

# *eComStation in a Linux network*

drs. D.J. van Enckevort  
Mensys BV  
david@mensys.nl



# *Table of Contents*

- General overview
- File & disk sharing
  - LAN Server / Samba
  - NFS
- Printing
  - LPD
  - CUPS



# *Overview – Different security models*

## eComStation

- ACL based
- no built-in local security
- single user

## Linux

- user/group based
- built in local security
- multiuser



# Overview – Supported protocols

## eComStation

- TCP/IP
- NetBEUI
- NetBIOS over TCP/IP
- IPX

## Linux

- TCP/IP
- NetBIOS over TCP/IP
- IPX



# *File & Disk sharing*

## NetBIOS file sharing

- very stable
- usable to connect to Windows and MacOS X as well

## NFS

- NFS server in OS/2 works very well to share files with Linux
- usable to connect to UNIX like systems, incl. MacOS X



# *File & Disk Sharing - Problems*

## NetBIOS File Sharing

- no NetBEUI support in Samba
- no EAs support in Samba
- rights setup might be awkward to get right

## NFS

- stability issues with OS/2 NFS client connecting to Linux servers (TRAPs)
- Officially only licensed with Warp 3 Connect or Warp Server 4+

# *File & Disk Sharing – Problems (cont'd)*

## Samba

- LAN server logon assignments are not recognized by Samba clients

## NFS

- NFS implementations are very different leading to unexpected problems
  - 2 GB file limit
  - Security checked on client!!!
- 
-

# *Configuration Samba server*

1. Install Packages (included with all Linux distributions – make sure the swat package is installed)
2. Configure using swat using web-browser
  1. Setup server name
  2. Create users
  3. Create shares





# *Configure NFS server - Linux*

## Linux

- Edit `/etc/exports` to create shares
- Edit `/etc/hosts.allow` & `/etc/hosts.deny`
- Edit `/etc/fstab` to create mount points



# *Configure NFS server - eComStation*

- Use `tcpcfg2`:
  - Make sure the `nfs` server and the `portmapper` are started
  - Create shares
  - Setup `readonly` and `read / write` hosts



# Printing - LPD

## Pro's:

- Several implementations on OS/2, SLPR & Serge Sterck's, cmdline, LexMark, HP
- Both client (lpr) & server (lpd) available

## Cons:

- Queue setup might be difficult
- 64MB print-job limitation for most implementations.
- Relatively slow



# Printing - CUPS

## Pro's:

- supports many input formats (PS, metafile, JPEG, etc.)
- IPP widely supported (Linux, MacOS X, Windows, Netware)
- very user friendly setup through browser

## Cons:

- no native IPP for OS/2, use LPD emulation

# *CUPS - installation*

- Usually installed by default by Linux distributions
  - Configure using the Web interface
  - Be aware that printers instances & devices are not the same thing!
    - Devices – the physical printers with their connection method
    - Instance – the job control mechanism with filters & settings
- 
-