AWStats logfile analyzer Documentation

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What is AWStats / Features

Features

A full log analysis enables AWStats to show you the following information:
* Number of visits, and number of unique visitors,
* Visits duration and last visits,
* Authenticated users, and last authenticated visits,
* Days of week and rush hours (pages, hits, KB for each hour and day of week),
* Domains/countries of hosts visitors (pages, hits, KB, 266 domains/countries detected),
* Hosts list, last visits and unresolved IP addresses list,
* Most viewed, entry and exit pages,
* Files type,
* Web compression statistics (for mod_gzip or mod_deflate),
* Browsers used (pages, hits, KB for each browser, each version, 78 browsers: Web, Wap, Media browsers...),
* OS used (pages, hits, KB for each OS, 31 OS detected),
* Visits of robots (307 robots detected),
* Search engines, keyphrases and keywords used to find your site (The 90 most famous search engines are detected like yahoo, google, altavista, etc...),
* HTTP errors (Page Not Found with last referrer, ...),
* Other personalized reports based on url, url parameters, referer field for miscellanous/marketing purpose,
* Screen size (need to add a HTML code in index page).

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

Requirements:
To use AWStats, you need the following requirements:

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

AWStats Changelog −−−−−−−−−−−−−−−−− $Revision: 1.93 $ − $Author: eldy $ − $Date: 2003/04/06 16:55:29 $ 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. New features/improvments: − 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). − month parameter can accept format −month=D, not only −month=DD − Optimized code size. − Optimized HTML output report size. − Better support for IPv6 in logresolvemerge.pl. Other/Documentation: − 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 and serban language. − 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. − WhoIs 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/improvments: − 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/improvments: − 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 ErrorMessages to use a personalized error message. − New parameter: Added DebugMessages to not allow debug messages. − New parameter: Added URLQuerySeparators parameter. − New parameter: Added UseHTTPSLinkForUrl parameter. − Report for robots accept codes like others charts ('HBL'). − Can use "char+" instead of "char" for LogSeparator.

− Records with bad http code for Microsoft Index Servers (on 1 digit instead of 3) are no more reported as corrupted records. − Little support for IPv6. − Static string changed from "string" to 'string'. − Fixed: Fix a bug when using IIS and %query or cs−query−string tag in LogFormat and URLWithQuery=1. − Fixed: #include now works correctly. − Added Albanian, Bulgarian and Welsh language. − Added Seychelles flag. 5.1 − Better support for ftp log files. − Better support for mail log files. − Can analyze streaming log files (Windows Media Server). − Added choice of month and year in list boxes (when used as CGI). − The data values for month and days are reported in main page under the graph, no need to change page. − New feature: ShowxxxStats parameters accept codes to decide which columns to show in chart. − New parameter: Added SkipUserAgents parameter to exclude some user agent from statistics. − New parameter: Added URLNotCaseSensitive. − New parameter: Added URLWithQueryWithoutFollowingParameters to exclude some parameters from URL when URLWithQuery is on. − New parameter: Added URLReferrerWithquery. − Added tag %Wm−n for LogFile parameter (replaced with the week number in month but differs from %WM−n because start with 0). − Added tag %Wy−n for LogFile parameter (replaced with the week number in year but differs from %WY−n because start with 0). − Added tag %Dw−n for LogFile parameter (replaced with the day number in week but differs from %DW−n because start with 0). − Fixed: Log analyze is no more stopped if log file contains binary chars. − Fixed: −debug option is allowed in migrate. − Fixed: Wrong window was opened when clicking on flag link when UseFramesWhenCGI was on. − Fixed: Fixed pb in refreshing page when clicking on "Update Now" link (no need to force the refresh). − Fixed: a bug which makes the keywords report loaded twice when page viewed as a cgi after an update now click. − Fixed: Pb with SAMBAR server ('Expires' line appears at the top of pages). − Fixed: Now last update DNS cache file is saved with same permissions than history files so it depends on SaveDatabaseFilesWithPermissionsForEveryone. − Fixed: Some sorting function were still using old 4.1 algorithm. Now all sorts use new 5.0 algorithm (so speed and memory use again increase above all for large web sites with a lot of referers). − Fixed: Remove DecodeEncodedString on parameters sent by command line. − Rewrite plugins to match the same standard for all of them (All use an init function + AWStats version check + no need of global vars in awstats.pl). − Can use the #include "configfile" directive in config files. − Added week−end color on week−end days in monthdayvalues report. − Added 'spider' and 'crawler' as generic robots. − Added awstats_updateall.pl tool. − Remove common2combined.pl tool (useless). − Updated graph colors. − Updated documentation. − Updated database. − Updated language files. Note 1: AWStats 5.x are compatible with previous versions (3.x or 4.x). However if you use awstats 5.x runtime to read statistics for old month build with 3.x or 4.x, speed will be a little bit reduce but data will be reported correctly. To benefit the speed/memory improvement of 5.x (2 to 8 times faster when reading stats, less memory use) you can migrate (after backup) your history files with the command : awstats.pl −migrate="/fullpath/awstatsMMYYYY.configval.txt" Note 2: Old deprecated command line parameters −h and site= have been removed. Use config= instead. 5.0 − Complete rewrite of update process and code to read/save history files. AWStats 5.0 is compatible with previous versions (3.x or 4.x). However if you use awstats 5.0 runtime to read statistics for old month build with 3.x or 4.x, speed will be a little bit reduce but data will be reported correctly. To benefit the speed/memory improvement of 5.0 (2 to 8 times faster when reading stats, less memory use) you can migrate your history files with the command : awstats.pl −migrate="/fullpath/awstatsMMYYYY.configval.txt" − Fixed: pb when using several tags with different offset in LogFile name. − Fixed: Create of directory with CreateDataDirIfNotExists is made with 0766 instead of 0666. − New feature: Track detailed minor and major version for browsers. − New feature: Added bandwidth report for robots and errors. − New feature: Support DNS cache files for DNS lookup. − New feature: Added Plugins support and several working plugins: A GMT correcter, A hash file DNS cache saver/reader... − New feature: Use framed report (new UseFramesWhenCGI parameter). − "Never updated" and "Exact value ..." are now in language files. − Reduce number of global vars in code. − New feature: DefaultFile parameter accepts several values. − New feature: Added all robots and last robots full list report. − New feature: Added all logins and last logins full list report. − New feature: Added url entry and url exit full list report. − New feature: Added AllowAccessFromWebToFollowingIPAddresses parameter − New parameter: LogSeparator for log files with exotic separators. − New parameter: EnableLockForUpdate to allow lock for update process. − New parameter: DecodeUA to make AWStats work correctly with Roxen. − New tag for logfile: %WY is replaced by week number in year. − Added slovak, spanish (catalan) language files and updated a lot of language files. − Made changes to allow FTP log analysis. − Made changes to prepare sendmail log analysis. − Updated belarus flag. − Updated os, browsers, robots, search engines database. − Added a map of history files at beginning of files to allow other tools to read AWStats history files or part of them very quickly. − Other minor changes and bug fixes. 4.1 − Fixed: −logfile option can be anywhere on command line and accept space in log file names. − Fixed: A bug vampired memory and caused abnormal disk swapping in 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: ShowLinksToWhoIs − New parameter: LinksToWhoIs − New parameter: StyleSheet − New option: −staticlinks to build static links in report page (to use AWStats with no web servers). − New tool: common2combined.pl (A log format converter) − New tool: awstats_buildstaticpages.pl − Fixed: wrong size of bar in "average" report when average value was < 1. − Fixed: pb of "Error: Not same number of records" when using some version of mod_perl. − Fixed: pb in 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 logresolvemerge tool to merge split log files from a load balancing web server before running awstats. − New parameter: HTMLHeadSection allows you to add HTML code in header report. − New parameter: NbOfLinesForCorruptedLog. − Fixed: no more warning/error messages when runned with option perl −w. − Reference database (robots, os, browsers, search engines, domains) has been extracted in external files. − Other minor updates (new flags, reference database updates, ...) − Fixed: Parameter MaxNbOfHostsShown was not working correctly. − New languages. − Added an HTML documentation. 3.1 − Increased seriously speed for update process (above all for large web sites). − Increased VERY seriously speed for viewing stats from a browser. − Reduced amount of memory used. − AWStats search config file in directories: current dir, then /etc/opt/awstats, then /etc/awstats, then /etc − New feature: AWStats can analyze NCSA common log files. − New feature: List of last access. − New feature: Full list of url scores. − New feature: Date format can be chosen according to local country. − New parameter: DirLang allows to choose directory for language files. − New parameter: Expires allows to add a meta−tag EXPIRES in HTML report page. − New parameter: LogoLink parameter to choose link used for clicking on logo. − New parameter: color_weekend option to show week−end days in different colors. − New option: −update and −output to update and/or output a report. − New option: −showsteps to follow advancement of update process. − Fixed: OS detection now works correctly (Windows ME reported correctly). − Fixed: Bad value were reported in daily chart when no pages were viewed. − Added WAP browsers in AWStats database. − New languages. 3.0 − New look − Added daily report for pages, hits and bytes. − AWStats can use its own conversion array to make some reverse DNS lookup. − Added also SkipDNSLookupFor option. − Added OnlyFiles option. − AWStats works with personalized log file format (support also Webstar native log format). New log format parsing algorithm. − Now update is not made by default when stats are read from a browser. Added an "update now" button on HTML report page if new option AllowToUpdateStatsFromBrowser is on. − Tooltips now works also with Netscape 6, Opera and most browsers. − Update browsers database to add a lot of "audio" browsers and more. − Update OS database (Added Windows ME, OpenBSD). − Robots database updated. − Support new domains (biz, museum, coop, info, aero...). − Added some missing flags icons. − Rewrite UnescapeURL function to works with all encoded URLs, cyrillic URL. − Some minor changes. − Added translation for some "not translated" words. − Bytes reported are auto−scaled (Bytes, KB, MB, GB). − Fixed problem of colors (styles) not working with some browsers. − Added new languages (Korean, Danish, ...). Now 14 different languages. − Fixed bug of bad link in TOP pages links when viewed page is of another virtual host. − 259 domains/countries, 60 browsers database, 26 OS, 258 robots, 47 search engines. 2.24 − Added a way to include dynamic current year, month, day and hour in LogFile parameter. − Option to choose month, year and language is also available from command line. − https request are correctly reported. − Added initialization of

parameters to avoid problem of bad cache with mod_perl. − Fixed check of parameters to avoid 'Cross Site Scripting attacks'. − Added flags for Mongolia, Maldives, San Marino, Senegal. − New keyword detection algorithm (Now use a search engine url database like Webalizer AND old algorithm of AWStats for unknown search engines). − Added option to report keywords used from search engine as separate words or as full search strings. − Added Greek, Czech and Portuguese translation (now 9 different languages supported). − A better and faster config file parsing. Solve the problem of "=" into the HTMLEndSection parameter. − AWStats is no more sensitive to DOS−UNIX config files. − Disable DNS lookup only if host has at least 1 alphabetical char. − Better management of corrupted log files. − Make difference between windows NT and windows 2000. − Added OmniWeb and iCab browser. Better MacOS detection. − Make AWStats still working even when MS IndexServer return a bad HTTP return code (like "1" instead of a "three digits" number). − Fixed problem of missing year=yyyy in some links. − Fixed a bug of empty page when domain has "info" in its name. − A lot of minor changes. − 252 domains/countries, 44 browsers database, 24 OS, 252 robots, 39 search engines. 2.23 − Use of configuration file. − Now AWStats can process old log files (however, you must keep order). − Month−to−month basis statistics works now correctly. − Old years now can also be viewed from AWStats report page. − Working directory (with write permissions) can be chosen (you can use another directory than cgi−bin). − Added PurgeLogFile option (you can choose if AWStats purge log file or not). − awstats.pl can be renamed into awstats.plx (for ActiveState perl) and still works. − Statistic page generated from command line has no more bad links. − Added a link to choose full year view. − Domain and page reports are sorted on pages (no more on hits) − Automatic disabling of reverse DNS lookup if this is already done in your log file. − Can add your own HTML code at the end of awstats (ban advert for example). − Added Italian, German, Polish language (now 7 different languages supported). − 252 domains/countries, 40 browsers database, 22 OS, 252 robots, 35 search engines. − Setup instructions are cleaner 2.1 − AWStats considers myserver and www.myserver as the same, even if "HostAliases" setup is wrong. − Fixed a bug making unique visitors counter too high. − Added ArchiveLog parameter to archive processed records into backup files. − Make difference between unknown browsers and unknown OS. − Robots stats are isolated from the rest of visitors. − Better keywords detection algorithm. − Added last time connection for each hosts − Added list of URL for HTTP Error 404 − Added pages, hits and KB for each statistics − Added colors and links − Works also with IIS − Code a little bit cleaner and faster. − Images are in .png format. − 4 languages: English, French, Dutch, Spanish − 252 domains/countries, 40 browsers database, 22 OS, 250 robots, 32 search engines. 1.0 − First version, not distributed

Log analyzers Comparisons

Comparison between AWStats and other famous statistics tools

Features/Softwares	AWStats	Analog	Webalizer	HitBox
Version − Date	5.5 − February 2003	5.30 − November 2002	2.01−10 − April 2002	NA
Language	Perl	C	C	Embedded HTML tag
Available on all platforms	Yes	Yes	Yes	NA
Sources available	Yes	Yes	Yes	No
Price/Licence	Free	Free	Free	Free but with adverts
Works with Apache combined (XLF/ELF) or personalized log format	Yes	Yes	Yes	NA
Works with Apache common (CLF) log format	Just some features	Just some features	Just some features	NA
Works with IIS (W3C) log format	Yes	Yes	Need a patch	NA
Update of statistics from	command line (CLI) and/or a browser (CGI)	command line (CLI) and/or a browser (CGI)	command line	NA
Internal reverse DNS lookup	Yes	Yes	Yes	NA
DNS cache file	Static and dynamic	Static or dynamic	Static or dynamic	NA
Process logs spitted by load balancing systems	Yes	Yes	No	No
Report number of "human" visits	Yes	No	Yes	Yes
Report unique "human" visitors	Yes	No	No	Yes
Report session duration	Yes	No	No	Yes
Not ordered records tolerance and reorder for visits	Yes	Visits not supported	No	?
Statistics for visits are based on	Pages *****	Not supported	Pages *****	Pages *****
Statistics for unique visitors are based on	Pages *****	Not supported	Not supported	

				Pages *****
Report countries	From IP location or domain name	Domain name	Domain name	?
Report hosts	Yes	Yes	Yes	Yes
WhoIs link on hosts	Yes	No	No	No
Report authenticated users	Yes	Yes	No	No
Report/Filter robots (nb detected)	Yes/Yes (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 (84*)	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 search engines used (nb detected)	Yes (96***)	Yes (24)	No (0)	Yes (
Report keywords/keyphrases used on search engines (nb detected)	Yes/Yes (93***)	Yes/No (29***)	No/Yes (14***)	Yes/No (
Report external refering 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	No	No	No	No
Other personalized reports for miscellanous/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
Graphical statistics in one page / several / or frames	Yes/Yes/Yes	Yes/No/No	Yes/Yes/No	No/Yes/Yes

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

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

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

**** Other log analyzers have poor (or not at all) robots, search engines, os or browsers detection capabilities and few features (no or poor visits count, bad 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).

Install, Setup and Use AWStats

AWStats common use is made in 3 steps:

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

Step 1 : Install and Setup

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

* Step 1−1
Configure your apache web server to have **NCSA combined/XLF/ELF** log format (you can use your own log format but this predefined logformat is often the best choice and make setup easier). You can do this by changing, in **httpd.conf**, following directives (See your apache manual for more information):
CustomLog /yourlogpath/yourlogfile common
into
CustomLog /yourlogpath/yourlogfile combined

To be sure the log format change is effective, you can stop Apache, remove all old log files, restart Apache and go to your homepage. This is an example of records you should get then in your new log file:
62.161.78.75 − − [dd/mmm/yyyy:hh:mm:ss +0000] "GET / HTTP/1.1" 200 1234 "http://www.from.com/from.html" "Mozilla/4.0 (compatible; MSIE 5.01; Windows NT 5.0)"

* Step 1−2
Copy the contents of the uncompressed cgi−bin folder from your hard drive to your server's cgi−bin directory (this includes **awstats.pl**, **awstats.model.conf**, and the **lang**, **lib** and **plugins** sub−directories).

* Step 1−3
If necessary (should not with most Perl interpreter), edit the first (top−most) line of awstats.pl file that is
#!/usr/bin/perl
to reflect the path 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 1−4
Move AWStats **icon sub−directories** and its content into a directory readable by your web server, for example /yourwwwroot/icon or /yourwwwroot/icons.

* Step 1−5
Copy **awstats.model.conf** file into a new file named **awstats.myvirtualhostname.conf**. This new file must be stored in
− /etc/opt/awstats or /etc/awstats or /etc or same directory than awstats.pl (so cgi−bin) for Unix/Linux users.
− same directory than awstats.pl (so cgi−bin) for Windows and other OS.

* Step 1−6
Edit this new config file with your own setup :
− Change LogFile value with full path of your web server log file (You can also use a relative path from your awstats.pl directory).
− Check if LogFormat has the value "1" (it means "NCSA apache combined/ELF/XLF log format").
− Change DirIcons parameter to reflect relative path of icon directory.
− Edit SiteDomain parameter with the main domain name or the intranet web server name used to reach the web site to analyze (Example: www.mydomain.com).
− You can change other parameters if you want.

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

B) With IIS Server

* Step 1−1
Configure IIS to log in **"Extended W3C log format"** (You can still use your own log format but setup is easier if made like suggested). So, for this, start the IIS Snap−in, select the web site and look at its Properties. Choose W3C Extended Log Format, then Properties, then the Tab Extended Properties and uncheck everything under Extended Properties. Once they are all unchecked, check all following fields:
date
time
c−ip
cs−username
cs−method
cs−uri−stem
sc−status
sc−bytes
cs−version
cs(User−Agent)
cs(Referer)
To be sure the log format change is effective, you must stop IIS, remove all old log files, restart IIS and go to your homepage. This is an example of records you should get then in the new log file:
2000−07−19 14:14:14 62.161.78.73 − GET / 200 1234 HTTP/1.1
Mozilla/4.0+(compatible;+MSIE+5.01;+Windows+NT+5.0) http://www.from.com/from.htm

* Step 1−2
Copy the contents of the uncompressed cgi−bin folder from your hard drive to your server's cgi−bin directory (this includes **awstats.pl**, **awstats.model.conf**, and the **lang**, **lib** and **plugins** sub−directories).

* Step 1−3
Move AWStats **icon sub−directories** and its content into a directory readable by your web server, for example C:\yourwwwroot\icon.

* Step 1−4
Copy **awstats.model.conf** file into a new file named **awstats.myvirtualhostname.conf**. This new file must be stored in
− same directory than awstats.pl (so cgi−bin)

* Step 1−5
Edit this new config file with your own setup :
− Change LogFile value with full path of your web server log file (You can also use a relative path from your awstats.pl directory).
− Change LogFormat to value "2" (it means "IIS Extended W3C log format").
− Change DirIcons parameter to reflect relative path of icon directory.

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

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

C) With other web servers

Setup process is similar to setup for Apache or IIS.
Use LogFormat to value "3" if you have WebStar native log format.

Step 2 : Build/Update Statistics

* Step 2−1
The first analyze/update of statistics can be made the first time manually from the command line (the first time, process may be long) :
awstats.pl −config=myvirtualhostname −update

AWStats will read the config file awstats.myvirtualhostname.conf (or if not found, awstats.conf) and create/update its database with all summary information issued from analyzed log file.
AWStats database files are saved in directory defined by DirData parameter in config file.
When update is finished, you should get a result like this:
Lines in file: 225730
Found 5 dropped records,
Found 124 corrupted records,
Found 0 old records,
Found 225601 new records.

Dropped records are records discarded because they were not user HTTP request or requests were not qualified by AWStats filters (See SkipHosts, SkipUserAgents, SkipFiles, and OnlyFiles parameters). If you want to see which lines were dropped, you can add the **−showdropped** option on command line.
Corrupted records are records that does not match log format defined by "LogFormat" parameter in AWStats config/domain file. With all webservers you can experience a little bit corrupted records (If all your lines are corrupted and LogFormat parameter in AWStats config/domain file is correct, it may be the log format setup in your web server that is wrong. Don't forget that your LogFormat parameter in AWStats config/domain file MUST match the log file format you analyze.
If you want to see which lines are corrupted, you can add the **−showcorrupted** option on command line.
Old records are simply records that were already processed by a previous update process. So it's not necessary to purge your log file after each update process even if it's highly recommended to do it as often as possible.
New records are records in your log file that were successfully used to build/update statistics.

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

* Step 2−2
Even if AWStats allows "real−time" statistics with its "update from browser feature" (See next section Read Statistics), you should run an update process from a scheduler (command is same than first process) frequently.

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

Awstats update process.
For sites with:
− 10,000 visitors a month Launch AWStats once a day
− 50,000 visitors a month Launch AWStats once every 4 hours
− 250,000 visitors a month Launch AWStats once an hour
− 1,000,000 visitors a month Launch AWStats once an hour
This is ABSOLUTELY necessary to keep good performances.
See AWStats Benchmark page for more accurate information.

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

Step 3 : Read Statistics

To see results of analyze, you have several solutions depending on your security policy.

* First solution is to build the main reports, in a static HTML page, from the command line, like this :
perl awstats.pl −config=myvirtualhostname −output −staticlinks > awstats.myvirtualhostname.html

You can also use all other output options (each of them give you another report). This is how to use all other possible output options(1) :
perl awstats.pl −config=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=urlentry −staticlinks > awstats.myvirtualhostname.urlentry.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=unknownos −staticlinks > awstats.myvirtualhostname.unknownos.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.

Note (2): You can also add a *filter* on the following output reports:**urldetail, urlentry, 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***.

* Another 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=unknownos

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

Little Tips about Security

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

This is example of possible way of working:

1) HIGHLY SECURED POLICY

Policy:
You have several different config/domains owned by different users and you want to build statistics for each of them. You don't need that your customer have "real−time" statistics.
This is a very good choice for web hosting providers with few but very large web sites of important customers.
Advantage:
Very highly secured.
Disadvantage:
Statistics are static, no dynamic update/view.
How:
All statistics pages for a config/domain file are built in static html files using **−output −staticlinks** option.
There is no CGI use of AWStats and static built pages are stored in a web protected **realm** to be securely viewed by correct allowed users only (or sent by mails).
If users have a command line access (telnet) on statistics server, you must set correct permissions on AWStats database files.
Set all AWStats database files (built by the update process) for config/domain1 to have read/write for *user1* (or an admin user) and NO read and NO write permissions for any other users.
Then, check that the SaveDatabaseFilesWithPermissionsForEveryone parameter is set 0 in your config/domain files.
If AWStats database files/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 known 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 recommanded 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 thoose 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...

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)

OPTIONAL SETUP SECTION (Not required but increase AWStats features)

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

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

- LevelForRobotsDetection
- LevelForBrowsersDetection
- LevelForOSDetection
- LevelForRefererAnalyze

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

- UseFramesWhenCGI
- DetailedReportsOnNewWindows
- Expires
- MaxRowsInHTMLOutput
- Lang
- DirLang
- ShowHeader
- ShowMenu
- ShowMonthDayStats
- ShowDaysOfWeekStats
- ShowHoursStats
- ShowDomainsStats
- ShowHostsStats
- ShowAuthenticatedUsers
- ShowRobotsStats
- ShowSessionsStats
- ShowPagesStats
- ShowCompressionStats
- ShowFileTypesStats
- ShowFileSizesStats
- ShowOSStats
- ShowBrowsersStats
- ShowScreenSizeStats
- ShowOriginStats
- ShowKeyphrasesStats
- ShowKeywordsStats
- ShowHTTPErrorsStats
- AddDataArrayMonthDayStats
- AddDataArrayShowDaysOfWeekStats

- AddDataArrayShowHoursStats
- MaxNbOfDomain
- MinHitDomain
- MaxNbOfHostsShown
- MinHitHost
- MaxNbOfLoginShown
- MinHitLogin
- MaxNbOfRobotShown
- MinHitRobot
- MaxNbOfPageShown
- MinHitFile
- MaxNbOfScreenSizesShown
- MinHitScreenSize
- MaxNbOfRefererShown
- MinHitRefer
- MaxNbOfKeywordsShown
- MinHitKeyword
- FirstDayOfWeek
- ShowFlagLinks
- ShowLinksOnUrl
- MaxLengthOfURL
- ShowLinksToWhoIs
- LinksToWhoIs
- LinksToIPWhoIs
- HTMLHeadSection
- HTMLEndSection
- BarWidth
- BarHeight
- Logo
- LogoLink
- StyleSheet
- color_Background
- color_TableBGTitle
- color_TableTitle
- color_TableBG
- color_TableRowTitle
- color_TableBGRowTitle
- color_TableBorder
- color_text
- color_titletext
- color_weekend
- color_link
- color_hover
- color_u
- color_v
- color_p
- color_h
- color_k
- color_s
- color_e
- color_x

PLUGINS

- LoadPlugin

EXTRA

- ExtraSectionNameX
- ExtraSectionConditionX
- ExtraSectionFirstColumnTitleX
- ExtraSectionFirstColumnValuesX
- ExtraSectionStatTypesX
- MaxNbOfExtraX
- MinHitExtraX

INCLUDES

- Include

LogFile
Version : 1.0 +
3.1+ for tags %YYYY−n,%YY−n,%MM−n,%DD−n,%HH−n
3.2+ for tag %WM−n
4.0+ for tag %DW−n
4.1+ for tag %NS−n
5.0+ for tag %WY−n
5.1+ for tag %Wm−n, %Wy−n, %Dw−n

"LogFile" contains the web server logfile to analyze.
You can use a full path or relative path from awstats.pl directory.
Example: "/var/log/apache/access.log"
Example: "../logs/mycombinedlog.log"
You can also use tags in this filename if you need a dynamic file name
depending on date or time (Replacement is made by AWStats at the beginning
of its execution). This is available tags :
%YYYY−n is replaced with 4 digits year we were n hours ago
%YY−n is replaced with 2 digits year we were n hours ago
%MM−n is replaced with month we were n hours ago
%DD−n is replaced with day we were n hours ago
%HH−n is replaced with hour we were n hours ago
%NS−n is replaced with number of seconds at 00:00 since 1970
%WM−n is replaced with the week number in month (1−5)
%Wm−n is replaced with the week number in month (0−4)
%WY−n is replaced with the week number in year (01−52)
%Wy−n is replaced with the week number in year (00−51)
%DW−n is replaced with the day number in week (1−7, 1=sunday)
use n=24 if you need (1−7, 1=monday)
%Dw−n is replaced with the day number in week (0−6, 0=sunday)
use n=24 if you need (0−6, 0=monday)
Use 0 for n if you need current year, month, day, hour...
Example: "/var/log/access_log.%YYYY−0%MM−0%DD−0.log"
Example: "C:/WINNT/system32/LogFiles/W3SVC1/ex%YY−24%MM−24%DD−24.log"
You can also use a pipe if log file come from a pipe.
Example: "gzip −d </var/log/apache/access.log.gz |"
#
LogFile="/var/log/httpd/mylog.log"

LogFormat
Version : 2.1 +
3.1+ for tags %host,%logname,%time1,%time2,%methodurl,%methodurlnoprot,%method,%url,
%query,%code,%bytesd,%refererquot,%referer,%uaquot,%ua,%other
3.2+ for tags %gzipin,%gzipout
4.0+ for tags %gzipratio,%syslog
4.1+ for tag %virtualname

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

#
LogFormat=1

LogSeparator
Version : 5.0 +

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

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

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

DirData
Version : 1.0 +

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

DirCgi
Version : 1.0 +

```
# Relative or absolute web URL of your awstats.pl directory.
# This parameter is used only when AWStats is ran from command line
# with −output option (to generate links in HTML reported page).
# Default: "/cgi−bin" (means awstats.pl is in "/mywwwroot/cgi−bin")
#
DirCgi="/cgi−bin"
```

DirIcons
Version : 1.0 +

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

SiteDomain
Version : 3.2 +

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

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

```
# Example: "www.myserver.com x.y.z.w localhost 127.0.0.1"
#
HostAliases="www.myserver.com x.y.z.w localhost 127.0.0.1"
```

AllowToUpdateStatsFromBrowser
Version : 3.0 +

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

EnableLockForUpdate
Version : 5.0 +

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

DNSStaticCacheFile
Version : 5.0 +

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

DNSLastUpdateCacheFile
Version : 5.0 +

```
# AWStats can do reverse DNS lookups through a DNS cache file that was created
# by a previous run of AWStats. This file is erased and recreated after each
# statistics update process. You don't need to create and/or edit it.
# AWStats will read and save this file in DirData directory.
# This option is 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 +

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

AllowAccessFromWebToAuthenticatedUsersOnly
Version : 4.0 +

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

AllowAccessFromWebToFollowingAuthenticatedUsers
Version : 4.0 +

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

AllowAccessFromWebToFollowingIPAddresses
Version : 5.0 +

```
# When this parameter is define to something, the IP address of the user that
# read its statistics from a browser (when AWStats is used as a CGI) is
# checked and must match the IP address range defined by this parameter.
# Example: "123.123.123.10−123.123.123.255"
# Default: ""
#
AllowAccessFromWebToFollowingIPAddresses=""
```

CreateDirDataIfNotExists
Version : 4.0 +

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

SaveDatabaseFilesWithPermissionsForEveryone
Version : 4.0 +

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

PurgeLogFile
Version : 2.23 +

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

```
# Possible values: 0 or 1
# Default: 0
#
PurgeLogFile=0
```

ArchiveLogRecords
Version : 2.1 +

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

KeepBackupOfHistoricFiles
Version : 3.2 +

```
# Each time you run the update process, AWStats overwrite the 'historic file'
# for the month (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 +

```
# Do not include access from clients that match following criteria.
# If your log file contains IP adresses in host field, you must enter here
# matching IP adresses criteria.
# If DNS lookup is already done in your log file, you must enter here hostname
# criteria, else enter ip address criteria.
# The opposite parameter of "SkipHosts" is "OnlyHosts".
# Note: Use space between each value.
```

```
# Note: ^xxx means hosts starting with xxx
# Note: xxx$ means hosts ending with xxx
# Example: "^127.0.0.1$ ^192.168. ^10.0."
# Example: "localhost abcxyz"
# Default: ""
#
SkipHosts=""
```

SkipUserAgents
Version : 5.1 +

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

SkipFiles
Version : 1.0 +

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

OnlyHosts
Version : 5.2 +

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

```
# Default: ""
#
OnlyHosts=""
```

OnlyFiles
Version : 3.0 +

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

NotPageList
Version : 3.2 +

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

ValidHTTPCodes
Version : 4.0 +

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

This is examples of current HTTP codes

#[Miscellaneous successes]

"2xx", "[Miscellaneous successes]",
"200", "OK", # HTTP request OK
"201", "Created",
"202", "Request recorded, will be executed later",
"203", "Non−authoritative information",
"204", "Request executed",
"205", "Reset document",
"206", "Partial Content",
#[Miscellaneous redirections]
"3xx", "[Miscellaneous redirections]",
"300", "Multiple documents available",
"301", "Moved Permanently",
"302", "Found",
"303", "See other document",
"304", "Not Modified since last retrieval", # HTTP request OK
"305", "Use proxy",
"306", "Switch proxy",
"307", "Document moved temporarily",
#[Miscellaneous client/user errors]
"4xx", "[Miscellaneous client/user errors]",
"400", "Bad Request",
"401", "Unauthorized",
"402", "Payment required",
"403", "Forbidden",
"404", "Document Not Found",
"405", "Method not allowed",
"406", "ocument not acceptable to client",
"407", "Proxy authentication required",
"408", "Request Timeout",
"409", "Request conflicts with state of resource",
"410", "Document gone permanently",
"411", "Length required",
"412", "Precondition failed",
"413", "Request too long",
"414", "Requested filename too long",
"415", "Unsupported media type",
"416", "Requested range not valid",
"417", "Failed",
#[Miscellaneous server errors]
"5xx", "[Miscellaneous server errors]",
"500", "Internal server Error",
"501", "Not implemented",
"502", "Received bad response from real server",
"503", "Server busy",
"504", "Gateway timeout",
"505", "HTTP version not supported",
"506", "Redirection failed",
#[Unknown]
"xxx" ,"[Unknown]"

ValidSMTPCodes
Version : 5.0 +

By default, AWStats considers that records found in mail log file are
successful mail transfers if code saved in log file is a valid code (1 for

sendmail, 0 for postfix).
Example: "1"
Example: "0"
Default: "1"
#
ValidSMTPCodes="1"

AuthenticatedUsersNotCaseSensitive
Version : 5.3 +

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

URLNotCaseSensitive
Version : 5.1 +

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

URLWithAnchor
Version : 5.4 +

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

URLQuerySeparators
Version : 5.2 +

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

URLWithQuery
Version : 3.2 +

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

URLWithQueryWithoutFollowingParameters
Version : 5.1 +

```
# When URLWithQuery is on, you will get the full URL with all parameters in
# URL reports. But among thoose 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 higly recommanded 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.
# 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 occured. Contact your Administrator"
Default: ""
#
ErrorMessages=""

DebugMessages
Version : 5.2 +

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

NbOfLinesForCorruptedLog
Version : 3.2 +

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

SplitSearchString
Version : 2.24 − 4.0 (deprecated since 4.1)
AWStats 4.1+ supports both keywords AND keyphrases by default with no need of any parameter.

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

```
#
SplitSearchString=0
```

WrapperScript
Version : 4.0 +

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

DecodeUA
Version : 5.0 +

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

LogScreenSizeUrl
Version : 5.5 +

```
# LogScreenSizeUrl can be used to make screen size report working.
# You must define a string value for LogScreenSizeUrl parameter. Then add
# the following HTML code at the end of your index page (before </BODY>)
# replacing value of 'logscreensizeurl' with string choosed:
# <script language="javascript">
# var awstatsscreenlogger="logscreensizeurl";
# document.write('<img src="/'+awstatsscreenlogger+'?w='+screen.width+'t+'" border=0 width=0 height=0>');
# </script>
# If code is not added in index page, or if value of "logscreensizeurl" in
# this code does not match value defined in LogScreenSizeUrl config parameter,
# screen size detection won't work.
# You must also change ShowScreenSizeStats parameter to 1 to report results.
# Change : Effective for new updates only.
# Possible value: Any string but same than the one used in added HTML code.
# Default: "logscreensizeurl"
#
LogScreenSizeUrl="logscreensizeurl"
```

LevelFor
Version : 4.0 +

```
# Following values allows you to define accuracy of AWStats entities (robots,
# browsers, os, referers) detection.
```

Large web sites or overloaded ISP with a lot of hosts should set this
parameter to 1 or 0, instead of 2, to gain speed and memory.
Possible values:
0 = No detection,
1 = Medium/Standard detection
2 = Full detection
Change : Effective for new updates only
Default: 2
#
LevelForRobotsDetection=2 # 0 will increase AWStats speed by 1%.
LevelForBrowsersDetection=2 # 0 disables Browsers detection. No speed gain.
LevelForOSDetection=2 # 0 disables OS detection. No speed gain.
LevelForRefererAnalyze=2 # 0 will increase AWStats speed by 5%.

UseFramesWhenCGI
Version : 5.0 +

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

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

This parameter ask your browser to open detailed reports into a different
window than the main page.
Possible values:
0 − Open all in same browser window
1 − Open detailed reports in another window except if using frames
2 − Open always in a different window even if reports are framed
Default: 1
#
DetailedReportsOnNewWindows=1

Expires
Version : 3.1 +

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

MaxRowsInHTMLOutput
Version : 4.0 +

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

Lang
Version : 2.1 +

Set your primary language.
Possible value:
Albanian=al, Bosnian=ba, Bulgarian=bg,
Chinese (Taiwan)=tw, Chinese (Simpliefied)=cn, Czech=cz,
Danish=dk, Dutch=nl, English=en, Estonian=et, Finnish=fi, French=fr,
German=de, Greek=gr, Hungarian=hu, Indonesian=id, Italian=it, Japanese=jp,
Korean=kr, Latvian=lv, Norwegian (Nynorsk)=nn, Norwegian (Bokmal)=nb,
Polish=pl, Portuguese=pt, Portuguese (Brazilian)=br, Romanian=ro,
Russian=ru, 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: "/opt/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,ShowMonthDayStats,ShowDaysOfWeekStats,ShowHoursStats,
ShowDomainsStats,ShowHostsStats,ShowAuthenticatedUsers,ShowRobotsStats,
ShowPagesStats,ShowFileTypesStats,ShowFileSizesStats,ShowBrowsersStats,
ShowOSStats,ShowOriginStats,ShowKeyphrasesStats,ShowKeywordsStats,ShowHTTPErrorsStats
3.2 − 5.0 for ShowCompressionStats (deprecated since 5.1, use code C with ShowFileTypesStats instead)
4.1 + for ShowSessionsStats, ShowKeywordsStats
5.1 + for all letters codes

You choose here which reports you want to see in the main page and what you
want to see in those reports.
Possible values:
0 − Topic is not shown at all
1 − Report is shown with default informations
XYZ − Report is shown with only informations defined by code X,Y,Z
X,Y,Z are code letters among the following:
U = Unique visitors
V = Visits

```
# P = Number of pages
# H = Number of hits
# B = Bandwith
# L = Last access date
# E = Entry pages
# X = Exit pages
# C = Web compression (mod_gzip,mod_deflate)
# M = Average mail size (mail logs)
#
# Show menu header with report links
# Default: 1, Possible codes: None
ShowMenu=1
# Show monthly and daily chart
# Default: UVPHB, Possible codes: UVPHB
ShowMonthDayStats=UVPHB
# Show days of week chart
# Default: PHB, Possible codes: PHB
ShowDaysOfWeekStats=PHB
# Show hourly chart
# Default: PHB, Possible codes: PHB
ShowHoursStats=PHB
# Show domains/country chart
# Default: PHB, Possible codes: PHB
ShowDomainsStats=PHB
# Show hosts chart
# Default: PHBL, Possible codes: PHBL
ShowHostsStats=PHBL
# Show authenticated users chart
# Default: 0, Possible codes: PHBL
ShowAuthenticatedUsers=0
# Show robots chart
# Default: HBL, Possible codes: HBL
ShowRobotsStats=HBL
# Show email senders chart (For use when analyzing mail log files)
# Default: 0, Possible codes: HBML
ShowEMailSenders=0
# Show email 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 LogScreenSizeUrl 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 http errors chart
# Default: 1, Possible codes: None
ShowHTTPErrorsStats=1

AddDataArray...
Version : 5.4 +

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 thoose options to 0.
Possible values: 0 or 1
Default: 1
#
# Data array values for the ShowMonthDaysStats report
AddDataArrayMonthDayStats=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 screen size
MaxNbOfScreenSizesShown = 5
MinHitScreenSize = 1
# Stats by referers
MaxNbOfRefererShown = 10
MinHitRefer = 1
# Stats for keywords
MaxNbOfKeywordsShown = 10
MinHitKeyword = 1
# Stats for emails
MaxNbOfEMailsShown = 20
MinHitEMail = 1

FirstDayOfWeek
Version : 3.2 +

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

ShowFlagLinks
Version : 3.2 +

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

ShowLinksOnUrl
Version : 3.1 +

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

MaxLengthOfURL
Version : 1.0 +

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

MaxLengthOfURL=72

ShowLinksToWhoIs
Version : 4.0 +

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

LinksToWhoIs
Version : 4.0 +

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

LinksToIPWhoIs
Version : 5.0 +

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

HTMLHeadSection
Version : 3.2 +

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

HTMLEndSection
Version : 3.2 +

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

Default: ""
#
HTMLEndSection=""

Bar...
Version : 1.0 +

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

Logo...
Version : 3.1 +

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

StyleSheet
Version : 4.0 +

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

---

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

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

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

LoadPlugin
Version : 5.0 +

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

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

Extra...
Version : 5.2 +

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

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

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

Include
Version : 5.4 +

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 ""

Other tools

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

configure.pl

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

This tool is not yet available...

awstats_updateall.pl

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

Usage: awstats_updateall.pl now [options]

Where options are:
−awstatsprog=pathtoawstatspl
−confdir=confdirtoscan

awstats_buildstaticpages.pl

awstats_buildstaticpages allows you to launch AWStats with −staticlinks option to build all possible pages allowed by AWStats −output option.

Usage:
awstats_buildstaticpages.pl (awstats_options) [awstatsbuildstaticpages_options]

where awstats_options are any option known by AWStats

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

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

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

urlaliasbuilder.pl

Urlaliasbuilder generates an 'urlalias' file from an input file.
The input file must contain a list of URLs (It can be an AWStats history file).
For each of thoose 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
−secure

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.

logresolvemerge.pl

logresolvemerge allows you to merge several log files into one output,
sorted on date. It also makes a fast reverse DNS lookup to replace
all IP addresses into host names in resulting log file.
logresolvemerge comes with ABSOLUTELY NO WARRANTY. It's a free software
distributed with a GNU General Public License (See COPYING.txt file).

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

Usage:
logresolvemerge.pl [options] file
logresolvemerge.pl [options] file1 ... filen
logresolvemerge.pl [options] *.*
Options:
−dnslookup make a reverse DNS lookup on IP adresses (not done by default)
−showsteps to add benchmark informations every 5000 lines processed

This runs logresolvemerge in command line to open one or several web
server log files to merge them (sorted on date) and/or to make a reverse
DNS lookup. The result log file is sent on standard output.
Note: logresolvemerge is not a 'sort' tool to sort one file. It's a
software able to output sorted log records (with a reverse DNS lookup
made if wanted) even if log records are shaked in several files.
However each of thoose files must be already independently sorted itself
(but that is the case in all web server log files).
logresolvemerge is particularly usefull when you want to merge large log
files in a fast process and with a low use of memory getting records in a
chronological order from a pipe (for use by a log analyzer).

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

Glossary

Unique Visitor:
A unique visitor is a host that has made at least 1 hit on 1 page of your web site during the current period shown by the report. If this host make several visits during this period, it is counted only once.
The period shown by AWStats reports is by default the current month.
However if you use AWStats as a CGI you can click on the "year" link to have a report for all the year. In a such report, period is full year, so Unique Visitors are number of hosts that have made at least 1 hit on 1 page of your web site during those year.

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

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

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

Bandwidth:
Total number of bytes downloaded.

Entry Page:
First page viewed by a visitor during its visit.
Note: When a visit started at end of month to end at beginning of next month, you might have an Entry page for the month report and no Exit pages.
That's why Entry pages can be different than Exit pages.

Exit Page:
Last page viewed by a visitor during its visit.
Note: When a visit started at end of month to end at beginning of next month, you might have an Entry page for the month report and no Exit pages.
That's why Entry pages can be different than Exit pages.

Session Duration:
The time a visitor spent on your site for each visit.
Some Visits durations are 'unknown' because they can't always be calculated. This is the major reason for this:
− Visit was not finished when 'update' occured.
− 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"...

HTTP Status Codes:
HTTP status codes are returned by web servers to indicate the status of a request. The status code is a 3−digit code indicating the particular response. The first digit of this code identifies the class of the status code. The remaining 2 digits correspond to the specific condition within the response class. The following table outlines all status codes defined for the HTTP/1.1 draft specification outlined in IETF rfc 2068. 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.

100	**100 Continue** The continue status code tells the browser to continue sending a request to the server.
101	**101 Switching Protocols** 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.

200	**200 Successful**
201	**201 Created**
202	**202 Accepted**
203	**203 Non−Authorative Information**
204	**204 No Content**
205	**205 Reset Content**
206	**206 Partial Content** 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	**400 Method Not Allowed**
406	**400 Not Acceptable**
407	**400 Proxy Authentication Required**
408	**400 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 succesfully processed due to some internal error in the web server. These error codes may indicate something is seriously wrong with the web server.

500	

	500 Internal Server Error 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	**501 Not Implemented** 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	**502 Bad Gateway** The server, when acting as a proxy, issues this response when it receives a bad response from an upstream or support server.
503	**503 Service Unavailable** 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	**504 Gateway Timeout** 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	**505 HTTP Version Not Supported** 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.

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, Exchange).
FAQ−COM110 Setup for MEDIA SERVER log files (Realmedia, Windows media server).
FAQ−COM120 How to rotate my logs without loosing data.
FAQ−COM130 How to run AWStats frequently ?
FAQ−COM140 How to exclude my IP address (or whole subnet mask) from stats ?
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−COM120 How can I reset all my statistics ?
FAQ−COM130 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 partialy 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**, Macintosh, **Solaris**, **Aix**, BeOS, ...
Web/Wap/Proxy/FTP/Mails/Streaming servers
Apache 1.3.x and 2, **IIS 5.0**, WebStar, WebLogic, WebSite, **Windows Media Server**, Tomcat, **Squid**, **Sendmail**, **Postfix**, Roxen, Resin, **ProFTP**, Lotus Notes/Domino, IPlanet, IceCast, ZeroBrand, Zeus, Zope, www4mail, ...
Perl interpreters:
ActivePerl 5.6, **Perl 5.8**, **Perl 5.6**, **Perl 5.0**, **mod_perl for Apache**, ...

FAQ−ABO150 : WHICH LOG FORMAT CAN AWSTATS ANALYZE ?
AWStats setup knows predefined log format you can use to make AWStats config easier. However, you can define your own log format, that's the reason why AWStats can analyze nearly all web, wap and proxy server log files. Some FTP servers log files, Syslog or mail logs can also be analyzed.
The only requirement is "Your log file must contain required information".
This is example of possible log format:
Apache combined log format (known as NCSA combined log format or XLF or ELF format)
IIS 5.0+ log format (known as W3C format)
Webstar native log format
Windows Media Server
ProFTP server
A lot of web/wap/proxy/streaming servers log format
Apache common log format (AWStats can now analyze such log files but such log files does not contain all information AWStats is looking for. The problem is in the content, not in the format). I think analyzing common log files is not interesting because there is a lot of missing information: no way to filter robots, find search engines, keywords, os, browser. But a lot of users asked me for it, so AWStats support it. However, a lot of interesting advanced features can't work: browsers, os's, keywords, robot detection...).
See also F.A.Q.: LOG FORMAT SETUP OR ERRORS .

FAQ−ABO200 : WHICH LANGUAGES ARE AVAILABLE ?
AWStats can make reports in 35 languages. This is a list of all of them, for last version, in alphabetical order (with the code you can use for Lang and ShowFlagLinks parameter) :

Albanian=al, Bosnian=ba, Bulgarian=bg, Chinese (Taiwan)=tw, Chinese (Simpliefied)=cn, Czech=cz, Danish=dk, Dutch=nl, English=en, Estonian=et, Finnish=fi, French=fr, German=de, Greek=gr, Hungarian=hu, Indonesian=id, Italian=it, Japanese=jp, Korean=kr, Latvian=lv, Norwegian (Nynorsk)=nn, Norwegian (Bokmal)=nb, Polish=pl,

Portuguese=pt, Portuguese (Brazilian)=br, Romanian=ro, Russian=ru, Serbian=sr, Slovak=sk, Spanish=es, Spanish (Catalan)=es_cat, Swedish=se, Turkish=tr, Ukrainian=ua, Welsh=wlk

However, AWStats documentation is only provided in English.
But, you can find some documentation made by contributors:
In French: How to install AWStats and Webalizer

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 version of pslogger enhanced by AWStats author here, otherwise pslogger official site is 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 thoose 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 was built to analyze web,wap or proxy server's log files. However it 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.proftp.conf".
Modify this new config file:

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

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

FAQ−COM100 : SETUP FOR MAIL LOG FILES (SENDMAIL, POSTFIX, EXCHANGE...)
PROBLEM:
What do I have to do to use AWStats to analyze my mail log files.
SOLUTION:

For Sendmail or PostFix log files

1− First, install a mail log convertor like SMA to use it as a pre−processor for AWStats update process (to convert your mail log into a readable format):
For this, you can download an copy sma (or sma.exe) file and sma.conf into same directory than awstats.pl file.
Edit sma.conf to change the ClogFormat and ClogSentOnly parameter to :

```
ClogFormat "%y−%m−%d %h:%n:%s %f %t %F %T SMTP − %S %z"
ClogSentOnly no
```

To check that your sma config is correct, run the following command:
sma −O clog −f /pathtosmaconf/sma.conf /pathtomaillog/maillog > convertedmaillog
The resulting convertedmaillog file must have records that match the following format:
2001−01−01 05:38:08 sender@mailsender.com receiver@mailreceiver.com hostrelaysender hostrelayreceiver SMTP − 1 31357

Warning: some sma versions (1.3) have been reported to not convert month correctly, giving for example a date like this 2001−#01−01 or 2001−00−01 instead of 2001−01−01. This makes AWStats analyze fails so check your sma output and change version if error.

2− Then setup AWStats to analyze SMA processed mail log:
Copy config awstats.model.conf file to "awstats.mail.conf".
Modify this new config file:

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

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

For Exchange log files
If someone can understand the Exchange log format, he can explain it to me at eldy@users.sourceforge.net.
Until this server won't log in a clever way, just forget using AWStats or use a more serious mail server (sendmail, postfix, ...). Sorry.

FAQ−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="/pathtomediaserver/mediaserverlog"
LogFormat="%host %other %logname %time1 %methodurl %code %bytesd %uabracket %other %other %other %other %other %other %other %other"
LogSeparator="\s+"
```

```
ShowMenu=1
ShowMonthDayStats=UHB
ShowDaysOfWeekStats=HB
ShowHoursStats=HB
ShowDomainsStats=HB
ShowHostsStats=HBL
ShowAuthenticatedUsers=0
ShowRobotsStats=0
ShowEMailSenders=0
ShowEMailReceivers=0
ShowSessionsStats=0
ShowPagesStats=PB
ShowFileTypesStats=HB
ShowFileSizesStats=0
ShowBrowsersStats=1
ShowOSStats=1
ShowOriginStats=PH
ShowKeyphrasesStats=0
ShowKeywordsStats=0
ShowHTTPErrorsStats=1
```

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

For Windows Media Server

1- If your Windows Media 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 − − wmplayer.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 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 as value for AWStats LogFormat parameter, for example:
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"
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"
ShowMenu=1
ShowMonthDayStats=UHB
ShowDaysOfWeekStats=HB
ShowHoursStats=HB
ShowDomainsStats=HB
ShowHostsStats=HBL
ShowAuthenticatedUsers=0
ShowRobotsStats=0
ShowEMailSenders=0
ShowEMailReceivers=0
ShowSessionsStats=0
ShowPagesStats=PB
ShowFileTypesStats=HB
ShowFileSizesStats=0
ShowBrowsersStats=1
ShowOSStats=1
ShowOriginStats=PH
ShowKeyphrasesStats=0
ShowKeywordsStats=0
ShowHTTPErrorsStats=1
```

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

FAQ−COM120 : HOW TO ROTATE MY LOGS WITHOUT LOOSING DATA
PROBLEM:
I want to archive/rotate my logs using my web server system options or a third software (rotatelog, cronolog) but don't want to loose any visits information during the rotate process.
SOLUTION:
If you use a rotate system (internal web server feature or third software), this means you probably not use AWStats PurgeLogFile nor ArchiveLogRecords parameter.

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

- If you choose (for security reason, to avoid CPU abuse on large web site or other) to make updates by your scheduler only on archive files, this means you don't use the AllowToUpdateStatsFromBrowser "real−time" feature of AWStats. In this case all you have to do is to run the update process just after the rotate was done using a config/domain file configured to process the archived log files (using date tags of LogFile for examples).
  Note: For Apache users, use of cronolog seems to be a better choice than rotatelog (cronolog is available for Unix/Linux and Windows and is more flexible).
  To use cronolog or rotatelog you must setup your web server log file name using a pipe like this example:
  CustomLog "|/usr/sbin/cronolog [cronolog_options] /var/logs/access.%Y%m%d.log" combined

FAQ−SET550 : HOW TO RUN AWSTATS FREQUENTLY

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

With Windows, you can use the internal task scheduler. The use of this tool is not an AWStats related problem, so please take a look at your Windows manual. Warning, if you use *"awstats.pl −config=mysite −update"* in your scheduled task, you might experience problem of failing task. Try this instead
"C:\WINNT\system32\CMD.EXE /C C:\[awstats_path]\awstats.pl −config=mysite −update"
or
"C:\[perl_path]\perl.exe C:\[awstats_path]\awstats.pl −config=mysite −update"
A lot of other scheduler (sharewares/freewares) are very good.

With unix−like operating systems, you can use the "**crontab**".
This is examples of lines you can add in the cron file (see your unix reference manual for cron) :
To run update every day at 04:00, use :
*0 4 * * * /opt/awstats/wwwroot/cgi−bin/awstats.pl −config=mysite −update*
To run update every hour, use :
*0 * * * * /opt/awstats/wwwroot/cgi−bin/awstats.pl −config=mysite −update*

FAQ−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−COM150 : BENCHMARK / FREQUENCY TO LAUNCH AWSTATS TO UPDATE STATISTICS

PROBLEM:
What is AWStats speed ?
What is the frequency to launch AWStats process to update my statistics ?
SOLUTION:
All benchmarks information and advice on frequency for update process are related into the Benchmark page.

FAQ−COM200 : HOW REVERSE DNS LOOKUP WORKS, UNRESOLVED IP ADDRESSES

PROBLEM:
The reported page AWStats shows me has no hostnames, only IP addresses, countries reported are all "unknown".
SOLUTION:
When AWStats find an IP address in your log file, it tries a reverse DNS lookup to find the hostname and domain if the

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

FAQ−COM250 : DIFFERENT RESULTS THAN OTHER ANALYZER

PROBLEM:

I also use Webalizer, 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 the most accurate and its "over reporting" is very low where all other analyzers, even the most famous, have a very high error rate (10% to 2x more than reality).

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

- Some dynamic pages generated by CGI programs are not counted by some analyzer (ie Webalizer) like a "Page" (but only like a "Hit") if CGI prog 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 posible 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. AWstats has an advanced parsing algorithm that is able to count visits, entry and exit pages even if log file is only "nearly" sorted.
- To differenciate new visits of a same visitor, log analyers 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 realy difference between 59 and 61, but couting 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' and search engines database, so reports concerning this are more accurate. AWStats has url syntax rules to find keywords or keyphrases used to find your site, but AWStats has also an algorithm to detect keywords of unknown search engines with unknown url syntax rule.

FAQ−COM300 : DIFFERENCE BETWEEN LOCAL HOURS AND AWSTATS REPORTED HOURS

PROBLEM:

I use IIS and there's a difference between local hour and AWStats reported hour. For example I made a hit on a page at 4:00 and AWStats report I hit it at 2:00.
SOLUTION:
This is not a problem of time in your local client host. AWStats use only time reported in logs by your server and all time are related to server hour. The problem is that IIS in some foreign versions puts GMT time in its log file (and not local time). So, you have also GMT time in your statistics.
You can wait that Microsoft change this in next IIS versions. However, Microsoft sheet Q271196 "IIS Log File Entries Have the Incorrect Date and Time Stamp" says:
The selected log file format is the W3C Extended Log File Format. The extended log file format is defined in the W3C Working Draft WD−logfile−960323 specification by Phillip M. Hallam−Baker and Brian Behlendorf. This document defines the Date and Time files to always be in GMT. This behavior is by design.
So this means this way of working might never be changed, so another chance is to use the AWStats plugin 'timezone'.
Warning, this plugin need the perl module Time::Local and it reduces seriously AWStats speed.
To enable the plugin, uncomment the following line in your config file.
LoadPlugin="timezone TZ"
where TZ is value of your signed timezone (+2 for Paris, −8 for ...)

FAQ−COM350 : HOW CAN I PROCESS OLD LOG FILE ?
PROBLEM:
I want to process an old log file to include its data in my AWStats reports.
SOLUTION:
You must change your LogFile parameter to point to the old log file and run the update (or use the −logfile option on command line to overwrite LogFile parameter). The update process can only accept files in chronological order, so if you have already processed a recent file, you must before reset all your statistics (see next FAQ) and restart all the update process for all past log files and in chronological order.

FAQ−COM400 : HOW CAN I UPDATE MY STATISTICS WHEN I USE A LOAD BALANCING SYSTEM THAT SPLITS MY LOGS ?
PROBLEM:
How can I update my statistics when i use a load balancing system that split my logs ?
SOLUTION:
The best solution is to merge all split log files resulted from all your load balanced servers into one. For this, you can use the logresolvemerge tool provided with AWStats :
logresolvemerge.pl file1.log file2.log ... filen.log > newfiletoprocess.log
And setup the LogFile parameter in your config file to process the *newfiletoprocess.log* file or use the *−logfile* command line option to overwrite LogFile value.

FAQ−COM120 : HOW CAN I RESET ALL MY STATISTICS ?
PROBLEM:
I want to reset all my statistics and restart my stats from now.
SOLUTION:
All analyzed data are stored by AWStats in files called *awstatsMMYYYY.[site.]txt* (one file each month). You will find those files in directory defined by DirData parameter (same directory than awstats.pl by default).
To reset your stats for a month, you just have to delete the file for the required month/year.
To reset all your stats, delete all files awstats*.txt
Warning, if you delete those data files, you won't be able to recover your stats back, unless you kept old log files somewhere. You will have to process all past log files (in chronological order) to get old statistics back.

FAQ−COM130 : 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 known how to run perl scripts. This problem can occur with Apache web servers with no internal Perl interpreter (mod_perl not active). To solve this, you must tell Apache where is your external Perl interpreter.
For this, you have 2 solutions:
1) Add the following directive in your Apache **httpd.conf** config (or remove the # to uncomment it if line is already available)
ScriptInterpreterSource registry
Then restart Apache. This will tell Apache to look into the registry to find the program associated to .pl extension.
2) Other solution (not necessary if first solution works): Change the first line of awstats.pl file with the full path of your Perl interpreter.
Example with Windows OS and ActivePerl Perl interpreter (installed in C:\Program Files\ActiveState\ActivePerl), you must change the first line of awstats.pl file with:
#!c:/program files/activestate/activeperl/bin/perl

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

PROBLEM:
Sometimes my browser (Most often IE6) crash while running awstats.pl with some AWStats configuration. With some other versions or browsers, page content is partialy 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 prononced 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** with **Apache using mod_gzip** format 1):
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** with **Apache using mod_gzip** format 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)" mod_gzip: DECHUNK:OK In:11393 Out:3904:66pct.
You must use : *LogFormat="%host %other %logname %time1 %methodurl %code %bytesd %refererquot %uaquot %other %other %gzipin %gzipout"*

If your log records are EXACTLY like this (**NCSA common CLF** log format):
62.161.78.73 - - [dd/mmm/yyyy: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/mmm/yyyy:hh:mm:ss +0x00] "GET http://www.mysite.com/page.html HTTP/1.0" 200 456 TCP_CLIENT_REFRESH_MISS:DIRECT
You must use : *LogFormat="%host %other %logname %time1 %methodurl %code %bytesd %other"*

If your log records are EXACTLY like this (**IIS** W3C log format):
yyyy−mm−dd hh:mm:ss 62.161.78.73 − GET /page.html 200 1234 HTTP/1.1
Mozilla/4.0+(compatible;+MSIE+5.01;+Windows+NT+5.0) http://www.from.com/from.html
You must use : *LogFormat=2*

If your log records are EXACTLY like this (**IIS** W3C log format with some **.net** servers):
yyyy−mm−dd hh:mm:ss GET /page.html − 62.161.78.73 − Mozilla/4.0+(compatible;+MSIE+5.01;+Windows+NT+5.0) http://www.from.com/from.html 200 1234 HTTP/1.1
You must use : *LogFormat="%time2 %method %url %logname %host %other %ua %referer %code %bytesd %other"*

If your log records are EXACTLY like this (With some **WebSite** versions):
yyyy−mm−dd hh:mm:ss 62.161.78.73 − 192.168.1.1 80 GET /page.html − 200 11205 0 0 HTTP/1.1 mydomain.com Mozilla/4.0+(compatible;+MSIE+5.5;+Windows+98) − http://www.from.com/from.html
You must use : *LogFormat="%time2 %host %logname %other %other %method %url %other %code %bytesd %other %other %other %other %ua %other %referer"*

If your log records are EXACTLY like this (**Webstar** native log format):
05/21/00 00:17:31 OK 200 212.242.30.6 Mozilla/4.0 (compatible; MSIE 5.0; Windows 98; DigExt) http://www.cover.dk/ "www.cover.dk" :Documentation:graphics:starninelogo.white.gif 1133
You must use : *LogFormat=3*

If your log records are EXACTLY like this (**Lotus Notes/Domino** log format):
62.161.78.73 − Name Surname Service [dd/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=6*

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/yyyy:hh:mm:ss +0x00] "GET /page.html HTTP/1.1" "−" 200 1234
You must use : *LogFormat="%host %other %logname %time1 %methodurl %other %code %bytesd"*
Note: Browsers, OS's, Keywords and Referers features are not available with a such format.

There is a lot of other possible log formats.
You must use a personalized log format LogFormat ="..." as described in config file to support other various log formats.

FAQ−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 ('5412345678910111654156 58')"
(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. march=Pentium4. Trying with other compile flags can solve problem quickly in some cases.
NOTE: In some cases, this error might occour "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
operating_systems.pm
robots.pm
domains.pm
search_engines.pm
worms.pm

FAQ−SET300 : ERROR "COULDN'T OPEN FILE ..."

PROBLEM:
I have the following error:
"Couldn't open file /workingpath/awstatsmmyyyy.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 thoose warmless 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 problem you can get and there is 2 possible reasons :

1) Your log file format setup might be wrong.
If you use Apache web server
The best way of working is to use the *"combined"* log format (See the Setup and Use page to know the way to change your Apache server log from *"common"* log format into *"combined"*). Don't forget to stop Apache, reset your log file and restart Apache to make change into combined effective. Then you must setup your AWStats config file with value LogFormat=1.
If you want to use another format, read the next FAQ to have examples of LogFile value according to log files format.
If you use IIS server or Windows built−in web server
The Internet Information Server default W3C Extended Log Format will not work correctly with AWStats. To make it work correctly, start the IIS Snap−in, select the web site and look at it's Properties. Choose W3C Extended Log Format, then Properties, then the Tab Extended Properties and uncheck everything under Extended Properties. Once they are all unchecked, check off the list given in the Setup and Use page ("With IIS Server" chapter).
You can also read the next FAQ to have examples of LogFormat value according to log files format.

2) You are viewing stats for a year or month when no hits was made on your server.
When you run awstats, the reports is by default for the current month/year.
If you want to see data for another month/year you must:
Add −year=YYYY −month=MM on command line when building the html report page from command line.
Use an URL like http://myserver/cgi−bin/awstats.pl?config=xxxMM if viewing stats with AWStats used as a CGI.

FAQ−SET400 : PIPE REDIRECTION TO A FILE GIVE ME AN EMPTY FILE
PROBLEM:
I want to redirect awstats.pl output to a file with the following command :
> awstats.pl −config=... [other_options] > myfile.html
But myfile.html is empty (size is 0). If i remove the redirection, everythings 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 bandwith 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 understanded 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.

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?XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX%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"

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	2mn
	0 (or 2)	0 or 1	0 or 1		4 MB	1s

				Once a day Log files are 0−1 MB 2000 lines to process		
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	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	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	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	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	5−25mn
	0 (or 2)	0	0 or 1	Every hour Log Files are 4−16 MB 10000−50000 lines	16−64 MB	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	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	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 Analog (Can try also Webalizer)					

* You should set DNSLookup parameter to 0 (or 2) if
  − reverse DNS lookup is already done in your log file,
  − or if your web site has more than 250,000 visits a month.

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

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

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AWStats − Ver: 5.4 Screen Shot
Written by: Laurent Destailleur ASP Member=N
61 Boulevard Vauban
Montigny−le−Bretonneux, Yvelines 78180
FRANCE

Release Date: 02/23/2003 File Size: 703k − 0.70MB Type: Freeware
Release Status: **Minor Update** Cost: 0

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

Description:

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

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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