SAMBA

Samba is an open-source software suite that enables file and printer sharing between Linux/Unix and Windows systems. It allows Linux systems to act as both file servers and clients in a Windows-dominated network environment. Samba implements the SMB/CIFS (Server Message Block/Common Internet File System) protocol, which is the same protocol used by Windows systems for sharing resources.

Steps to follow:

Connecting Linux to windows

Step-1: Install samba samba-client package

yum install samba samba-client

```
[root@server /]# yum install samba samba-client
Last metadata expiration check: 0:29:34 ago on Thursday 21 November 2024 10:14:08 AM.
Dependencies resolved.
================================================================================================================================
 Package                  Architecture          Version                     Repository                              Size
================================================================================================================================
Installing:
 samba                    x86_64                4.21.1-4.el9                baseos                                 987 k
 samba-client             x86_64                4.21.1-4.el9                appstream                              754 k
Upgrading:
 libipa_hbac              x86_64                2.9.5-5.el9                 baseos                                  38 k
 libldb                   x86_64                4.21.1-4.el9                baseos                                 185 k
 libsmbclient             x86_64                4.21.1-4.el9                baseos                                  75 k
 libsss_certmap           x86_64                2.9.5-5.el9                 baseos                                  92 k
 libsss_idmap             x86_64                2.9.5-5.el9                 baseos                                  43 k
 libsss_nss_idmap         x86_64                2.9.5-5.el9                 baseos                                  47 k
 libsss_sudo              x86_64                2.9.5-5.el9                 baseos                                  37 k
 libtdb                   x86_64                1.4.12-1.el9                baseos                                  51 k
 libwbclient              x86_64                4.21.1-4.el9                baseos                                  44 k
 samba-client-libs        x86_64                4.21.1-4.el9                baseos                                 5.3 M
 samba-common             noarch                4.21.1-4.el9                baseos                                 176 k
 samba-common-libs        x86_64                4.21.1-4.el9                baseos                                 102 k
```

Step-2: modify the smb.conf

vi /etc/samba/smb.conf

Add the share details

[mysmbshare]

comment = "Test Samba"

path = /data

read only = No

valid users = sambauser

browseable = Yes

```
[mysmbshare]
        comment = "Test Samba"
        path = /data
        read only = No
        valid users = sambauser
        browseable = Yes
```

Step-3: Start and enable the service

systemctl start smb

systemctl enable smb

```
[root@server /]# systemctl start smb
[root@server /]# systemctl enable smb
```

```
[root@server siddharrth]# systemctl status smb.service
● smb.service - Samba SMB Daemon
     Loaded: loaded (/usr/lib/systemd/system/smb.service; enabled; preset: disabled)
     Active: active (running) since Thu 2024-11-21 10:57:41 IST; 1h 31min ago
       Docs: man:smbd(8)
             man:samba(7)
             man:smb.conf(5)
   Main PID: 9300 (smbd)
     Status: "smbd: ready to serve connections..."
```

Step-4: Create a dir. (if, needed)

mkdir /data

Make sure directory has full privileges

chmod 777 -R /data

```
[root@server /]# mkdir /data
[root@server /]# cp -r /home/siddharrth /data/
[root@server /]# chmod -R 777 data/
```

Step-5: Create a user (if,needed)

useradd sambauser

```
[root@server /]# useradd sambauser
```

Step-6: Set a samba password of sambauser

Samba can't read/access encrypted file

smbpasswd sambauser

```
[root@server /]# smbpasswd -a sambauser
New SMB password:
Retype new SMB password:
Added user sambauser.
```

Step-7: Check using samba client

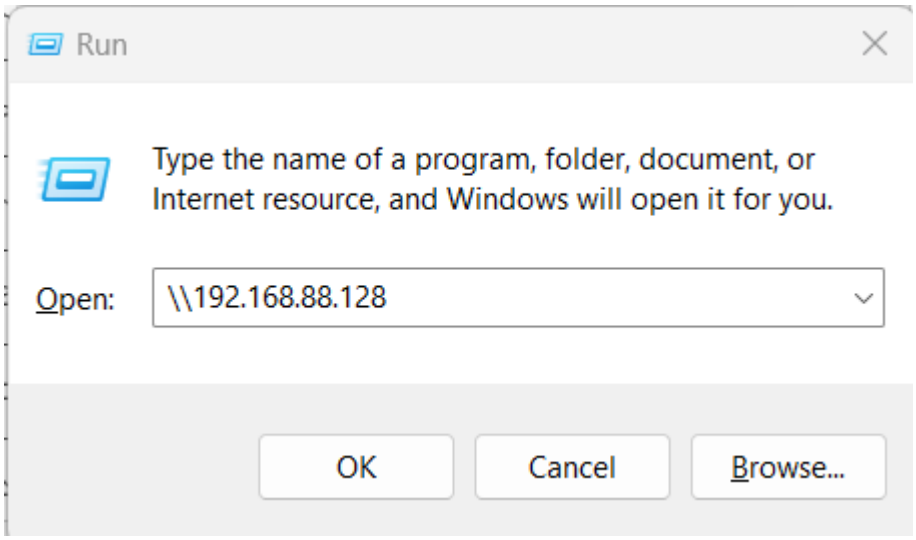
smbclient -L \\localhost

```
[root@server /]# smbclient -L \\localhost
Password for [SAMBA\siddharrth]:
Anonymous login successful

        Sharename       Type      Comment
        ---------       ----      -------
        print$          Disk      Printer Drivers
        mysmbshare      Disk      Test Samba
        IPC$            IPC       IPC Service (Samba 4.21.1)
SMB1 disabled -- no workgroup available
```

Step -8: In Windows, open run

\\192.168.88.128

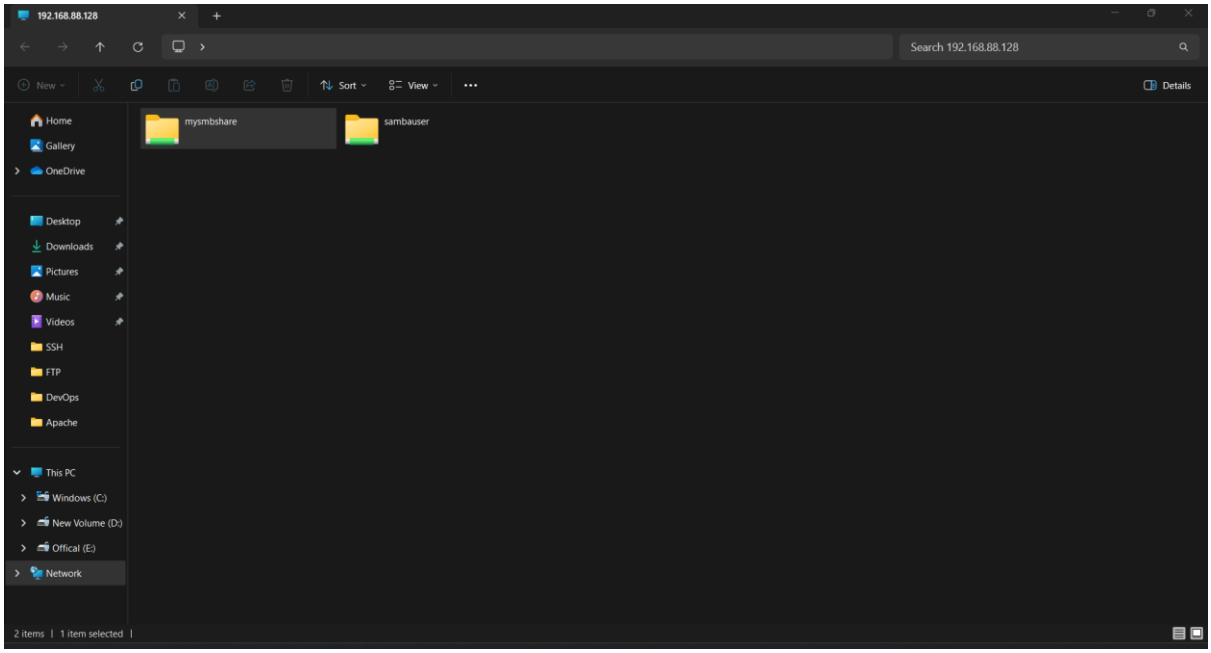


Step-9: Enter the credentials

Username: sambauser

Password: root

- Perform some file sharing from windows to linux


192.168.88.128
Search 192.168.88.128
New
Sort
View
Details
Home
Gallery
OneDrive
Desktop
Downloads
Pictures
Music
Videos
SSH
FTP
DevOps
Apache
This PC
Windows (C:)
New Volume (D:)
Offical (E:)
Network
mysmbshare
sambauser
2 items | 1 item selected