# AWStats - Advanced Web Statistics

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## Abstract

"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."[1]

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[1]What is AWStats, https://awstats.sourceforge.io/#WHAT

# Contents

# List of Definitions and Abbreviations

- **Unique Visitor** - A unique visitor is a person or computer (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 user makes several visits during this period, it is counted only once. Visitors are tracked by IP address, so if multiple users are accessing your site from the same IP (such as a home or office network), they will be counted as a single unique visitor. 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 such a report, period is a full year, so Unique Visitors are number of hosts that have made at least 1 hit on 1 page of your web site during the year.

# Introduction

"There are 3 steps to begin using AWStats:[2]

- I. Setup: Installation and configuration

- II. Process logs: Building/updating statistics database

- III. Run Reports: Building and reading reports

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[2]AWStats Installation, Configuration and Reporting
https://awstats.sourceforge.io

# Installation

AWStats v7.3 and v7.7 are installed on the `intdev`[3] server from package.

The installed versions include:

- AWStats v7.3-1

- AWStats v7.7-1.1.el6

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[3] `intdev - dnratwintdev.dnr.state.ak.us` (204.89.222.43)

# Configuration

AWStats is configured on the `intdev`[4] server with `/etc/awstats/awstats.*.conf` configuration files.

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[4]`intdev - dnratwintdev.dnr.state.ak.us` (204.89.222.43)

# Process Logs

The awstats logs are processed to update the awstats databases under **DirData**:
    DirData="/net/dnr-atwfs1/vol/vol1/weblogs/reports/data"

The 2018 logs to be processed are available on the network path:
    /net/dnr-atwfs1/vol/vol1/weblogs/YYYY/MM/DD

The internet access are within log files like:
    /net/dnr-atwfs1/vol/vol1/weblogs/2018/01/01/nginx/access_log

The log files need to be processed on a monthly basis for all of 2018. This can be broken down by month to:

| Month | Days | Month | Days |
|-------|------|-------|------|
| January | 1-31 | July | 1-31 |
| February | 1-28 | August | 1-31 |
| March | 1-31 | September | 1-30 |
| April | 1-30 | October | 1-31 |
| May | 1-31 | November | 1-30 |
| June | 1-30 | December | 1-31 |

A script can then be written to loop over all the days of the month to process the individual days.

# Run Reports

Foo, bar, baz, quux, ...

# Scripts

Following is a script to loop over and process the logs for the specified category.

# Examples

Series of useful LaTeX markup. Need to break out to separate examples.tex file.

## Escaping $<$ and $>$ Symbols

To get $<$ or $>$ just wrap the symbols in $ for math mode.

## Enumerate

1. DNR - Alaska State Department of Natural Resources

   - HI - Historical Index, not maintained since 1982
   - LE - Land Estate, maintained by SGU
   - ME - Mineral Estate, maintaind by SGU

2. Alaska State Surveys

   - ASBLT - As-Built Survey
   - ASCS - Cadastral Survey

## Comments

> `COMMENTS` Comment — *Sean Weems, Spring 2003*
> We should get the `COMMENTS` column searchable via the landrecords application before we do much anything else – shouldn't be too hard.

> *Errata: Plats spanning multiple sections*
> A few anomalies can be observed in the `AKPLATS` table. Specifically plats exist that span multiple sections. Since the table only has a single column, `SCODE`, that accepts a single section code, SGU (Status Graphics Unit) has handled this problem by entering multiple rows in the table, each with a different section that point to the same plat or file. Multiple section plats are indicated by setting the `TCODE` column to the value 37, and making an appropriate notation like *Section 24-25-26-27* in the `REMARKS` column.
> [FIXME: Perhaps the `SCODE` column should accept an array of sections?]

# Questions

- Break table column over two rows?

## Endnotes

# Appendix

## Scripts

The following script will loop over the specified awstats log files to load the monthly usage statistics.

## Hyperlinks

AWStats official web site
Free real-time logfile analyzer to get advanced statistics (GNU GPL).
[https://awstats.sourceforge.io/](https://awstats.sourceforge.io/)

Frequently Asked Questions + Troubleshooting
AWStats logfile analyzer 7.7 Documentation
[https://awstats.sourceforge.io/docs/awstats_faq.html](https://awstats.sourceforge.io/docs/awstats_faq.html)