Goaccess

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Goaccess can monitor a web server's log file in real time. Either by providing output to the console or by creating a static or real-time HTML report.

1 Features

- MIT license
- Fast, real-time, millisecond/second updates
- written in C
- Only ncurses as a dependency
- Many web log formats (Apache, Nginx, Amazon S3, Elastic Load Balancing, Cloud-Front, Caddy, for the latest version. A bit less for Debian Buster)
- Beautiful terminal

2 Installation

```
aptitude install goaccess
```

3 Command Line Usage

The manual page gives a lot of command line options. A simple way to use it is the command line mode that just uses the log file as a parameter.

Preferable this should be run inside screen or similar to maintain running, even if the ssh connection drops. A restart is not a problem.

This will output something like this:

```
Dashboard - Overall Analyzed Requests (22/May/2021 - 2[Active Panel: Visitors]

Total Requests 1276 Unique Visitors 283 Unique Files 293 Referrers 0

Valid Requests 1274 Init. Proc. Time 1s Static Files 20 Log Size 444.80 Ki
```

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```
5 B Failed Requests 2 Excl. IP Hits 0 Unique 404 244 Bandwidth 3.35
     MiB
   Log Source access.log
6
7
   > 1 - Unique visitors per day - Including spiders
                                                     Total:
     1/1
9
   Hits
          h% Vis.
                   v% Bandwidth Data
   ---- ------ ---- -----
12
   1274 100.00% 283 100.00% 3.35 MiB 22/May/2021
```

It is possible to scroll down to see other sections.

```
2 - Requested Files (URLs)
                                                      Total.
      293/293
2
3
   Hits h% Vis. v% Bandwidth Mtd Proto Data
   63 11.39% 43 8.63% 139.10 KiB GET HTTP/1.1 /
5
       10.49% 57 11.45% 286.99 KiB GET HTTP/1.1 /testarchiv.example.com/
6
7
   41
        7.41% 31 6.22% 198.07 KiB GET HTTP/1.1 /testarchiv.example.com/
    News
8
   37 6.69% 37 7.43% 458.63 KiB GET HTTP/1.0 /testarchiv.example.com/
   12 2.17% 12 2.41% 660.88 KiB GET HTTP/1.0 /testarchiv.example.com/
9
      Test
       1.45% 7 1.41% 34.16 KiB GET HTTP/1.1 /testarchiv.example.com/
10 8
      Moin
11
       1.27% 7 1.41% 97.73 KiB GET HTTP/1.0 /testarchiv.example.com/
     News
12
13
    3 - Static Requests
                                                        Total:
     20/20
14
15
         h% Vis. v% Bandwidth Mtd Proto
   Hits
   17
   5
       20.00% 3 13.04% 925.0 B GET HTTP/1.1 /robots.txt
       8.00% 2 8.70% 13.22 KiB GET HTTP/1.1 /Xargs-Request-2.1.3.8.tar
18
   2
      .gz
19
        4.00% 1 4.35% 10.55 KiB GET HTTP/1.1 /Module-Build-Xargs-5.2.9.
      tar
20 1
        4.00% 1 4.35% 185.0 B GET HTTP/1.1 /markdown-style.css
              1 4.35% 10.69 KiB GET HTTP/1.1 /Module-Build-Xargs-7.3.2.
21 1
        4.00%
      tar
        4.00%
              1 4.35% 2.07 KiB GET HTTP/1.1 /abc/style.css
22
  1
23 1
        4.00%
              1 4.35% 6.76 KiB GET HTTP/1.1 /Xargs-Soft-Simple
      -2.1.3.8.tar
```

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4 Static HTML Report Usage

Crate a static HTML report in a dedicated directory TEST:

```
1 cd
2 mkdir TEST
3 cd TEST
4 goaccess /var/log/nginx/access.log -o report.html --log-format=COMBINED
```

This will generate the file report.hml. View this with you browser or create this in a directory served by the web server.

For Debian 10 Buster this will be created with missing missing Unicode characters under Firefox. Other browsers display them.

5 Real Time HTML Report Usage

This is just a short test and has some flaws that need to be addressed.

```
1 goaccess /var/log/nginx/access.log -o /web/server/root/report.html \
2 --log-format=COMBINED --real-time-html
```

The above command will generate a page under the web server root as well opens a socked for the update. A short test under Debian 10 Buster reveals some problems. The main problem is that the page is not displayed with Firefox or Chromium. Chromium complained about insecure scripts. After waving, the page was displayed. However as permanent solution this would not be acceptable. Firefox received the page with code 200 but failed to load the favicon.ico and three fontawesome web fonts.

6 Links

· home page

7 History

Version	Date	Notes
0.1.1	2022-06-28	Grammar, formatting, minor improvements, shell->bash
0.1.0	2021-05-22	Initial release

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8 Disclaimer of Warranty

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