

# Configuring Shared Folders in Samba

LPIC-2: Linux Engineer (202-450)

## Objectives:

At the end of this episode, I will be able to:

1. Describe the types of shared resources available in Samba.
2. Configure shared folders, printers, and home directories.

Additional resources used during the episode can be obtained using the download link on the overview episode.

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- Configuring Shared Folders in Samba
    - Types of Samba Shares
    - Sharing Home Directories
    - Sharing Printers
    - Sharing Data Folders
  - Types of Samba Shares
    - Folders
    - Printers
    - Host Lists (Master Browser)
  - Sharing Home Directories
    - Samba can provide access to user home directories
    - Each user has access to their own private folder
    - Integrates well with local Linux user accounts
    - `sudoedit /etc/samba/smb.conf`
    - `[homes]`
      - `browseable = no`
        - Home directories are hidden by default
      - `read only = no`
        - Users are allowed to write to their own folder
      - `valid users = %S`
        - `%S` allows all users
        - `<domain>%S` restricts the domain name
        - `smbclient -U dpezet //localhost/dpezet`
  - Sharing Printers
    - `[printers]`
      - `path = /var/spool/samba`
        - Defines spool folder
      - `browseable = no`
        - Printers are hidden by default
      - `guest ok = no`
        - Disables anonymous access
      - `writable = no`
        - Disables ability to print
        - Useful for maintenance
      - `printable = yes`
        - Enables sharing all CUPS printers in Samba

- Sharing Data Folders

1. Create a folder to share

- `mkdir /srv/samba/corp`

2. Create a group to allow access

- `groupadd corp`

3. Create users and add to the group

- `useradd dpezet`
- `usermod -a -G corp dpezet`
- `smbpasswd -a dpezet`

4. Assign permissions to the folder

- `chmod 770 /srv/samba/corp`
- `chown dpezet:corp /srv/samba/corp`

5. Add the folder to Samba's config file

- `sudoedit /etc/samba/smb.conf`
  - `[corp]`
  - `comment = Corporate Documents (Optional)`
  - `path = /srv/samba/corp`
  - `read only = no`
  - `browseable = yes (Default)`
  - `valid users = dpezet, +corp`

6. Restart Samba

- `systemctl restart smbd.service`

- Testing Samba Shares

- Test Status

- `sudo apt install smbclient`
- `smbclient -L localhost`

- Starting/Stopping NetBIOS Name Server (nmbd)

- Allows host to act as a Master Browser
- Not needed if there are Windows servers on the network
- `systemctl <enable/start/status> nmbd.service`