

# Installing AWStats on IIS 6.0 / IIS7

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Original <http://www.ihsen.com/support/InstallingAWStatsOnIIS6.pdf>

Updated by [Marek Stankala](#) for IIS7 and [time-taken] extra section

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## Prerequisites

- IIS 6.0 or IIS7
- AWStats
- ActivePerl

## Brief Outline of Processes

- Install ActivePerl and AWStats (Steps 1 – 3)
- Configure IIS to handle the Perl scripts (Steps 4 – 5)
- Create a new virtual website specifically for AWStats to display statistics (Steps 6 - 8)
- Configure the IIS logs for your website (Step 9)
- Configure AWStats to monitor your website and display the statistics
- Configure the Extra Section [time-taken] report

The best approach is to use this document to get AWStats up and running to collect statistics for one specific virtual website. Once we have at least one working model, we can easily configure AWStats to work for multiple virtual websites.

You will discover that Steps 1 – 7 are specific to the web server and only need to be done once, whereas Steps 8 – 11 will need to be repeated for each virtual website that you wish to monitor.

If you see the \* symbol, treat this step as critical to make sure you get it absolutely correct.

## Key References

MyWebsite: The public website that you intend to collect statistics for  
AWStats Website: The website created solely for AWStats to use for displaying statistics for all other website

## Step 1 – Downloading the Prerequisite Programs

Download the awstats.exe file from <http://awstats.sourceforge.net/>  
Download the ActivePerl MSI file from <http://www.activestate.com/>

## Step 2 – Installing and Testing ActivePerl

Install ActivePerl on your web server. Follow the prompts but when asked, install the program to the C:\Perl directory. (You may need to create this directory.)

After installing Perl, ensure that it is working by opening a text file using notepad and adding the following text:

```
#!/usr/bin/perl  
print "Hello World.\n";
```

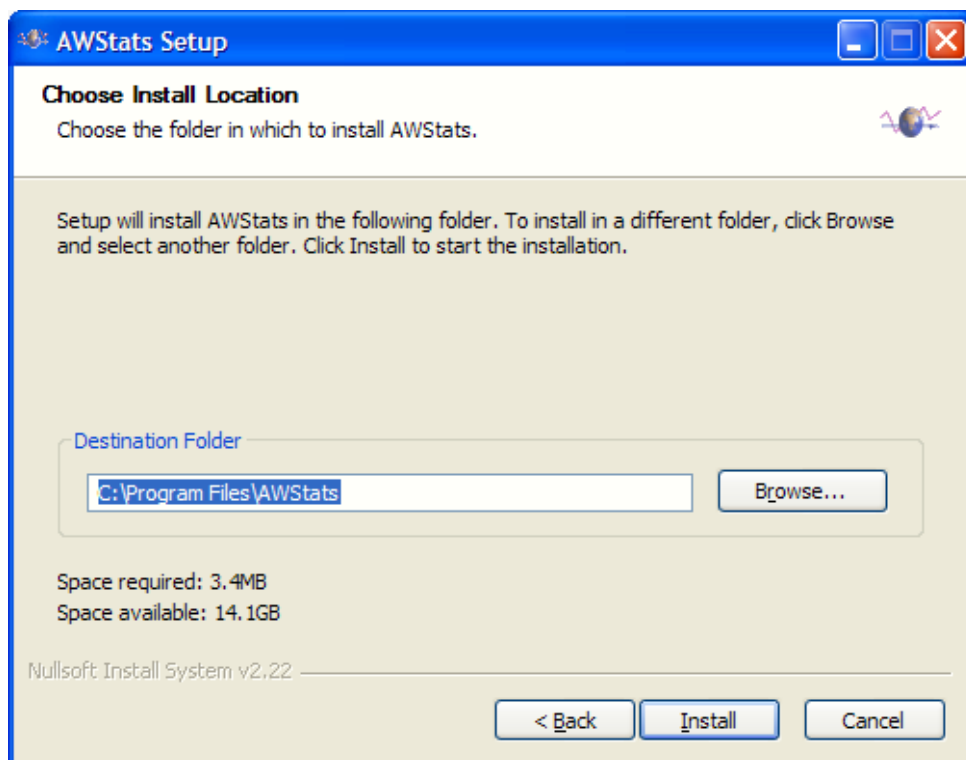
Save this to the "C:\Perl" directory with the filename of "hello.pl". Now open a command prompt (Start > Run > cmd) and type the following command:

```
C:\Perl\hello.pl
```

If the command runs and produces "Hello World.", then it looks like Perl is working correctly.

## Step 3 – Installing AWStats

Install AWStats and follow the prompts to accept the default settings. (This will install all files including the documents to the C:\Program Files\AWStats directory.)



You will notice that a Perl window will appear detecting your operating system and will then advise you that it was unable to detect your Apache web server. (If this comes as a surprise you then you may need to consider getting some extra help from here on in). When prompted for your web server path simply add “none” and continue on.

```
C:\Perl\bin\perl.exe

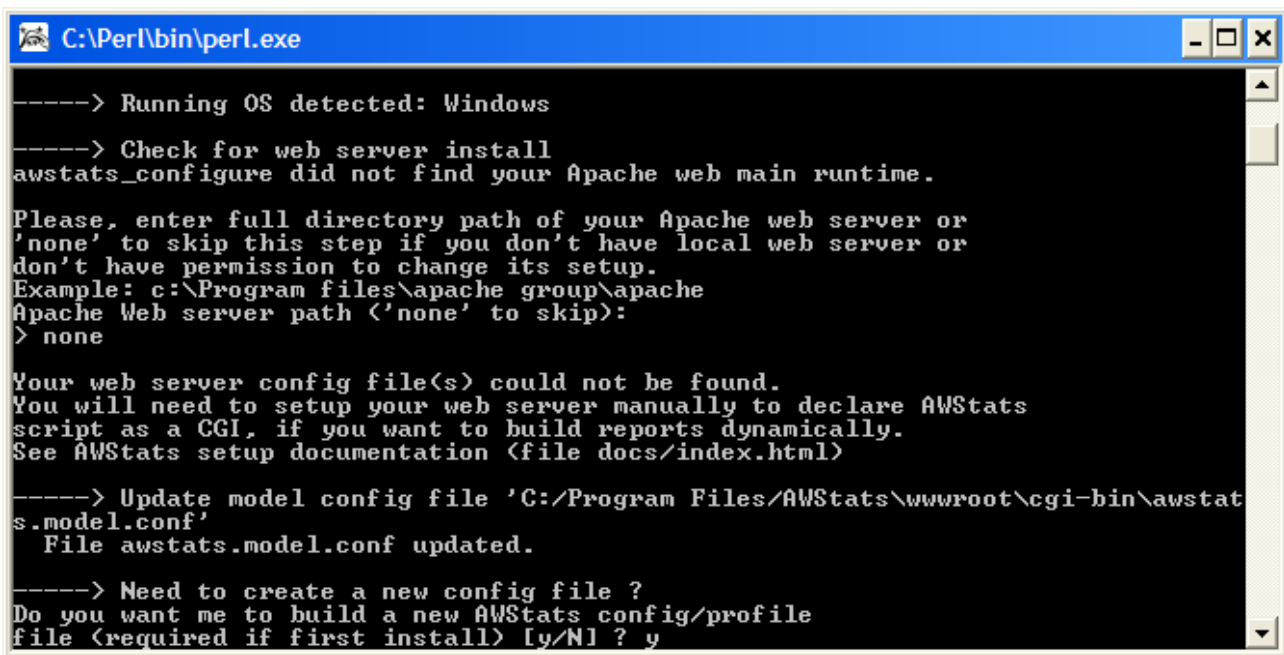
----- AWStats awstats_configure 1.0 (build 1.7) (c) Laurent Destailleur -----
This tool will help you to configure AWStats to analyze statistics for
one web server. You can try to use it to let it do all that is possible
in AWStats setup, however following the step by step manual setup
documentation (docs/index.html) is often a better idea. Above all if:
- You are not an administrator user,
- You want to analyze downloaded log files without web server,
- You want to analyze mail or ftp log files instead of web log files,
- You need to analyze load balanced servers log files,
- You want to 'understand' all possible ways to use AWStats...
Read the AWStats documentation (docs/index.html).

-----> Running OS detected: Windows

-----> Check for web server install
awstats_configure did not find your Apache web main runtime.

Please, enter full directory path of your Apache web server or
'none' to skip this step if you don't have local web server or
don't have permission to change its setup.
Example: c:\Program files\apache group\apache
Apache Web server path ('none' to skip):
> none
```

Next, agree to build a new AWStats Profile file.



```
C:\Perl\bin\perl.exe
-----> Running OS detected: Windows
-----> Check for web server install
awstats_configure did not find your Apache web main runtime.

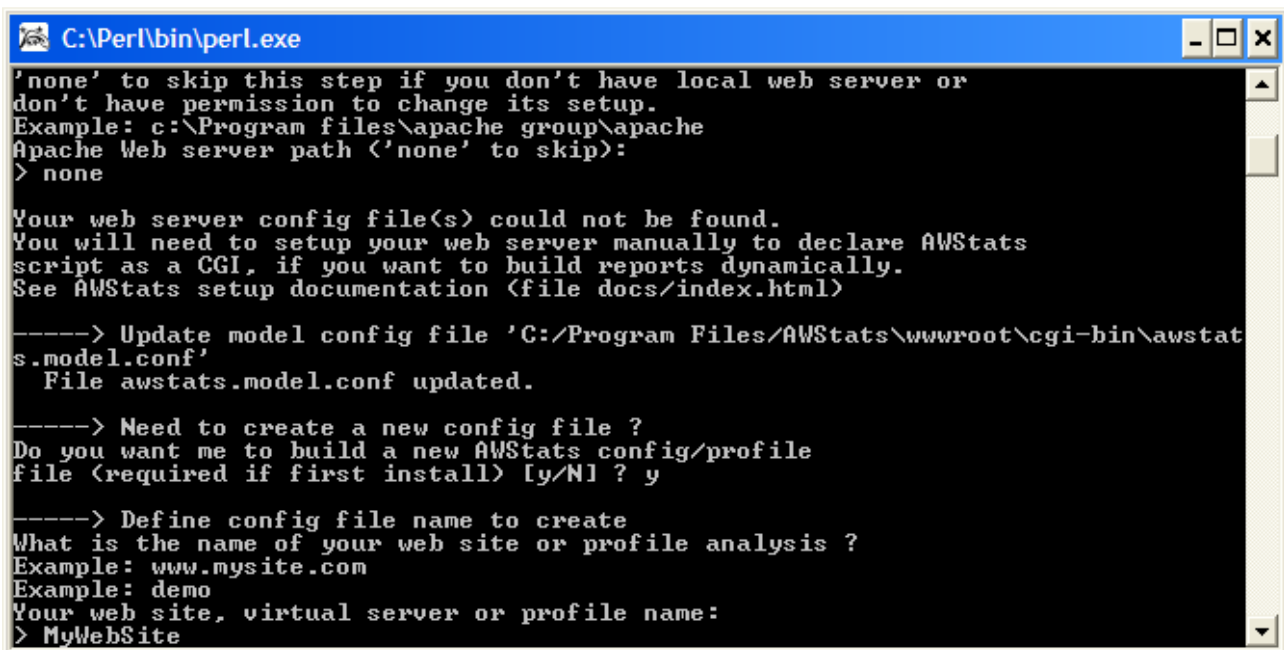
Please, enter full directory path of your Apache web server or
'none' to skip this step if you don't have local web server or
don't have permission to change its setup.
Example: c:\Program files\apache group\apache
Apache Web server path ('none' to skip):
> none

Your web server config file(s) could not be found.
You will need to setup your web server manually to declare AWStats
script as a CGI, if you want to build reports dynamically.
See AWStats setup documentation (file docs/index.html)

-----> Update model config file 'C:/Program Files/AWStats/wwwroot/cgi-bin\awstat
s.model.conf'
File awstats.model.conf updated.

-----> Need to create a new config file ?
Do you want me to build a new AWStats config/profile
file (required if first install) [y/N] ? y
```

Add a name for the web site that you intend to monitor. This name can be anything you want as long as it identifies the actual website that you wish to monitor. Don't worry if you have multiple websites running from the same web server we can easily add all these later. It is important to get this first Profile file right to get us started.



```
C:\Perl\bin\perl.exe
'none' to skip this step if you don't have local web server or
don't have permission to change its setup.
Example: c:\Program files\apache group\apache
Apache Web server path ('none' to skip):
> none

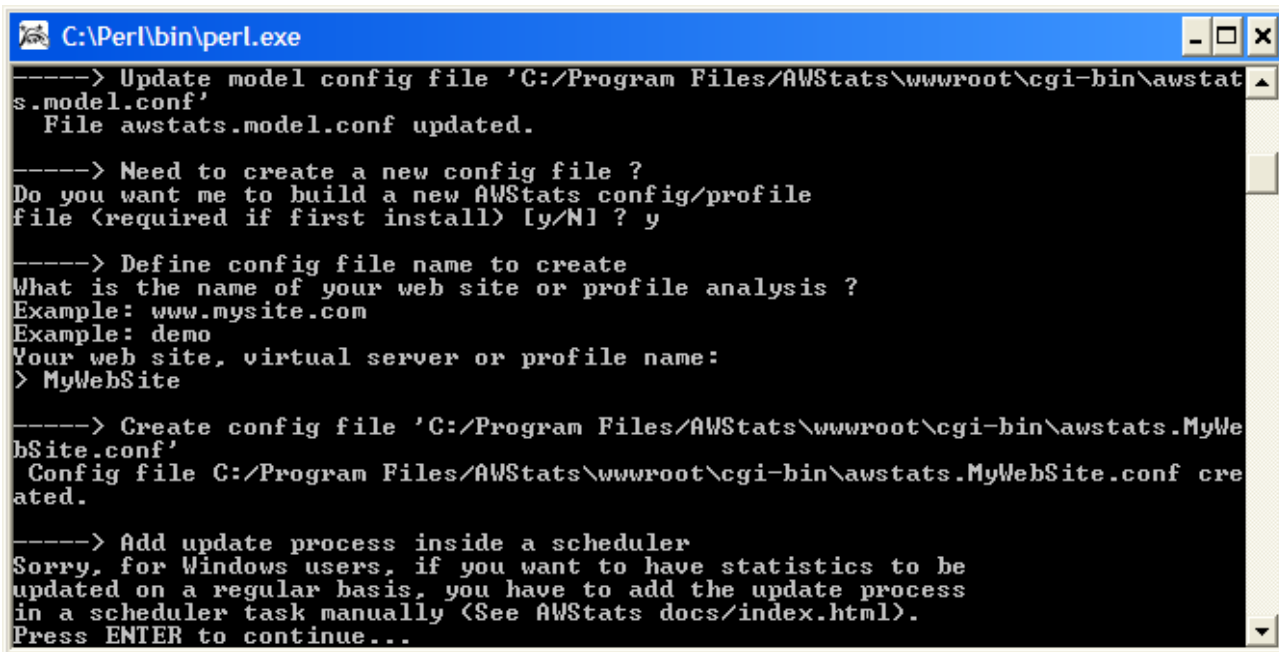
Your web server config file(s) could not be found.
You will need to setup your web server manually to declare AWStats
script as a CGI, if you want to build reports dynamically.
See AWStats setup documentation (file docs/index.html)

-----> Update model config file 'C:/Program Files/AWStats/wwwroot/cgi-bin\awstat
s.model.conf'
File awstats.model.conf updated.

-----> Need to create a new config file ?
Do you want me to build a new AWStats config/profile
file (required if first install) [y/N] ? y

-----> Define config file name to create
What is the name of your web site or profile analysis ?
Example: www.mysite.com
Example: demo
Your web site, virtual server or profile name:
> MyWebSite
```

Next, hit Enter to continue when it advises you that Windows users will need to set up a scheduler task (more on this later).



```
C:\Perl\bin\perl.exe
-----> Update model config file 'C:/Program Files/AWStats/wwwroot/cgi-bin/awstats.model.conf'
File awstats.model.conf updated.

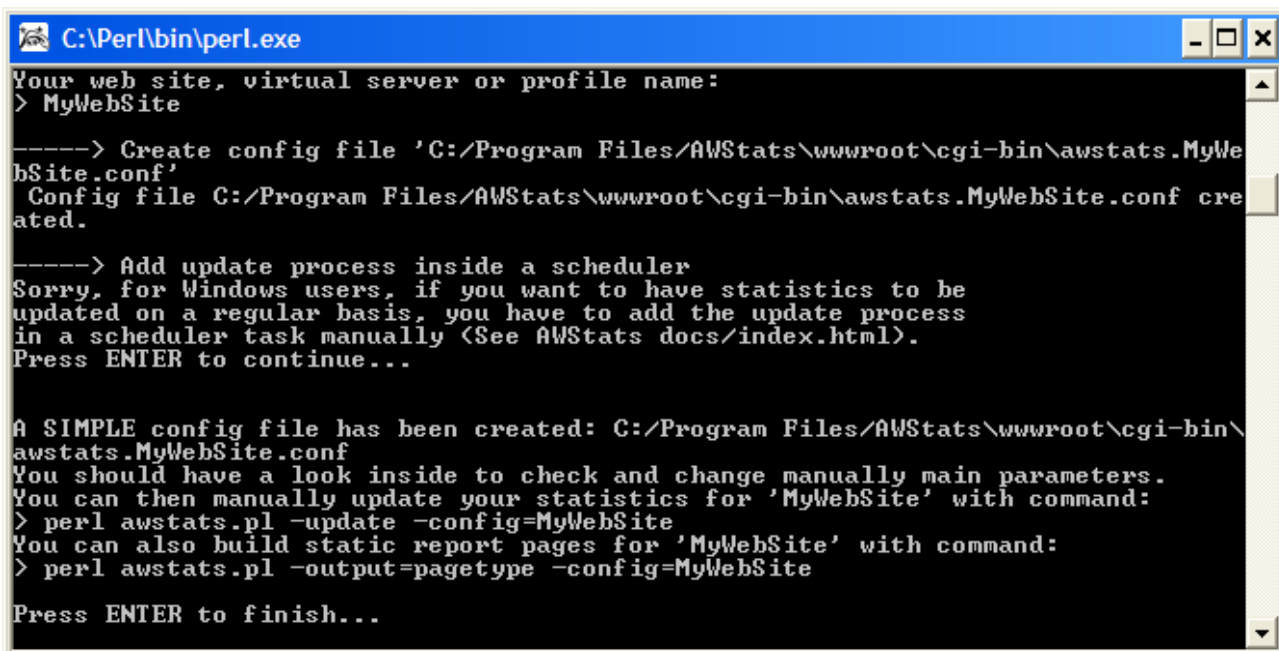
-----> Need to create a new config file ?
Do you want me to build a new AWStats config/profile
file (required if first install) [y/N] ? y

-----> Define config file name to create
What is the name of your web site or profile analysis ?
Example: www.mysite.com
Example: demo
Your web site, virtual server or profile name:
> MyWebSite

-----> Create config file 'C:/Program Files/AWStats/wwwroot/cgi-bin/awstats.MyWebSite.conf'
Config file C:/Program Files/AWStats/wwwroot/cgi-bin/awstats.MyWebSite.conf created.

-----> Add update process inside a scheduler
Sorry, for Windows users, if you want to have statistics to be
updated on a regular basis, you have to add the update process
in a scheduler task manually (See AWStats docs/index.html).
Press ENTER to continue...
```

Hit Enter to finish.



```
C:\Perl\bin\perl.exe
Your web site, virtual server or profile name:
> MyWebSite

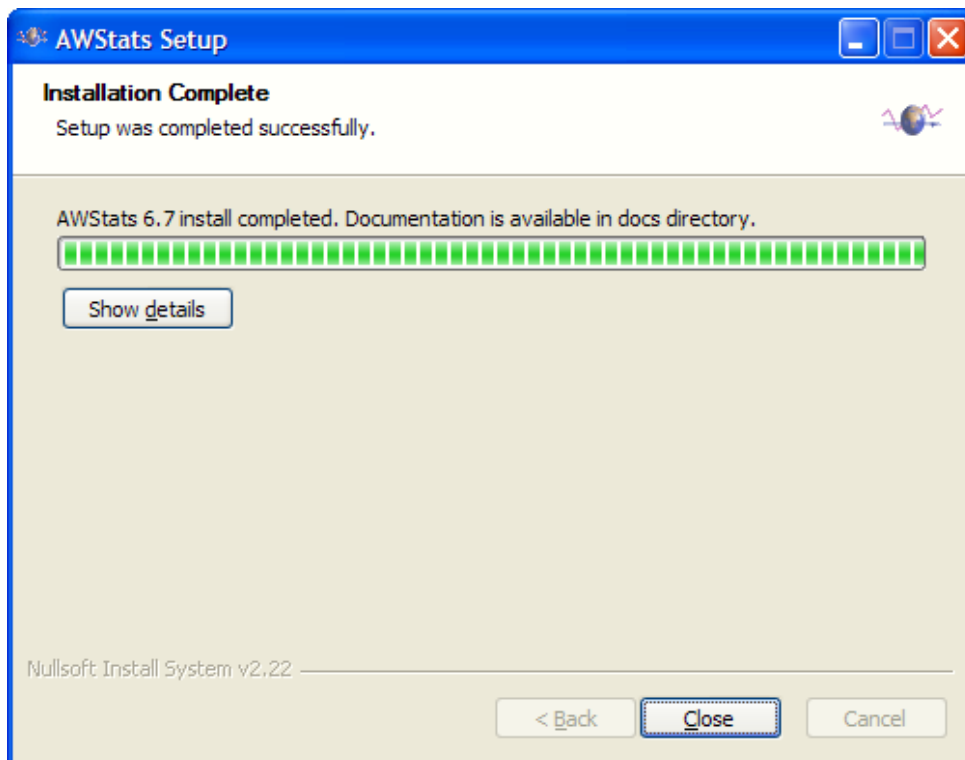
-----> Create config file 'C:/Program Files/AWStats/wwwroot/cgi-bin/awstats.MyWebSite.conf'
Config file C:/Program Files/AWStats/wwwroot/cgi-bin/awstats.MyWebSite.conf created.

-----> Add update process inside a scheduler
Sorry, for Windows users, if you want to have statistics to be
updated on a regular basis, you have to add the update process
in a scheduler task manually (See AWStats docs/index.html).
Press ENTER to continue...

A SIMPLE config file has been created: C:/Program Files/AWStats/wwwroot/cgi-bin/awstats.MyWebSite.conf
You should have a look inside to check and change manually main parameters.
You can then manually update your statistics for 'MyWebSite' with command:
> perl awstats.pl -update -config=MyWebSite
You can also build static report pages for 'MyWebSite' with command:
> perl awstats.pl -output=pagetype -config=MyWebSite

Press ENTER to finish...
```

Finally, click Close to close the AWStats setup window.



## Step 4 – Setting up the Perl Extension in IIS 6 and IIS7

Now we are going to set up IIS with access rights. Open up your IIS Manager (Start > Run > inetmgr) and go to the :

- **For IIS6:** Web Service Extensions folder. Right click on the “Web Service Extension” folder and choose “Add a new Web service extension...”
- **For IIS7:** click on the root node, and in the content on the right find the “ISAPI and CGI Restrictions”



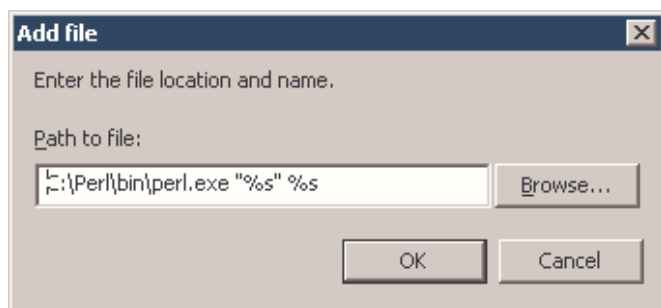
The image shows two screenshots side-by-side. The left screenshot is titled "New Web Service Extension" and shows a dialog box where "Perl" is entered in the "Extension name" field. The right screenshot is titled "Internet Information Services (IIS) Manager" and shows the "MSTANKALA Home" page. In the "ISAPI and CGI Restrictions" folder, a table lists various extensions. The "PERL" entry is highlighted with a red box, and its "Restriction" is "Allowed". A second dialog box, "Edit ISAPI or CGI Restriction", is open, showing the "ISAPI or CGI path" as "C:\Perl\bin\perl.exe \"%s\" %s" and the "Description" as "PERL". The "Allow extension path to execute" checkbox is checked. The "Actions" pane on the right shows "Add..." selected.

IIS6

IIS7

### Continued for IIS6...

Add the title “Perl” and then click “Add...” to add a path to the Perl executable.

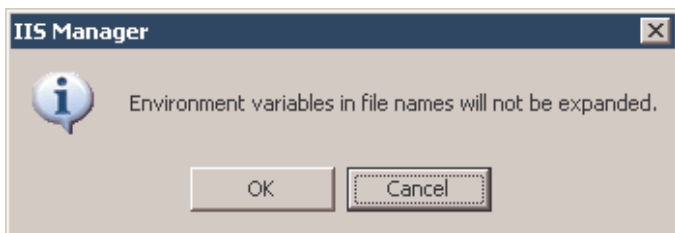


Browse to the C:\Perl directory to pick up the Perl executable and add the following path (including the environment variable):

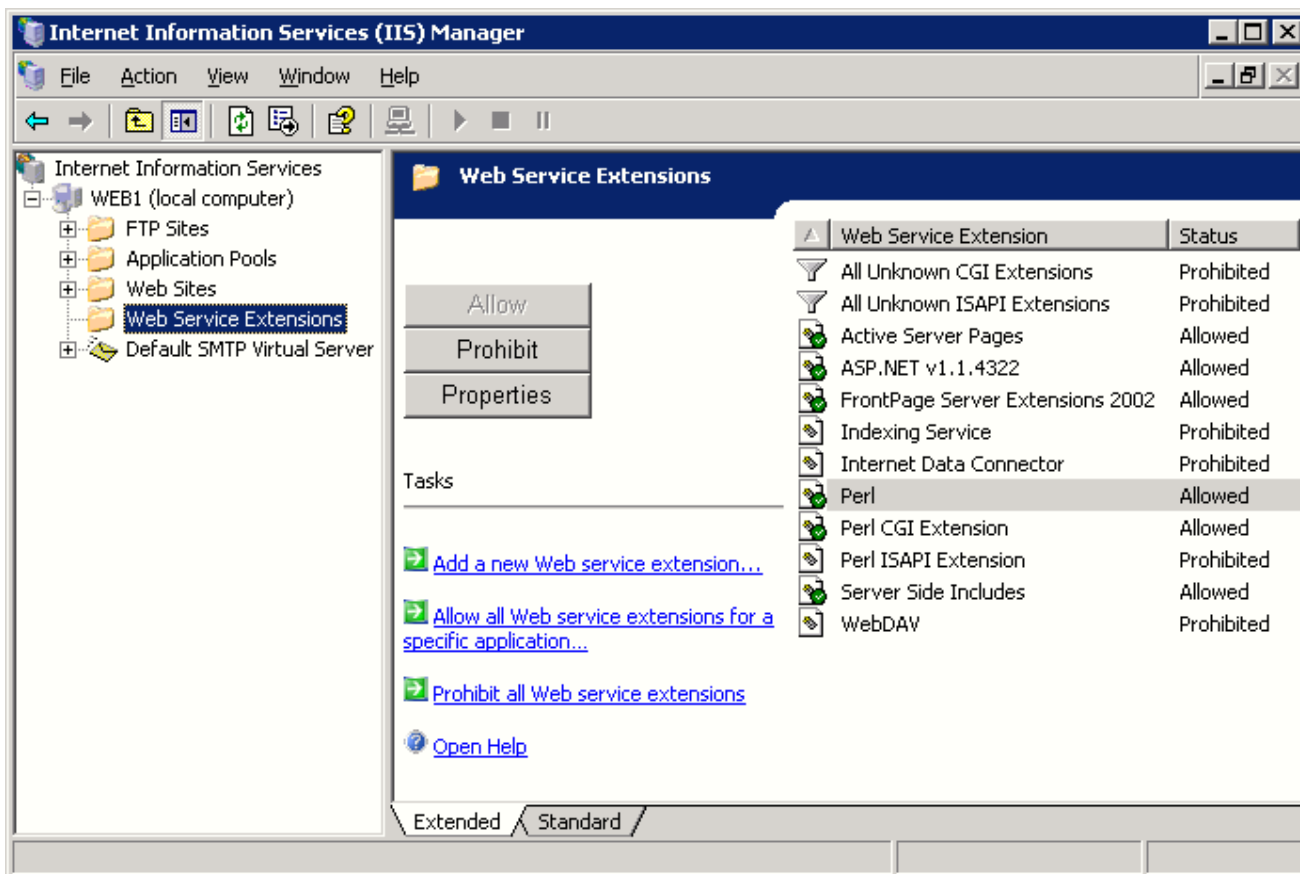
C:\Perl\bin\perl.exe "%s" %s =>!! **Do not Copy-Paste** this line because the [“] characters are different for Word and command line.



If you get the following message, remove the variable that is already in use (most likely the %s without the quotes).



Finally, ensure that both the "Perl" and the "Perl CGI Extension" extensions have been set to "Allowed" as per the following window. This is important to allow the Perl scripts to run when updating the statistics dynamically.



## Step 5 – Setting up the Application Extension in IIS 6 and IIS7

Go to the “Web Sites” folder in the IIS Manager and right click on any virtual website that you intend to collect statistics for. Select Properties and then select the “Home Directory” and then:

- **for IIS6:** select “Configuration... (in the “Applications Settings” section). The following window should appear:

- **for IIS7:** click on the root node content on the Handler Mapping



### Continued for IIS6...

Check to see if a “.pl” extension is in the list. If not, then you need to add it by clicking on “Add...” and entering the details exactly as follows:

Select OK to save and close this.

Note: You only need to do Steps 5 & 6 once as this will be a global change in IIS.

## Step 6 – Creating a Website for the AWStats

Now, we are going to create a new website specifically for AWStats to use for displaying the statistics for any of our virtual websites.

Create a folder under your web root folder entitled “AWStats”(or whatever you like to identify the location of your AWStats Website). In other words, if your web pages are stored under the standard “C:\Inetpub\wwwroot”, then create it under there. For all you others, you should know exactly what I mean.

Go to the “C:\Program Files\AWStats\wwwroot” directory and copy the following folders (and all the contents) out to sit under the new directory you have just created:

- **cgi-bin**
- **classes**
- **css**
- **icon**
- **js**

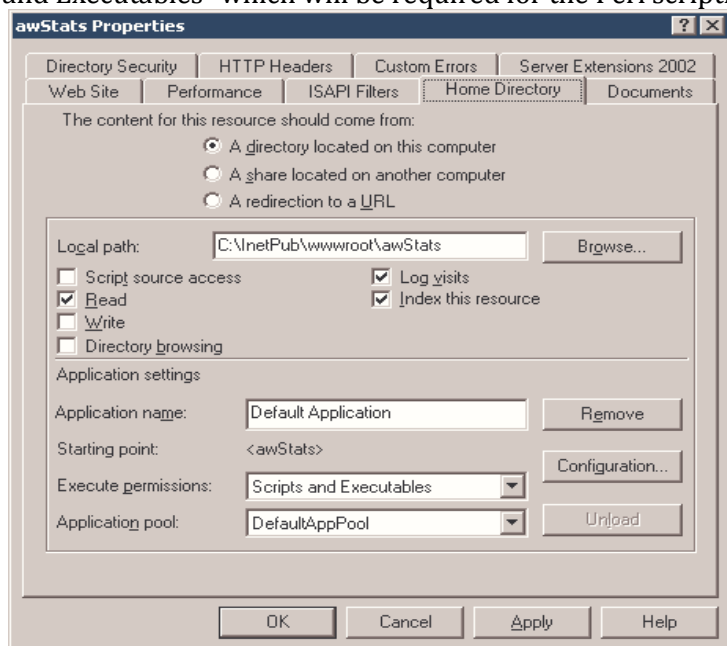
Please note that you can simply place these folders and files directly under the web root if you want to, but I intend to run the web statistics in a separate virtual website as I am attempting to be careful not to allow “Scripts and Executables” access to the root of my website.

Essentially, we will be using AWStats from this new location such that the files under “C:\Program Files\AWStats\wwwroot” will be redundant. I would not remove those files because there are help files there for future reference (along with other Perl files for advanced users).

Open up your IIS Manager (Start > Run > inetmgr), and create a new website using this new “AWStats” folder that you have created under the web root. If you do as I have done you can always create a subdomain (or domain) purely for gathering statistics for all of your websites, like “statistics.mydomain.com”. Or just use the IP address. Whichever is easier providing you can access the website!

### Required for IIS6:

Create your AWStats Website using the following settings (note that the “Execute permissions” are set to “Scripts and Executables” which will be required for the Perl scripting):



## Step 7 \* – Setting up the AWStats Data Directory with Modify Rights


Open up Windows Explorer and go to the virtual directory that you are using for your new AWStats Website. Create a directory called “data”.

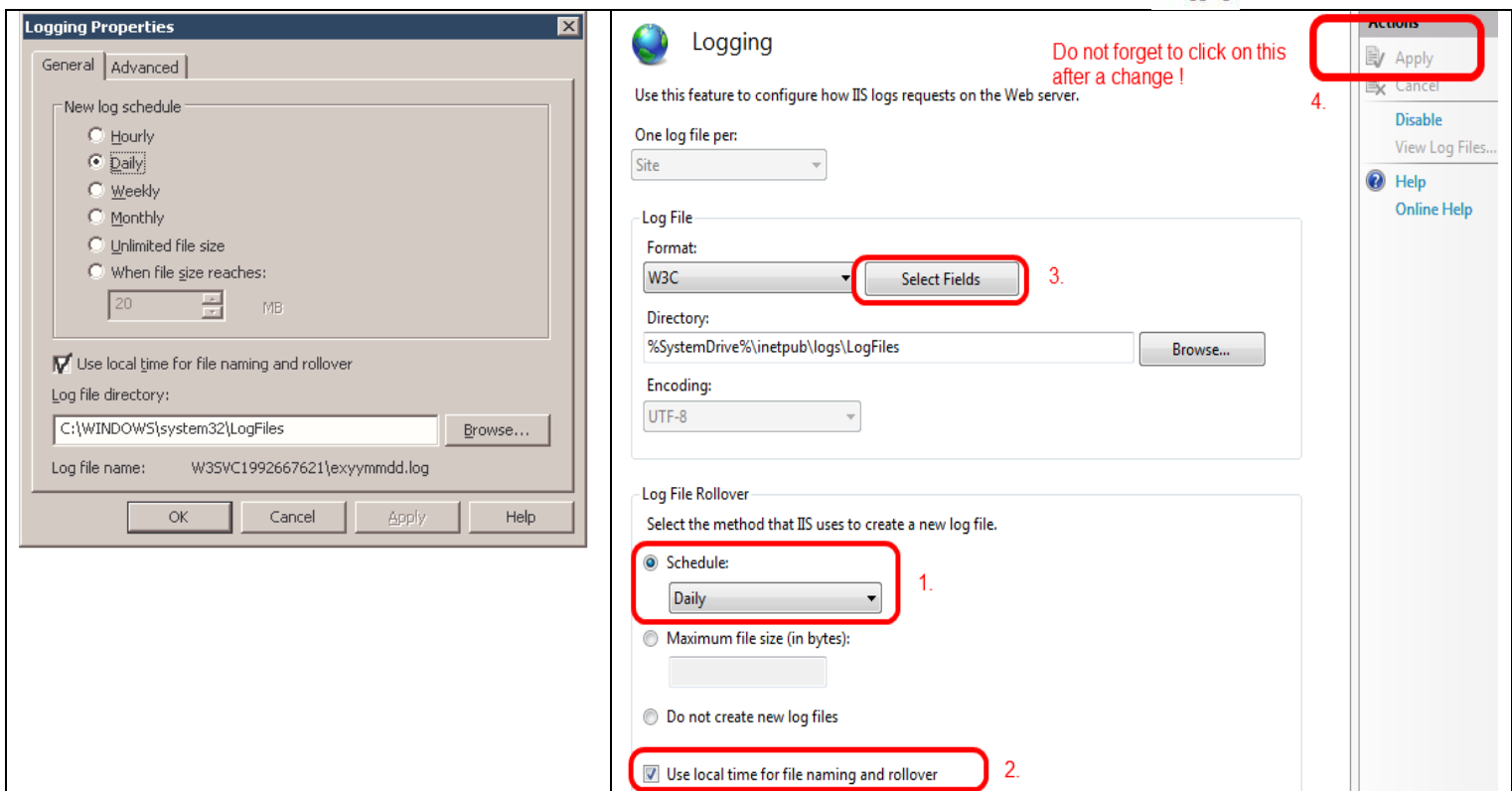
Enable “Modify” access to be given to the standard IUSR\_MyServer account. This is the directory that AWStats will store the data it creates from gathering the statistics. (Yes, even despite the fact that IIS stores all the web logs already... it’s different!). Using the “Modify” rights is critical so that AWStats can update its own logs.

Our AWStats Website is now ready to start working, so now we need to feed it some statistics

## Step 8 \* – Configuring the Web Log File Location, Frequency and Data Collection for MyWebsite - IIS6 and IIS7

Using the IIS Manager (Start > Run > inetmgr), open the Properties of MyWebsite and select the Web Site tab and then:

- **for IIS6:** click on the “Enable logging” checkbox to enable it (if not already checked), select “WC3 Extended Log File Format” and then select the “Properties...” to open the following dialog box:
- 
- **for IIS7:** Root node or just the specified website: click the Logging Icon 



The image shows two side-by-side screenshots of IIS logging configuration. The left screenshot is the 'Logging Properties' dialog box for IIS6, with the 'Advanced' tab selected. It shows 'Daily' selected under 'New log schedule', '20 MB' for 'When file size reaches', and 'C:\WINDOWS\system32\LogFiles' for 'Log file directory'. The right screenshot is the 'Logging' configuration page for IIS7. It shows 'Site' for 'One log file per', 'W3C' for 'Format' (with a 'Select Fields' button), '%SystemDrive%\inetpub\logs\LogFiles' for 'Directory', and 'UTF-8' for 'Encoding'. Under 'Log File Rollover', 'Schedule' is selected with 'Daily' in the dropdown, and 'Use local time for file naming and rollover' is checked. Red boxes and numbers 1, 2, 3, and 4 highlight these specific settings. A red text note says 'Do not forget to click on this after a change!' pointing to the 'Apply' button in the 'Actions' pane on the right.

IIS6

IIS7

Here you can set the “Log file directory” to any directory you choose (or simply use the default).

**For IIS6:** Go to the “Advanced” tab and ensure that ALL of the following are checked:

**For IIS7:** Click on the “**Select Fields**” button in the “Log File” section and check the following:

- **Date (date)**
- **Time (time)**
- **Client IP Address (c-ip)**
- **Username (cs-username)**
- **Method (cs-method)**
- **URI Stem (cs-uri-stem)**
- **URI Query (cs-uri-query)**
- **Protocol Status (sc-status)**
- **Bytes Sent (sc-bytes)**
- **Time Taken (time-taken)**
- **Protocol Version (cs-version)**
- **Host (cs-host)**
- **User Agent (cs(User-Agent))**
- **Referrer (cs(Referrer))**

These will be the actual details we are collecting from each website hit. When this has been done:

- **for IIS6:** click OK to close and exit back to the IIS Manager.
- **for IIS7:** click on the “**Apply**” button

Check the “**Use local time for file naming and rollover**” option. Remember that IIS always records the statistics using GMT because it makes the assumption that the Internet is universal and therefore should use the Universal time zone.

I believe that there is a plugin for AWStats that allows you to use the local time for recording your statistics. Be aware that there is a performance hit with using plugins with AWStats.

For further details go to: [http://awstats.sourceforge.net/awstats\\_contrib.html#PLUGINS](http://awstats.sourceforge.net/awstats_contrib.html#PLUGINS)

## Step 9 – Removing the Old Web Log Files for a Clean Start

**NOTE: We are creating statistics for the yesterdays log file! After a Clean Start we won't get any statistics, until we copy the current Log file under a different name that fits the yesterdays Log file name.**

Go to the IIS web logs directory and delete ALL the log files.

These are usually located at something similar to :

```
C:\WINDOWS\system32\Logfiles\W3SVC1992667621\  
or  
C:\inetpub\logs\LogFiles\W3SVC1\
```

**(You can see the location in Logging Properties as shown in Step 8).**

If you have configured a different directory then you should know where I mean. The files usually appear to be named like exYYMMDD.log and can all be deleted (unless for some reason you wish to keep them). I believe that the difference is that their format will probably not suit the AWStats log format, so attempting to read the old log files into AWStats probably won't work too well.

## Step 10 – Configuring the AWStats Profile

Now, go to the "cgi-bin" directory of your AWStats Website and you will notice a file entitled "awstats.MyWebsite.conf" (or whatever you named your Profile from Step 3). Note that you can ultimately use this file as a template to work with any other websites you wish to gather statistics from. Open the file for editing.

There are only a few specific parameters that need to be altered in this file to get it to work. Here is the list (exactly as each appears in the Profile file) according to what I found was successful (the other parameters I left at the default settings):

Open the file in WordPad first and view the contents. (By opening it in WordPad first it will be nicely formatted for opening in our favourite: Notepad, which I think happens to be Microsoft's most capable program).

```
*****  
#=>IIS6: ex prefix: #the "-24" means the log file with the yesterdays date  
#LogFile="C:/WINDOWS/system32/Logfiles/W3SVC1992667621/ex %YY-24%MM-24%DD-24.log"  
#=>IIS7: u_ex, but check it, could be different:  
#LogFile="C:/inetpub/logs/LogFiles/W3SVC1/u_ex%YY-24%MM-24%DD-24.log"  
  
LogType=W  
  
LogFormat="%time2 %method %url %other %logname %host %other %ua %query %virtualname %code %bytesd  
%extral" #%extral keeps the time-taken  
  
LogSeparator=" "  
  
SiteDomain="www.mydomain.com"  
  
HostAliases="www.mydomain.com"  
  
DNSLookup=1  
  
#Path and directory with modify rights from Step 7 (keeps also the Log history)  
DirData="C:\Inetpub\wwwroot\awstats\data"
```

```
DirCgi="/cgi-bin"
DirIcons="../icon"
ShowAuthenticatedUsers=PHBL #isn't working ☹ since ASP.NET is authenticating users and not IIS
                             # (using Windows Authentication it would work)
ShowFlagLinks="de en pl" #will display additional language flags in AWStat webpage report
LoadPlugin="tooltips" #uncomment this plugin

*****
```

Further Hint: Be very careful with your directory paths here with the “LogFile”, “DirData”, “DirCgi” and “DirIcons” parameters.

I had lots of issues getting this Profile file to read the directories that I had specified using the “/”, “../” or “.” switches.

Just be warned that getting the path right is critical for AWStats to work properly and even though it looks like it is updating correctly, your statistics may not reflect the actual updates. The path that seemed to matter the most was the “DirData” path, which worked perfectly using the absolute path. (e.g. DirData="C:\Inetpub\wwwroot\awstats\data").

Even Further Hint: Make sure you use the exact “LogFile” path for the website that you want statistics for. Don’t use the path I have used in the above example as I guarantee yours will be different from mine and for every other website!

Even Further Extra Hint: Watch your quotation marks! Follow the above example carefully.

Even Further Extra Additional Hint: It is possible to add multiple domain / subdomain names / IP addresses to the “HostAliases” parameter (providing they all point to the same virtual website!).

For example, you could have: HostAliases="www.mydomain.com support.mydomain.com 227.12.16.212"

Notice how the entries are each separated by a space? In theory you should have no problems with the way I have specified the structure in the above example, but please be warned... Check it out for yourself!

## Step 11 – Testing and Finishing

Let's test it out! Open a command prompt and change to the "C:\Inetpub\wwwroot\awStats\cgi-bin" directory. Run the following Perl command to update the AWStats data for display:

```
awstats.pl -config=MyWebsite -update
```

This should provide output something similar to the following on the command screen:

```
C:\Inetpub\wwwroot\awstats\cgi-bin>awstats.pl -config=MyWebsite -update
```

**Marek Stankala:** I have to use the command with the **perl** prefix to work:

```
C:\Inetpub\wwwroot\awstats\cgi-bin>perl awstats.pl -config=MyWebsite -update
```

```
*****
Update for config " C:\Inetpub\wwwroot\awstats\cgi-bin\awstats.MyWebsite.conf "
With data in log file " C:\WINDOWS\system32\Logfiles\W3SVC1992667621\ex040716.log"...
Phase 1 : First bypass old records, searching new record...
Direct access to last remembered record has fallen on another record.
So searching new records from beginning of log file...
Phase 2 : Now process new records (Flush history on disk after 20000 hosts)...
Jumped lines in file: 0
Parsed lines in file: 12
Found 2 dropped records,
Found 6 corrupted records,
Found 0 old records,
Found 4 new qualified records.
*****
```

NOTE: If **new qualified records is 0** and **dropped records equals all IIS logfile** lines, that could mean(for sure☺) the LogFormat is wrong specified. Please read carefully the comment for the LogFormat in your awstat config file. Then compare the LogFormat string with lines from your IIS log file.

To view your statistics, open up a browser and go to the subdomain / domain that you would have set up for the AWStats virtual website and enter the following URL:

<http://statistics.mydomain.com/cgi-bin/awstats.pl?config=MyWebsite>

Obviously replace the subdomain / domain name and the profile name with yours!

To explain this better, you are simply running the awstats.pl file from the cgi-bin directory with the Profile file name being passed into the script. This should give us what we are ultimately seeking from this exercise - a page of statistics! If this was successful, then th URL you just used is the address we will be using from now on to view our statistics for MyWebsite!



## Scheduled Updates

You will need to set up a batch file\* and run it from the Windows Scheduler so that it updates the statistics every hour (or whichever frequency you require). Here is an example of a simple batch file that I run every hour to update the statistics:

\*Batch files can be created from a simple text file (.txt) using notepad. When written, rename the file name to have a .bat or .cmd extension.

```
*****
@echo off
C:\inetpub\wwwroot\awStats\cgi-bin\awstats.pl -config=MyWebsite -update
C:\inetpub\wwwroot\awStats\cgi-bin\awstats.pl -config=MyWebsite2 -update
*****
```

As long as you run a scheduled update at least once a day (preferably just before midnight) you should get your statistics correctly.

If you require up-to-the-minute statistics, it is possible to dynamically update the statistics page via an "Update now" link by setting the following parameter in the Profile(conf) file:

AllowToUpdateStatsFromBrowser=1 (see the AWStats documentation for more details).

## Other Virtual Websites Need Tracking?

If you wish to create statistical tracking for another virtual website on your web server, simply copy the existing Profile file out and rename it to suit the new website you wish to track. For example:

awstats.MyWebsite2.conf

Alter the following parameters within the new Profile file to match the new virtual website:

- LogFile
- SiteDomain
- HostAliases

Make sure you follow Step 8 to configure the website logs and then run the update command as above.

## Using Include Files for Multiple Virtual Websites (Optional)

If you have a lot of virtual websites to monitor, AWStats also allows you to use “includes” in your Profile (conf) files. This means that you can use a common Profile (conf) file for all virtual websites and include only the LogFile, SiteDomain and HostAliases parameters (as above) for each website. As an example, my awstats.MyWebsite.conf would look similar to the following:

```
*****
Include "awstats.common.conf"

LogFile="C:/WINDOWS/system32/Logfiles/W3SVC1992667621/ex %YY-24%MM-24%DD-24.log" #=>IIS6
#or
LogFile="C:/inetpub/logs/LogFiles/W3SVC1/u_ex%YY-24%MM-24%DD-24.log" #=>IIS7

SiteDomain="www.mydomain.com"

HostAliases=" www.mydomain.com "
*****
```

In the above example, the "awstats.common.conf" file would have the LogFile, SiteDomain and HostAliases parameters commented out with a “#”. Remember to use the correct path to the “included” Profile (conf) file. In the above example it assumes that all Profile (conf) files reside in the same directory.

## Creating Static Statistics Pages (Optional)

If you prefer, you can also run a Perl command to build static pages of your site statistics by simply adding the following commands to your batch file (after the update command) for each website:

```
awstats.pl -config=MyWebsite -output -staticlinks > C:\Inetpub\wwwroot\awStats\awstats.MyWebsite.html

awstats_buildstaticpages.pl -config=MyWebsite
```

Please note that you will need to copy the “awstats\_buildstaticpages.pl” script file from the “C:\Program Files\AWStats\tools” directory into the “C:\Inetpub\wwwroot\awstats\cgi-bin” directory. The commands “-output -staticlinks” literally “pipe” the output to new HTML pages (which you name) for viewing, so wherever you create these pages is where you should be viewing your statistics. The “awstats\_buildstaticpages.pl” command creates all of the detailed pages. Each time you run this batch file your static pages will obviously be overwritten. As long as you run the scheduled update at least once (no less than 2 minutes) before midnight of the day you wish to gather statistics for, you will get your statistics correctly for that given day.

## Extra Security (Optional)

If you wish to secure your statistical pages you can always employ standard Windows authentication to secure the AWStats directories. Set up a user with ONLY “Read” access to the AWStats directory. Then, using IIS disable Anonymous Access to the AWStats Website forcing a Windows logon to access your AWStats Website statistics. Simple, and it works a treat!

## Winding Up

There is no end to the number of Profiles that can be set up. This should hopefully conclude the process for installing the AWStats program. As mentioned earlier, if anyone has any issues with this guide, please do not hesitate to contact me so that I can address any documentation issues. In fact, if anyone has any suggestions to add value to this document please let me know so that we can make the document even more comprehensive and valuable.

Finally, if this guide has contributed to making your life slightly easier, then send me a shout because it'd be nice to know that I actually made a difference!

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## Extra Section – Time Taken

Basically the time-taken won't work if we do not modify the awstat.pl file which is kind of core AWStats file. Note: the file is responsible for generating all statistics in AWStats.

We have to "hack" it.

The trick here is replacing of the Page Hit Count value with the Time-Taken value, but only for the Extra Sections – other out-of-the-box statistics will work as before.

But it also means ,that future adding of new Extra Sections, won't work as it was mentioned by the AWStats creators.

So first step is to open the corresponding awstats.MyWebsite.conf file.

At the end of the config, paste the following lines:

```
# Report the TimeTaken
ExtraSectionName1="Time Taken"
ExtraSectionCodeFilter1=""
ExtraSectionCondition1="URL,\.aspx" # Include in report only ASPX pages requests
ExtraSectionFirstColumnTitle1="Time Taken"
ExtraSectionFirstColumnValues1="URL,\.aspx" # Group by ASPX pages
ExtraSectionFirstColumnFormat1="%s"
ExtraSectionStatTypes1=PHBL # P-> required -> is for TIME in Extra Section because of changes in
"awstats.pl"
ExtraSectionAddAverageRow1=0
ExtraSectionAddSumRow1=0
MaxNbOfExtra1=20
MinHitExtra1=1
```

Because of mentioned restrictions in AWStat Extra section, we have to modify the **awstat.pl** file, to get the time-taken values. But first make a copy of the current awstat.pl and save it under a different name, e.g.: awstat.pl.original

Open the **awstat.pl** config file in the AWStat website directory,

e.g.: C:\Inetpub\wwwroot\awstats\cgi-bin\awstat.pl

Below the line 12761 paste the following lines (the variable \$timeTaken will keep our **extra1** parameter value):

```
#NEW TIME TAKEN : Marek Stankala
my $timeTaken = $field[$pos_extra[1]] ;
```

Comment out the line 12775 and paste below the red line:

```
#$rowkeyval = "$1";
$rowkeyval = "$urlwithnoquery"; #Marek Stankala
```

Comment out the lines 12858 – 12860 and below the Hit counter paste the red lines:

```
# Here we got all values to increase counters
# if ( $PageBool && $ExtraStatTypes[$extranum] =~ /P/i ) {
#     ${ '_section_' . $extranum . '_p' }{$rowkeyval}++;
# }

#Hit counter
${ '_section_' . $extranum . '_h' }{$rowkeyval}++; # Must be set

#Marek Stankala
#REPLACE FOR PAGES COUNTER -> Avarage TimeTaken -> only here for Extra Section
if ( $PageBool && $ExtraStatTypes[$extranum] =~ /P/i ) {
    ${ '_section_' . $extranum . '_p' }{$rowkeyval} = int(
        ( ${ '_section_' . $extranum . '_p' }{$rowkeyval} + $timeTaken)
        / ${ '_section_' . $extranum . '_h' }{$rowkeyval}
    );
}
```

The time-taken average must be updated and saved using the previous history average.

Comment out the lines 5797 and 5798 and paste the red lines:

```
#{ '_section_' . $extranum . '_p' }
# { $field[0] } += $field[1];

#Marek Stankala => we have to calculate the Average not the Sum
if ( ${ '_section_' . $extranum . '_p' }{ $field[0] } ne '' ) {
    ${ '_section_' . $extranum . '_p' }{ $field[0] } = ( ${ '_section_' . $extranum . '_p' }
        { $field[0] } + $field[1] ) / 2;
}
# if first time updated - no previous history for this day/logfile
else {
    ${ '_section_' . $extranum . '_p' }{ $field[0] } = $field[1];
}
```

Finally we have to set the name of the column that is displaying the time-taken values in the HTML report:

- General time-taken report page: Comment out the line 15796 and paste below the red line:  
#<th bgcolor="\#\$color\_p\" width="80\">\$Message[56]</th>;  
" <th bgcolor="\#\$color\_p\" width="80\">Avg Time Taken[ms]</th>;
- Detailed time-taken report page: Comment out the line 19438 and paste before the red line:  
print "<th bgcolor="\#\$color\_p\" width="80\">Avg Time Taken[ms]</th>; #Marek Stankala  
#<th bgcolor="\#\$color\_p\" width="80\">\$Message[56]</th>;

Finally updated awstats.pl config file should look like the one below:



awstats.pl

After generating the new statistics, you should see at the end of the left menu, a new extra section "Time Taken":

- Statistics for: PEA
- Summary
- When:
  - Monthly history
  - Days of month
  - Days of week
  - Hours
- Who:
  - Countries
  - Full list
  - Hosts
  - Full list
  - Last visit
  - Unresolved IP Address
- Authenticated users
  - Full list
  - Last visit
- Robots/Spiders visitors
  - Full list
  - Last visit
- Navigation:
  - Visits duration
  - File type
  - Viewed
  - Full list
  - Entry
  - Exit
- Operating Systems
  - Versions
  - Unknown
- Browsers
  - Versions
  - Unknown
- Referrers:
  - Origin
  - Referring search engines
  - Referring sites
- Search
  - Search Keyphrases
  - Search Keywords
- Others:
  - Miscellaneous
  - HTTP Status codes
  - Pages not found
- Extra/Marketing:**
  - Time Taken**
  - Full list

**Operating Systems (Top 10)** - [Full list/Versions](#) - [Unknown](#)

Operating Systems		Hits	Percent
Windows		45	100 %

**Browsers (Top 10)** - [Full list/Versions](#) - [Unknown](#)

Browsers		Grabber	Hits	Percent
Firefox		No	45	100 %

**Connect to site from**

Origin		Pages	Percent	Hits	Percent
<b>Direct address / Bookmark / Link in email...</b>					
<b>Links from an Internet Search Engine</b> - <a href="#">Full list</a>					
<b>Links from an external page (other web sites except search engines)</b> - <a href="#">Full list</a>					
Unknown Origin		16	100 %	45	100 %

**Search Keyphrases (Top 10)**

Full list		Search	Percent
0 different keyphrases			

**Search Keywords (Top 10)**

Full list		Search	Percent
0 different keywords			

**Miscellaneous**

Miscellaneous		Visitors	Percent
Successful hits on favicon.ico		0 / 1	0 %

**HTTP Status codes**

HTTP Status codes*		Hits	Percent	Bandwidth
302	Moved temporarily (redirect)	4	100 %	18.05 KB

\* Codes shown here gave hits or traffic "not viewed" by visitors, so they are not included in other charts.

**Time Taken**

Time Taken - <a href="#">Full list</a>		Avg Time Taken(ms)	Hits	Bandwidth	Last visit
/pea/Fund/FundAdvancedFilters.aspx		3335	2	36.90 KB	03 Mar 2010 - 09:5
/pea/Images/CaptchaImage.aspx		2921	1	1.57 KB	03 Mar 2010 - 09:5
/pea/Company/CompanyAdvancedFilters.aspx		2859	3	143.16 KB	03 Mar 2010 - 09:5
/pea/Login.aspx		511	2	22.37 KB	03 Mar 2010 - 09:5
/pea/default.aspx		430	2	9.36 KB	03 Mar 2010 - 09:5
/pea/Fund/FundAdvancedDescriptives.aspx		397	5	55.17 KB	03 Mar 2010 - 09:5