

# red.es Gpg aliases



### http://www.rediris.es/app/pgplist

- ☐ Small script to setup GPG Mailing from /etc/aliases
  - · Sender verification is done from the PGP key instead of the mail address, posting is could be only done from members
  - Incoming mail must be encrypted & signed to the mailing list address
  - Outgoing mail is encrypted in separate mails to each of the list members
- ☐ All the configuration is handled from a separate file so, it's guite easy to have separate mailing list in the same server
- Current uses:
  - ➤ Password and sensible information distribution
- ☐ Future work: Integrate with crypto-card to store private key



# redes Firmaweb / Web signing



₹IRIS

### http://www.redris.es/pgp/firmaweb

- ☐ Why sign a web page?
- □ Allow to publish information that could be checked against modification after browsing
- □ User can download the pages and check if the text, (HTML) has not been modified. Wget -O - http://www.rediris.es/cert | gpg
- ☐ The idea was to build a page, and use the remarks feature of HTML to store the signature.
- ☐ Most of IRIS-CERT, http://www.rediris.es/cert are PGP signed, you can browse the code to see how it was done
- Currently integrated in our web publishing system
- ☐ Future Work: Automatic verification (FireFox plugin ?)



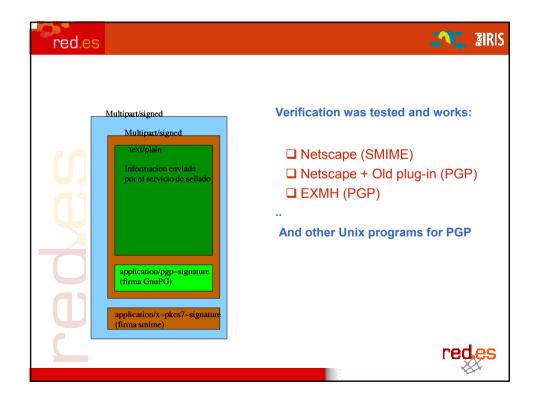
# red.es Using SMIME & GnuPG



Problem: How to employ S/MIME and PGP signed messages at the same time.

- □ Needed for a document registering system , mail notary placed at RedIRIS , <a href="http://www.rediris.es/app/sellado">http://www.rediris.es/app/sellado</a>
- □ Solution, Use Multipart/MIME messages, with both kind of signatures:
  - SMIME enabled clients would process the signature and show it
  - PGP/MIME messages are processed only in PGP enabled clients
  - You can use old common PGP plain signed messages instead of PGP/MIME





# redes Recollecting Malware



### New generation honepots ?:

- □ http://www.mwcollect.org (Unix/ cygwin)
- Multipot, http://labs.idefense.com (Windows)

### Simulate vulnerabilities in common windows services (445, etc)

Simulate a common exploit

Got the shellcode and compare with a database of them

Parse the information and download the binary

### Very good to obtain bots and worms trying to attack your network

Problem: recollect attacks directed only to the IP address of the sensor



# red.es Work in progress



- •We have most of the NetBIOS traffic blocked at the backbone, so no worm is attacking the collector
- Why not redirect all the traffic (AS766) to this collector?

This could be useful to know the different bots and also detect new shellcodes and exploits

### Now::

Redirecting traffic from one of connections (Spanish Exchange Traffic) to our office network only (3 C classes)

### Result

- More than 1000 worms /bots downloaded every day
- Most of the files are the same MD5 checksum



# Evolution Redirect the traffic: From all our external links To all the IP adresses in AS766 network (~ 20 different B class) Set up a automatic (new binaries) notification coordination with binaries analyzing project