

SAMBA SHARE

Experiment: 1

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
```

```
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:

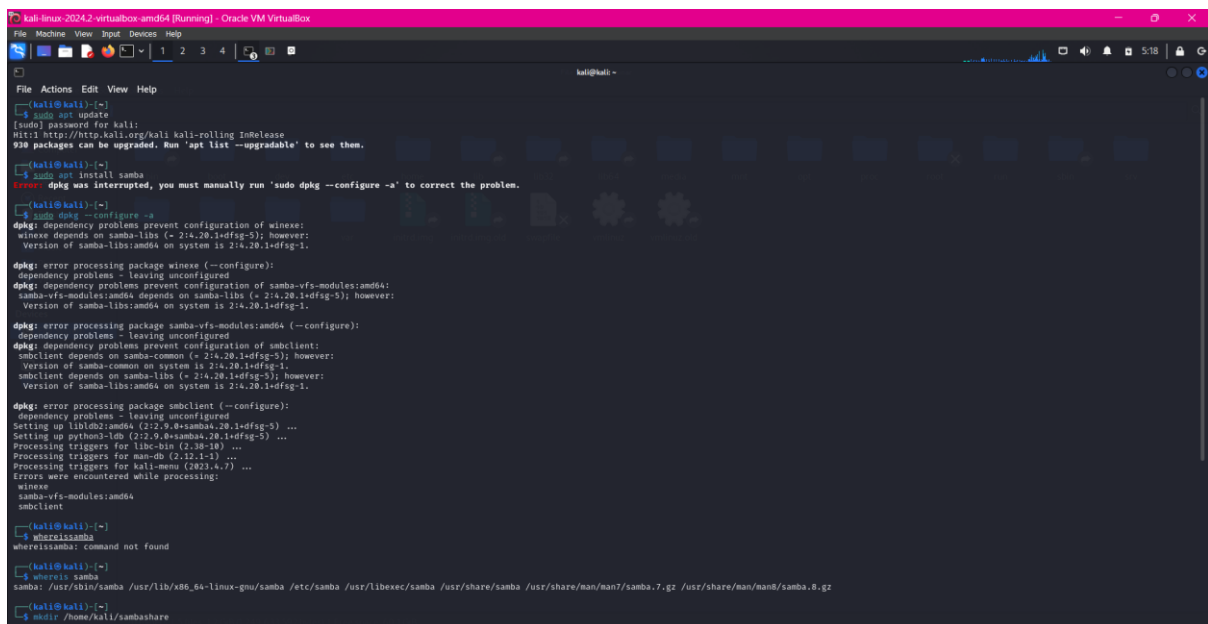
```
$sudo smbpasswd -a username
```

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:



```
kali@kali:~$ sudo apt update
Hit:1 http://kali.org/kali kali-rolling InRelease
930 packages can be upgraded. Run 'apt list --upgradable' to see them.

kali@kali:~$ sudo apt install samba
dpkg was interrupted, you must manually run 'sudo dpkg --configure -a' to correct the problem.

kali@kali:~$ sudo dpkg --configure -a
dpkg: dependency problems prevent configuration of winexe:
 winexe depends on samba-libs (= 2:4.20.1+dfsg-5); however:
  Version of samba-libs:amd64 on system is 2:4.20.1+dfsg-1.

dpkg: error processing package winexe (--configure):
 dependency problems - leaving unconfigured
dpkg: dependency problems prevent configuration of samba-vfs-modules:amd64:
 samba-vfs-modules:amd64 depends on samba-libs (= 2:4.20.1+dfsg-5); however:
  Version of samba-libs:amd64 on system is 2:4.20.1+dfsg-1.

dpkg: error processing package samba-vfs-modules:amd64 (--configure):
 dependency problems - leaving unconfigured
dpkg: dependency problems prevent configuration of smbclient:
 smbclient depends on samba-common (= 2:4.20.1+dfsg-5); however:
  Version of samba-common on system is 2:4.20.1+dfsg-1.
 smbclient depends on samba-libs (= 2:4.20.1+dfsg-5); however:
  Version of samba-libs:amd64 on system is 2:4.20.1+dfsg-1.

dpkg: error processing package smbclient (--configure):
 dependency problems - leaving unconfigured
Setting up libldb:amd64 (2:2.9.0+samba4.20.1+dfsg-5) ...
Setting up python3-ldb (2:2.9.0+samba4.20.1+dfsg-5) ...
Processing triggers for libc-bin (2.38-10) ...
Processing triggers for man-db (2.12.1-1) ...
Processing triggers for kali-menu (2023.4.7) ...
Errors were encountered while processing:
 winexe
 samba-vfs-modules:amd64
 smbclient

kali@kali:~$ whereis samba
whereis samba: command not found

kali@kali:~$ whereis samba
samba: /usr/sbin/samba /usr/lib/x86_64-linux-gnu/samba /etc/samba /usr/libexec/samba /usr/share/samba /usr/share/man/man7/samba.7.gz /usr/share/man/man8/samba.8.gz

kali@kali:~$
```

```
kali-linux-2024.2-virtualbox-amd64 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
kali@kali: ~
dpkg: dependency problems prevent configuration of smbclient:
smbclient depends on samba-common (= 2:4.20.1+dfsg-5); however:
Version of samba-common on system is 2:4.20.1+dfsg-1.
smbclient depends on samba-libs (= 2:4.20.1+dfsg-5); however:
Version of samba-libs:amd64 on system is 2:4.20.1+dfsg-1.

dpkg: error processing package smbclient (--configure):
dependency problems - leaving unconfigured
Setting up libldb2:amd64 (2:2.9.0+samba4.20.1+dfsg-5) ...
Setting up python3-ldb (2:2.9.0+samba4.20.1+dfsg-5) ...
Processing triggers for libc-bin (2.38-10) ...
Processing triggers for man-db (2.12.1-1) ...
Processing triggers for kali-menu (2023.4.2) ...
Errors were encountered while processing:
 winexe
 samba-libs:modules:amd64
 smbclient

kali@kali:~$ whereis samba
whereis samba: command not found

kali@kali:~$ whereis samba
samba: /usr/sbin/samba /usr/lib/x86_64-linux-gnu/samba /etc/samba /usr/libexec/samba /usr/share/samba /usr/share/man/man7/samba.7.gz /usr/share/man/man8/samba.8.gz

kali@kali:~$ mkdir /home/kali/sambashare

kali@kali:~$ sudo nano /etc/samba/smb.conf

kali@kali:~$ sudo service smb restart

kali@kali:~$ sudo ufw allow samba
sudo: ufw: command not found

kali@kali:~$ sudo smbpasswd -s kali
New SMB password:
Retype new SMB password:
Added user kali.

kali@kali:~$ sudo smbpasswd -s kali
New SMB password:
Retype new SMB password:

kali@kali:~$
```

```
kali-linux-2024.2-virtualbox-amd64 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
kali@kali: ~
GNU nano 8.0 /etc/samba/smb.conf
# comment = Network Logon Service
; path = /home/samba/netlogon
; guest ok = yes
; read only = yes

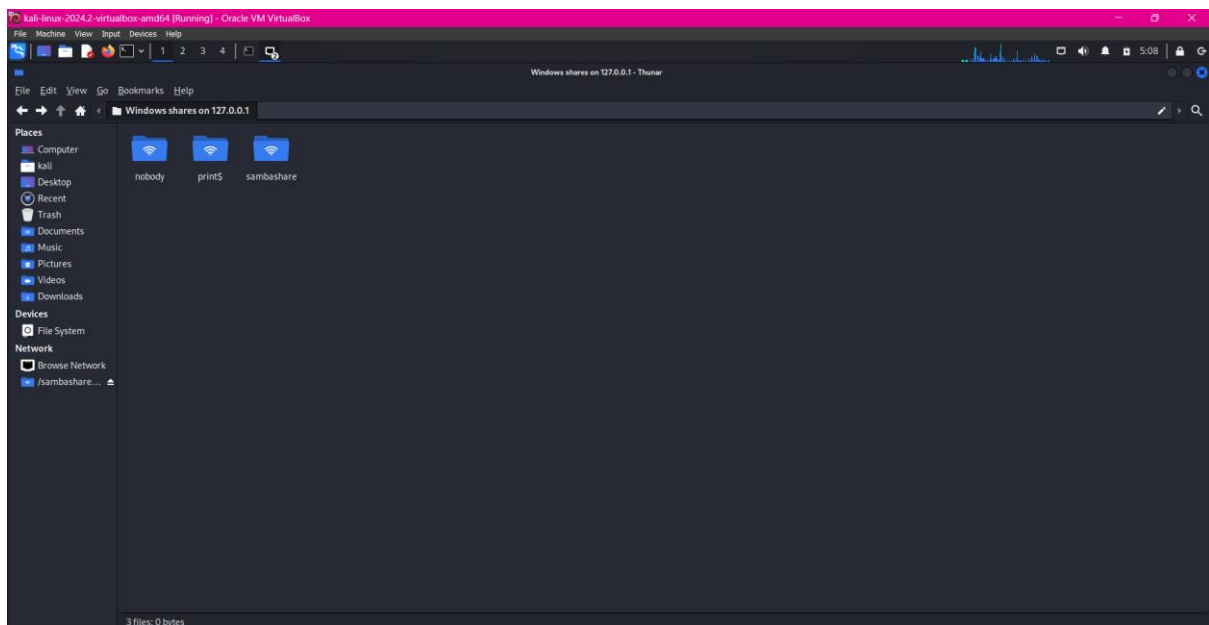
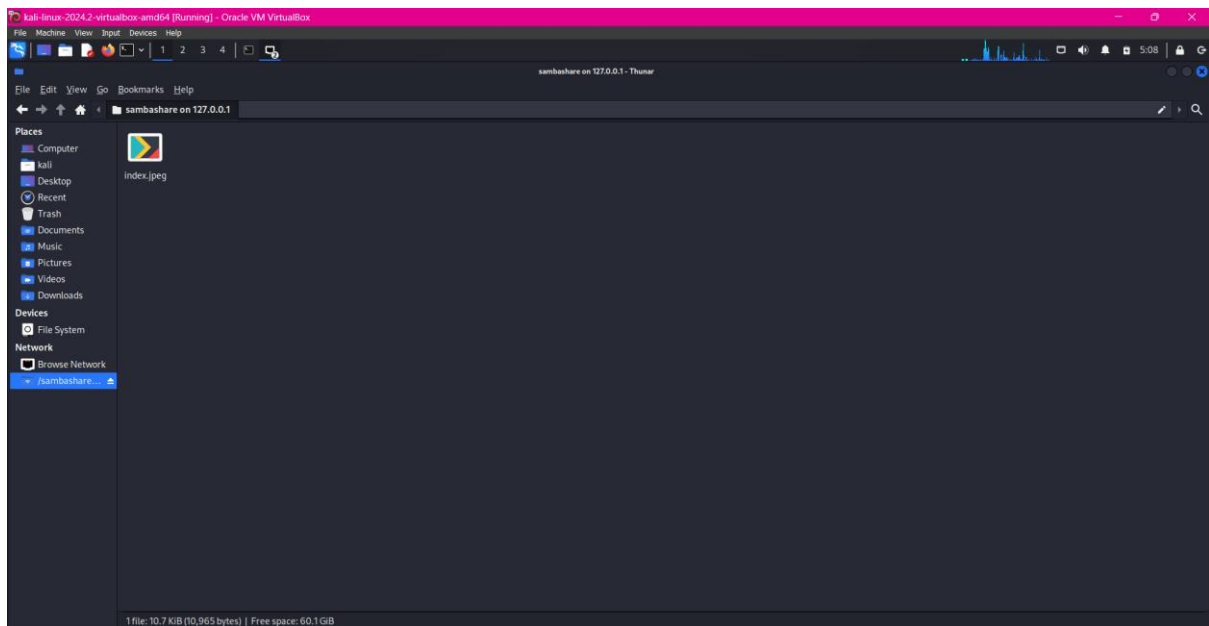
# Uncomment the following and create the profiles directory to store
# users profiles (see the "logon path" option above)
# (you need to configure Samba to act as a domain controller too.)
# The path below should be writable by all users so that their
# profile directory may be created the first time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

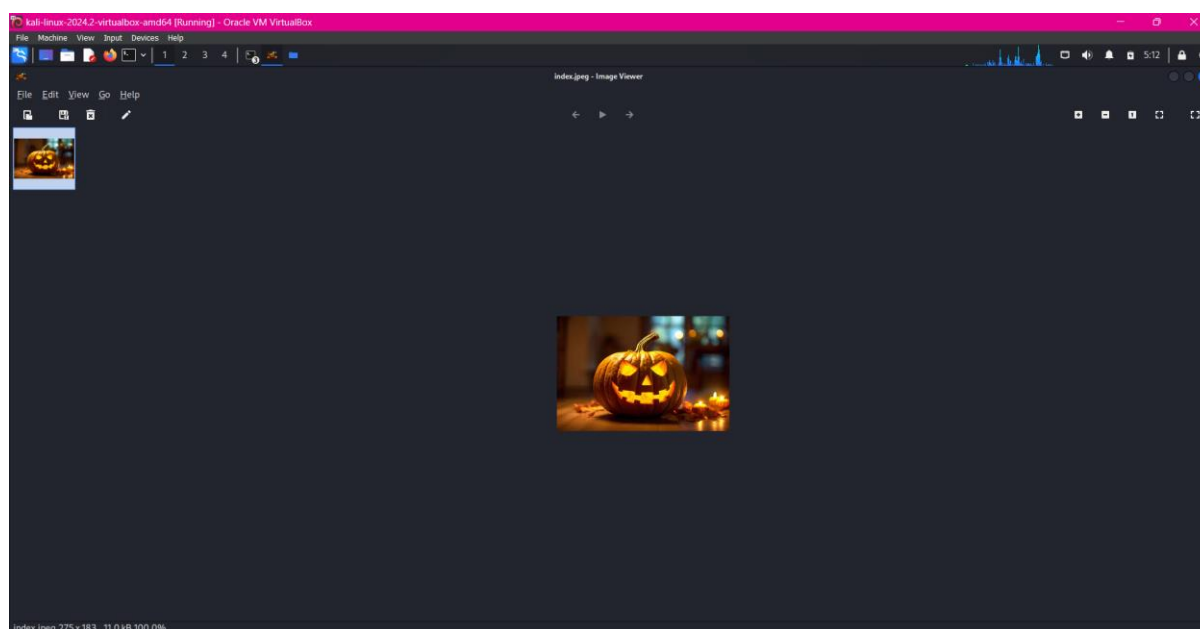
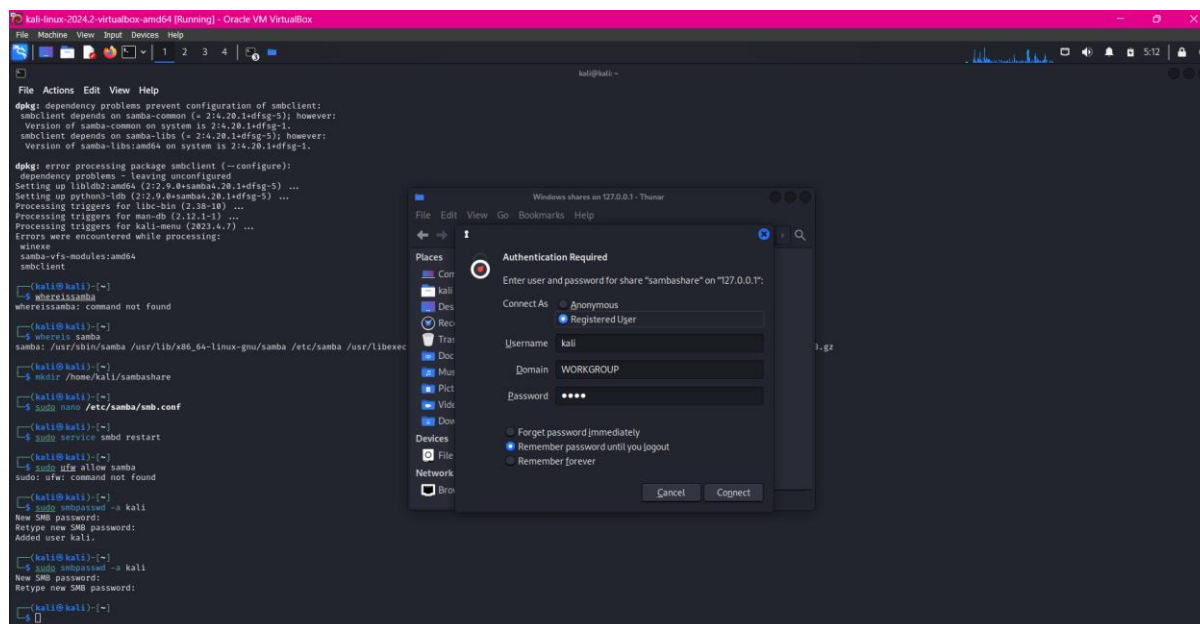
[printers]
; comment = All Printers
browseable = no
path = /var/spool/samba
printable = yes
guest ok = no
read only = yes
create mask = 0700

# Windows clients look for this share name as a source of downloadable
# printer drivers
[printers]
; 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

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





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