

## **What is samba server:**

Samba is the standard Windows interoperability suite of programs for Linux and Unix. Since 1992, Samba has provided secure, stable and fast file and print services for all clients using the SMB/CIFS protocol, such as all versions of DOS and Windows, OS/2, Linux and many others. Samba is an important component to seamlessly integrate Linux/Unix Servers and Desktops into Active Directory environments. It can function both as a domain controller or as a regular domain member. Samba is a software package that gives network administrators flexibility and freedom in terms of setup, configuration, and choice of systems and equipment. Because of all that it offers, Samba has grown in popularity, and continues to do so, every year since its release in 1992.

## **Objective:**

Samba is an open-source execution of the Server Message Block (SMB) and Common Internet File System (CIFS) conventions that permits document and print administrations to be divided between customers utilizing unique working frameworks.

## **Motivation:**

Permits Windows to share documents and printers on the Linux have, just as access assets shared by Windows frameworks.

## **Introduction:**

Samba is an awesome systems administration answer for any individual who has both Windows and Linux machines on their organization. Running on a Linux framework.

## **Code**

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riyad@tanin-rahman-riyad:~$ sudo apt install samba -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
samba is already the newest version (2:4.13.14+dfsg-0ubuntu0.21.10.4).
The following packages were automatically installed and are no longer required:
  gir1.2-clutter-1.0 gir1.2-clutter-gst-3.0 gir1.2-cogl-1.0 gir1.2-coglpango-1.0 gir1.2-gtkclutter-1.0 gnome-getting-started-docs
  libantk-5-0 libantk-5-common libasni-8-heimdall libgssapi3-heimdall libhandy-0.0-0 libhcrypto4-heimdall libheibase1-heimdall
  libheintime-heimdall libhs09-5-heimdall libkrs5-26-heimdall libldap-2.4-2 libllvmlib1 libnvidia-cfgi-460 libnvidia-common-460
  libnvidia-compute-460 libnvidia-decode-460 libnvidia-encode-460 libnvidia-extra-460 libnvidia-fbc1-460 libnvidia-gl-460
  libnvidia-ifrt-460 libpoppler107 libroken18-heimdall libtepl-5-0 libtracker-control-2.0-0 libtracker-miner-2.0-0
  libtracker-sparql-2.0-0 libwind0-heimdall lz4 nvidia-compute-utils-460 nvidia-utils-460 xserver-xorg-video-nvidia-460 xul-ext-ubufox
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 21 not upgraded.
riyad@tanin-rahman-riyad:~$ sudo systemctl enable --now smbd
Synchronizing state of smbd.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable smbd
riyad@tanin-rahman-riyad:~$ sudo systemctl status smbd
● smbd.service - Samba SMB Daemon
   Loaded: loaded (/lib/systemd/system/smbd.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2021-12-15 13:09:23 +06; 7min ago
     Docs: man:smbd(8)
           man:samba(7)
           man:smb.conf(5)
  Main PID: 10354 (smbd)
    Status: "smbd: ready to serve connections..."
      Tasks: 4 (limit: 9303)
    Memory: 6.5M
       CPU: 58ms
    CGroup: /system.slice/smbd.service
            └─10354 /usr/sbin/smbd --foreground --no-process-group
              └─10356 /usr/sbin/smbd --foreground --no-process-group
                └─10357 /usr/sbin/smbd --foreground --no-process-group
                  └─10358 /usr/sbin/smbd --foreground --no-process-group

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└─10358 /usr/sbin/smbd --foreground --no-process-group
दिवासर 15 13:09:23 tanin-rahman-riyad systemd[1]: Starting Samba SMB Daemon...
दिवासर 15 13:09:23 tanin-rahman-riyad systemd[1]: Started Samba SMB Daemon.
riyad@tanin-rahman-riyad:~$
riyad@tanin-rahman-riyad:~$
riyad@tanin-rahman-riyad:~$ pwd
/home/riyad
riyad@tanin-rahman-riyad:~$
riyad@tanin-rahman-riyad:~$ mkdir riyad_folder
riyad@tanin-rahman-riyad:~$
riyad@tanin-rahman-riyad:~$ ls -l
total 56
-rw-rw-r-- 1 riyad riyad 0 दिवासर 13 04:38 an
drwxr-xr-x 3 riyad riyad 4096 आश्विन 22 01:09 Android
drwxr-xr-x 5 riyad riyad 4096 दिवासर 13 03:57 Desktop
drwxr-xr-x 2 riyad riyad 4096 आश्विन 12 02:07 Documents
drwxr-xr-x 6 riyad riyad 4096 दिवासर 12 19:53 Downloads
-rw-rw-r-- 1 riyad riyad 0 नवम्बर 7 21:38 file.sh
drwxr-xr-x 3 riyad riyad 4096 आश्विन 24 21:56 Music
-rw-rw-r-- 1 riyad riyad 0 नवम्बर 7 21:38 new
-rw-rw-r-- 1 riyad riyad 0 नवम्बर 7 21:40 new_file1
drwxr-xr-x 3 riyad riyad 4096 दिवासर 10 15:51 Pictures
drwxr-xr-x 2 riyad riyad 4096 आश्विन 12 02:07 Public
drwxr-xr-x 2 riyad riyad 4096 आश्विन 29 21:52 riyad
-rw-rw-r-- 1 riyad riyad 0 दिवासर 13 04:38 Riyad
drwxr-xr-x 2 riyad riyad 4096 दिवासर 15 13:18 riyad_folder
-rwxr-xr-x 1 riyad riyad 123 दिवासर 6 17:18 riyad.sh
drwxr-xr-x 10 riyad riyad 4096 नवम्बर 1 00:06 snap
-rw-rw-r-- 1 riyad riyad 100 दिवासर 10 15:50 star.sh
drwxr-xr-x 2 riyad riyad 4096 आश्विन 12 02:07 Templates
drwxr-xr-x 2 riyad riyad 4096 आश्विन 12 02:07 Videos

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riyad@tanin-rahman-riyad:~$
riyad@tanin-rahman-riyad:~$ sudo smbpasswd -a riyad
New SMB password:
Retype new SMB password:
riyad@tanin-rahman-riyad:~$
riyad@tanin-rahman-riyad:~$ sudo nano /etc/samba/smb.conf
riyad@tanin-rahman-riyad:~$
riyad@tanin-rahman-riyad:~$ sudo systemctl restart smbd
[sudo] password for riyad:
riyad@tanin-rahman-riyad:~$
riyad@tanin-rahman-riyad:~$ ls -l
total 56
-rw-rw-r-- 1 riyad riyad 0 2023-07-13 04:38 an
drwxr-xr-x 3 riyad riyad 4096 2023-07-12 01:09 Android
drwxr-xr-x 5 riyad riyad 4096 2023-07-13 03:57 Desktop
drwxr-xr-x 2 riyad riyad 4096 2023-07-12 02:07 Documents
drwx----- 6 riyad riyad 4096 2023-07-12 19:53 Downloads
-rw-rw-r-- 1 riyad riyad 0 2023-07-7 21:38 file.sh
drwxr-xr-x 3 riyad riyad 4096 2023-07-24 21:56 Music
-rw-rw-r-- 1 riyad riyad 0 2023-07-7 21:38 new
-rw-rw-r-- 1 riyad riyad 0 2023-07-7 21:48 new_file1
drwxr-xr-x 3 riyad riyad 4096 2023-07-10 15:51 Pictures
drwxr-xr-x 2 riyad riyad 4096 2023-07-12 02:07 Public
drwxr-xr-x 2 riyad riyad 4096 2023-07-29 21:52 riyad
-rw-rw-r-- 1 riyad riyad 0 2023-07-13 04:38 Riyad
drwxr-xr-x 2 riyad riyad 4096 2023-07-15 13:18 riyad_folder
-rwx----- 1 riyad riyad 123 2023-07-6 17:18 riyad.sh
drwx----- 10 riyad riyad 4096 2023-07-1 00:06 snap
-rw-rw-r-- 1 riyad riyad 100 2023-07-10 15:58 star.sh
drwxr-xr-x 2 riyad riyad 4096 2023-07-12 02:07 Templates
drwxr-xr-x 2 riyad riyad 4096 2023-07-13 03:07 videos

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riyad@tanin-rahman-riyad:~$
riyad@tanin-rahman-riyad:~$
riyad@tanin-rahman-riyad:~$ la riyad_folder/
192-15-13231.pdf
riyad@tanin-rahman-riyad:~$ touch tanin.txt
riyad@tanin-rahman-riyad:~$ ls riyad_folder
192-15-13231.pdf
riyad@tanin-rahman-riyad:~$ touch riyad_folder/riyad.txt
riyad@tanin-rahman-riyad:~$ nano riyad_folder
riyad@tanin-rahman-riyad:~$ sudo nano /etc/samba/smb.conf
[sudo] password for riyad:
Sorry, try again.
[sudo] password for riyad:
sudo: nano/etc/samba/smb.conf: command not found
riyad@tanin-rahman-riyad:~$ sudo nano /etc/samba/smb.conf
riyad@tanin-rahman-riyad:~$ ls riyad_folder
192-15-13231.pdf  riyad.txt  'week 6.pdf'
riyad@tanin-rahman-riyad:~$ touch riyad_folder/tanin.txt
riyad@tanin-rahman-riyad:~$
riyad@tanin-rahman-riyad:~$
riyad@tanin-rahman-riyad:~$
riyad@tanin-rahman-riyad:~$

```

```

drwxr-xr-x 2 riyad riyad 4096 2023-07-12 02:07 videos
riyad@tanin-rahman-riyad:~$ $ lp a
l: lo: <LOOPBACK,UP,LOWER_UP> ntu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
l: wlo1: <BROADCAST,MULTICAST,UP,LOWER_UP> ntu 1500 qdisc noqueue state UP group default qlen 1000
    link/ether 98:2c:bc:0b:97:bc brd ff:ff:ff:ff:ff:ff
    altname wlp4s0
    inet 192.168.0.168/24 brd 192.168.0.255 scope global dynamic noprefixroute wlo1
        valid_lft 604273sec preferred_lft 604273sec
    inet6 fe80::ac25:6528:cda5:7588/64 scope link noprefixroute
        valid_lft forever preferred_lft forever

```