

Samba – Opening Windows(tm) to a Wider World

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Samba In a Sentence

- An open-source, GPL'd software suite which provides Microsoft-compatible SMB/CIFS file sharing, print sharing, domain control, and network neighborhood browsing on Linux and other *nix operating systems.

Samba In a Word...

Kewl!

Samba Features We Care About

- File sharing from a Linux server to Windows 9x/2000/XP client via Windows Explorer or NET USE
- Network Neighborhood browse list
- Windows NT 4-style domain control, including login scripts and home directories
- File sharing Linux-to-Linux and Linux-to-Windows via smbmount

Samba – What Gets Installed?

- **SMBD:** Provides file/print sharing services.
- **NMBD:** NetBIOS name services.
- **Swat:** Samba Web Administration Tool
- **Smbmount:** Mount Windows shares on the Linux box.

Samba Sanity Checks

- Check config syntax: `testparm smb.conf`
- Ping everything
- Check `samba.log` and `log.nmbd`.
- `Nmblookup -B SERVER __SAMBA__`
and `-B CLIENT '*'` to lookup NetBIOS directly
- `Nmblookup -d 2 '*'` to broadcast a query
- `Smbclient -L SERVER` to view share list
- `Smbclient //SERVER/share -Uuser` to share

Client Setup : Windows 9x

- TCP/IP -> NetBIOS should be checked.
- Client for Microsoft Networking: set properties for NT Domain name.
- File Sharing for Microsoft Networks, with Browse Master as Automatic or Off
- Networking/Identification tab, set Workgroup and computer name.
- Primary Network Logon = Client for MS Network
- Reboot... of course.

Client Setup : Windows 2000

- Install Client for Microsoft Networks
- Install File and Printer Sharing for Microsoft Networks
- Set Properties of TCP/IP: Advanced/Wins to Use NetBIOS and Enable LMHOSTS.
- And... Reboot!

Samba As PDC

- ▣ The Penguin Doesn't Just Dance, but *Lead!*
- Swat Wizard : One-click smb.conf setup... sorta!

```
[global]
  admin users = root
  domain logons = yes
  domain master = yes
  logon drive = H:
  logon home = \\BIGSERVER\%u
  os level = 99
  preferred master = yes
  security = user
  wins support = yes
```

Samba As PDC

- [homes] Section

```
[homes]
```

```
create mode = 0600
```

```
directory mode = 0700
```

```
path = %H
```

```
read only = no
```

```
valid users = %S
```

Samba As PDC

- [netlogon] Section

```
[netlogon]
```

```
path = /home/netlogon
```

Windows 2000/XP Pro Machine Accounts

- The PDC must have a machine account for each Windows 2000/XP Pro computer.
- Automatic script:
add user script = /usr/sbin/useradd -d
/dev/null -g 100 -s /bin/false -M %u

Windows 2000/XP Pro Machine Accounts

- Manually:
Create computername\$ user with no shell, no home directory

Lock the account: `passwd -l computername$`

Make a Samba smbpasswd entry:
`smbpasswd -a -m computername`

Windows 2000/XP Pro Machine Accounts

- Control Panel -> System -> Network Identification
- During setup, requires a Samba root ID if you created machine accounts manually, or root ID if you are creating machine accounts automatically.
- ... and Reboot!

Samba Miscellany

- Home directories
- Logon Scripts
- Shared Inboxes : `chmod 733` is your friend?
- Firewalling/Security issues: Nimda!



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