

Freeradius Graph Generator

Manual

Table of Content

- 1 Presentation
- 2 Features
- 3 Requirements
- 4 Installation
- 5 Using Netexpertise Graph Generator
- 6 Questions, Customization

1 – Presentation

Netexpertise Graph Generator gives ability to any user authenticating through the Radius protocol (and more specifically Freeradius software <http://www.freeradius.org>) to check his daily traffic and more, via a user-friendly web interface.

In the same way, the service provider can check any of his users' usage, and take eventual actions, such as putting the customer in restriction, or suspending temporarily his service.

2 – Features

The script aims to check users' traffic, but offers additional features:

- Daily and monthly traffic usage displayed in histograms
- Daily and monthly number of connections/disconnections
- Customer's IP auto-detection (works for static and dynamic IPs)
- Customizable header and footer to match your site
- Admin section to monitor any customer
- Interactivity through a form
- Possibility to specify start and end dates
- Pick up (stop and start) dates from a calendar
- Customizable calendar with CCS file
- Customizable graph colors to match your site
- Easy installation

3 – Requirements

To use the graph generator, you just need the following elements set up:

- Freeradius to authenticate users
- Mysql or Postgresql storage to store Freeradius accounting
- Apache web server
- Perl on your web server

4 – Installation

Download the tarball file from <http://www.netexpertise.eu/en/FreeRadius/graph.html>.

Upload it to your web server and uncompress it:

```
tar xvfz Radius-2.x.x.tar.gz
```

Move the directory Radius-2.x.x/Radius to the web server root (/usr/local/apache/htdocs or /etc/httpd)

```
mv Radius-2.x.x/Radius /usr/local/apache/htdocs/
```

Move the main directory to your cgi-bin folder:

```
mv Radius-2.x.x /usr/local/apache/cgi-bin
```

Install Perl modules (If not installed yet):

```
prompt>perl -MCPAN -e shell
```

```
install GD::Graph::bars
```

```
install HTTP::Date
```

```
install DBD::mysql (only for Mysql use)
```

```
install DBD::Pg (only for Postgresql use)
```

Update the configuration file conf.pl located in Radius-2.x.x/ with appropriate values.

Read descriptions for more information on each value.

You're done!

Notes:

It is recommended to secure access to the admin directory.

Place a .htaccess in Radius-2.x.x/admin/ to restrict access.

It is recommended to create indexes on the Radius database fields containing the username, the start and stop time, to speed up the queries (and the graph generation).

5 – Using Netexpertise Graph Generator

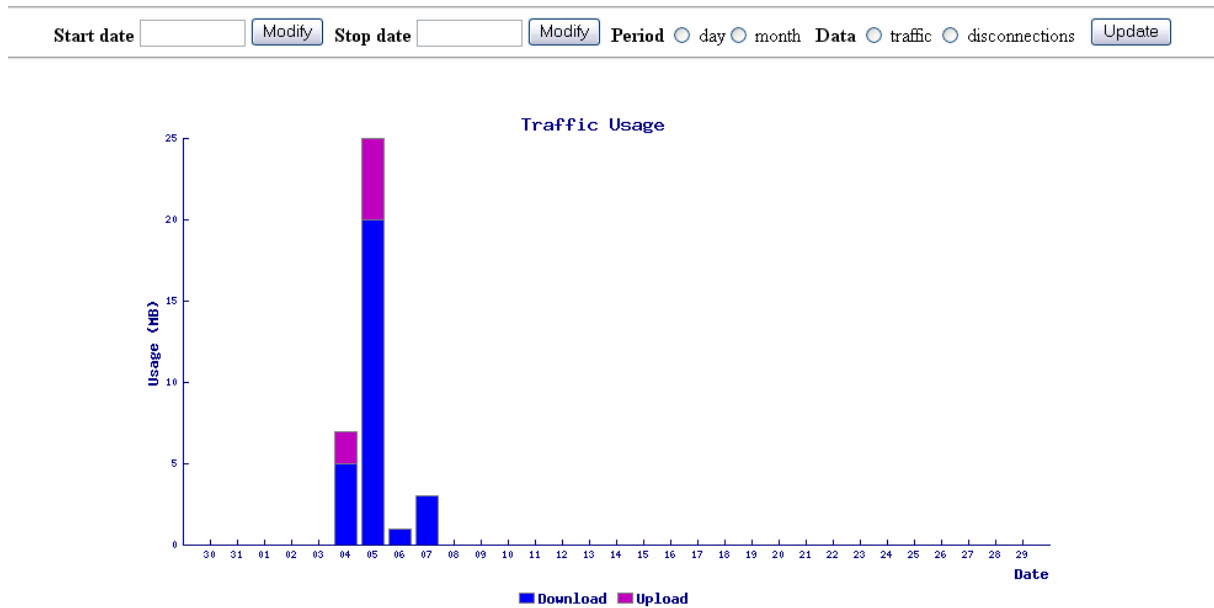
Administrators can check any user's traffic usage from

<http://www.yourdomain.com/cgi-bin/Radius-2.x.x/admin/mytraffic.cgi>

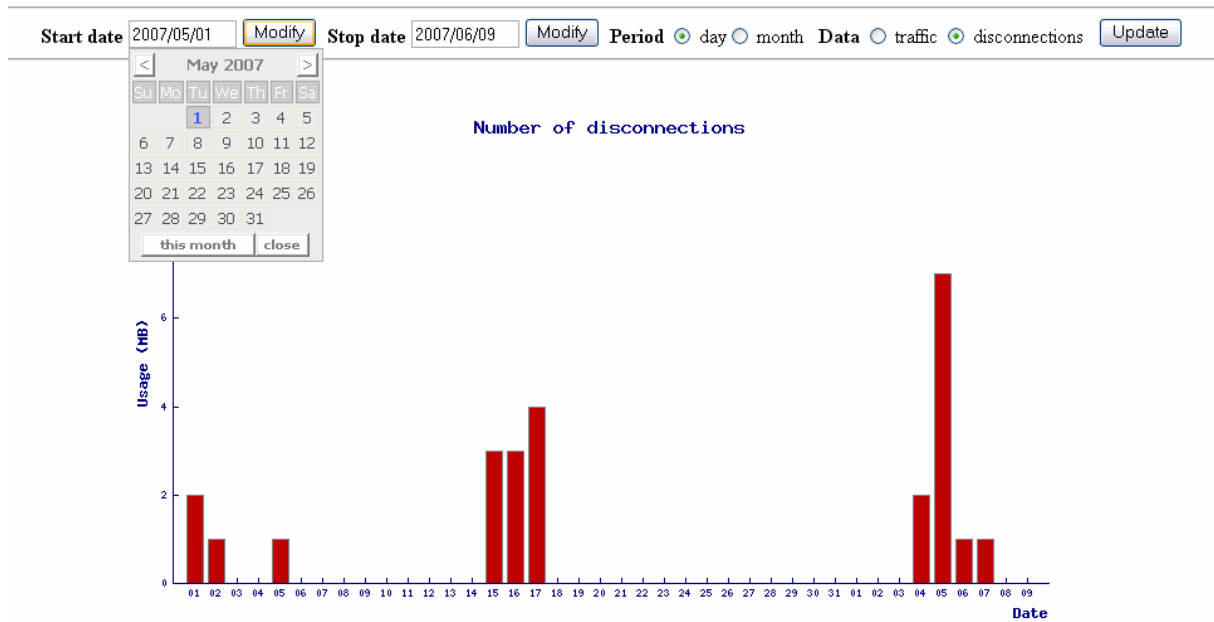
Users can check their traffic usage from

<http://www.yourdomain.com/cgi-bin/Radius-2.x.x/mytraffic.cgi>

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Values such as start and stop dates, period type or data type (traffic or # of disconnections) can be changed dynamically through the web form.



6 – Questions, Customization

If you have any questions about the script, the installation or some suggestions, contact Netexpertise at contact@netexpertise.eu.

In the same way, don't hesitate to contact us if you wish we customize the script or add some new features.

Thanks for using this software.