

Configuring Samba for Linux

A Samba file server provides seamless file sharing across different operating system platforms over a network. This beginner guide will cover the setup of Samba on Ubuntu. (Ubuntu does offer an excellent [installation and configuration guide for samba](#).

Step 1: To install Samba, run the following command in Terminal.

```
sudo apt update  
sudo apt-get install samba
```

To verify that the installation of Samba was successful, type in this command in Terminal.

```
whereis samba
```

The output shows as follows:

```
samba: /usr/sbin/samba /usr/lib/samba /etc/samba /usr/share/samba /usr/share/man/man7/samba.7.gz  
/usr/share/man/man8/samba.8.gz
```

Step 2: Setting up Samba.

It is now necessary to create a directory to share now that Samba has been successfully installed. This command line below creates a new folder **sambashare** in our home directory which we will share later.

```
mkdir /home/<username>/sambashare/
```

The configuration file for Samba is located at **/etc/samba/smb.conf**. To add the new directory as a share, proceed to edit the file by executing the following command line.

```
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
```

To save the file, press **Ctrl-O** and **Ctrl-X** to exit from the nano text editor.

The **comment** section adds a brief description of the Samba share.

The **path** is the directory of the shared folder.

The **read only** permission allows one to modify the contents of the share folder is only granted when the value of this directive is no.

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The **browsable** section is set to yes so that file managers, such as Ubuntu's default file manager, will list this share under "Network" (it could also appear as **browsable**).

For the new shared configuration to take effect, proceed to save it and restart Samba for it to take effect with the following command line.

```
sudo service smbd restart
```

Proceed to update the firewall rules to allow Samba traffic:

```
sudo ufw allow samba
```

Step 3: Setting up User Accounts and Connecting to Share

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
```

Special note: The username used must belong to a system account. Otherwise, it will not save.

Connecting to Share

A quick way to find your IP address in Ubuntu is using the `ip a` command in Ubuntu's terminal.

On Ubuntu: Open up the default file manager and click Connect to Server then enter: `ubuntuctn`

On macOS: In the Finder menu, click Go > Connect to Server then enter: `macosctn`

On Windows, open up File Manager and edit the file path to:

```
\\ip-address\sambashare
```

Note: `ip-address` is the Samba server IP address and `sambashare` is the name of the share.

As a final step, you will be prompted to enter your credentials to proceed to connect to the Samba folder.