NuFW firewall :
Now User Filtering Works

Identity access management at the network filter level

Security policies

- Are always defined depending on user identity.
- Example :

Network administrators are allowed to connect to routers, in SSH.

Network Filters

- Have no concept of user.
- Have no link to the user directory (LDAP, Active Directory...).

Firewalls provide per IP or per MAC address filtering

« Conventional » firewalls do not apply security policies.

As a result ...

- A user changing their computer MAC or IP address can benefit rights from other users.
- Network firewalls also miserabily fail to filter trafic from multiuser machines (ie, ALL machines nowadays)
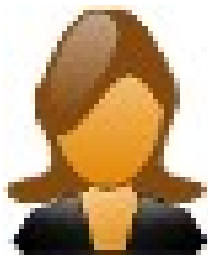
NuFW

- Lays on top on Netfilter (with the NFQUEUE target, which passes datagram decisions to userland)
- Is linked to the user directory (with PAM)
- Requires an agent running on user's computer
- That software agent authenticates each connection separately
- Is Free Software - http://nufw.org/

NuFW

- Overhead, only for connection opening datagrams
- Other datagrams are handled by Netfilter's conntrack
- Allows to do fine stuff, like per-user QoS, or per-user routing, thanks to the Linux kernel features.

Questions ?