Experiment 1: SAMBA SHARE

AIM:

Installation and configuration of Samba share.

DATE: 06-06-2024

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/

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:

\$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:

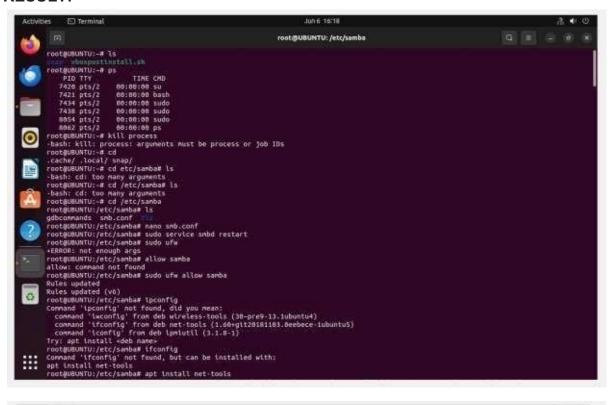
\$sudo smbpasswd -a username

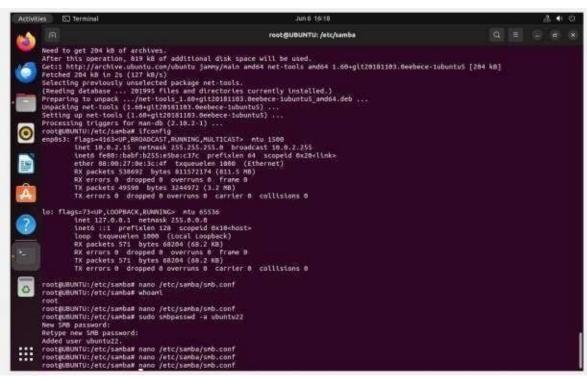
CONNECTING TO SHARE

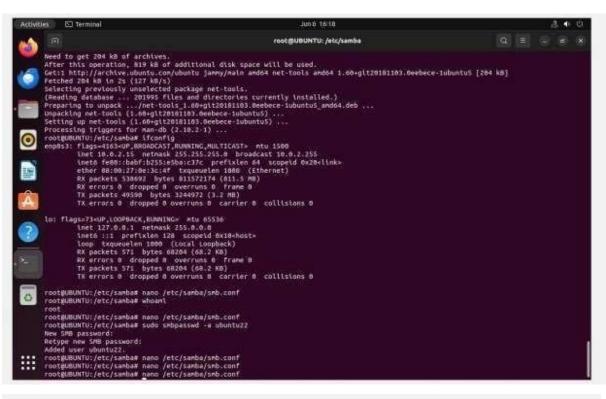
8. On Ubuntu: Open up the default file manager and click Connect to Server then enter: Connecting to samba via smb://127.0.0.1/sambashare

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!

RESULT:

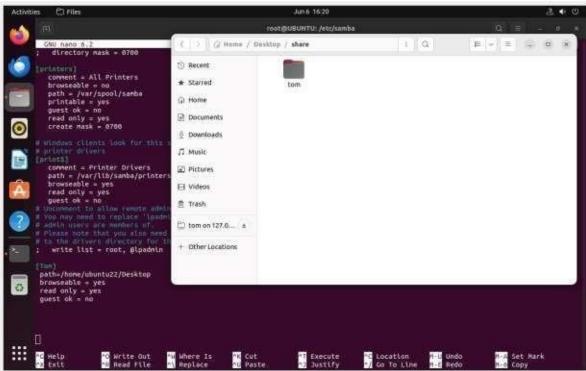


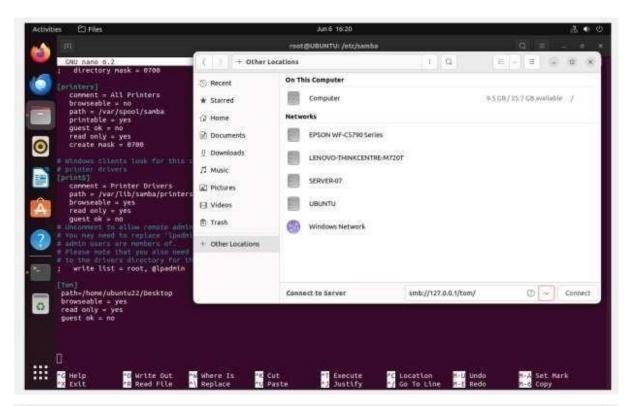


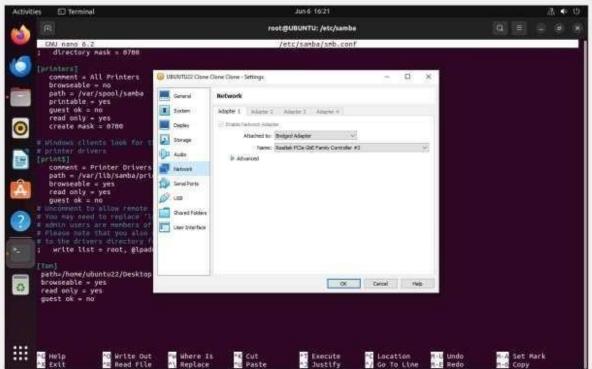












All the commands have been executed and the output has been obtained successfully.