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

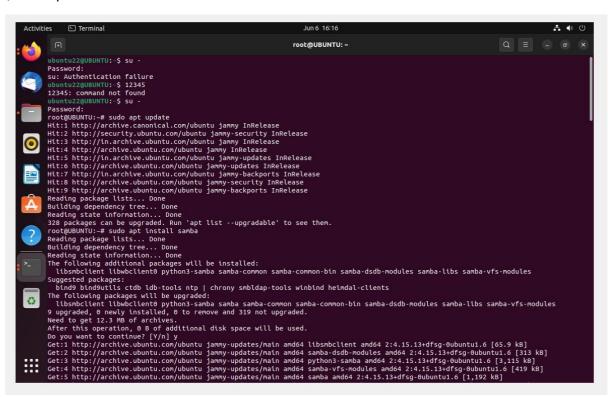
Package name: samba

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-Oubuntu1.6) ...
Samba is not being run as an AD Donath 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)

/usr/bin/deb-systemd-helper: error: systemcil preset failed on samba-ad-dc.service: No such file or directory samba-ad-dc.service is a disabled or a static unit not running, not starting it.

Processing triggers for ufw (0.36.1-4ubuntu0.1) ...
Processing triggers for onan-db (2.10.2-1) ...
Processing triggers for onan-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-Oubuntu3.1) ...
S874 pts/0 00:00:00 ps
FOR PID TTY TIME CND
S875 pts/0 00:00:00 ps
FOR PID TTY SUID 00:00:00 bs
FOR PID TTY SUID 00:00:
```

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:

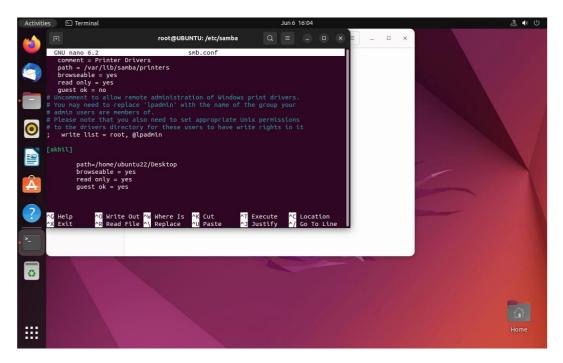
[sambashare]

comment = Samba on Ubuntu

path = /home/username/sambashare

read only = no

browsable = yes

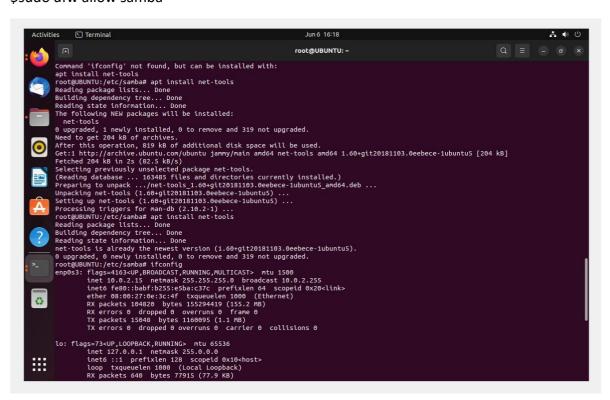


- 4. Then press Ctrl-O to save and Ctrl-X to exit from the nano text editor.
- 5. Now that we have our new share configured, save it and restart Samba for it to take effect:

\$sudo service smbd restart

6. Update the firewall rules to allow Samba traffic:

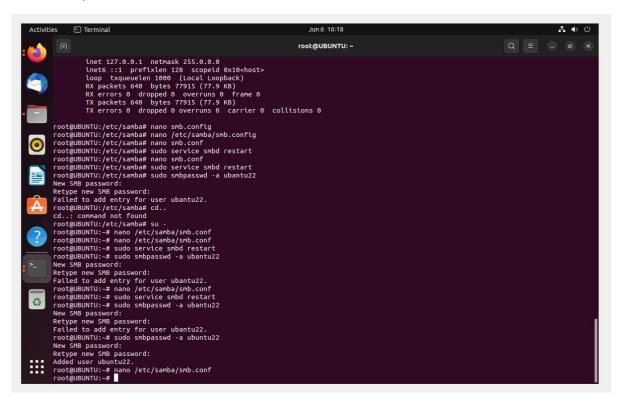
Ssudo ufw allow samba



SETTING UP USER ACCOUNTS AND CONNECTING TO SHARE

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

\$sudo smbpasswd -a username

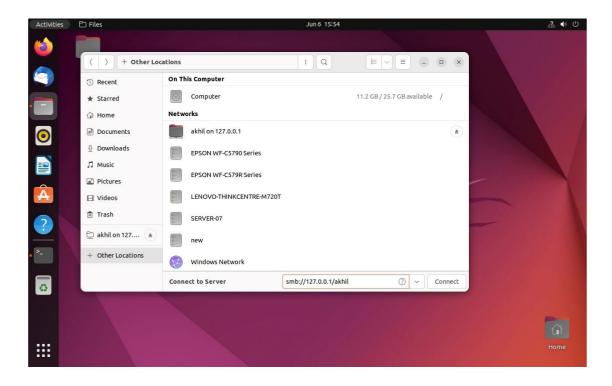


CONNECTING TO SHARE

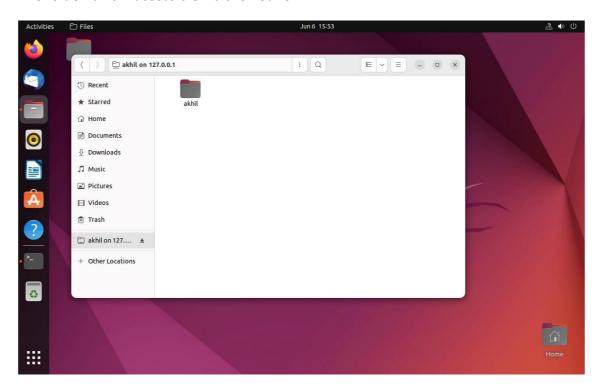
8. On Ubuntu: Open up the default file manager and click Connect to Server then enter: Connecting to samba via smb://127.0.0.1/sambashare

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.