

វិទ្យាស្ថានជាតិពហុបច្ចេកទេសកម្ពុជា

មហាវិទ្យាល័យវិទ្យាសាស្ត្រកុំព្យូទ័រ

មុខវិជ្ជា **Basic Linux**

បង្រៀនដោយ៖ **SAN EAMSOT**

កិច្ចការត្រួតពិនិត្យ៖ **Configuration Samba**

Group 4 (B)

1. នន់ សារ៉ាន់
2. ហាក់ វិសាល
3. ហួរ សៀកលាង
4. សម្បត្តិ ជេវីឌ

Introduction

1. Full Accessed Shared Folder
2. Limited Shared Folder
3. Client's Share Folder to Folder in Samba of the Fedora
4. Access to Share From Clients



1.Full Accessed Shared Folder

Install Samba to Configure File Server.

For example, Create a fully accessed shared Folder which anybody can read and write, and also authentication is not required.

1. Install and Configure Samba.

```
[root@smb ~]# dnf -y install samba
[root@smb ~]# mkdir /home/share
[root@smb ~]# chmod 777 /home/share
[root@smb ~]# vi /etc/samba/smb.conf
[global]
    # line 11 : add (set charset)
    unix charset = UTF-8
    workgroup = SAMBA
    security = user
    # add (IP addresses you allow to access)
    hosts allow = 127. 10.0.0.
    # add (no authentication)
    map to guest = Bad User
# add to the end
# any Share name you like
[Share]
    # specify shared directory
    path = /home/share
    # allow writing
    writable = yes
    # allow guest user (nobody)
    guest ok = yes
    # looks all as guest user
    guest only = yes
    # set permission [777] when file created
    force create mode = 777
    # set permission [777] when folder created
    force directory mode = 777
[root@smb ~]#
systemctl enable --now smb
```

2. If SELinux is enabled and also use [/home] like this example, Change SELinux policy.

```
[root@smb ~]# setsebool -P samba_enable_home_dirs on
[root@smb ~]# restorecon -R /home/share
```

3. If Firewalld is running, allow Samba service.

```
[root@smb ~]# firewall-cmd --add-service=samba
success
[root@smb ~]# firewall-cmd --runtime-to-permanent
success
```

2. Limited Shared Folder

Install Samba to Configure File Server.

For example, Create a shared Folder that users in [smbgroup01] group can only access to shared folder [/home/share01] and also they are required user authentication.

1. Install and Configure Samba.

```
[root@smb ~]# dnf -y install samba
[root@smb ~]# groupadd smbgroup01
[root@smb ~]# mkdir /home/share01
[root@smb ~]# chgrp smbgroup01 /home/share01
[root@smb ~]# chmod 770 /home/share01
[root@smb ~]# vi /etc/samba/smb.conf
[global]
    # line 11 : add (set charset)
    unix charset = UTF-8
    workgroup = SAMBA
    security = user
    # add (IP addresses you allow to access)
    hosts allow = 127. 10.0.0.
```

```
# add to the end
# any Share name you like
[Share01]
    # specify shared directory
    path = /home/share01
    # allow writing
    writable = yes
    # not allow guest user (nobody)
    guest ok = no
    # allow only [smbgroup01] group
    valid users = @smbgroup01
    # set group for new files/directories to [smbgroup01]
    force group = smbgroup01
    # set permission [770] when file created
    force create mode = 770
    # set permission [770] when folder created
    force directory mode = 770
    # inherit permissions from parent folder
    inherit permissions = yes

[root@smb ~]# systemctl enable --now smb
# add Samba user
[root@smb ~]# useradd fedora
[root@smb ~]# smbpasswd -a fedora
New SMB password:
# set password
Retype new SMB password:
Added user fedora.
[root@smb ~]#
usermod -aG smbgroup01 fedora
```

2. If SELinux is enabled and also use [/home] like this example, Change SELinux policy.

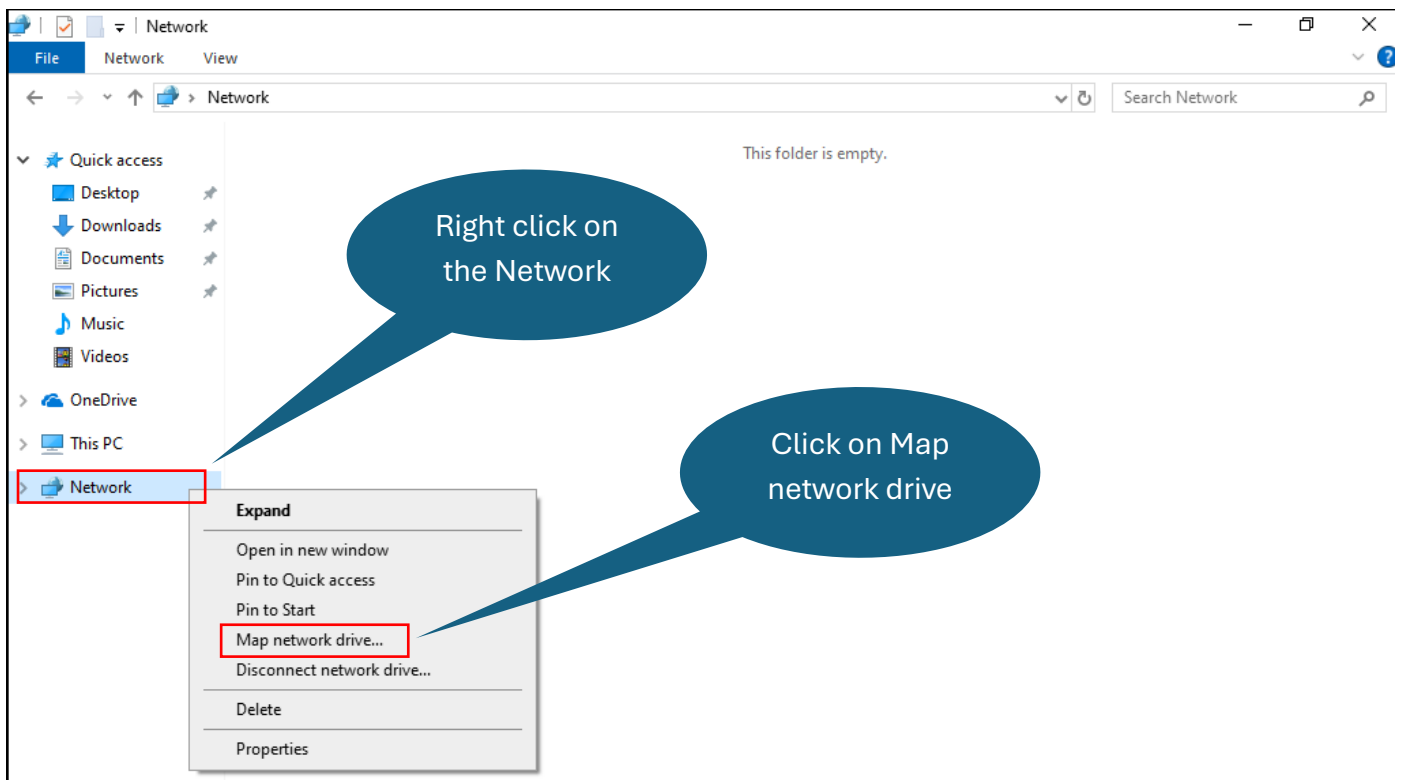
```
[root@smb ~]# setsebool -P samba_enable_home_dirs on
[root@smb ~]# restorecon -R /home/share01
```

3. If Firewall is running, allow Samba service.

```
[root@smb ~]# firewall-cmd --add-service=samba
success
[root@smb ~]# firewall-cmd --runtime-to-permanent
success
```

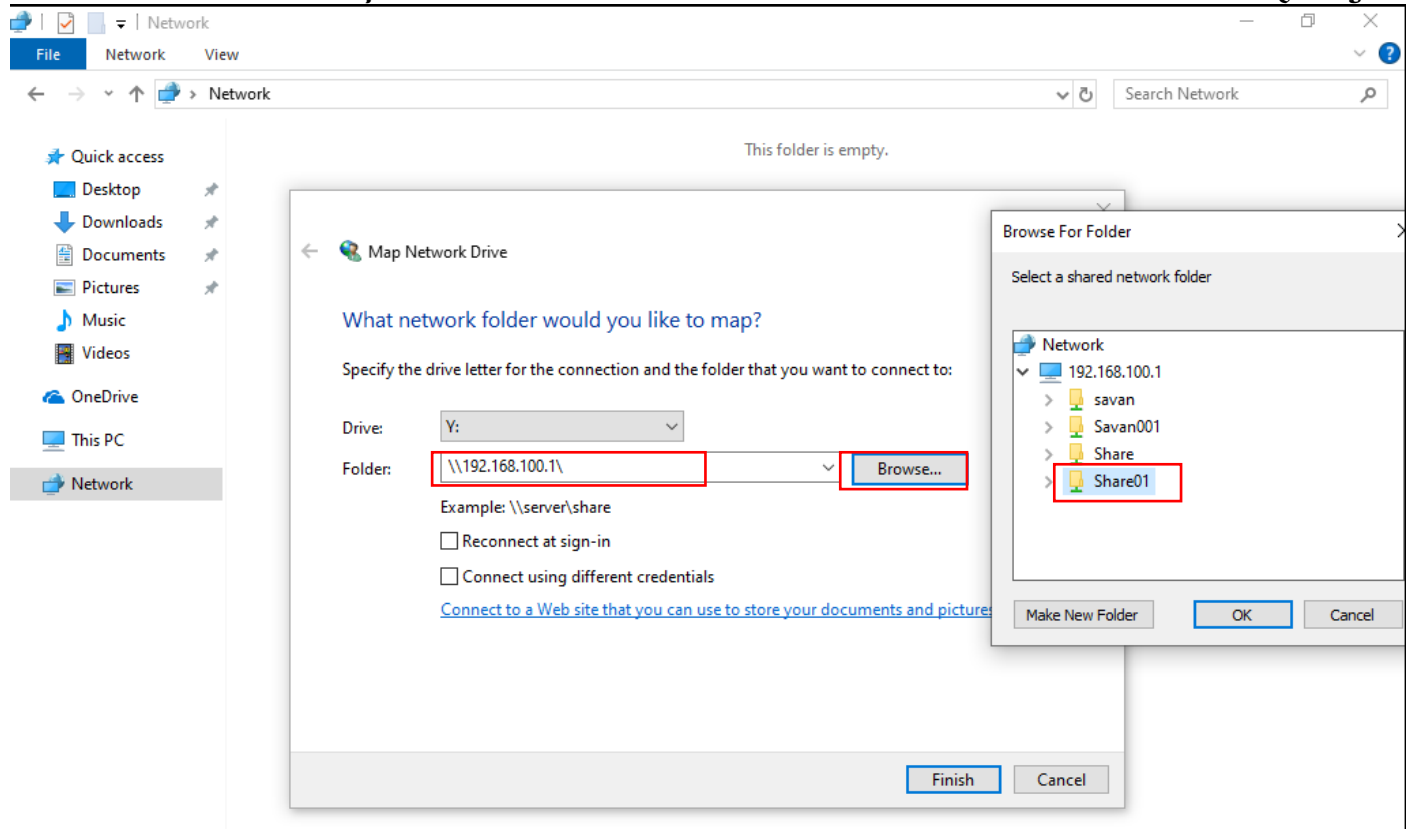
3. Client's Share Folder to Folder in Samba of the Fedora

1. We need to map drive on the client

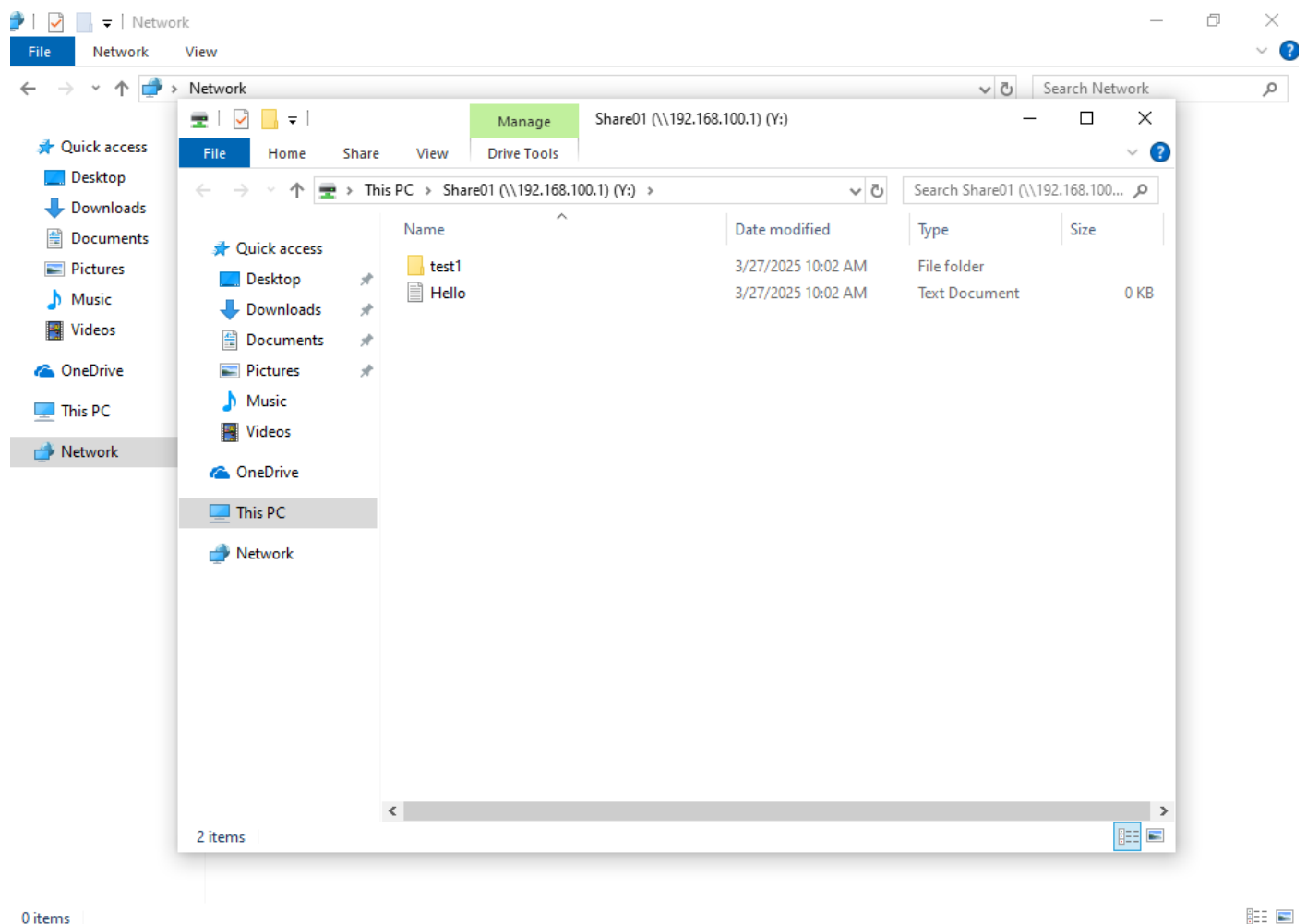


The way that we can access to Fedora's Folder:

- Type: [\\192.168.100.1\Share](#) or click on browse and then choose Folder's Name
- After that click Finish for Map drive on the client



And then create file or folder on the Fedora's Folder



Configuration Samba

4. Access to Share From Clients

Access to Share from Client Hosts.

1. On Fedora clients with CUI, access like follows.

On the Fedora, we can download file from client's file that they shared on the Fedora Server.

We can download other file that has on the client's shared.

```
[root@node01 ~]# dnf -y install samba-client cifs-utils
# with [smbclient] command access
# smbclient (share name) -U (user name)
[root@fedora ~]# smbclient '\\192.168.100.1\Share01' -U Savan
Enter SAMBA\Savan's password:
Try "help" to get a list of possible commands.
smb: \> ls
.                D            0   Thu Mar 27 13:03:02 2025
..               D            0   Thu Mar 27 13:21:09 2025
test1            D            0   Thu Mar 27 13:02:51 2025
Hello.txt        A            0   Thu Mar 27 13:02:59 2025

      82836480 blocks of size 1024. 78346184 blocks available
smb: \> mget "Hello.txt"
Get file Hello.txt? y
getting file \Hello.txt of size 0 as Hello.txt (0.0 KiloBytes/sec) (average 0.0
KiloBytes/sec)
smb: \> !ls
anaconda-ks.cfg  Hello.txt
smb: \> exit
```

Thank you