

Date  
22/04/21

Neeraj Appari

Appari

Tor3

## Linux Practical-10

SDS	Page No.
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Aim - Install Samba to share folders or files between windows and linux

### \* Description

Explain Samba - Samba file server enables file sharing across different operating systems over a network. It lets you access your desktop files from a laptop and share files with windows and macOS systems. Samba is open source implementation of server message block (SMB) and common internet file system (CIFS) protocols that provides file and print services between client across various operating system. It has both Windows and Unix system on network. Running on Unix system. It allows windows to share files & printers & it also allows Unix users to access resources shared by windows systems.

### \* Steps - 1) Installing Samba - update all repository

- 2) Install Samba
- 3) Create directory to share and change the permission to 777
- 4) Edit the main configuration file of Samba
- 5) To validate the configuration type command testparm
- 6) Create users to samba access
- 7) Set the samba password for the users we create
- 8) Start the services of samba also enable both services
- 9) Check ip address of server machine
- 10) Client Side - i) Open terminal & ping server ip. If able to ping the server that means it is in network with server ii) Then open file manager > other location > connect to server > smb://10.2.15
- 11) Window Client Side - i) Press window + R then enter cmd And then ping the server to check whether it is in network or not



Linux Server Administration Prac...Ubuntu Gnome 16CentOS-78-64-minimal1 (guestl...+onworks.net/osessionx18/#/client/REVGQVVMVABjAGRIzmF1bHQ=?username=guest01&password=server0101

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Machine View

Terminal

onworks@onworks-Standard-PC-i440FX-PIIX-1996: ~  
[sudo] password for onworks:  
Hit:1 http://de.archive.ubuntu.com/ubuntu xenial InRelease  
Hit:2 http://de.archive.ubuntu.com/ubuntu xenial-updates InRelease  
Hit:3 http://de.archive.ubuntu.com/ubuntu xenial-backports InRelease  
Hit:4 http://security.ubuntu.com/ubuntu xenial-security InRelease  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
395 packages can be upgraded. Run 'apt list --upgradable' to see them.  
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~\$

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Terminal

onworks@onworks-Standard-PC-i440FX-PIIX-1996: ~  
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~\$ sudo apt install samba -y  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following packages were automatically installed and are no longer required:  
linux-headers-4.15.0-45 linux-headers-4.15.0-45-generic  
linux-image-4.15.0-45-generic linux-modules-4.15.0-45-generic  
linux-modules-extra-4.15.0-45-generic  
Use 'sudo apt autoremove' to remove them.  
The following additional packages will be installed:  
attr libat01 libldb1 libsnbclient libwbclient0 python-crypto  
python-dnspython python-ldb python-samba python-tdb samba-common  
samba-common-bin samba-dsdb-modules samba-libs samba-vfs-modules tdb-tools  
Suggested packages:  
python-crypto-dbg python-crypto-doc bind9 bind9utils ctdb ldb-tools ntp  
snbdap-tools winbind heimdal-clients  
The following NEW packages will be installed:  
attr libat01 python-crypto python-dnspython python-ldb python-samba  
python-tdb samba samba-common samba-common-bin samba-dsdb-modules  
samba-vfs-modules tdb-tools  
The following packages will be upgraded:  
libldb1 libsnbclient libwbclient0 samba-libs  
4 upgraded, 13 newly installed, 0 to remove and 391 not upgraded.  
Need to get 9.273 kB of archives.  
After this operation, 26.4 MB of additional disk space will be used.  
Get:1 http://de.archive.ubuntu.com/ubuntu xenial-updates/main i386 samba-libs i386 2:4.3.11+dfsg-0ubu  
ntuo.16.04.34 [5.554 kB]  
Get:2 http://de.archive.ubuntu.com/ubuntu xenial-updates/main i386 libwbclient0 i386 2:4.3.11+dfsg-0u  
buntu.16.04.34 [33,0 kB]  
Get:3 http://de.archive.ubuntu.com/ubuntu xenial-updates/main i386 libsnbclient i386 2:4.3.11+dfsg-0u  
buntu.16.04.34 [57,4 kB]  
Get:4 http://de.archive.ubuntu.com/ubuntu xenial-updates/main i386 libldb1 i386 2:1.1.24-1ubuntu3.2 [1  
18 kB]  
Get:5 http://de.archive.ubuntu.com/ubuntu xenial/main i386 python-dnspython all 1.12.0-1 [85,2 kB]  
Get:6 http://de.archive.ubuntu.com/ubuntu xenial-updates/main i386 python-crypto i386 2.6.1-6ubuntu0.  
16.04.3 [244 kB]  
Get:7 http://de.archive.ubuntu.com/ubuntu xenial-updates/main i386 python-ldb i386 2:1.1.24-1ubuntu3.  
2 [30,6 kB]  
Waiting for securepubads.g.doubleclick.net...

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onworks@onworks-Standard-PC-I440FX-PIIX-1996: ~

Preparing to unpack .../samba-dsdb-modules\_2%3a4.3.11+dfsg-0ubuntu0.16.04.34\_i386.deb ...  
Unpacking samba-dsdb-modules (2:4.3.11+dfsg-0ubuntu0.16.04.34) ...  
Selecting previously unselected package samba-vfs-modules.  
Preparing to unpack .../samba-vfs-modules\_2%3a4.3.11+dfsg-0ubuntu0.16.04.34\_i386.deb ...  
Unpacking samba-vfs-modules (2:4.3.11+dfsg-0ubuntu0.16.04.34) ...  
Processing triggers for libc-bin (2.23-0ubuntu1) ...  
Processing triggers for man-db (2.7.5-1) ...  
Processing triggers for systemd (229-4ubuntu21.21) ...  
Processing triggers for ureadahead (0.100.0-19) ...  
Processing triggers for ufw (0.35-0ubuntu2) ...  
Setting up libldb1:i386 (2:1.1.24-1ubuntu3.2) ...  
Setting up libwbclient0:i386 (2:4.3.11+dfsg-0ubuntu0.16.04.34) ...  
Setting up samba-libs:i386 (2:4.3.11+dfsg-0ubuntu0.16.04.34) ...  
Setting up libsmclient:i386 (2:4.3.11+dfsg-0ubuntu0.16.04.34) ...  
Setting up python-dnspython (1.12.0-1) ...  
Setting up python-crypto (2.6.1-6ubuntu0.16.04.3) ...  
Setting up python-ldb (2:1.1.24-1ubuntu3.2) ...  
Setting up python-tdb (1.3.8-2) ...  
Setting up python-samba (2:4.3.11+dfsg-0ubuntu0.16.04.34) ...  
Setting up samba-common (2:4.3.11+dfsg-0ubuntu0.16.04.34) ...  
Creating config file /etc/samba/smb.conf with new version  
Setting up samba-common-bin (2:4.3.11+dfsg-0ubuntu0.16.04.34) ...  
Setting up tdb-tools (1.3.8-2) ...  
update-alternatives: using /usr/bin/tdbbackup.tdbtools to provide /usr/bin/tdbbackup (tdbbackup) in a  
uto mode  
Setting up samba (2:4.3.11+dfsg-0ubuntu0.16.04.34) ...  
Setting up attr (1:2.4.47-2) ...  
Setting up libaio1:i386 (0.3.110-2) ...  
Setting up samba-dsdb-modules (2:4.3.11+dfsg-0ubuntu0.16.04.34) ...  
Setting up samba-vfs-modules (2:4.3.11+dfsg-0ubuntu0.16.04.34) ...  
Processing triggers for libc-bin (2.23-0ubuntu1) ...  
Processing triggers for systemd (229-4ubuntu21.21) ...  
Processing triggers for ureadahead (0.100.0-19) ...  
Processing triggers for ufw (0.35-0ubuntu2) ...  
onworks@onworks-Standard-PC-I440FX-PIIX-1996:~\$ sudo mkdir /share  
onworks@onworks-Standard-PC-I440FX-PIIX-1996:~\$ sudo chmod 777 /share  
onworks@onworks-Standard-PC-I440FX-PIIX-1996:~\$

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Terminal

onworks@onworks-Standard-PC-I440FX-PIIX-1996: ~

GNU nano 2.5.3 File: /etc/samba/smb.conf

# Sample configuration file for the Samba suite for Debian GNU/Linux.

#

# This is the main Samba configuration file. You should read the

# smb.conf(5) manual page in order to understand the options listed

# here. Samba has a huge number of configurable options most of which

# are not shown in this example

#

# Some options that are often worth tuning have been included as

# commented-out examples in this file.

# - When such options are commented with ";", the proposed setting

# differs from the default Samba behaviour

# - When commented with "#", the proposed setting is the default

# behaviour of Samba but the option is considered important

# enough to be mentioned here

#

# NOTE: Whenever you modify this file you should run the command

# "testparm" to check that you have not made any basic syntactic

# errors.

#===== Global Settings =====

[global]

## Browsing/Identification ##

# Change this to the workgroup/NT-domain name your Samba server will part of

workgroup = WORKGROUP

# server string is the equivalent of the NT Description field

server string = %h server (Samba, Ubuntu)

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Terminal

onworks@onworks-Standard-PC-I440FX-PIIX-1996: ~

GNU nano 2.5.3 File: /etc/samba/smb.conf Modified

```
browseable = no
path = /var/spool/samba
printable = yes
guest ok = no
read only = yes
create mask = 0700

# Windows clients look for this share name as a source of downloadable
# printer drivers
[print$]
comment = Printer Drivers
path = /var/lib/samba/printers
browseable = yes
read only = yes
guest ok = no
# Uncomment to allow remote administration of Windows print drivers.
# You may need to replace 'lpadmin' with the name of the group your
# admin users are members of.
# Please note that you also need to set appropriate Unix permissions
# to the drivers directory for these users to have write rights in it
; write list = root, @lpadmin

[my samba-share]
path = /share
public = no
valid users = tom, harry
read list = tom
write list = jerry
browseable = yes
comment = "My Samba File Server"
```

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Terminal

onworks@onworks-Standard-PC-I440FX-PIIX-1996: ~

# Global parameters  
[global]  
server string = %h server (Samba, Ubuntu)  
server role = standalone server  
map to guest = Bad User  
obey pam restrictions = Yes  
pam password change = Yes  
passwd program = /usr/bin/passwd %u  
passwd chat = \*Enter\snew\s\*\spassword:\* %n\n \*Retype\snew\s\*\spassword:\* %n\n \*password\supd  
ated\ssuccessfully\*  
unix password sync = Yes  
syslog = 0  
log file = /var/log/samba/log.%n  
max log size = 1000  
dns proxy = No  
usershare allow guests = Yes  
panic action = /usr/share/samba/panic-action %d  
idmap config \* : backend = tdb  
  
[printers]  
comment = All Printers  
path = /var/spool/samba  
create mask = 0700  
printable = Yes  
browseable = No  
  
[print\$]  
comment = Printer Drivers  
path = /var/lib/samba/printers  
  
[my\_samba\_share]  
comment = "My Samba File Server"  
path = /share  
valid users = tom harry  
read list = tom

Type here to search

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```
onworks@onworks-Standard-PC-I440FX-PIIX-1996: ~
log file = /var/log/samba/log.%m
max log size = 1000
dns proxy = No
usershare allow guests = Yes
panic action = /usr/share/samba/panic-action %d
idmap config * : backend = tdb

[printers]
comment = All Printers
path = /var/spool/samba
create mask = 0700
printable = Yes
browseable = No

[print$]
comment = Printer Drivers
path = /var/lib/samba/printers

[my samba-share]
comment = "My Samba File Server"
path = /share
valid users = tom harry
read list = tom
write list = jerry

onworks@onworks-Standard-PC-I440FX-PIIX-1996:~$ sudo useradd tom -s /sbin/nologin
onworks@onworks-Standard-PC-I440FX-PIIX-1996:~$ sudo useradd jerry -s /sbin/nologin
onworks@onworks-Standard-PC-I440FX-PIIX-1996:~$ sudo smbpasswd -a tom
New SMB password:
Retype new SMB password:
Added user tom.
onworks@onworks-Standard-PC-I440FX-PIIX-1996:~$ sudo smbpasswd -a jerry
New SMB password:
Retype new SMB password:
Added user jerry.
onworks@onworks-Standard-PC-I440FX-PIIX-1996:~$
```



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Terminal

onworks@onworks-Standard-PC-i440FX-PIIX-1996: ~

comment = All Printers  
path = /var/spool/samba  
create mask = 0700  
printable = Yes  
browseable = No

[print\$]  
comment = Printer Drivers  
path = /var/lib/samba/printers

[my.samba-share]  
comment = "My Samba File Server"  
path = /share  
valid users = tom harry  
read list = tom  
write list = jerry

onworks@onworks-Standard-PC-i440FX-PIIX-1996:~\$ sudo useradd tom -s /sbin/nologin  
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~\$ sudo useradd jerry -s /sbin/nologin  
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~\$ sudo smbpasswd -a tom  
New SMB password:  
Retype new SMB password:  
Added user tom.  
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~\$ sudo smbpasswd -a jerry  
New SMB password:  
Retype new SMB password:  
Added user jerry.  
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~\$ sudo systemctl start smb  
sudo: systemctl: command not found  
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~\$ sudo systemctl start smb  
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~\$ sudo systemctl start nmbd  
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~\$ sudo systemctl enable smb nmbd  
smbd.service is not a native service, redirecting to systemd-sysv-install  
Executing /lib/systemd/systemd-sysv-install enable smb  
nmbd.service is not a native service, redirecting to systemd-sysv-install  
Executing /lib/systemd/systemd-sysv-install enable nmbd  
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~\$

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Machine View

Terminal

onworks@onworks-Standard-PC-l440FX-PIIX-1996: ~  
write list = jerry  
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~\$ sudo useradd tom -s /sbin/nologin  
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~\$ sudo useradd jerry -s /sbin/nologin  
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~\$ sudo smbpasswd -a tom  
New SMB password:  
Retype new SMB password:  
Added user tom.  
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~\$ sudo smbpasswd -a jerry  
New SMB password:  
Retype new SMB password:  
Added user jerry.  
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~\$ sudo systemctl start smb  
sudo: systemctl: command not found  
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~\$ sudo systemctl start nmbd  
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~\$ sudo systemctl enable nmbd  
nmbd.service is not a native service, redirecting to systemd-sysv-install  
Executing /lib/systemd/systemd-sysv-install enable nmbd  
nmbd.service is not a native service, redirecting to systemd-sysv-install  
Executing /lib/systemd/systemd-sysv-install enable nmbd  
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~\$ ip a  
1: lo: <LOOPBACK,UP,LOWER\_UP> mtu 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  
2: ens3: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc pfifo\_fast state UP group default qlen 1000  
link/ether 52:54:00:12:34:56 brd ff:ff:ff:ff:ff:ff  
inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic ens3  
valid\_lft 84782sec preferred\_lft 84782sec  
inet6 fec0::794a:6ae2:1411:54a5/64 scope site temporary dynamic  
valid\_lft 86003sec preferred\_lft 14003sec  
inet6 fec0::e319:1b8b:5ce5:c3e1/64 scope site mngtnpaddr noprefixroute dynamic  
valid\_lft 86003sec preferred\_lft 14003sec  
inet6 fe80::ae8:44ad:baf7:10fd/64 scope link  
valid\_lft forever preferred\_lft forever  
onworks@onworks-Standard-PC-l440FX-PIIX-1996:~\$

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onworks@onworks-Standard-PC-I440FX-PIIX-1996: ~

nmbd.service is not a native service, redirecting to systemd-sysv-install

Executing /lib/systemd/systemd-sysv-install enable nmbd

onworks@onworks-Standard-PC-I440FX-PIIX-1996:~\$ ip a

1: lo: <LOOPBACK,UP,LOWER\_UP> mtu 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

2: ens3: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc pfifo\_fast state UP group default qlen 1000

link/ether 52:54:00:12:34:56 brd ff:ff:ff:ff:ff:ff

inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic ens3

valid\_lft 84782sec preferred\_lft 84782sec

inet6 fe80::794a:6ae2:1411:54a5/64 scope site temporary dynamic

valid\_lft 86003sec preferred\_lft 14003sec

inet6 fe80::e319:1b8b:5ce5:c3e1/64 scope site mngtnpaddr noprefixroute dynamic

valid\_lft 86003sec preferred\_lft 14003sec

inet6 fe80::ae8:44ad:baf7:10fd/64 scope link

valid\_lft forever preferred\_lft forever

onworks@onworks-Standard-PC-I440FX-PIIX-1996:~\$ ping 10.0.2.15

PING 10.0.2.15 (10.0.2.15) 56(84) bytes of data:

64 bytes from 10.0.2.15: icmp\_seq=1 ttl=64 time=0.016 ms

64 bytes from 10.0.2.15: icmp\_seq=2 ttl=64 time=0.037 ms

64 bytes from 10.0.2.15: icmp\_seq=3 ttl=64 time=0.027 ms

64 bytes from 10.0.2.15: icmp\_seq=4 ttl=64 time=0.022 ms

64 bytes from 10.0.2.15: icmp\_seq=5 ttl=64 time=0.027 ms

64 bytes from 10.0.2.15: icmp\_seq=6 ttl=64 time=0.025 ms

64 bytes from 10.0.2.15: icmp\_seq=7 ttl=64 time=0.032 ms

64 bytes from 10.0.2.15: icmp\_seq=8 ttl=64 time=0.025 ms

64 bytes from 10.0.2.15: icmp\_seq=9 ttl=64 time=0.025 ms

64 bytes from 10.0.2.15: icmp\_seq=10 ttl=64 time=0.036 ms

64 bytes from 10.0.2.15: icmp\_seq=11 ttl=64 time=0.028 ms

64 bytes from 10.0.2.15: icmp\_seq=12 ttl=64 time=0.042 ms

64 bytes from 10.0.2.15: icmp\_seq=13 ttl=64 time=0.025 ms

64 bytes from 10.0.2.15: icmp\_seq=14 ttl=64 time=0.033 ms

64 bytes from 10.0.2.15: icmp\_seq=15 ttl=64 time=0.032 ms

64 bytes from 10.0.2.15: icmp\_seq=16 ttl=64 time=0.026 ms

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