EXT: ICS AWStats

Extension Key: ics_awstats

Language: en

Keywords: awstats, forAdmins, forIntermediates

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The content of this document is related to TYPO3

- a GNU/GPL CMS/Framework available from www.typo3.org

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Introduction

This extension is heavily based on cc_awstats by René Fritz. There are some more features in this extension. Especially the possibility to use AWStats in the Web section (for non-admin users) via the ics_web_awstats or the ics_beuser_awstats extension.

Here are some other Add-ons:

- cronscript for updating the statistics

- allow/disallow updating the statistics from browser

- optional reverse DNS lookups

- performing one of the following actions after update: PurgeLogFile or ArchiveLogRecords

- possibility to configure the location of the perl binary

- possibility to disable the cache clearing via the extension configuration

- possibility to enable AWStats Plugin DecodeUTFKeys

- possibility to enable AWStats Plugin GeoIP

What does it do?

This extension integrates the third party software AWStats into TYPO3 as backend module. The extension includes a module for administrators. Externally generated log files can be configured to be analyzed by AWStats like the TYPO3 generated ones.

From http://awstats.sourceforge.net/:

"*AWStats is a **free powerful and featureful tool that generates advanced web, streaming, ftp or mail server statistics, graphically**. This **log analyzer** works as a **CGI or from command line** and shows you all possible information your log contains, in **few graphical web pages**. It uses a partial information file to be able to process large log files, often and quickly. It can analyze log files from all major server tools like Apache log files (NCSA combined/XLF/ELF log format or common/CLF log format), WebStar, IIS (W3C log format) and a lot of other web, proxy, wap, streaming servers, mail servers and some ftp servers.*"

Screenshots

Configuration Area:

Awstats view:

Users manual

There is nothing for non-admin users in this extension.
Use the ics_web_awstats or the ics_beuser_awstats extension to provide the AWStats statistics to non-admin backend users or groups.

Administration

The 'AWStats' Logfile Analyzer uses the perl language interpreter. You must install this application.

The extension configuration parameters

Label:	Data type:	Description:	Default:
Path to perl executable (perlbin)	string	Enter here the full path to the perl binary including the binary itself (e.g. /usr/bin/perl on Linux or C:\Perl\bin\perl.exe on Windows). Please consult the FAQs if you use Windows with a path containing whitespaces.	/usr/bin/perl
Disable AWStats cache clearing (disableClearCache)	boolean	It is not possible to delete the AWStats cache if you set this option. The 'Clear cache' button will disappear.	false
Enable Plugin DecodeUTFKeys (enableDecodeUTFKeys)	boolean	Allow AWStats to show correctly (in language charset) keywords/keyphrases strings even if they were UTF8 coded by the referer search engine. (Perl modules required: Encode and URI::Escape)	false
Enable Plugin GeoIP (enableGeoIP)	boolean	Country chart is built from an Internet IP-Country database. This plugin reduces AWStats speed of 8%. (Perl modules required: Geo::IP or Geo::IP::PurePerl)	false
Path to GeoIP.dat (pathToGeoIPDat)	string	Path to the GeoIP.dat file. This value will only take effect if you enable the GeoIP plugin.	/usr/share/GeoIP/GeoIP.dat

The TYPO3 logfile functionality

If you didn't used the logfile functionality yet, you have to configure it.
First put in localconf.php or use the Install-Tool:

```
$TYPO3_CONF_VARS["FE"]["logfile_dir"] = 'fileadmin/log/';
```

This is the path where TYPO3 should write webserver-style logfiles to.
This path must be write-enabled for the webserver!

Now enable logfile writing in your template with TypoScript:

```
## Enable apache-style logging into a file
config.stat = 1
config.stat_apache = 1
config.stat_apache_logfile = log.txt

## Optional: Simulate Static Document
config.simulateStaticDocuments = 1
config.simulateStaticDocuments_addTitle = 30
config.stat_apache_pagenames = /[title].[uid].[type].html
```

Important: Before TYPO3 4.0.0 you have to create the (empty) logfile by your own. TYPO3 won't do it.

Remember to make it writable for the webserver.

Remark: Since TYPO3 4.1.0 it is possible to use date markers in the filename, as per the PHP function strftime(). This will enable a natural rotation of the logfiles. For example, typo3_%Y%m%d.log will create daily log files. The current version of ics_awstats does NOT support this functionality! So do NOT use this feature if you use ics_awstats! Check out the 'Archive logrecords'-feature of ics_awstats if you want something like this.

Install the Update cronjob awstats-update.phpcron

The awstats update may be invoked from the browser (if allowed). This could overload your server if numerous users do this at the same time. Therefore this extension provides an update script that may be configured as a cron task on the server. In this example setting, the awstats update will be invoked every day at 03:15.

1. when installed as local extension:
   15 3 * * * /.../typo3conf/ext/ics_awstats/mod1/awstats-update.phpcron

2. when installed as global extension:
   15 3 * * * /.../typo3/ext/ics_awstats/mod1/awstats-update.phpcron

Note:

- the absolute path to the script must be specified.

- check if awstats-update.phpcron is executable. If not do a 'chmod a+x awstats-update.phpcron'

- the cronjob has to be run under the same user as the webserver.

- awstats-update.phpcron is a shell script and requires the availability of a PHP binary, "/usr/bin/php". Depending on your server configuration, you may have to edit the first line of the script referring to the location of the PHP binary. Another possibility is to call awstats-update.phpcron as parameter of the PHP binary; like e.g. this:
        15 3 * * * /path/to/php /.../typo3conf/ext/ics_awstats/mod1/awstats-update.phpcron

- only the logfiles configured with 'Cron update' will be analyzed.

Upgrade AWStats

The current version of awstats.pl had to be hacked for my purposes (passing url-parameters through awstats.pl). Therefore it is not that easy to update awstats like in the cc_awstats extension.

Please do not upgrade awstats by yourself for the moment.

A feature request for passing url-parameters was reported in the AWStats Bugreporting tool.

Debugging

In some server environments there are problems to get ics_awstats run. Because the module is a wrapper for a perl script (AWStats itself) it's a bit hairy to make the module work.

For those people who have problems there's a debug mode in this extension. If the AWStats script fails for some reason the debug output will be shown automatically. But you can force the module to show debug output if it's needed:

Open the logfile link in a new window (with shift-click, or a right click option). You see the url in your new browser window. Something like that:

```
...index?t3log=foo.log
```

add '&dbg=1' to the url:

```
...index?t3log=foo.log&dbg=1
```

That should bring some debug output. Maybe that helps you. Otherwise save the page and send it to me with a description if you have a special server or a special setup.

Configuration

Inside the TYPO3 backend you will be asked the following attributes per logfile:

Label:	Data type:	Description:	Default:
Logfile	string (not editable)	Name of the logfile (will automatically scanned from $TYPO3_CONF_VARS["FE"]["logfile_dir"]) The logfiles have to be named *.log or *log*.txt examples: my-domain.log, logfile.txt, website-log.txt	-
Domain(s)	string	Domain(s) for which the logfile is/are. For multiple domains seperate them with komma. The main domain first. example: www.mydomain.com,mydomain.com,sub.mydomain.com You can hide files with - (minus)	empty string
Browser update	boolean	Whether the statistic is updateable via webbrowser or not	true
Cron update	boolean	Whether the statistic will be updated via the awstats-update.phpcron process or not.	false
Reverse DNS Lookups	boolean	Whether you want to have hosts reported by name instead of ip address. Caution: This feature will reduce dramatically AWStats update process speed. Do not use on large web sites. **Note**: Result of DNS Lookup can be used to build the Country report. However it is highly recommended to enable the GeoIP plugin to have an accurate Country report with no need of DNS Lookup.	false
Action after updating	enum('n','p','a'); it's a simple selectbox	Whether AWStats will perform an action after updating the statistic. Following actions are implemented: **None [n]:** no action will be performed **Purge Logfile [p]:** the logfile will be purged by AWStats after updating (see also the PurgeLogFile feature of AWStats) **Archive Logrecords [a]:** AWStats will keep archive files of all processed logs (see also the ArchiveLogRecords feature of AWStats). You will find the archive files in $TYPO3_CONF_VARS["FE"]["logfile_dir"]/.awstats-data/<logfilename>/ The archive filenames are of the following form: awstats_archive.%MM%YYYY.log (where %MM is the month and %YYYY the year) Be aware: this action implies purging the logfile	None [n]

FAQs

There are a lot of problems with perl. Here are some possible solutions:

- General problems: try the debug mode (see chapter debugging)

- If debug mode doesn't help: try to run it in a shell. Don't forget to set the AWS_* environment variables in this shell.

- This extension does not work with perl version 5.8.0. Upgrade your perl Installation.

- AWStats requires at least perl version 5.00503 (5.5.30) or higher. Upgrade your perl Installation.

- Error "Insecure dependency in require while running setuid at ..." appears: Append to the path of the perl executable the -U option; e.g perlbin=/usr/bin/perl -U

- How to configure perlbin if the perl binary path on Windows contains whitespaces
  (like for example "C:\Program Files\Perl\bin\perl.exe").
  Try to enter one of the following lines in the perlbin extension configuration parameter

```
call "C:\Program Files\Perl\bin\perl.exe"
start /B "" "C:\Program Files\Perl\bin\perl.exe"
```
This was successfully tested on Windows XP and Windows Server 2003.
Please let me know your experiences with other Versions of Windows.
Special thanks for the extensive Windows tests and pointing out this fact to Jörg Wagner (DigiLog multimedia)

Known problems

- none at the moment

To-Do list

- Make the awstats SkipHosts parameter configurable per logfile (to exclude specific IPs from the statistics)

- Move the Information from awstats-module.conf into the database

Changelog

Version:	Date:	Changes:
0.2.8	2009-01-15	Upgrade to AWStats 6.9 stable (build 1.925) Fixed awstats bug 2314286 (Special thanks to Andreas Mohr) Manual update (using doc_template 1.2.5)
0.2.7	2008-08-27	Upgrade to AWStats 6.9 beta (build 1.914) (AWStats 6.8 and lower is susceptible to XSS attacks; see also: http://awstats.sourceforge.net/awstats_security_news.php)
0.2.6	2008-07-07	added the possibility to enable the AWStats plugin DecodeUTFKeys added the possibility to enable the AWStats plugin GeoIP Manual update
0.2.5	2008-01-10	added the possibility to disable the cache clearing to the extension configuration ext_conf_template.txt and Manual update regarding perl on Windows (Special thanks to Jörg Wagner)
0.2.4	2007-11-30	awstats-update.phpcron doesn't report php notices anymore (Special thanks to Thilo Wunderlich) Fixed regular expressions for the logfile extensions
0.2.3	2007-11-27	Added optional 'Action after updating' configuration (Special thanks to Andri Steiner, snowflake productions) Clearing the cache is only activated if 'Action after updating' is not set Manual update
0.2.2	2007-10-30	Fixed get_perlbin for the Windows environment (Special thanks to Andreas Englert) Added basic perl version checks to get_perlbin
0.2.1	2007-08-29	Upgrade to AWStats 6.7
0.2.0	2007-07-17	Fixed Bug regarding filter parameters (Special thanks to Jan Wulff) better HTML Manual update Moved to stable
0.1.5	2007-04-24	Fixed Bug #5080 (bugs.typo3.org) It is now possible to run ics_awstats in a DocumentRoot containing spaces
0.1.4	2007-03-08	Upgrade to AWStats 6.6 Fixed generation of awstatsFullUrl in class.tx_icsawstats_awstats.php ics_awstats should now also work if TYPO3 is installed in a subdirectory of the document root Manual update
0.1.3	2006-10-25	Fixed the generation of PATH_typo3 in awstats-update.phpcron Manual update
0.1.2	2006-09-29	Fixed pass-by-reference bug in index.php Fixed typo3 dependency (>= version 3.8) Added optional reverse DNS lookup configuration Manual update
0.1.1	2006-09-20	Fixed upload from 0.1.0; extension isn't shy anymore
0.1.0	2006-09-19	Initial revision.