

Lab experiment 1: SAMBA SHARE

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/&lt;username&gt;/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
```

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:

6.Update the firewall rules to allow Samba traffic:

SETTING UP USER ACCOUNTS AND CONNECTING TO SHARE

```
$sudo smbpasswd -a username
```

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!

```
kali@kali -
File Actions Edit View Help
zsh: corrupt history file /home/kali/.zsh_history
kali@kali:~$ 
kali@kali:~$ sudo apt install samba
[sudo] password for kali:
Samba is already the newest version (2:4.20.1+dfsg-5).
Samba set to manually installed.
The following packages were automatically installed and are no longer required:
libavfilter9 libgeos3.12.1t64 libjld8.7 libplacebo318 libpostproc57 libre2-10 libsvtavcodec1d libx265-199 openjdk-17-jre-headless python3-mistune0 python3-pytzdata rwho samba-dsds-modules
libadact1 libasomcp25 libndct6 libpnm1 libravie libroc0.3 libszf-udev openjdk-17-jre python3-diskcache python3-pendulum rwho samba-ad-provision
Use 'sudo apt autoremove' to remove them.

Summary:
Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 3
kali@kali:~$ 
kali@kali:~$ mkdir /home/kali/sambashare
kali@kali:~$ 
kali@kali:~$
```

```
File Actions Edit View Help
zsh: corrupt history file /home/kali/.zsh_history
kali@kali:~$ sudo apt install samba
[sudo] password for kali:
samba is already the newest version (2:4.20.1+dfsg-5).
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libavfilter1 libgnss3.12.1t64 libjxl0.7 libplacebo338 libpostproc57 libre2-10 libsvtav1enc1d1 libx265-199 openjdk-17-jre-headless python3-mistune0 python3-pytzdata rwhod samba-dsdb-modules
libxact11 libjsoncpp25 libndctl0 libpenn1 libraw10c libroc0.3 libu2f-udev openjdk-17-jre python3-diskcache python3-pendulum rwho samba-ad-provision
Use 'sudo apt autoremove' to remove them.
Summary:
Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 3
kali@kali:~$ mkdir /home/kali/smbashshare
kali@kali:~$ sudo nano /etc/samba/smb.conf
kali@kali:~$
```

```
File Actions Edit View Help
/etc/samba/smb.conf
# Global configuration
; comment = Network Logon Service
; path = /home/samba/netlogon
; guest ok = yes
; read only = yes

; Uncomment the following and create the profiles directory to store
; users profiles (see the "logon path" option above)
; (you need to configure Samba to act as a domain controller too.)
; The path below should be writable by all users so that their
; profile directory may be created the first time they log on
; (profiles)
; comment = Users profiles
; path = /home/samba/profiles
; guest ok = no
; browseable = no
; create mask = 0600
; directory mask = 0700

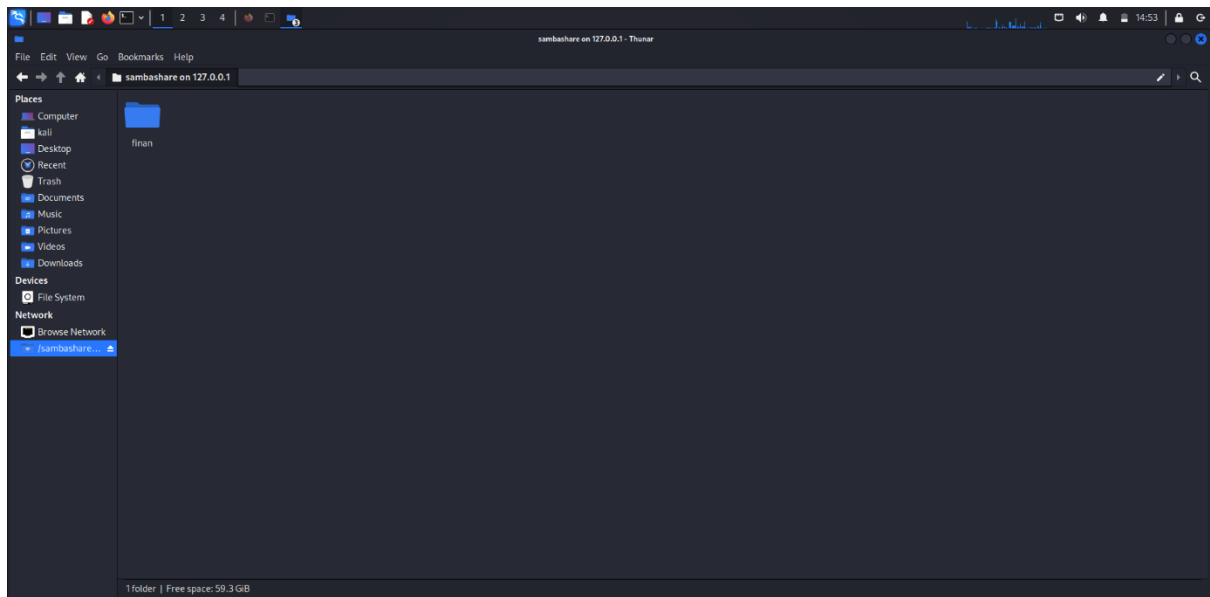
[printers]
comment = All Printers
browseable = no
path = /var/spool/samba
printable = yes
guest ok = no
read only = yes
create mask = 0700

; Windows clients look for this share name as a source of download
; printer drivers
[print$]
comment = Printer Drivers
path = /var/lib/samba/printers
browseable = yes
read only = yes
guest ok = no

; Uncomment to allow remote administration of Windows print drivers.
; You may need to replace 'lpadmin' with the name of the group your
; admin users are members of.
; Please note that you also need to set appropriate Unix permissions
; to the drivers directory for these users to have write rights in it
; write list = root, lpadmin

[smbashshare]
comment = Samba on Ubuntu
path = /home/kali/smbashshare
read only = no
browseable = yes
```

```
File Actions Edit View Help
zsh: corrupt history file /home/kali/.zsh_history
kali@kali:~$ sudo apt install samba
[sudo] password for kali:
samba is already the newest version (2:4.20.1+dfsg-5).
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Summary:
Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 3
kali@kali:~$ mkdir /home/kali/smbashshare
kali@kali:~$ sudo nano /etc/samba/smb.conf
kali@kali:~$ sudo nano /etc/samba/smb.conf
kali@kali:~$ sudo smbpasswd -s kali
New SMB password:
Retype new SMB password:
Added user kali.
kali@kali:~$
```

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