  
MaxNbOfOsShown = 10  
MinHitOs = 1  
# Stats by browsers  
MaxNbOfBrowsersShown = 10  
MinHitBrowser = 1  
# Stats by screen size  
MaxNbOfScreenSizesShown = 5  
MinHitScreenSize = 1  
# Stats by referers  
MaxNbOfRefererShown = 10  
MinHitRefer = 1  
# Stats for keywords

MaxNbOfKeywordsShown = 10  
MinHitKeyword = 1  
# Stats for sender or receiver 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 ShowMenu 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

---

### **UseHTTPSLinkForUrl**

**Version : 4.0+**

# When AWStats build HTML links in its report pages, it starts thoose link  
# with "http://". However some links might be HTTPS links, so you can enter  
# here the root of all your HTTPS links. If all your site is a SSL web site,  
# just enter "/".  
# This parameter is not used if ShowLinksOnUrl is 0.  
# Example: "/shopping"  
# Example: "/"  
# Default: ""  
#  
UseHTTPSLinkForUrl=""

---

### **MaxLengthOfShownURL**

**Version : 1.0+**

# Maximum length of URL part shown on stats page (number of characters).

# This affects only URL visible text, larger links still work.  
# Default: 64  
#  
MaxLengthOfShownURL=64

---

### **ShowLinksToWhols**

**Version** : 4.0 – 5.6 (deprecated since 5.7, replaced by plugin 'hostinfo')

*This parameter has been removed since 5.7.*

*You must enable the plugin 'hostinfo' to get the same result if you were using this parameter.*

---

### **LinksToWhols**

**Version** : 4.0 – 5.9 (deprecated since 6.0, replaced by plugin 'hostinfo')

*This parameter has been removed since 6.0.*

*This parameter is no more required.*

---

### **LinksToIPWhols**

**Version** : 5.0 – 5.9 (deprecated since 6.0, replaced by plugin 'hostinfo')

*This parameter has been removed since 6.0.*

*This parameter is no more required.*

---

### **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 HTML 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 : 5.6+

# You can ask AWStats to use a particular CSS (Cascading Style Sheet) to  
# change its look. To create a style sheet, you can use samples provided with  
# AWStats in wwwroot/css directory.  
# Example: "/awstatscss/awstats\_bw.css"  
# Example: "/css/awstats\_bw.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\_titledtext,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+  
5.8 for ExtraSectionFirstColumnFormatX, ExtraSectionAddAverageRowX, ExtraSectionAddSumRowX

```
# 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 you can use to count or not the hit,
# Use one of the field condition (URL, QUERY_STRING, REFERER, UA, HOST)
# and string to match after a coma. Use "|" for "OR". If you can also use
# several conditions, they will be combined as "AND".
# ExtraSectionFirstColumnTitleX is the first column title of the chart.
# ExtraSectionFirstColumnValuesX is a Regex string to tell AWStats in which
# field to extract value from (URL, QUERY_STRING, REFERER, UA, HOST) and how
# to extract the value. Each different value found will appear in first
# column of report on a different row. Be sure that list of different values
# is "limited" to avoid "not enough memory" problems !
# ExtraSectionFirstColumnFormatX is the string used to write value.
# 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).
# ExtraSectionAddAverageRowX add a row at bottom of chart with average values.
# ExtraSectionAddSumRowX add a row at bottom of chart with sum values.
# 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|URL,/cgi-bin/order2.cgi"
ExtraSectionFirstColumnTitle1="Product ID"
ExtraSectionFirstColumnValues1="QUERY_STRING,productid=([^&]+)"
ExtraSectionFirstColumnFormat1="%s"
ExtraSectionStatTypes1=PL
ExtraSectionAddAverageRow1=0
ExtraSectionAddSumRow1=1
```

```
MaxNbOfExtra1=20
MinHitExtra1=1
```

---

### **Include**

#### **Version : 5.4+**

```
# You can include other config files using the directive with the name of the
# config file.
```

*# 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 ""*

---



## Using the Extra Sections features

The AWStats Extra Sections features are powerfull setup options to allow you to add your own report not provided by default with AWStats. You can use it to build special reports, like number of sales for a particular product, marketing reports, counting for a particular user or agent, etc...

**The following explanation is same than the one found in AWStats config file:**

```
#-----  
# EXTRA SECTIONS  
#-----  
# 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: Each Extra section reduces AWStats speed by 8%.  
#  
# WARNING: A wrong setup of Extra section might result in 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 you can use to count or not the hit,  
# Use one of the field condition (URL, QUERY_STRING, REFERER, UA, HOST),  
# and a regex to match after a coma. Use "|" for "OR". If you use several  
# conditions, they will be combined as "AND".  
# ExtraSectionFirstColumnNameX is the first column title of the chart.  
# ExtraSectionFirstColumnValuesX is a Regex string to tell AWStats in which  
# field to extract value from (URL, QUERY_STRING, REFERER, UA, HOST) and how  
# to extract the value (using regex syntax). Each different value found will  
# appear in first column of report on a different row. Be sure that list of  
# different values is "limited" to avoid "not enough memory" problems !  
# ExtraSectionFirstColumnFormatX is the string used to write value.  
# 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).  
# ExtraSectionAddAverageRowX add a row at bottom of chart with average values.  
# ExtraSectionAddSumRowX add a row at bottom of chart with sum values.  
# MaxNbOfExtraX is maximum number of rows shown in chart.  
# MinHitExtraX is minimum number of hits required to be shown in chart.
```

Warning: the ExtraSectionConditionalX MUST use regex values since AWStats 6.0.  
ExtraSectionFirstColumnValuesX also need REGEX value for all AWStats versions.  
See examples for syntax use.

**You will find here examples of ExtraSection setup you can follow to build your own reports. Try to follow them to build your own reporting tools:**

- [Tracking Product orders](#)
- [Tracking Bugzilla most frequently viewed bugs](#)

- Tracking Exit clicks
- List of top level 2 path under a directory /mydir

## Tracking Product orders

Imagine your web site is an e-store that sells 80 different products. Each of them has an id. Imagine each time, someone make an order for product 49, the order.cgi script or order2.cgi script is called with, in URL query parameter, the id of the product, meanings that you get in your log file a hit that looks like this:

```
GET /cgi-bin/order.cgi?productid=49i>
```

So this is how you need to setup your ExtraSection to track your product orders:

```
ExtraSectionName1="Product orders"
ExtraSectionCondition1="URL,Vcgi-binVorder.cgi|URL,Vcgi-binVorder2.cgi"
ExtraSectionFirstColumnTitle1="Product ID"
ExtraSectionFirstColumnValues1="QUERY_STRING,productid=([^\n\r\t\&]*)"
ExtraSectionFirstColumnFormat1="%s"
ExtraSectionStatTypes1=PL
ExtraSectionAddAverageRow1=0
ExtraSectionAddSumRow1=1
MaxNbOfExtra1=100
MinHitExtra1=1
```

## Tracking Bugzilla most frequently viewed bugs

This is an example on how to setup your ExtraSection:

```
ExtraSectionName1="Bugzilla: Most frequently viewed bugs"
ExtraSectionCondition1="URL,VbugzillaVshow_bug.cgi"
ExtraSectionFirstColumnTitle1="Bug ID"
ExtraSectionFirstColumnValues1="QUERY_STRING,id=([^\n\r\t\&]*)"
ExtraSectionFirstColumnFormat1="<a href='/bugzilla/show_bug.cgi?id=%s' target=new>%s</a>"
ExtraSectionStatTypes1=PL
ExtraSectionAddAverageRow1=0
ExtraSectionAddSumRow1=1
MaxNbOfExtra1=500
MinHitExtra1=1
```

## Tracking Exit clicks

AWStats shows you naturally the exit pages. However, you don't know where your visitor go after exiting your site since clicking on a link that point to an external link will log the viewed page on the external server and not on yours. If you want to track this, you can, using the ExtraSection and the **awredir.pl** tool (provided with AWStats).

This tool must be used as a CGI wrapper. When called on 'A HREF' link, it returns to browser a redirector to tell it to show the required page. So, to use this script, you must replace HTML href tags that points to external web sites onto your HTML pages from

```
<a href="http://externalsite/pagelinked">Link</a>
```

to

```
<a href="http://yoursite/cgi-bin/awredir.pl?url=http://externalsite/pagelinked">Link</a>
```

For your web visitor, there is no difference. However this allow you to track clicks done on links onto your web pages that point to external web sites, because an entry will be seen in your own server log like this record:

```
80.1.2.3 - - [01/Jan/2001:16:00:00 -0300] "GET /cgi-bin/awredir.pl?url=http://externalsite/pagelinked HTTP/1.1" 302
70476 "http://yoursite/pagewithlink.html" "FireBird/0.7"
```

Then, you can add in AWStats a chart to track all call to awredir.pl with keys values taken from the "url=" parameter. You will get in an independant chart, counting all external pages viewed by your visitor after exiting your site. This is for this how you must setup your ExtraSection:

```
ExtraSectionName1="Redirected Hit"
ExtraSectionCondition1="URL,Vcgi\binVawredir.pl"
ExtraSectionFirstColumnTitle1="Url"
ExtraSectionFirstColumnValues1="QUERY_STRING,url=([^\n\r\t\&@#%'\s\*\~\.\|\/\:\;\-\_]+)"
ExtraSectionStatTypes1=HL
MaxNbOfExtra1=500
MinHitExtra1=1
ExtraSectionAddSumRow1=1
```

## **List of top level 2 path under a directory /mydir**

So this is how you need to setup your ExtraSection to add a chart for a such tracking:

```
ExtraSectionName1="List of top level 2 path under /mydir"
ExtraSectionCondition1="URL,^VmydirV.*"
ExtraSectionFirstColumnTitle1="Directory name"
ExtraSectionFirstColumnValues1="URL,^VmydirV([w]+)V"
ExtraSectionStatTypes1=PHK
MaxNbOfExtra1=50
MinHitExtra1=1
```

There is a lot of other possible use for Extra Sections ...

---



## Other tools

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

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

awstats\_updateall launches update process for all AWStats config files (except awstats.model.conf) found in a particular directory, so you can easily setup a cron/scheduler job. The scanned directory is by default /etc/awstats.

Usage: awstats\_updateall.pl now [options]

Where options are:

- awstatsprog=pathtoawstatspl
- configdir=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
- builddate=%YY%MM%DD Used to add build date in built pages filenames
- staticlinksext=xxx For pages with .xxx extension instead of .html
- buildpdf[=pathtohtmldoc] Build a PDF file after building HTML pages.

Output directory must contains icon directory  
when this option is used (need 'htmldoc').

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 –site=www.myserver.com [options]

The site 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 Overwrite output file if exists

–secure Use https protocol

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

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

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

## **logresolvevmerge.pl**

logresolvevmerge 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.

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

logresolvevmerge is part of AWStats but can be used alone as a log merger or resolver before using any other log analyzer.

Usage:

logresolvevmerge.pl [options] file

logresolvevmerge.pl [options] file1 ... fileN

logresolvevmerge.pl [options] \*.\*

Options:

–dnslookup make a reverse DNS lookup on IP addresses

–dnscache=file make DNS lookup from cache file first before network lookup

–showsteps print on stderr benchmark information every 8192 lines

–addfilenum if used with several files, file number can be added in first field of output file.

This runs logresolvevmerge 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 (if wanted). The result log file is sent on standard output.

Note: logresolvevmerge is not a 'sort' tool to sort one file. It's a software able to output sorted log records (with a reverse DNS lookup included or not) even if log records are dispatched in several files.



Each of those files must be already independently sorted itself (but that is the case in all web server log files). So you can use it for load balanced log files or to process several old log files.

Don't forget that the main goal of logresolvemerge is to send log records to a log analyzer in a sorted order without merging files on disk (NO NEED OF DISK SPACE AT ALL) and without loading files into memory (NO NEED OF MORE MEMORY). Choose of output records is done on the fly.

So logresolvemerge is particularly usefull when you want to output several and/or large log files in a fast process, with no use of disk or more memory and in a chronological order through a pipe (to be used by a log analyzer).

Note: If input records are not 'exactly' sorted but 'nearly' sorted (this occurs with heavy servers), this is not a problem, the output will also be 'nearly' sorted but a few log analyzers (like AWStats) knows how to deal with such logs.

WARNING: If log files are old MAC text files (lines ended with CR char), you can't run this tool on Win or Unix platforms.

Now supports/detects:  
Automatic detection of log format  
Files can be .gz/.bz2 files if zcat/bzcat tools are available in PATH.  
New versions and FAQ at <http://awstats.sourceforge.net>

---



## AWStats Webmin module

This page is designed to help users of the 'Webmin' administration tool ([www.webmin.com](http://www.webmin.com)) to manage their AWStats config/tools. If you don't use it, you don't need to read what is described here.

- Adding the AWStats Webmin module to Webmin interface
- Setup of the AWStats Webmin module
- Using the AWStats Webmin module

### Adding the AWStats Webmin module to Webmin interface

- Run Webmin, go to "Webmin Configuration".
- Click on "Webmin Modules".
- Enter in the "Install module", the path of the `awstats-x.x.wbm` file (this file is provided with AWStats in *tools/webmin* directory or can be downloaded separately from AWStats web site) and click "Install module".  
After that a new entry "AWStats LogFile Analysis" should appear in your Webmin menu.

### Setup of the AWStats Webmin module

- Run Webmin, go to the "AWStats LogFile Analysis" menu.
- Click on the "Module configuration".
- You must now enter here values for:
  - Absolute filesystem path to AWStats (CLI)  
It's the full path of the `awstats.pl` script. Path depends on package you use.  
It could be `/usr/local/awstats/wwwroot/cgi-bin/awstats.pl`
  - Absolute or relative URL path to AWStats (CGI)  
It's absolute or relative URL you must enter to run AWStats as a CGI. This depends on the way you setup your web server and cgi directories.  
It could be `/cgi-bin/awstats.pl` or `http://127.0.0.1/awstats/awstats.pl`.
  - Sample AWStats configuration file  
This is the sample file used to create a new config file.  
In most cases it must be `/etc/awstats/awstats.model.conf`.

### Using the AWStats Webmin module

- Just run Webmin, go to the "AWStats LogFile Analysis" menu.
  - You can now, add, edit or delete config files.
  - You can also update or view statistics for a particular config file.
-



## 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", "webcopier"...

---

### Add To Favourites:

This value, available in the "miscellaneous chart", reports an estimated value of the number of times a visitor has added your

web site into its favourite bookmarks.

The technical rules for that is the following formula:

*Number of Add to Favourites* = *round((x+y) / r)*

where

x = Number of hits made by IE browsers for "/anydir/favicon.ico" with no 404 error

y = Number of hits made by IE browsers for "/favicon.ico" (with or without 404 error)

r = Ratio of hits made by IE browsers compared to hits made by all browsers (r <= 1)

As you can see in formula, only IE is used to count reliable "add", the "Add to favourites" for other browsers are estimated using ratio of other browsers usage compared to ratio of IE usage. The reason is that only IE do a hit on favicon.ico ONLY when a user add the page to its favourites. The other browsers make hits on this file also for other reasons so we can't count one "hit" as one "add" since it might be a hit for another reason.

AWStats differentiate also hits with error and not to avoid counting multiple hits made recursively in upper path when favicon.ico file is not found in deeper directory of path.

---

## HTTP Status Codes:

HTTP status codes are returned by web servers to indicate the status of a request. Codes **200** and **304** are used to tell the browser the page can be viewed. All other codes generates hits and traffic 'not seen' by the visitor. For example a return code 301 or 302 will tell the browser to ask another page. The browser will do another hit and should finally receive the page with a return code **200** and **304**. All codes that are 'unseen' traffic are isolated by AWStats in the HTTP Status report chart, enabled by the directives [ShowHTTPErrorsStats](#). in config file. You can also change value for 'not error' hits (set by default to **200** and **304** with the [ValidHTTPcodes](#) directive. The following table outlines all status codes defined for the HTTP/1.1 draft specification outlined in [IETF rfc 2068](#).

They are 3-digit codes where the first digit of this code identifies the class of the status code and the remaining 2 digits correspond to the specific condition within the response class. They are classified in 5 categories:

- [1xx – informational](#)
- [2xx – successful](#)
- [3xx – redirection](#)
- [4xx – client error](#)
- [5xx – server error](#)

### 1xx class – Informational

Informational status codes are provisional responses from the web server... they give the client a heads-up on what the server is doing. Informational codes do not indicate an error condition.

<b>100</b>	<b>100 Continue</b> The continue status code tells the browser to continue sending a request to the server.
<b>101</b>	<b>101 Switching Protocols</b> The server sends this response when the client asks to switch from HTTP/1.0 to HTTP/1.1

### 2xx class – Successful

This class of status code indicates that the client's request was received, understood, and successful.

<b>200</b>	<b>200 Successful</b>
<b>201</b>	<b>201 Created</b>
<b>202</b>	<b>202 Accepted</b>
<b>203</b>	<b>203 Non–Authorative Information</b>
<b>204</b>	<b>204 No Content</b>
<b>205</b>	<b>205 Reset Content</b>
<b>206</b>	<b>206 Partial Content</b> The partial content success code is issued when the server fulfills a partial GET request. This happens when the client is downloading a multi-part document or part of a larger file.

### 3xx class – Redirection

This code tells the client that the browser should be redirected to another URL in order to complete the request. This is not an error condition.

300	300 Multiple Choices
301	301 Moved Permanently
302	302 Moved Temporarily
303	303 See Other
304	304 Not Modified
305	305 Use Proxy

#### 4xx class – Client Error

This status code indicates that the client has sent bad data or a malformed request to the server. Client errors are generally issued by the webserver when a client tries to gain access to a protected area using a bad username and password.

400	400 Bad Request
401	401 Unauthorized
402	402 Payment Required
403	403 Forbidden
404	404 Not Found
405	405 Method Not Allowed
406	406 Not Acceptable
407	407 Proxy Authentication Required
408	408 Request Timeout
409	409 Conflict
410	410 Gone
411	411 Length Required
412	412 Precondition Failed
413	413 Request Entity Too Long
414	414 Request-URI Too Long
415	415 Unsupported Media Type

#### 5xx class – Server Error

This status code indicates that the client's request couldn't be successfully processed due to some internal error in the web server. These error codes may indicate something is seriously wrong with the web server.

500	<b>500 Internal Server Error</b> An internal server error has caused the server to abort your request. This is an error condition that may also indicate a misconfiguration with the web server. However, the most common reason for 500 server errors is when you try to execute a script that has syntax errors.
501	<b>501 Not Implemented</b> This code is generated by a webserver when the client requests a service that is not implemented on the server. Typically, not implemented codes are returned when a client attempts to POST data to a non-CGI (ie, the form action tag refers to a non-executable file).
502	<b>502 Bad Gateway</b> The server, when acting as a proxy, issues this response when it receives a bad response from an upstream or support server.
503	<b>503 Service Unavailable</b> The web server is too busy processing current requests to listen to a new client. This error represents a serious problem with the webserver (normally solved with a reboot).
504	<b>504 Gateway Timeout</b> Gateway timeouts are normally issued by proxy servers when an upstream or support server doesn't respond to a request in a timely fashion.
505	<b>505 HTTP Version Not Supported</b> The server issues this status code when a client tries to talk using an HTTP protocol that the server doesn't support or is configured to ignore.

## SMTP Status Codes:

SMTP status codes are returned by mail servers to indicate the status of a sending/receiving mail. The status code depends on mail server and preprocessor used to analyze log file.

All codes that are failure codes are isolated by AWStats in the SMTP Status report chart, enabled by the directives [ShowSMTPErrorsStats](#) in AWStats config file. You can decide which codes are successful mail transfer that should not appear in this chart with the [ValidSMTPCodes](#) directive.

Here are values reported for most mail servers (This should also be values when mail log file is preprocessing with maillogconvert.pl).

SMTP Errors are classified in 3 categories:

- [2xx/3xx](#) – successful
- [4xx](#) – failure, asking sender to try later
- [5xx](#) – permanent failure

### 2xx/3xx class – Success

They are SMTP protocols successful answers

<b>200</b>	<b>200 Non standard success response</b> Non standard success response
<b>211</b>	<b>211 System status, or system help reply</b> System status, or system help reply
<b>214</b>	<b>214 Help message</b> Help message
<b>220</b>	<b>220 Service ready</b> Service ready
<b>221</b>	<b>221 Service closing transmission channel</b> Service closing transmission channel
<b>250</b>	<b>250 Requested mail action taken and completed</b> Your ISP mail server have successfully executes a command and the DNS is reporting a positive delivery.
<b>251</b>	<b>251 User not local: will forward to</b> Your message to a specified email address is not local to the mail server, but it will accept and forward the message to a different recipient email address.
<b>252</b>	<b>252 Recipient cannot be verified</b> Recipient cannot be verified but mail server accepts the message and attempts delivery
<b>354</b>	<b>354 Start mail input and end with .</b> Indicates mail server is ready to accept the message or instruct your mail client to send the message body after the mail server have received the message headers.

### 4xx class – Temporary Errors

Those codes are temporary error message. They are used to tell client sender that an error occurred but he can try to solve it but trying again, so in most cases, clients that receive such codes will keep the mail in their queue and will try again later.

<b>421</b>	<b>421 Service not available, closing transmission channel</b> This may be a reply to any command if the service knows it must shut down.
<b>450</b>	<b>450 Requested mail action not taken: mailbox busy or access denied</b> Your ISP mail server indicates that an email address does not exist or the mailbox is busy. It could be the network connection went down while sending, or it could also happen if the remote mail server does not want to accept mail from you for some reason i.e. (IP address, From address, Recipient, etc.)
<b>451</b>	<b>451 Requested mail action aborted: error in processing</b> Your ISP mail server indicates that the mailing has been interrupted, usually due to overloading from too many messages or transient failure is one in which the message sent is valid, but some temporary event prevents the successful sending of the message. Sending in the future may be successful.
<b>452</b>	<b>452 Requested mail action not taken: insufficient system storage</b> Your ISP mail server indicates, probable overloading from too many messages and sending in the future may be successful.
<b>453</b>	<b>453 Too many messages</b> Some mail servers have the option to reduce the number of concurrent connection and also the number of messages sent per connection. If you have a lot of messages queued up it could go over the max number of messages per connection. To see if this is the case you can try submitting only a few messages to that domain at a time and then keep increasing the number until you find the maximum number accepted by the server.

### 5xx class – Permanent Errors

This is permanent error codes. Mail transfer is definitely a failure.

500	<b>500 Syntax error, command unrecognized or command line too long</b>
501	<b>501 Syntax error in parameters or arguments</b>
502	<b>502 Command not implemented</b>
503	<b>503 Server encountered bad sequence of commands</b>
504	<b>504 Command parameter not implemented</b>
521	<b>521 does not accept mail or closing transmission channel</b> You must be pop-authenticated before you can use this SMTP server and you must use your mail address for the Sender/From field.
530	<b>530 Access denied</b> A sendmailism ?
550	<b>550 Requested mail action not taken (Relaying not allowed, Unknown recipient user, ...)</b> Sending an email to recipients outside of your domain are not allowed or your mail server does not know that you have access to use it for relaying messages and authentication is required. Or to prevent the sending of SPAM some mail servers will not allow (relay) send mail to any e-mail using another company's network and computer resources.
551	<b>551 User not local: please try or Invalid Address: Relay request denied</b>
552	<b>552 Requested mail action aborted: exceeded storage allocation</b> ISP mail server indicates, probable overloading from too many messages.
553	<b>553 Requested mail action not taken: mailbox name not allowed</b> Some mail servers have the option to reduce the number of concurrent connection and also the number of messages sent per connection. If you have a lot of messages queued up (being sent) for a domain, it could go over the maximum number of messages per connection and/or some change to the message and/or destination must be made for successful delivery.
554	<b>554 Requested mail action rejected: access denied</b>
557	<b>557 Too many duplicate messages</b> Resource temporarily unavailable Indicates (probable) that there is some kind of anti-spam system on the mail server.



## Log analyzers Comparisons

### Comparison between AWStats and other famous statistics tools

Features/Softwares	AWStats	Analog	Webalizer	HitBox
Version – Date	5.7 – August 2003	5.32 – April 2003	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)	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
Works with personalized log format	Yes	Yes	No	NA
Analyze Web/Ftp/Mail log files	Yes/Yes/Yes	Yes/No/No	Yes/No/No	NA/No/No
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 *****
	Pages *****		Not supported	Pages *****



Statistics for unique visitors are based on		Not supported		
Report countries	From IP location or domain name	Domain name	Domain name	?
Report hosts	Yes	Yes	Yes	Yes
Whols link on hosts	Yes	No	No	No
Report authenticated users	Yes	Yes	No	No
Report/Filter robots (nb detected)	Yes/Yes (307**)	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,mod_deflate)	Yes	No	No	No
Report file types	Yes	Yes	No	No
Report by file size	No	Yes	No	No
Report OS (nb detected)	Yes (32)	Yes (29)	No (0)	?
Report browsers (nb detected)	Yes (89*)	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 screen sizes	Yes	No	No	Yes
Report tech supported by browser for Java/Flash/PDF	Yes/Yes/Yes	No/No/No	No/No/No	No/No/No
Report audio format supported by browser for Real/QuickTime/Mediaplayer	Yes/Yes/Yes	No/No/No	No/No/No	No/No/No
Report search engines used (nb detected)	Yes (99***)	Yes (24)	No (0)	Yes (
Report keywords/keyphrases used on search engines (nb detected)	Yes/Yes (96***)	Yes/No (29***)	No/Yes (14***)	Yes/No (

Report external referring web page with/without query	Yes/Yes	No/No	No/Yes	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	Yes	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, standard Perl 5.8, Athlon 1Ghz)	4500****	39000****	12000****	NA No program to run
Benchmark with DNS lookup in lines/seconds (full features enabled, with XLF format, standard Perl 5.8, Athlon 1Ghz)	80****	80****	80****	NA No program to run
Reuse of analyzed data by other tools	Easy (database=described text files)	Database not saved	Not easy (database=undocumented text file)	Not possible
Export statistics to PDF	Experimental	No	No	No
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 [robotlist.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.

\*\*\*\* Most log analyzers have poor (or not at all) robots, search engines, os or browsers detection capabilities and less features (no or poor visits count, no filter rules, etc...).

It is not possible to add all AWStats features to other log analyzers, so don't forget that benchmarks results are for 'different features'. For this benchmark, I did just complete Webalizer and Analog robots or search engines databases with part of AWStats database. So Webalizer config file was completed with this [file](#), Analog config file was completed with this [file](#). Note that without this very light add (using default conf file), Webalizer speed is 3 times faster, Analog is 15% faster).

Benchmark 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).

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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 5.3 and a common configuration:

HARDWARE: Athlon 1 GHz / 128Mb

SOFTWARE: Windows 2000 / Perl 5.8 (Standard Perl)

CONFIG OPTIONS: Default values were used: [LogFormat=1](#), [DNSLookup=0](#), [URLWithQuery=0](#), [URLReferrerWithQuery=0](#), [URLWithAnchor=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 **320 times** (NCSA extended/XLF/ELF log files) its number of lines,

– **1,000 visits = 8,000 pages** (with 8 pages/visits) = **64,000 lines** (with 8 hits/page) = **20 MB file => 15 seconds** (Athlon 1GHz, Standard Perl 5.8)

– History files (resuming the log analysis) has the following size (one file a month) : **15000+90\*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 with default configuration. 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 DNS lookup is so slow (depending on Internet network and your system), that if enabled in AWStats configuration file, it would take more than **99%** of the time of a log analysis ! Take 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 traffic	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 day Log files are 0–1 MB 2000 lines to process	4 MB free	2mn
	0 (or 2)	0 or 1	0 or 1	Once a day Log files are 0–1 MB 2000 lines to process	4 MB free	1s
1,000 – 10,000 visits/month	1	0 or 1	0 or 1	Once a day Log files are 1–10 MB 2000–20000 lines	4–8 MB free	2–10mn

	0 (or 2)	0 or 1	0 or 1	Once a day Log files are 1–10 MB 2000–20000 lines	4–8 MB free	1–10s
10,000 – 100,000 visits/month	1	0 or 1	0 or 1	Every 12 hours Log files are 5–50 MB 10000–100000 lines	8–16 MB free	5–50mn
	0 (or 2)	0 or 1	0 or 1	Every 12 hours Log Files are 5–50 MB 10000–100000 lines	8–16 MB free	5–50s
100,000 – 500,000 visits/month	1	0	0 or 1	Every hour Log Files are 4–16 MB 10000–50000 lines	16–64 MB free	5–25mn
	0 (or 2)	0	0 or 1	Every hour Log Files are 4–16 MB 10000–50000 lines	16–64 MB free	5–25s
500,000 – 2,000,000 visits/month	0 (or 2)	0	0	Every hour Log Files are 16–64 MB 50000–200000 lines	64–256 MB free	25–120s
2,000,000 – 4,000,000 visits/month	0 (or 2)	0	0	Every hour Log Files are 64–128 MB 200000–400000 lines	256–512 MB free	120–240s
+4,000,000 visits/month	AWStats is not a good choice for such web sites. Try a tool with less features but faster like "row counter log analyzers" like <a href="#">Analog</a> (Can try also <a href="#">Webalizer</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).

\*\* This is free memory required for update process (in MB), this is not hardware memory installed !

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, Standard Perl 5.8 and LogFormat=1.

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

★★★★★ – Check that [DNSLookup](#) is disabled in AWStats (DNSLookup must be set to 0, or 2 to only use a DNS file resolver). Note that you still can have a 'Country' report without DNS lookup enabled. For this you must enable the 'geoip' plugin. Without this plugin, 'Country' report will works 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). With DNSLookup enabled, log analyze speed is decreased by 40 to 100 times.

★★★★★ – Use carefully parameters [URLWithQuery](#), [URLReferrerWithQuery](#) and [URLWithAnchor](#) (Let them set to 0 if you don't know what they means) and check your web site URLs' syntax to know if you don't need to complete the 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 last Perl version (For example 5.8 is 5% faster than 5.6) and, more important, use standard Perl distribution

instead of ActiveState (For example Standard Perl 5.8 Win32 binary is 25% faster than ActiveState. And ActiveState 5.006, and may be other versions, have important memory problems making speed of analysis slower and slower when analysing more and more lines).

★★ – Use last AWStats version.

★ – 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).

---



## 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/directory for config/domain1 are read protected, only allowed users can see statistics for config/domain1.

If AWStats database files/directory 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.

You can also set [SaveDatabaseFilesWithPermissionsForEveryone](#) parameter to 0 in all config/domain files, except if you want to allow update from web with option [AllowToUpdateStatsFromBrowser](#)=1. But this is not recommended as you need to give read/write permission for Web server user on all history files (Except if you setuid AWStats script for each authorized user, but this make setup much harder).

The following parameters [ErrorMessages](#) and [DebugMessages](#) are also parameters related to security.

Other tip: If the **AWSTATS\_FORCE\_CONFIG** environment variable is defined, AWStats will always use the config file *awstats.VALUE\_OF\_AWSTATS\_FORCE\_CONFIG.conf* as the config/domain file. So if you add this environment variable into your web server environment, for example by adding the line

```
SetEnv AWSTATS_FORCE_CONFIG configvalueforthisdomain
```

in your Apache *<VirtualHost>* directive group in httpd.conf (with other directives), AWStats will use the config file called *awstats.configvalueforthisdomain.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 usefull for those who edit their config/domain file with [AllowAccessFromWebToFollowingAuthenticatedUsers](#)="\_\_REMOTE\_USER\_\_" instead of maintaining the list of authorized users into each AWStats config file.

### **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 and operating systems security features. Just use the one you need...







## 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 ?](#)

### COMMON SETUP/USAGE QUESTIONS:

Here, you can find the most common questions and answers about AWStats setup/usage process.

- FAQ-COM025 [How to use AWStats with no server log](#)
- FAQ-COM050 [What is the log size limit AWStats can analyze ?](#)
- FAQ-COM090 [Setup for FTP server log files.](#)
- FAQ-COM100 [Setup for MAIL log files \(Sendmail, Postfix, QMail, MDAemon, Exchange\).](#)
- FAQ-COM110 [Setup for MEDIA SERVER log files \(Realmedia, Windows media, Darwin streaming server\).](#)
- FAQ-COM120 [How to rotate my logs without losing data.](#)
- FAQ-COM130 [How to run AWStats frequently ?](#)
- FAQ-COM140 [How to exclude my IP address \(or whole subnet mask\) from stats ?](#)
- FAQ-COM145 [How to use the Extra Sections features ?](#)
- 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-COM600 [How can I compile and build statistics on a daily basis only ?](#)
- FAQ-COM700 [Can I safely remove a line in AWStats history files \(awstatsMMYYYY\\*.txt\) ?](#)

### ERRORS/TROUBLESHOOTING QUESTIONS:

Here, you can find the most common questions and answers about errors or problems using AWStats.

- 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-SET270 [Only corrupted/dropped records](#)
- FAQ-SET280 [Error "Not same number of records of..."](#)
- FAQ-SET300 [Error "Couldn't open file ..."](#)
- FAQ-SET320 [Error "Malformed UTF-8 character \(unexpected..."](#)
- 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-SET700 [My visits are doubled for old month I migrated from 3.2 to 5.x](#)
- FAQ-SET800 [AWStats speed/timeout problems.](#)

### 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 (RedHat, Mandrake, Debian, Suse...)**, Macintosh, **Solaris, Aix**, BeOS, ...

Web/Wap/Proxy/Streaming servers

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

FTP servers

**ProFTP**, ...

Mails servers

**Sendmail, Postfix**, QMail, **Mdaemon**, 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 very short examples of possible log format:

*Apache common log format (see Note\*),*

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

*Any other personalized Apache log format,*

*Any IIS log format (known as W3C format),*

*Webstar native log format,*

*Realmedia server, Windows Media Server, Darwin streaming server,*

*ProFTP server,*

*Postfix, Sendmail, QMail, Mdaemon*

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

*Note\*: 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 39 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, Catalan=ca, Chinese (Taiwan)=tw, Chinese (Simplified)=cn, Czech=cz, Danish=dk, Dutch=nl, English=en, Estonian=et, Euskara=eu, Finnish=fi, French=fr, Galician=gl, German=de, Greek=gr,

Hebrew=he, Hungarian=hu, Icelandic=is, 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, Serbian=sr, Slovak=sk, Spanish=es, Swedish=se, Turkish=tr, Ukrainian=ua, Welsh=wlk.

However, AWStats documentation is only provided in English.

But, you may find small documentation for other languages made by contributors on [Documentation Contrib](#) page.

#### **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-COM025 : 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 should not be able to use AWStats. However, this is a trick that you can use to have a log file be build. You must add a tag to call a CGI script like pslogger into each of your web pages. This will allow you to have an artificial log file that can be analyzed by AWStats.

You can find a Perl version of CGI pslogger enhanced by AWStats author [here](#) or a php version of CGI pslogger made by Florent CHANTRET [here](#).

#### **FAQ-COM050 : WHAT IS THE LOG SIZE LIMIT AWSTATS CAN ANALYZE**

PROBLEM:

I know I must run AWStats update process frequently on new log files, this means those files have a regular size, but for my first update, I want/need to run update process on old log files that are very large. Is there a limit on log file size AWStats can analyze ?

SOLUTION:

No. There is no limit in AWStats. This means you can use it on large log files (test were made on 30GB log files).

However your system (Operating System or Perl version) might have a limit. For example, you can experience size limit errors on files larger than 2 or 4 GB. If limit is Perl only, try to use a Perl version compiled with "large file" option.

If you can't find it nor build it, you can try to use a LogFile parameter that looks like this `LogFile="cat /yourlogfilepath/yourlogfile |"` instead of `LogFile="/yourlogfilepath/yourlogfile"`

#### **FAQ-COM090 : 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 can be used with some FTP server log files.

1- Setup your FTP log file format:

With ProFTP, 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.

Download a file by FTP and check that your new log file looks like this:

```
[01/Jan/2001:21:49:57 +0200] ftp.server.com user RETR /home/fileiget.txt 226 1499
```

2- Then setup AWStats to analyze the FTP log file:

Copy config `awstats.model.conf` file to "`awstats.proftpd.conf`".

Modify this new config file:

```
LogFile="/var/log/xferlog"
LogType=F
LogFormat="%time1 %host %logname %method %url %code %bytesd"
LogSeparator="\t"
NotPageList=""
LevelForBrowsersDetection=0
LevelForOSDetection=0
LevelForRefererAnalyze=0
LevelForRobotsDetection=0
LevelForSearchEnginesDetection=0
ShowLinksOnUrl=0
ShowMenu=1
ShowMonthStats=UVHB
ShowDaysOfMonthStats=HB
ShowDaysOfWeekStats=HB
ShowHoursStats=HB
ShowDomainsStats=HB
ShowHostsStats=HBL
ShowAuthenticatedUsers=HBL
ShowRobotsStats=0
ShowEMailSenders=0
ShowEMailReceivers=0
ShowSessionsStats=1
ShowPagesStats=PBEX
ShowFileTypesStats=HB
ShowFileSizesStats=0
ShowBrowsersStats=0
ShowOSStats=0
ShowOriginStats=0
ShowKeyphrasesStats=0
ShowKeywordsStats=0
ShowMiscStats=0
ShowHTTPErrorsStats=0
ShowSMTPErrorsStats=0
```

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

### **FAQ-COM100 : SETUP FOR MAIL LOG FILES (SENDMAIL, POSTFIX, QMAIL, MDAEMON, EXCHANGE...)**

PROBLEM:

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

SOLUTION:

This tip works with AWStats 5.5 or higher.

#### **For Postfix, Sendmail, QMail or MDAemon log files**

You must setup AWStats to use a mail log file preprocessor (*maillogconvert.pl* is provided into AWStats *tools* directory, but you can use the one of your choice):

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

Modify this new config file:

```
For standard Postfix, Sendmail and standard QMail logfiles, set
LogFile="perl /path/to/maillogconvert.pl standard < /path/to/maillog/maillog |"
If the logfiles are compressed, they can be processed this way
LogFile="gzip -cd /var/log/maillog.0.gz | /path/to/maillogconvert.pl standard |"
And for VAdmin QMail logfiles (multi-host/virtualhost mail servers running vadmin software)
LogFile="perl /path/to/maillogconvert.pl vadmin < /path/to/maillog/maillog |"
Then change:
LogType=M
LogFormat="%time2 %email %email_r %host %host_r %method %url %code %bytesd"
```

```

LevelForBrowsersDetection=0
LevelForOSDetection=0
LevelForRefererAnalyze=0
LevelForRobotsDetection=0
LevelForSearchEnginesDetection=0
LevelForFileTypesDetection=0
ShowMenu=1
ShowMonthStats=HB
ShowDaysOfMonthStats=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
ShowMiscStats=0
ShowHTTPErrorsStats=0
ShowSMTPErrorsStats=1

```

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

#### For Exchange log files

Despite the high number of possible log format provided with Exchange, none of them is built enough seriously to offer an interesting analyze (missing informations, messy data, no id to join multiple records for same mail, etc...). For this reason, an "interesting" log analysis is a joke with Exchange log files (No data is better than false data). So forget using AWStats or use a more serious mail server (sendmail, postfix, qmail, mdaemon, ...). Sorry.

### **FAQ-COM110 : SETUP FOR A MEDIA SERVER (REALMEDIA, WINDOWS MEDIA SERVER)**

#### **PROBLEM:**

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

#### **SOLUTION:**

#### For Realmedia

Your log file will probably looks like this:

```

216.125.146.50 - - [16/Sep/2002:14:57:21 -0500] "GET cme/rhythmcity/rcitycaddy.rm?cloakport=8080,554,7070
RTSP/1.0" 200 6672 [Win95_4.0_6.0.9.374_play32_NS80_en-US_586] [80d280e1-c9ae-11d6-fa53-d52aaed98681]
[UNKNOWN] 281712 141 3 0 0 494

```

Copy config awstats.model.conf file to "awstats.mediaserver.conf". Modify this new config file:

```

LogFile="/pathtomediaserverlog/mediaserverlog"
LogType=S
LogFormat="%host %other %logname %time1 %methodurl %code %bytesd %uabacket %other %other %other
%other %other %other %other %other"
LogSeparator="\s+"
ShowMenu=1
ShowMonthStats=UHB
ShowDaysOfMonthStats=HB
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
ShowMiscStats=0
ShowHTTPErrorsStats=1
ShowSMTPErrorsStats=0
```

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

#### For Windows Media Server / Darwin Streaming Server

1– If your Windows Media / Darwin streaming Server version allows it, setup your 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 -- wmpplayer.exe 8.0.0.4477 Windows_2000
5.1.0.2600 Pentium 0 0 20702 mms TCP Windows_Media_Audio_9 -- 277721
```

If your Windows Media/Darwin Streaming Server version does not allow to define your log format:

Just follow instructions in step 2 directly but use the log format string found in first lines of your log files (Just after the "#Fields:" string) as value for AWStats LogFormat parameter. For example, you could have a LogFormat defined like this:

LogFormat="c-ip date time c-dns 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 c-bytes s-pkts-sent c-pkts-received c-pkts-lost-client c-pkts-lost-net c-pkts-lost-cont-net c-resendreqs c-pkts-recovered-ECC c-pkts-recovered-resent c-buffercount c-totalbuffertime c-quality s-ip s-dns s-totalclients s-cpu-util"

This means you don't use the AWStats tags but AWStats can often also understand all the IIS and/or Windows Media Server tags.

2- 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"
LogType=S
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"
DecodeUA=1
ShowMenu=1
ShowMonthStats=UHB
ShowDaysOfMonthStats=HB
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=H
ShowKeyphrasesStats=0
ShowKeywordsStats=0
ShowMiscStats=0
ShowHTTPErrorsStats=1
ShowSMTPErrorsStats=0
```

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

## **FAQ-COM120 : HOW TO ROTATE MY LOGS WITHOUT LOOSING DATA**

PROBLEM:

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

SOLUTION:

- If your config file is setup with a [LogFile](#) parameter that point to your current running log file (required if you want to use the [AllowToUpdateStatsFromBrowser](#) option to have "real-time" statistics), to avoid losing too much records during the rotate process, you must run the AWStats update JUST BEFORE the rotate process is done.

The best way to do that on Linux like OS is to use the linux built-in logrotate feature. You must edit the logrotate config file used for you web server log file (usually stored in /etc/logrotate.d directory) by adding the AWStats update process as a preprocessor command, like this example (bold lines are lines to add for having a prerotate process):

```
/usr/local/apache/logs/*log
{
notifempty
daily
rotate 7
compress
sharedscripts
```



```

prerotate
/usr/local/awstats/wwwroot/cgi-bin/awstats.pl --update --config=mydomainconfig
endscript
postrotate
/usr/bin/killall -HUP httpd
endscript
}

```

If using a such solution, this is sequential step that happens:

A	logrotate is started (by cron)	Start of logrotate	04:02:00
B	awstats --update is launched by logrotate	Start of awstats	04:02:01
C	awstats read the log file		04:02:02
D	awstats has reached the end of log file. It start to save its database on disk.		04:05:00
E	awstats has finished to save its new database, so it stops	End of awstats	04:06:00
F	logrotate move old log file <i>file.log</i> to a new name <i>file.log.sav</i> . Apache now logs in <i>file.log.new</i> since log file handle has not been changed (only log file name).	Log move	04:06:01
G	logrotate send the -HUP or -USR1 signal to Apache. With -HUP, Apache immediatly kills all its child process/thread, close log file <i>file.log.sav</i> , and reopen file <i>file.log</i> . So now, ALL hits are written to new file. With -USR1, Apache only ask its child process/thread to stop only when HTTP request will be completely served, but it closes immediatly log file <i>file.log.sav</i> , and reopen file <i>file.log</i> . So only NEW hits are written to new log file. Still running HTTP requests will write in old one.	Apache restart	04:06:02
H	logrotate start compress the old log file <i>file.log.sav</i> into <i>file.log.gz</i>	Start compress	04:06:03
I	If some apache threads are still running (because the kill sent was -USR1, so child process are waiting end of request before to stop), then those process are still writing to <i>file.log.sav</i> . If kill -HUP was used, no problem, all process are already restarted.		
J	logrotate has finished to compress log file. File <i>file.log.sav</i> is deleted.	End of compress End of logrotate	04:07:03
K	If signal was -USR1, some old childs can still run (when serving a very long request for example). So the log writing, still done in same file handle are going to a file that has been removed. So log writing are lost nowhere.		

The advantage of this solution is that it is a very common way of working, used by a lot of products, and easy to setup.

You will notice that you can "loose" some hits:

If you use the -HUP signal, you will only loose all hits that were written during D and E. Note that you will also break all requests still running at G. In the example, it's a 1 minute lost (for small or medium web sites, it will be less than few seconds), so this give you an error less than 0.07% (less for small web sites). This is not significant, above all for a "statistics" program.

If you use the -USR1 signal, you will not kill any request. But you will loose all hits that were wrote during D and E (like with -HUP) but also all hits that are still running after H (all very long request that requires several minutes to be served). If hit ends during I, it is wrote in a log file already analyzed, if hit ends at K, it is wrote nowhere. In the example, it's a also a 0.07% error plus error for other not visible hits that were finished during I or K, but number of such hits should not very low since only hits that started before G and not finished after H are concerned. In most cases a hits needs only few milliseconds to be served so error could be ignored.

Note also that if you have x logrotate config files, with each of them a postrotate with a kill -HUP, you send a kill x times your server process. So try to include several log files in same logrotate config file. You can have several awstats update command in the same prerotate section and you will send the -HUP only once, after that all updates are finished. However, doing this, you will have a lap time between D and E for all those log files that will be egal to the maximum of all

lap for each file.

- You can also choose to run the AWStats update process only once the log file has been archived. This is required for example if you use the [cronolog](#) or [rotatelog](#) tools to rotate your log files. For example, Apache users can setup their Apache httpd config file to write log file through a pipe to cronolog or rotatelog using Apache *CustomLog* directive:  
*CustomLog "/usr/sbin/cronolog [cronolog\_options] /var/logs/access.%Y%m%d.log" combined*  
If you use a such feature, you can't trigger AWStats update process to be ran just BEFORE the rotate is done, so you must run it AFTER the rotate process, so on the archived log file.  
To setup awstats to always point to last archive log file, you can use the 'tags' available for [LogFile](#).  
The problem with that is that your data are refreshed only after a rotate has done. However, you will miss absolutely nothing.
- So, if you really want to not loose absolutely no hit and want to have updates more frequently than the rotate frequency, the best way is still an hybrid solution (i am not sure that it worth the pain, and remember that statistics are only statistics): You run the awstats update process from you crontab every hour for example and half and hour before the rotate has done. Then, once the rotate has been done, and before the next scheduled awstats update process start, you run another update process on the archived log file using the `-logfile` option to force update on the archived log file and not the log file that is currently defined in awstats config file and used by cron update. This will allow you to update the half hour missing, until the log rotate (AWStats will find the new lines). However don't forget that this particular update MUST be finished before the next cron update.

### **FAQ-COM130 : HOW TO RUN AWSTATS FREQUENTLY**

PROBLEM:

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

SOLUTION:

A good way of working is to run the AWStats update process as a preprocessor of your log rotate process. See previous FAQ ([FAQ-COM120](#)) for this.

But you can also run AWStats update process regularly by a scheduler:

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 03:50, use :

*50 3 \* \* \* /usr/local/awstats/wwwroot/cgi-bin/awstats.pl -config=mysite -update >/dev/null*

To run update every hour, use :

*0 \* \* \* \* /usr/local/awstats/wwwroot/cgi-bin/awstats.pl -config=mysite -update >/dev/null*

### **FAQ-COM140 : 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-COM145 : HOW TO USE THE EXTRA SECTIONS FEATURES ?**

PROBLEM:

I want to build personalized reports not provided in default AWStats reports. How can I setup the Extra Sections

parameters in my AWStats config file to do so ?

SOLUTION:

Take a look at the [Using AWStats Extra Sections features](#)

### **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 [logresolve](#) 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, Analog (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 of 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 200% more than reality !).

**This is the most important reasons why you can find important 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 does not end with a defined extension (.cgi, ...), so they are not included correctly in their statistics. AWStats use on oposite policy, assuming a file is a page except if type is in a list (See [NotPageList](#) parameter). Error rate with a such policy is lower.
- AWStats is able to detect robots visits. Most analyzers think robots visits are human visitors. This error make them to report more visits and visitors than reality. When AWStats reports a "1 visitor", it means "1 human visitor" (even if it's not possible to detect all robots, most of them are detected). "Robots visitors" are reported separately in the "Robots/Spiders visitors" chart.
- Some log analyzers use the "Hits" to count visitors. This is a very bad 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 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.
- Another important reason to have difference is that an error log files is not always completely sorted but only "nearly" sorted because of cache and writing log engines used by server. Nearly all log analyzers (commercial and not) assumes that log file is "exactly" sorted by hit date to calculate visits, entry and exit pages. But there is nothing that guaranties this and some log files are only "nearly" sorted, above all log files on highly loaded servers. AWStats has an advanced parsing algorithm that is able to count correctly visits, entry and exit pages even if log file is only "nearly" sorted.
- Then, there is internal bugs in log analyzers that make reports wrong. For example, a lot of users have reported that Webalizer "doubles" the number of visits or visitors in some circumstances.

**There is also other reasons, however those points explains only small differences:**

- To differentiate new visits of a same visitor, log analyzers uses a visit time-out. If value differs, then results differ (on visit count and entry and exit pages). A such time-out is a fixed value (For example 60 minutes) meaning if a visitor make a hit 59 minutes after downloading the previous page, it's the same visits, if he make it 61 minutes after, it's a new visit. Of course, there is no really difference between 59 and 61, but counting visits without time-out is not possible. And because the most important is to have a time-out (and not really it's value), AWStats time-out is not an "exact" value but is "around" 60 minutes. This allows AWStats to have better speed processing time, so you also might experience little differences, in visit count, between AWStats and another log analyzer even if their time-out are both defined to same value (because AWStats time-out is not exactly but nearly value defined).
- There is also differences in log analyzers databases and algorithms that make details of results less or more accurate: AWStats has a larger browsers, os', search engines and robots 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. AWStats does not count twice (by default) redirects made by rewrite rules that makes two hits into log files but that are only one page "viewed". Etc...

*# This is a sample of log file that contains a lot of various data we can find  
# in a log file. Great sample to test reliability and accuracy of any log  
# analyzer.*

```
# 80.8.55.1 2 visits (start at 00:00:00 and at 12:00:00 with both entry page on /)
# 80.8.55.2 this is not a visit, only an image included into a page of an other site
# 80.8.55.3 1 visit (and add home page to favourites)
# 80.8.55.4 same visitor than 80.8.55.3 using aol proxy
# 80.8.55.5 not a visit (but a bot indexing)
# 80.8.55.6 1 visit (authenticated visitor)
# 80.8.55.7 1 visit (authenticated visitor with space in name)
# 80.8.55.8 not a visit (try but failed twice with 404 and 405 error)
# 80.8.55.9 not a visit (but a worm attack)
# 80.8.55.10 1 visit that come from web page not search engines
# TOTAL:
```

[illegible]



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 for a particular month, so if you have already processed a recent file and forgot to run update on a log file that contains older data, you must before reset all your statistics (see [FAQ-COM500](#)) and restart all the update processes for all past log files and in chronological order.

However, there is a "tip" that allow you to rebuild only the month were you missed data:

Imagine we are on 5th of July 2003, all your statistics are up to date except for the 10th of April 2003 (you forgot to run the update process for this day, so there is no visit for this day). You can :

- Reset the statistics for April only (this means remove the file `awstats042003.[config].txt` as explained in [FAQ-COM500](#)),
  - Move the statistics history files for month after April (file `awstats052003.[config].txt`, `awstats062003.[config].txt`,...) into a temp directory (so that it is no more in DirData directory as if they were deleted).
  - Run update process on all log files for April (in chronological order). AWStats does not complain about "too old record" because there is no history files in DirData directory that contains compiled data more recent than records into log you process.
  - Moved back the month history files you saved into your DirData directory.
- Your statistics are up to date and the missing days are no more missing.

## **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 to restart the update process from the beginning.

SOLUTION:

All analyzed data are stored by AWStats in history files called `awstatsMMYYYY.[config].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 all your statistics, just delete all files `awstatsMMYYYY.txt`

To reset all your statistics built for a particular config file, just delete all files `awstatsMMYYYY.myconfig.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 your statistics back.

## **FAQ-COM600 : HOW CAN I COMPILE AND BUILD STATISTICS ON A DAILY BASIS ONLY ?**

PROBLEM:

How can I compile and build statistics on a daily basis. I mean i want to have a full report with all charts with data for a



particular day only and want one report for each day of month.

**SOLUTION:**

This is an non documented and not supported trick, as this is not the standard way of working:

First, run the update process at midnight (or on a log file that was rotated at midnight so that it contains only data for this particular day (you can choose another hour in night if you want to have days that "start" at an different hour).

Once the update process has been ran, MOVE (and not copy) the history file built by AWStats. For example on Unix like systems:

```
mv mydirdata/awstatsMMYYYY.mydomain.txt mydirdate/awstatsDDMMYYYY.mydomain.txt
```

Note that the name has been changed by adding the day. Repeat this each day after the update process.

With this you will have one history file for each day. You can then see full stats for a particular day by adding the non documented parameter `-day=DD` on command line (with others like `-month=MM` and `-year=YYYY`). If ran from a browser you can also add on URL.

However, if you have full day by day statistics, you don't have anymore statistics for full month, except if you create a second config file that whose history files would not be moved.

### **FAQ-COM700 : 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.

---

### **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 know 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 PARTIALLY 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/mmm/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=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/mmm/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="%virtualname %host %other %logname %time1 %methodurl %code %bytesd %refererquot %uaquot"**

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

62.161.78.73 - - [dd/mmm/yyyy:hh:mm:ss +0x00] "GET /page.html HTTP/1.1" 200 3904 "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 and mod\_gzip format 2 with Apache 1.x):

62.161.78.73 - - [dd/mmm/yyyy:hh:mm:ss +0x00] "GET /page.html HTTP/1.1" 200 3904 "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 combined and mod\_deflate with Apache 2):

62.161.78.73 - - [dd/mmm/yyyy:hh:mm:ss +0x00] "GET /page.html HTTP/1.1" 200 3904 "http://www.from.com/from.htm"



"Mozilla/4.0 (compatible; MSIE 5.01; Windows NT 5.0)" (45)

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

If your log records are EXACTLY like this (**NCSA combined with 2 spaces between some fields with Zope**):

62.161.78.73 - - [dd/mm/yy:hh:mm:ss +0x00] "GET /page.html HTTP/1.1" 200 3904 "http://www.from.com/from.htm" "Mozilla/4.0 (compatible; MSIE 5.01; Windows NT 5.0)" (45)

You must use :

`LogFormat="%host %other %logname %time1 %methodurl %code %bytesd %refererquot %uaquot"`

`LogSeparator=" *"`

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/yy:hh:mm:ss +0x00] "GET http://www.mydomain.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 (Some old **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 (Some **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 (Some **IIS 6+ W3C log format**):

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

You must use : `LogFormat="date time cs-method cs-uri-stem cs-username c-ip cs-version cs(User-Agent) cs(Referer) sc-status sc-bytes"`

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 %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:starninologo.white.gif 1133

You must use : `LogFormat=3`

If your log records are EXACTLY like this (With some **Lotus Notes/Domino** versions):

62.161.78.73 - Name Surname Service [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=6`

If your log records are EXACTLY like this (**Lotus Notes/Domino 6.x log format**):

62.161.78.73 - "Name Surname" Service [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="%host %other %lognamequot %time1 %methodurl %code %bytesd %refererquot %uaquot"`

If you use a FTP server like **ProFTP**:

See [FAQ-COM090](#).

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

See [FAQ-COM100](#).

If you use a Media Server (**Realmedia, Windows Media Server**):

See [FAQ-COM110](#).

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

62.161.78.73 - - [dd/Month/yy: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-SET270 : ONLY CORRUPTED OR DROPPED RECORDS**

### **PROBLEM:**

After running an AWStats update process, all my records are reported to be corrupted or dropped

### **SOLUTION:**

First, if you have only a small percent of corrupted or dropped records, don't worry. This is a normal behaviour. Few corrupted or dropped records can appear in a log file because of internal web server bug, virus attack, error writing, log purge or rotate during a writing, etc...

However, if ALL your records are reported to be corrupted or dropped, check the following things:

If they are all dropped, run the update process from command line adding the option `-showdropped`

-> You will be able to know why a dropped record is discarded. In most cases, this is because you use a too large or bad filter parameter (SkipFiles, SkipHosts, OnlyFiles ...).

If they are all corrupted, run the update process from command line adding the option `-showcorrupted`

-> You will be able to know why a corrupted record is discarded.

If this is because of the log format, check the [FAQ-SET350](#) about log format errors.

If this is because the date of a record is said to be lower than date of previous, this means that you ran update processes on different log files without keeping the chronological order of log files.

If this is because the date is invalid, you might have a problem of date not computed correctly this it happens in some Pentium4/Xeon4 processors:

On some (few) Intel Pentium4 (also Xeon4) based host systems, log file time can not be computed correctly. This is not an issue of AWStats itself. This error usually occurs on source-based linux distributions (gentoo, slackware etc.), where all system libraries are compiled with CPU optimization. AWStats is a highly developed PERL application. PERL itself relies on some system libraries, for example GLIBC. The GLIBC library usually is buggy in this case. There is an easy way to figure out whether the problem described here is responsible for AWStats problems on your system:

If you have shell access to your machine, simply type the following command:

```
perl -e "print int ('541234567891011165415658')"
```

(NOTE: any 25-digit number works, there is no need to type this exact number)

If everything goes fine, you should see a floating point number as output:

```
5.41234567891011e+23
```

In this case, please do more research on your log file formats. Your host system itself is not responsible for the error.

But if simply a "0" returns or some other error, this is an indication of your glibc beeing corrupt.

ATTENTION: The only solution in this case might be to recompile your GLIBC. This can be a quite tricky task. Please consult the documentation and F.A.Q.s of your linux distribution first!! (experts: first check your global compile flags, eg. `mach=Pentium4`. Trying with other compile flags can solve problem quickly in some cases.

NOTE: In some cases, this error might occur "suddenly", even though AWStats was already running perfect already.

## **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*

*domains.pm*

*operating\_systems.pm*

*robots.pm*

*search\_engines.pm*

*worms.pm*

*status\_http.pm*

*status\_smtp.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-SET320 : ERROR "MALFORMED UTF-8 CHARACTER (UNEXPECTED ..."**

PROBLEM:

When running AWStats from command line, I get one or several lines like this on my output:

*Malformed UTF-8 character (unexpected non-continuation byte 0x6d, immediately after start byte 0xe4) at /www/cgi-bin/lib/xxx.pm line 999.*

SOLUTION:

This problem appeared with RedHat 8 and Perl 5.8.

I don't know if RedHat provides a fix for this, but some users had reported that you can remove those harmless messages by changing your LANG environment variable, removing the ".UTF-8" at the end. For example, set `LANG="en_US"` instead of `LANG="en_US.UTF8"`

### **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 problems you can get and there are 3 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 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 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 were made on your server.

When you run awstats, the reports are 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.

3) When you read your statistics, AWStats does not use the same config file than the one used for the update process.

Scan your disk for files that match `awstats.*conf` and remove all files that are not the config file(s) you need (`awstats.conf` files, if found, can be deleted. It is better to use a config file called `awstats.mydomain.conf`).

### **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-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-SET800 : 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.

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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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**AWStats** – Ver: 6.0

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Release Date: 12/21/2003

File Size: 899k – 0.90MB

Type: Freeware

Release Status: **Minor Update**

Cost: 0

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

### Description:

Advanced Web Statistics (AWStats) is a free powerful and featureful web server logfile analyzer 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, HTTP errors and more...Works with all major web (but also mail and FTP) log servers as a CGI and/or from command line.Distributed under GNU General Public License.

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

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**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