PRACTICAL 6

AIM: Install Samba to share folders or files between Windows and Linux.

STEPS TO INSTALL SAMBA AND SHARE FOLDER'S AND FILE'S:

Step 1: This is the basic step and should be performed every time, that is to update system repositories.

sudo apt-get update

```
atharva@Atharva:~$ sudo apt-get update
[sudo] password for atharva:
Hit:1 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:4 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:5 http://in.archive.ubuntu.com/ubuntu jammy-updates/main i386 Packages [471 kB]
Get:6 http://security.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [680 kB]
Get:7 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [894 kB]
Get:8 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 DEP-11 Metadata [100 kB]
Get:9 http://in.archive.ubuntu.com/ubuntu jammy-updates/main DEP-11 48x48 Icons [36.1 kB]
Get:10 http://in.archive.ubuntu.com/ubuntu jammy-updates/main DEP-11 64x64 Icons [55.1 kB]
Get:11 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [15.6 kB]
Get:13 http://in.archive.ubuntu.com/ubuntu jammy-updates/restricted i386 Packages [30.3 kB]
Get:13 http://in.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [714 kB]
Get:15 http://security.ubuntu.com/ubuntu jammy-security/main i386 Packages [305 kB]
Get:16 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [155 kB]
Get:17 http://in.archive.ubuntu.com/ubuntu jammy-security/main Translation-en [114 kB]
Get:18 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [114 kB]
Get:19 http://security.ubuntu.com/ubuntu jammy-security/main DEP-11 48x48 Icons [16.9 kB]
Get:19 http://security.ubuntu.com/ubuntu jammy-security/main DEP-11 48x48 Icons [16.9 kB]
Get:20 http://in.archive.ubuntu.com/ubuntu jammy-security/main DEP-11 48x48 Icons [16.9 kB]
```

sudo apt-get upgrade

```
**Reading package | Lists... Done |
Reading state | Lists... Li
```

Step 2: Now after updating system repositories next step is to install samba using command.

sudo apt-get install samba

```
Reading Sarkapa lists. Bome
Ballding dependency tree... Done
Reading Sarkapa lists. Bome
Ballding dependency tree... Done
Reading Sate Information... Done
The following additional packages will be installed:
attr (bures-providers Libepfis2 libgingte) libgingte) libgingted libgingted place libgingted libgi
```

Step 3: Now you need to configure the shared folder so first thing you want to do is to edit the configuration file.

sudo nano /etc/samba/smb.conf

```
[global]
## Browsing/Identification ###
# Change this to the workgroup/NT-domain name your Samba server will part of workgroup = WORKGROUP
```

```
;[profiles]
; comment = Users profiles
; path = /home/samba/profiles
; guest ok = yes
; browseable = yes
; create mask = 0600
; directory mask = 0700
```

Step 4: Now we will make the directory and check if it's created or not.

a) sudo mkdir -p /srv/samba/share

```
atharva@Atharva:~$ sudo mkdir -p /srv/samba/share

b) cd /srv

atharva@Atharva:~$ cd /srv
atharva@Atharva:/srv$

c) ls

atharva@Atharva:/srv$ ls
samba

d) ls samba

atharva@Atharva:/srv$ ls samba
share
```

STEP 5: Once you have made the directories you need to change ownership so to do that we execute the following command.

sudo chown nobody.nogroup /srv/samba/share

```
atharva@Atharva:/srv$ sudo chown nobody.nogroup /srv/samba/share
```

Step 6: Now we have to list the files present the directory we created, so we will use the list long command but before that we will move into the directory.

a) cd /srv/samba

```
atharva@Atharva:/srv$ cd /srv/samba
atharva@Atharva:/srv/samba$
```

```
atharva@Atharva:/srv/samba$ ll
total 12
drwxr-xr-x 3 root root 4096 Aug 18 22:14 ./
drwxr-xr-x 3 root root 4096 Aug 18 22:14 ../
drwxr-xr-x 2 nobody nogroup 4096 Aug 18 22:14 share/
```

Step 7: Now we will configure the nmbd file for samba, for that we will use the following command.

sudo nano /etc/init/nmbd.conf

```
🙆 🖨 📵 gnkhalsa@gnkhalsa-VirtualBox: /srv/samba
description "NetBIOS name server"
author "Steve Langasek <steve.langasek@ubuntu.com>"
start on (local-filesystems and net-device-up IFACE!=lo)
stop on runlevel [!2345]
expect fork
respawn
pre-start script
# [ -f /etc/samba/smb.conf ] || { stop; exit 0; }
          install -o root -g root -m 755 -d /var/run/samba
NMBD_DISABLED=`testparm -s --parameter-name='disable netbios' 2>/dev/null || true`
          [ "x$NMBD_DISABLED" = xYes ] && { stop; exit 0; }
          exit 0
end script
exec nmbd -D
                                                         Read 21 lines
^G Get Help
^X Exit
                      Write Out
Read File
                                                                                                  Cur Pos AY Prev Page
Go To Line AV Next Page
                                      ^W Where Is
                                                                               Justify
                                                                                                 Cur Pos
                                                                               To Spell
```

Step 8: Now we will restart our nmbd and smbd services using commands.

sudo service smbd restart

```
atharva@Atharva:/srv/samba$ sudo service smbd restart
```

Step 9: Now create a file using touch command in /srv/samba/share named test.txt and we will check if our file is created or not.

sudo touch /srv/samba/share/test.txt

```
atharva@Atharva:/srv/samba$ sudo touch /srv/samba/share/test.txt
```

```
atharva@Atharva:/srv/samba$ ll /srv/samba/share
total 8
drwxr-xr-x 2 nobody nogroup 4096 Aug 18 22:31 ./
drwxr-xr-x 3 root root 4096 Aug 18 22:14 ../
-rw-r--r-- 1 root root 0 Aug 18 22:31 test.txt
```