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File And Print Sharing With SAMBA

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Filesharing With SAMBA

⌘ <http://samba.anu.edu.au/>

⌘ file and print services to Windows boxes

⌘ implements Windows' Server Message Block (SMB) protocol

⌘ *better than Windows 2000, by several reports!*

⌘ also WINS server and Domain controller

⌘ *'Here is a very short list of what samba includes, and what it does. For many networks this can be simply summarised by "Samba provides a complete replacement for Windows NT, Warp, NFS or Netware servers."...'*

⌘ also aiming to provide support for Common Internet FileSystem (CIFS) services in the future

⌘ relatively simple configuration

⌘ simple, but fiddly

⌘ *LOTS of options and situations to think about*

⌘ only need to specifically deal with /etc/smb.conf

⌘ *maybe also /etc/smbpasswd*

⌘ can get lots of useful debugging information

⌘ samba also supplies some very helpful debugging tools

/etc/smb.conf

⌘ defines the printers and shares available

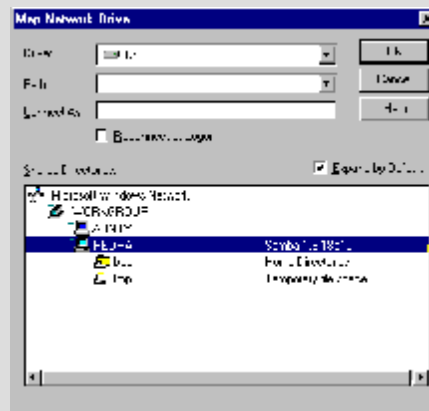
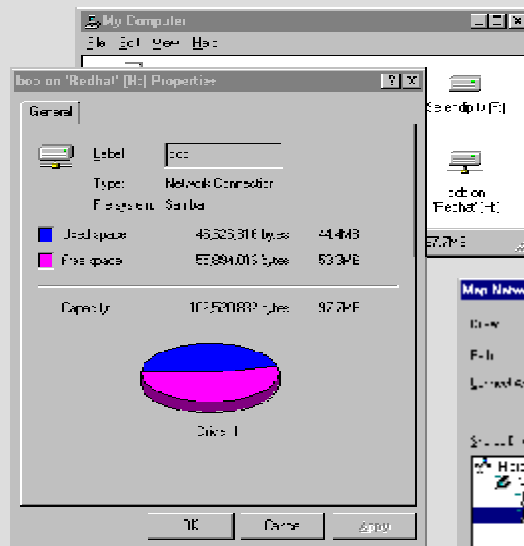
⌘ also defines various properties

☑ security

☑ file locking characteristics

☑ logging

☑ etc.



```
[global]
;
; name resolve order = host bcast
; dns proxy = no
; hosts allow = redhat aunty
; encrypt passwords = yes
;
; security = user
;
; printing = bsd
; printcap name = /etc/printcap
; load printers = yes
; guest account = pcguest
;
; log file = /usr/local/samba/log.%m
;
; lock directory = /var/lock/samba
; share modes = yes
```

```
[homes]
comment = Home Directories
path = /home/%u
browseable = no
read only = no
create mode = 0750
user = %S
only user = true
```

```
[tmp]
comment = Temporary file space
path = /tmp
guest ok = Yes
```

```
[printers]
comment = All Printers
browseable = no
printable = yes
public = no
writable = no
create mode = 0700
```

Tools

⌘ the three most useful from the group:

☒ testparm

☒ *tests the syntax of the configuration file*

☒ smbclient

☒ *tests the server's responses*

☒ nmblookup

☒ *tests the WINS server*

```
# smbclient '\\redhat\tmp'
Added interface ip=1.0.0.2 bcast=1.255.255.255 nmask=255.0.0.0
Server time is Sun Dec 20 09:51:54 1998
Timezone is UTC+10.0
Password:
Domain=[SKEWST] OS=[Unix] Server=[Samba 1.9.18p10]
security=user
smb: \> ls
lost+found                D                0    Sun Sep 27 08:06:16 1998
upgrade.log               4469   Sat Dec  5 07:39:11 1998
linuxconf-rpminstall.log  130    Sat Dec  5 07:28:03 1998
fvwmrca04924             57427  Wed Dec 16 16:21:58 1998
.X11-unix                 DH        0    Wed Dec 16 16:21:26 1998
bin                       D          0    Sun Oct 18 14:05:44 1998
lpq.000b208e              31     Sun Dec 20 09:42:10 1998
tkssysv-backup            D          0    Sun Dec  6 09:01:07 1998
lpq.00002b98              11     Sun Dec 20 09:42:23 1998
x                          319    Sat Dec 12 17:14:36 1998

19825 blocks of size 1024. 18708 blocks available
smb: \>
```

```
# nmblookup redhat SAMBA
Sending queries to 1.255.255.255
1.0.0.2 redhat<00>
1.0.0.2 SAMBA <00>
# nmblookup -B aunty '*'
Sending queries to 1.0.0.1
1.0.0.1 *<00>
```

```
# testparm /etc/smb.conf
Load smb config files from /etc/smb.conf
Processing section "[homes]"
Processing section "[printers]"
WARNING: [printers] service MUST be printable!
No path in service printers - using /tmp
Processing section "[tmp]"
Loaded services file OK.
Press enter to see a dump of your service definitions
```

```
# Global parameters
    debuglevel = 2
    syslog = 1
    syslog only = No
    protocol = NT1
    security = USER
    max disk size = 0
    lpq cache time = 10
    announce as = NT
    encrypt passwords = Yes
    update encrypted = No
    getwd cache = Yes
    read prediction = No
    read bmpx = Yes
    read raw = Yes
    write raw = Yes
```

[snip...]

[lp]

```
path = /tmp
read only = No
create mask = 0700
print ok = Yes
share modes = No
oplocks = No
printer = lp
```

[IPC\$]

```
comment = IPC Service (Samba 1.9.18p10)
path = /tmp
status = No
guest ok = Yes
```

SAMBA's Future

⌘ VERY bright!

⌘ getting ready for SAMBA v2.0

⌘ in beta 5 at time of writing...

⌘ Samba Web Administration Tool

⌘ <http://anu.samba.org/cgi-bin/swat/>

