

Installing and Configuring AWStats for UTAS Eprints

Note: These instructions are specific to the School of Computing, University of Tasmania's UtasER (ePrints) implementation. They can be used as a rough guide for installing and configuring awstats for inclusion on other ePrints servers.

1. Download AWStats and the GeoIPFree perl library from:

- <http://awstats.sourceforge.net>
- <http://search.cpan.org/~gmpassos/Geo-IPfree-0.2/lib/Geo/IPfree.pm>

2. As the root user on dozer, unpack and install the GeoIPFree perl library first - using the instructions in the README file.

3. Before configuring AWStats it is necessary to temporarily move the /usr/local/apache/conf directory /usr/local/apache/conf.moved. This is because we are running a separate eprints apache web server on port 81 from within ~eprints/apache while still running our main web server on port 80 from within /usr/local/apache.

4. Ensure that the Apache config file is using the following log file format:

```
LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\"" combined
CustomLog /home/dozer/eprints/apache/logs/access_log combined
```

5. As the eprints user on dozer, unpack the AWStats package into the eprints user's home directory:

- /home/dozer/eprints/awstats-6.x

6. Run the AWStats configuration script:

- cd /home/dozer/eprints/ awstats-6.x/tools
- perl awstats_configure.pl
- answer y to run from non-standard directory
- enter /home/dozer/eprints/apache/conf/httpd.conf for the apache config file path
- answer y to build a new AWStats config/profile
- enter eprints.comp.utas.edu.au as the name of your web site
- enter /home/dozer/eprints/etc-awstats for the location of the config files
- press enter to continue, read output and then press enter to finish

7. Edit the AWStats config file:

```
/home/dozer/eprints/etc-awstats/awstats.eprints.comp.utas.edu.au.conf
```

Make sure the following are set:

```
LogFile="/home/dozer/eprints/apache/logs/access_log"
SiteDomain="eprints.comp.utas.edu.au:81"
DNSLookup=0
DirData="/home/dozer/eprints/data-awstats"
DirIcons="/icons"
AllowFullYearView=3
LoadPlugin="geoipfree"
```

8. Copy awstats icon files to apache icon directory

```
cd /home/dozer/eprints/awstats-6.4/wwwroot/icon
cp -r * /home/dozer/eprints/apache/icons
```

[Steps 9, 10 and 11 are Optional, as a set]

We find it valuable to be able to separate internal accesses from our local intranet from those elsewhere in our country. To do this you will need to know the IP address range used by your university, and design a small log in png format.

9. As the user root on dozer, change the geoipfree country data to include a local Intranet "country" with code t5

- Use perl -v to determine the INC paths and use these to determine where the GeoIPFree library is installed. In our case it is:

```
/usr/local/lib/perl5/site_perl/5.8.0/Geo
```

- Convert the ipscountry.dat file to text:

```
perl ipct2txt.pl ./ipscountry.dat ./ips-ascii.txt
```

- Edit the file so that all your Intranet LAN IP ranges are included **in the correct order** in the file. An example edited entry:

```
CA: 131.213.0.0 131.213.255.255
US: 131.214.0.0 131.216.255.255
T5: 131.217.0.0 131.217.255.255
US: 131.218.0.0 131.219.255.255
DE: 131.220.0.0 131.220.255.255
```

The original entries:

```
CA: 131.213.0.0 131.213.255.255
US: 131.214.0.0 131.219.255.255
DE: 131.220.0.0 131.220.255.255
```

- Convert the new text version back to binary:

```
perl txt2ipct.pl ./ips-ascii.txt ./ipscountry.dat.new
```

- Backup and replace original ipscountry.dat file
- ```
mv ipscountry.dat ipscountry.dat.orig
mv ipscountry.dat.new ipscountry.dat
```

10. Edit the GeoIPFree perl module to include "T5 Utas\_Internet" in the countries array:

- cp IPfree.pm IPfree.pm.orig

- dos2unix IPfree.pm > IPfree.pm.new
- vi IPfree.pm.new
 

```
my %countrys = qw(
 -- N/A L0 localhost I0 IntraNet A1 Anonymous_Proxy A2 Satellite_Provider T5 UTas_Intranet
```
- mv IPfree.pm.new IPfree.pm

11. Make a 14x14 icon (in png format) for UTas\_Internet called "t5.png" and copy it to the /home/dozer/eprints/apache/icons/flags directory (we use the UTas Lion).



Note that this logo is a different size from the one used by ePrintsStats. AWStats uses square flags, ePrintsStats uses rectangular ones.

12. Ensure that your apache config file /home/dozer/eprints/apache/conf/httpd.conf has the following lines that set up AWStats to be run as a CGI:

```
#
Directives to allow use of AWStats as a CGI
#
Alias /awstatsclasses "/home/dozer/eprints/awstats-6.4/wwwroot/classes/"
Alias /awstatscss "/home/dozer/eprints/awstats-6.4/wwwroot/css/"
Alias /awstatsicons "/home/dozer/eprints/awstats-6.4/wwwroot/icon/"
ScriptAlias /awstats/ "/home/dozer/eprints/awstats-6.4/wwwroot/cgi-bin/"
#
#
This is to permit URL access to scripts/files in AWStats directory.
#
<Directory "/home/dozer/eprints/awstats-6.4/wwwroot">
 Options None
 AllowOverride None
 Order allow,deny
 Allow from all
</Directory>
```

13. Add the following code to the bottom of the /home/dozer/eprints/tools/awstats\_buildstaticpages.pl file:

```
print "\$cpt files built.\n";
print "Main HTML page is 'awstats.\$OutputSuffix.\$StaticExt'.\n";

my \$command="/bin/cp \$OutputDir" . "awstats.\$OutputSuffix.\$StaticExt \$OutputDir" . "index.html";
\$retour="\$command 2>&1";

if (\$QueryString =~ /^(^|&|&)buildpdf/i) { print "PDF file is 'awstats.\$OutputSuffix.pdf'.\n"; }

0; # Do not remove this line
```

14. Make a crontab entry for the eprints user that updates the static html AWStats pages and the data files every day just before midnight:

```
• crontab -e

regenerate eprints web log stats pages every night at 11:50pm
50 23 * * * cd /home/dozer/eprints/awstats-6.4/tools; ./awstats_buildstaticpages.pl -
config=eprints.comp.utas.edu.au -update
```

15. Create symbolic links to the awstats script and required directories from within the UTasER archive. This is required so that we can make awstats cgi available from the eprints web site. As the eprints user:

- cd /home/dozer/eprints/archives/UTasER/html/en
- mkdir awstats
- ln -s /home/dozer/eprints/awstats-6.4/wwwroot/cgi-bin/awstats.pl awstats.pl
- ln -s /home/dozer/eprints/awstats-6.4/wwwroot/cgi-bin/lang lang
- ln -s /home/dozer/eprints/awstats-6.4/wwwroot/cgi-bin/lib lib
- ln -s /home/dozer/eprints/awstats-6.4/wwwroot/cgi-bin/plugins plugins

16. Create links to awstats on the ePrints Site

- Insert the following HTML into the Eprints home page:
 

```
<p>Site statistics generated by awstats.</p>
```

 You will need to edit the UTAS backup version of the eprints index html page: /home/dozer/eprints/archives/UTasER/html/en/index.html.UTAS and then complete the steps below to add the footer.
- Insert the following HTML into the Eprints footer:
 

```
Site Statistics (awstats)
```

 You need to do this by editing the footer information in the following file: /home/dozer/eprints/archives/UTasER/cfg/template-en.xml
 You will also need to regenerate the eprints static files, views and abstracts to include the new footer.
 

```
cd /home/dozer/eprints/bin; ./generate_static; ./generate_views; ./generate_abstracts
```

 After this is completed you will need to restore the UTAS copies of the index.html file and the eprints.css file:
 

```
cd /home/dozer/eprints/archives/UTasER/html/en
cp index.html.UTAS index.html
cp eprints.css.UTAS eprints.css
```