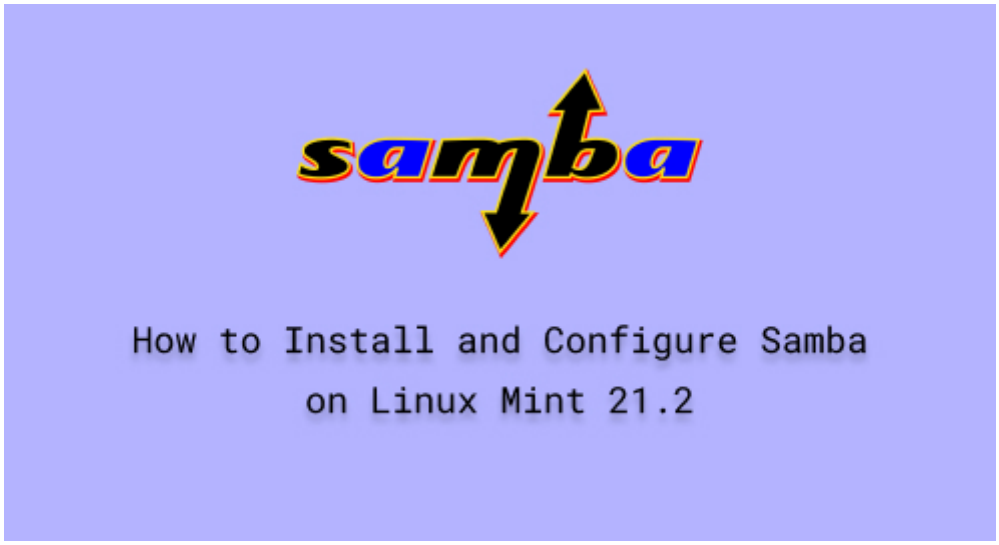


How to Install and Configure Samba on Linux Mint 21.2

By Karim Buzdar. Published on 26/07/2023.

Samba is a sharing software that can operate on different operating systems. It is equipped with built-in security tools that are used to secure your data while sharing across the networks. One of its key advantages is that the Samba server is freely

available to everyone. Through this platform, you can effortlessly share files, printers, and other data over a network.

In this article, you will gain the skills to install and configure Samba on Linux Mint 21.2. Furthermore, you will be guided through a practical example of sharing files and resources using Samba.

How to Install and Configure Samba on Linux Mint 21.2?

The sequential steps given below will be utilized to install and configure the Samba, a sharing software, on Linux Mint 21.2.

Step 1: Linux Mint Release

The command will display brief information of the Linux Mint:

```
lsb_release -a
```

```
genie@Linuxmint:~$ lsb_release -a
No LSB modules are available.
Distributor ID: Linuxmint
Description:    Linux Mint 21.2
Release:        21.2
Codename:       victoria
genie@Linuxmint:~$
```

Step 2: Update Linux Mint Packages

The below command will keep your Linux Mint packages up to date:

```
sudo apt update
```

```
genie@Linuxmint:~$ sudo apt update
[sudo] password for genie:  Password
Hit:1 http://archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:3 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Ign:4 http://packages.linuxmint.com victoria InRelease
Get:5 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [108 kB]
Hit:6 http://packages.linuxmint.com victoria Release
Fetched 337 kB in 2s (148 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
8 packages can be upgraded. Run 'apt list --upgradable' to see them.
genie@Linuxmint:~$
```

Step 3: Upgrade Linux Mint Packages

To upgrade your Linux Mint 21.2 and get the latest versions of installed applications, run this command in the terminal:

```
sudo apt upgrade -y
```

```
genie@Linuxmint:~$ sudo apt upgrade -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following packages will be upgraded:
  curl libcurl3-gnutls libcurl4 xapp-appimage-thumbnailer xapp-epub-thumbnailer xapp-mp3-thumbnailer
  xapp-raw-thumbnailer xapp-thumbnailers-common
8 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 784 kB of archives.
After this operation, 0 B of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libcurl3-gnutls amd64 7.81.0-1ubuntu1.13 [
284 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 curl amd64 7.81.0-1ubuntu1.13 [194 kB]
Get:3 http://packages.linuxmint.com victoria/main amd64 xapp-thumbnailers-common all 1.2.2 [3,488 B]
Get:4 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libcurl4 amd64 7.81.0-1ubuntu1.13 [290 kB]
Get:5 http://packages.linuxmint.com victoria/main amd64 xapp-appimage-thumbnailer all 1.2.2 [3,188 B]
Get:6 http://packages.linuxmint.com victoria/main amd64 xapp-epub-thumbnailer all 1.2.2 [3,044 B]
Get:7 http://packages.linuxmint.com victoria/main amd64 xapp-mp3-thumbnailer all 1.2.2 [2,692 B]
Get:8 http://packages.linuxmint.com victoria/main amd64 xapp-raw-thumbnailer all 1.2.2 [2,760 B]
Fetched 784 kB in 5s (172 kB/s)
```

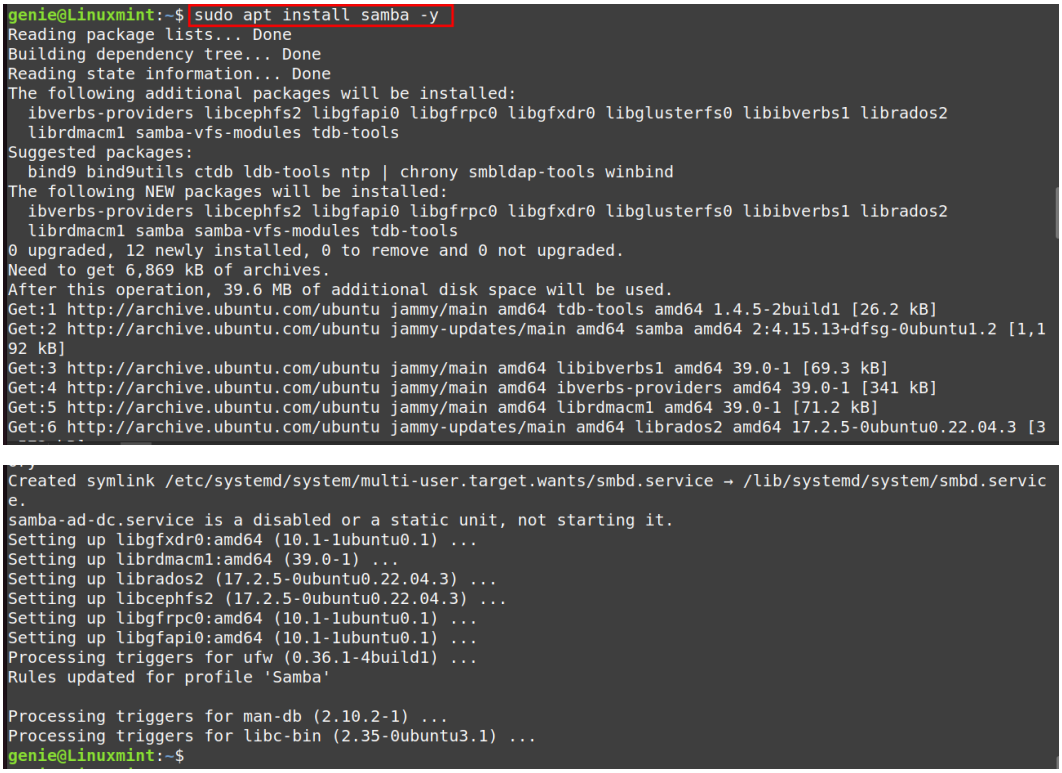
```
Preparing to unpack .../6-xapp-raw-thumbnailer_1.2.2_all.deb ...
Unpacking xapp-raw-thumbnailer (1.2.2) over (1.2.1+victoria) ...
Setting up xapp-thumbnailers-common (1.2.2) ...
Setting up xapp-appimage-thumbnailer (1.2.2) ...
Setting up xapp-mp3-thumbnailer (1.2.2) ...
Setting up libcurl4:amd64 (7.81.0-1ubuntu1.13) ...
Setting up xapp-epub-thumbnailer (1.2.2) ...
Setting up curl (7.81.0-1ubuntu1.13) ...
Setting up xapp-raw-thumbnailer (1.2.2) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
genie@Linuxmint:~$
```

All the Linux Mint 21.2 package files are now upgraded with the latest versions.

Step 4: Install Samba Package

The command mentioned below will install the complete package of Samba on Linux Mint 21.2:

```
sudo apt install samba -y
```



Based on the above message mentioned in the screenshot, Samba has been installed along with its associated libraries and dependencies.

How to Configure Samba on Linux Mint 21.2?

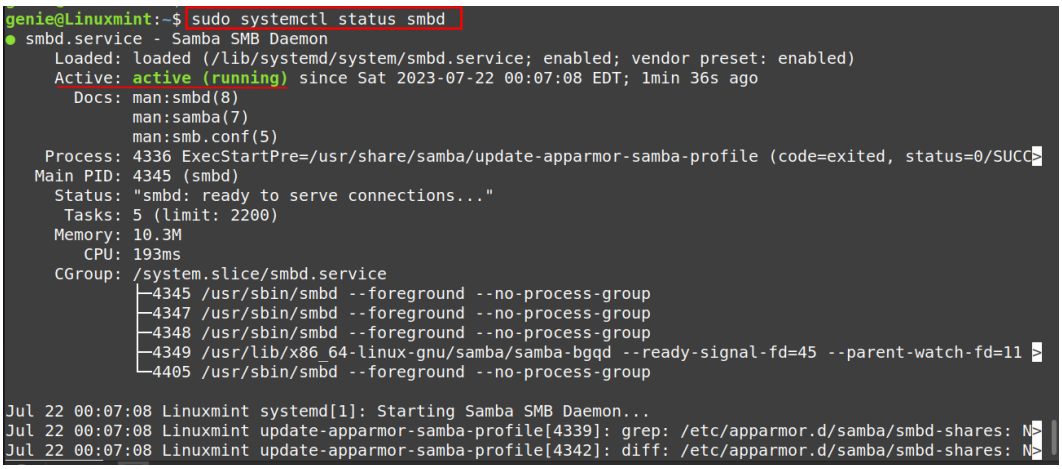
The following instruction will be utilized to configure the Samba on your Linux Mint 21.2.

Step 1: Samba Status Check

Before jumping into the Samba configuration, you need to activate the

Samba services. Here is the command:

```
sudo systemctl status smbd
```



The screenshot presented above indicates that the Samba is active and ready to use.

Step 2: Check Present Working Directory

The command “**pwd**” will display your current working directory:

```
pwd
```

As you can see, we are currently in the

"/home/genie" location of the drive.

Step 3: Make Directory

In Linux operating systems, the "**mkdir**" command is used to create a directory/folder from the command line:

```
mkdir GenieShared
```

Here it can be seen that we have created an empty directory with the name "GenieShared".

Step 4: List the "GenieShared"

Run the "**ls**" command from your terminal to show if the "GenieShared" has been created in the "/home/genie/":

```
ls
```

```
genie@Linuxmint:~$ ls
Desktop  Documents  Downloads  GenieShared  Music  Pictures  Public  Templates  Videos
genie@Linuxmint:~$
```

You can see the “GenieShared” directory is present.

Step 5: Create a Password for the User

Using the following command will be run from the terminal to generate an authentication password against the user such as “**genie**”:

```
sudo smbpasswd -a genie
```

```
genie@Linuxmint:~$ sudo smbpasswd -a genie
New SMB password:
Retype new SMB password:
genie@Linuxmint:~$
```

You have successfully created a new password for the “genie”.

Step 6: Edit Samba Configuration File

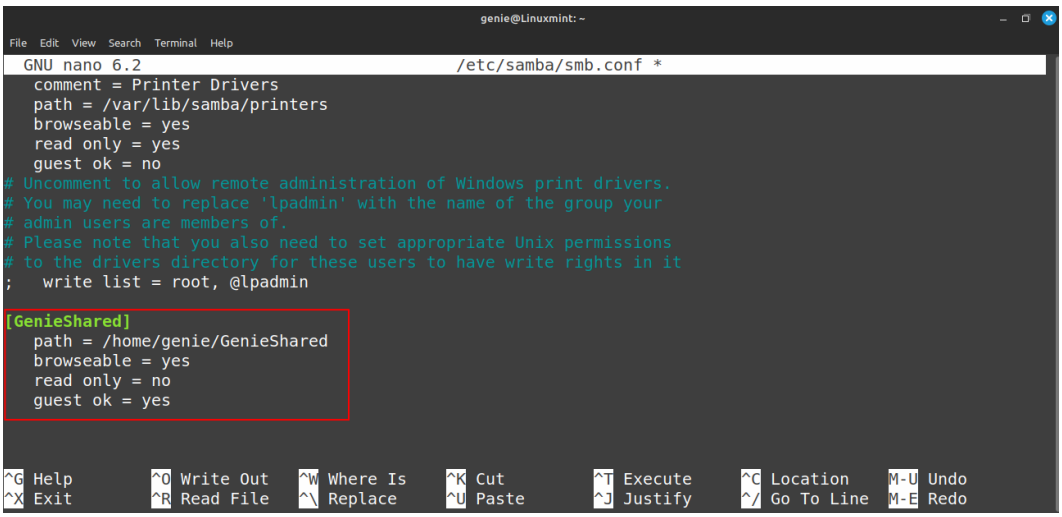
To open the Samba configuration file, the following command is attached for your reference:

```
sudo nano /etc/samba/smb.conf
```

Once you have entered the ‘smb.conf’ file, the Samba configuration file, scroll down to the end and add the script provided below. Save the file by pressing Ctrl+S and exit by Ctrl+X:

```
[GenieShared]
path = /home/genie/GenieShared
browseable = yes
read only = no
guest ok = yes
force user = genie
```

ver https://forums.linuxmint.com/viewtopic.php?t=354439

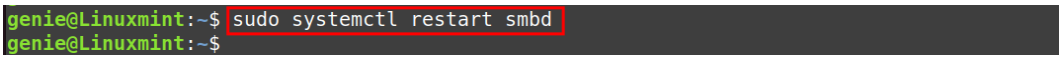


The script can also be examined in the above example.

Step 7: Restart Samba Services

Run the command presented below to restart the Samba services of your Linux Mint 21.2:

```
sudo systemctl restart smbd
```



The empty result indicates that Samba has restarted successfully.

Step 8: Display Your System IP Address

Using the below command will display the IP address of your Linux Mint 21.2:

```
ifconfig
```

```
genie@Linuxmint:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.10.15  netmask 255.255.255.0  broadcast 192.168.10.255
        inet6 fe80::cc95:a457:d58b:f2ba  prefixlen 64  scopeid 0x20<link>
        ether 08:00:27:56:49:0c  txqueuelen 1000  (Ethernet)
        RX packets 9073  bytes 12199905 (12.1 MB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 7238  bytes 654940 (654.9 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 199  bytes 21856 (21.8 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 199  bytes 21856 (21.8 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

genie@Linuxmint:~$
```

As you can see, our Linux Mint is running on the IP “192.168.10.15”. Your IP may differ from this one, so replace it with your IP address.

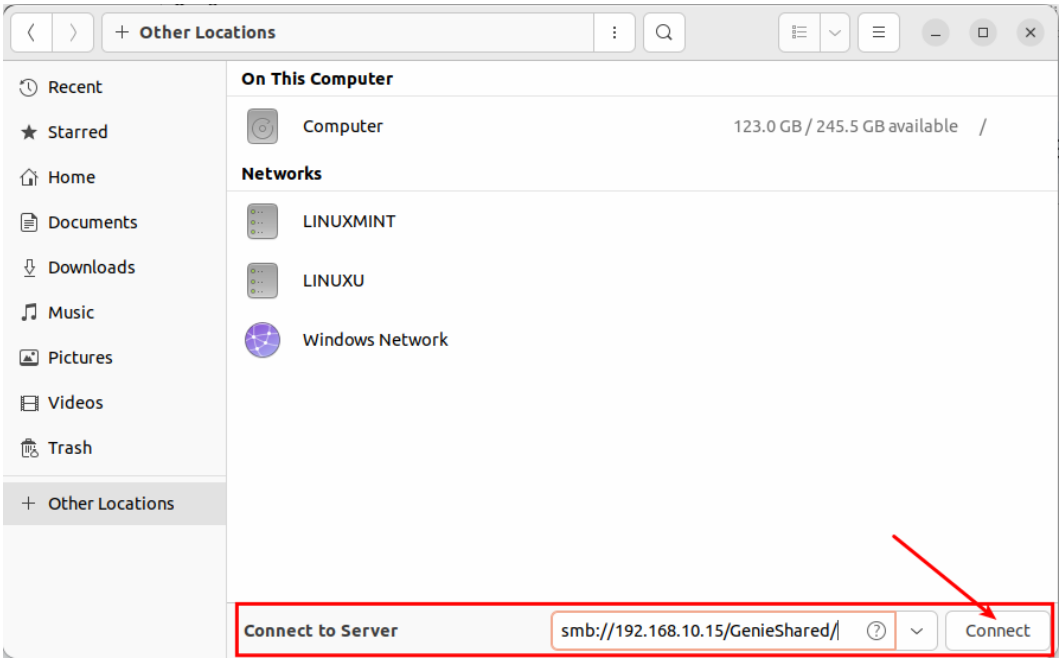
How to Access the Samba Shared Directory from Ubuntu 22.04?

Here are a few steps that can be used to access the directory shared through Samba.

Step 1: Access “GenieShared” via IP Address

First of all, go to the “other Locations”. In the “Connect to Server” address bar, copy your system IP address and shared folder in the following pattern. Lastly, press the “Connect” button:

```
smb://192.168.10.15/GenieShared
```



In the below screenshot, you can see we have accessed the “GenieShared” directory, which was created in Linux Mint 21.2: