LAN-Watch Documentation

Release 1.0

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`./images/Screenshot_2014-12-25-22-14-20.png`

This screenshot shows the original version which was tied to another project (autoteach). This project (lanwatch) is re-implementing the same tool independent of other projects.

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Overview

LAN-Watch was designed for parents to see where their kids are connecting and to monitor bandwidth. LAN-Watch is a Web Application. You use it by pointing your browser at the lanwatch webpage after installation.

LAN-Watch comes in the form of a Django app. You need to have a server running Django before installing LAN-Watch.

Daemon Configuration

LAN-Watch uses 6 daemons that run as background processes on your server machine. The lanwatch webapp requests an update from the server every 5 seconds. These are AJAX requests so the page does not reload. The requests are received by lanwatch.views.home, which pulls the latest from each of the 5 daemons and returns the lot as a JSON structure.

The 6 daemons are:

- tcp_daemon maintains association between users and tcp/ip counts

- messages_daemon monitors system messages via /var/log/messages

- django_listener_daemon monitors django logfile /tmp/lanwatch.log

- network_traffic_daemon reads from /proc/net and handles running sums

- credit_meter_daemon manages timers, accounts and firewall

- acess_log_daemon monitors http requests to the web server (apache)

The configuration variables are all in: ../lanwatch/daemons/service_utils.py

Installation

- unpack lanwatch as an app under your django site
- add standard lanwatch to installed apps in settins.py
- add lanwatch/templates to template dirs in settings.py
- edit your site's urls.py with /lanwatch -> lanwatch.views.home
- restart apache
- navigate to http://your.site.com/lanwatch