1. SAMBA SHARE

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Experiment no. 1

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Aim: Installation and configuration of Samba share.

Description: SAMBA One of the most common ways to network Ubuntu and Windows computers is to configure Samba as a File Server. This section covers setting up a Samba server to share files with Windows clients. The server will be configured to share files with any client on the network without prompting for a password. If your environment requires stricter Access Controls see Share Access Control

Port No: 139

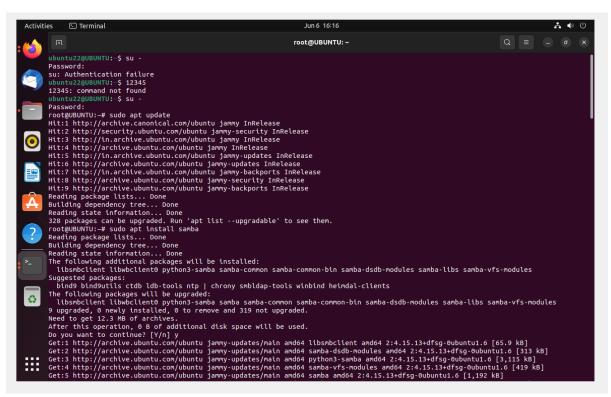
Package name: samba

Configuration file: /etc/samba/smb.conf.

Procedure: 1. To install Samba, we can run:

\$sudo apt update

\$sudo apt install samba



2. We can check if the installation was successful by running:

\$whereis samba

3. Now that Samba is installed, we need to create a directory for it to share:

\$mkdir /home/<username>/sambashare/

```
Done
Setting up samba (2:4.15.13+dfsg-0ubuntu1.6) ...
Samba is not being run as an AD Domain Controller: Masking samba-ad-dc.service
Please ignore the following error about deb-systemd-helper not finding those services.
(samba-ad-dc.service already masked)
Failed to prest untr: Untr file /etc/systemd/system/samba-ad-dc.service is masked.

/usr/bin/deb-systemd-helper: error: systemctl preset failed on samba-ad-dc.service: No such file or directory samba-ad-dc.service is masked.

/usr/bin/deb-systemd-helper: error: systemctl preset failed on samba-ad-dc.service: No such file or directory samba-ad-dc.service is masked.

/usr/bin/deb-systemd-helper: error: systemctl preset failed on samba-ad-dc.service: No such file or directory samba-ad-dc.service is masked.

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/usr/bin/deb-systemd-helper: error: systemctl preset failed on samba-ad-dc.service: No such file or directory samba-ad-dc.service: No such file or di
```

The command above creates a new folder samba share in our home directory which we will share later. The configuration file for Samba is located at /etc/samba/smb.conf. To add the new directory as a share, we edit the file by running:

\$sudo nano /etc/samba/smb.conf

At the bottom of the file, add the following lines:

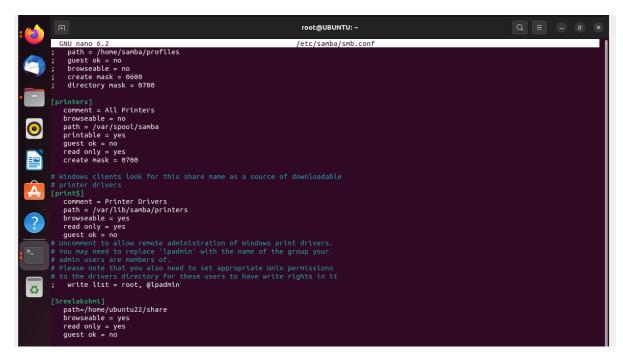
[sambashare]

comment = Samba on Ubuntu

path = /home/username/sambashare

read only = no

browsable = yes

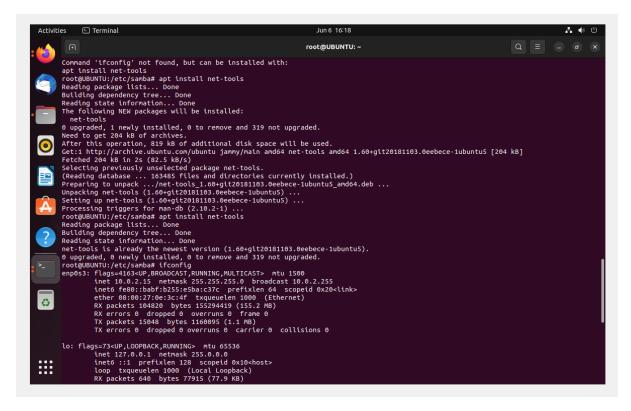


- 4. Then press Ctrl-O to save and Ctrl-X to exit from the nano text editor.
- 5. Now that we have our new share configured, save it and restart Samba for it to take effect:

Ssudo service smbd restart

6. Update the firewall rules to allow Samba traffic:

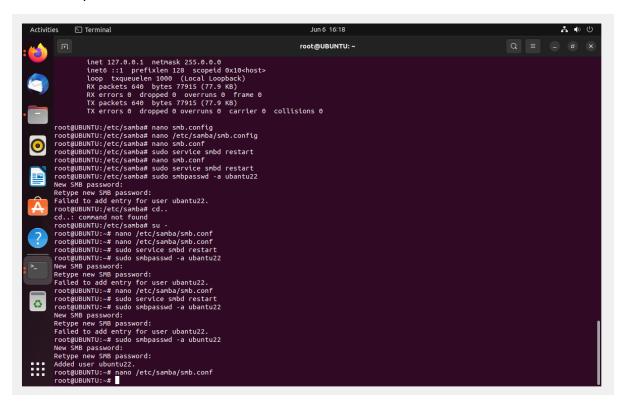
\$sudo ufw allow samba



SETTING UP USER ACCOUNTS AND CONNECTING TO SHARE

7. Since Samba doesn't use the system account password, we need to set up a Samba password for our user account:

\$sudo smbpasswd -a username

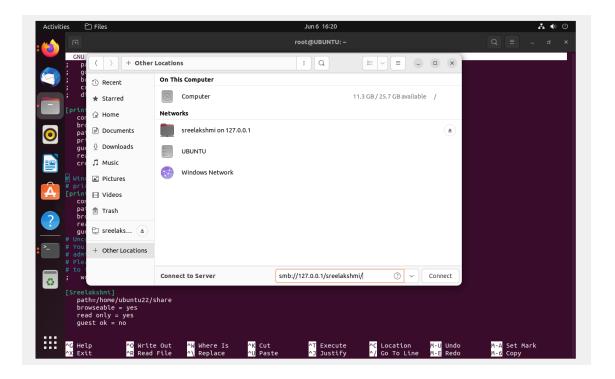


CONNECTING TO SHARE

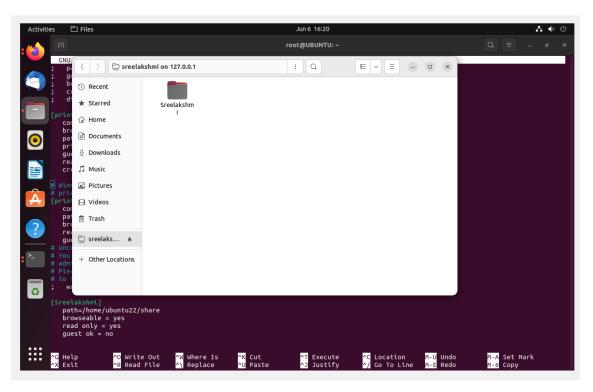
8. On Ubuntu: Open up the default file manager and click Connect to Server then enter: Connecting to samba via smb://127.0.0.1/sambashare

Note: ip-address is the Samba server IP address and sambashare is the name of the share. You'll be prompted for your credentials. Enter them to connect!

• Click "Connect."



The folder is now accessible via the network



Conclusion: The samba share server installed and configured successfully.