

Configuring a Samba Client

LPIC-2: Linux Engineer (202-450)

Objectives:

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

1. Describe the methods of connecting a Linux workstation to an CIFS or SMB share on the network.
2. Use the CLI, GUI, and fstab file to connect to a shared folder.

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

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- Configuring a Samba Client
 - Mounting a Samba share from the CLI
 - Mounting a Samba share from the GUI
 - Mounting a Samba share at boot-time
 - Choosing a connection method
 - Mounting a Samba share from the CLI
 - Useful for temporary connections
 - Useful for scripting/automating connections
 - Useful for headless servers
 - Mounting a Samba share from the GUI
 - Useful for desktop clients
 - Easy to understand for end users
 - Mounting a Samba share at boot-time
 - Useful for frequently accessed shares
 - Useful for shared machines with multiple users
 - Mounting a Samba share from the CLI
 1. Install the required tools
 - `sudo apt install cifs-utils`
 2. Create a mount point
 - `mkdir /mnt/corp`
 3. Connect to the shared folder via SMB
 - `mount -t cifs -o user=dpezet,password=<password>,noperm //localhost/corp /mnt/corp`
 - Mounting a Samba share from the GUI
 1. Launch the Gnome file browser (Nautilus)
 2. Select Other-locations from the navigation tree
 3. Enter `smb://10.222.0.51/corp`
 4. Authenticate
 - Mounting a Samba share at boot
 1. Store credentials
 - `nano ~/.smbcredentials`
 - `user=dpezet`
 - `password=password123`
 2. Create your mount point
 - `sudo mkdir /mnt/corp`
 - `sudo chown dpezet:dpezet /mnt/corp`
 3. Get your User ID and Group ID

- id

4. Update the file system table

- sudoedit /etc/fstab
- //10.222.0.51/corp /mnt/corp cifs
credentials=/home/dpezet/.smbcredentials,uid=1001,gid=1001,noperm 0 0