

- How to configure a file share server using samba
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 - Finally check to see if the server is configured correctly
 - Congratulations you have now learned how to create a file server using samba on Linux
 - Work Cited

How to configure a file share server using samba

Installation

- First you are going to need to install samba on your linux system.
- This command shows you how to install samba on your linux system

```
arlind@linux:~$ sudo apt install samba
Reading package lists... Done
Building dependency tree
Reading state information... Done
Suggested packages:
  bind9 bind9utils ctdb ldb-tools ntp | chrony smbldap-tools winbind
The following NEW packages will be installed:
  samba
0 upgraded, 1 newly installed, 0 to remove and 3 not upgraded.
Need to get 0 B/1,066 kB of archives.
After this operation, 17.1 MB of additional disk space will be used.
Selecting previously unselected package samba.
(Reading database ... 263455 files and directories currently installed.)
Preparing to unpack .../samba_2%3a4.13.14+dfsg-0ubuntu0.20.04.4_amd64.deb ...
Unpacking samba (2:4.13.14+dfsg-0ubuntu0.20.04.4) ...
Setting up samba (2:4.13.14+dfsg-0ubuntu0.20.04.4) ...
Samba is not being run as an AD Domain Controller: Masking samba-ad-dc.service
Please ignore the following error about deb-systemd-helper not finding those services.
(samba-ad-dc.service already masked)
Failed to preset unit: Unit file /etc/systemd/system/samba-ad-dc.service is masked.
/usr/bin/deb-systemd-helper: error: systemctl preset failed on samba-ad-dc.service: No such file or d
irectory
samba-ad-dc.service is a disabled or a static unit not running, not starting it.
Processing triggers for ufw (0.36-6ubuntu1) ...
Processing triggers for systemd (245.4-4ubuntu3.13) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
arlind@linux:~$
```

Configuration

Edit the smb.conf file

- First you are going to have to edit the smb.conf file in order to start setting up your file share server
- This command shows you how to enter the file to edit

```
arlind@linux:~$ sudo nano /etc/samba/smb.conf
[sudo] password for arlind:
arlind@linux:~$
```

- First make sure you have a workgroup assigned in order for it to be accessible for you home network

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

- Then you are going to need to create a section at the end of the file fo be able to share the directory
- Comment- A short description of the share. Adjust to fit your needs.
- Path- The path to the directory you are sharing
- Browseable- Enables Windows clients to browse the shared directory using windows explorer
- Guest ok- Allows clients to connect to the share folder without supplying a password
- Read-only- Determines if the share is read only or if write privileges are granted. Write privileges are allowed only when the value is no. If the value is set to yes, then access to the share is read only.
- Create mask- Determines the permissions new files will have when they are created.

```
[Share]  
comment = Ubuntu File Server Share  
path = /srv/samba/share  
browseable = yes  
guest ok = yes  
read only = no  
create mask = 0777  
█
```

Create the directory tree

- Then you are going to have to create the directory and/or directory tree and the permission changed
- These two commands shows you how to create the directory and change the permissions

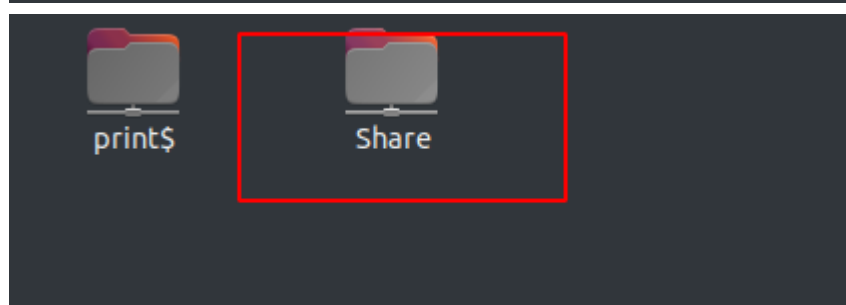
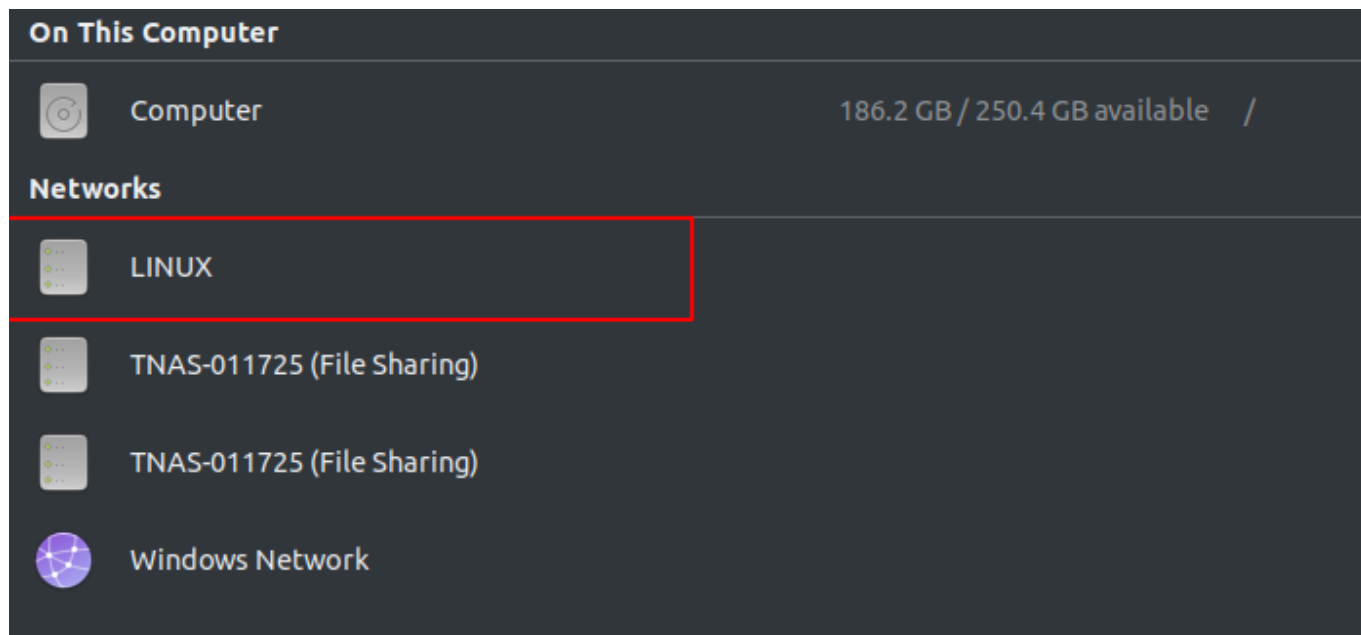
```
arlind@linux:~$ sudo mkdir -p /srv/samba/share/  
arlind@linux:~$ sudo chown nobody:nogroup /srv/samba/share/  
arlind@linux:~$ █
```

Restart Samba

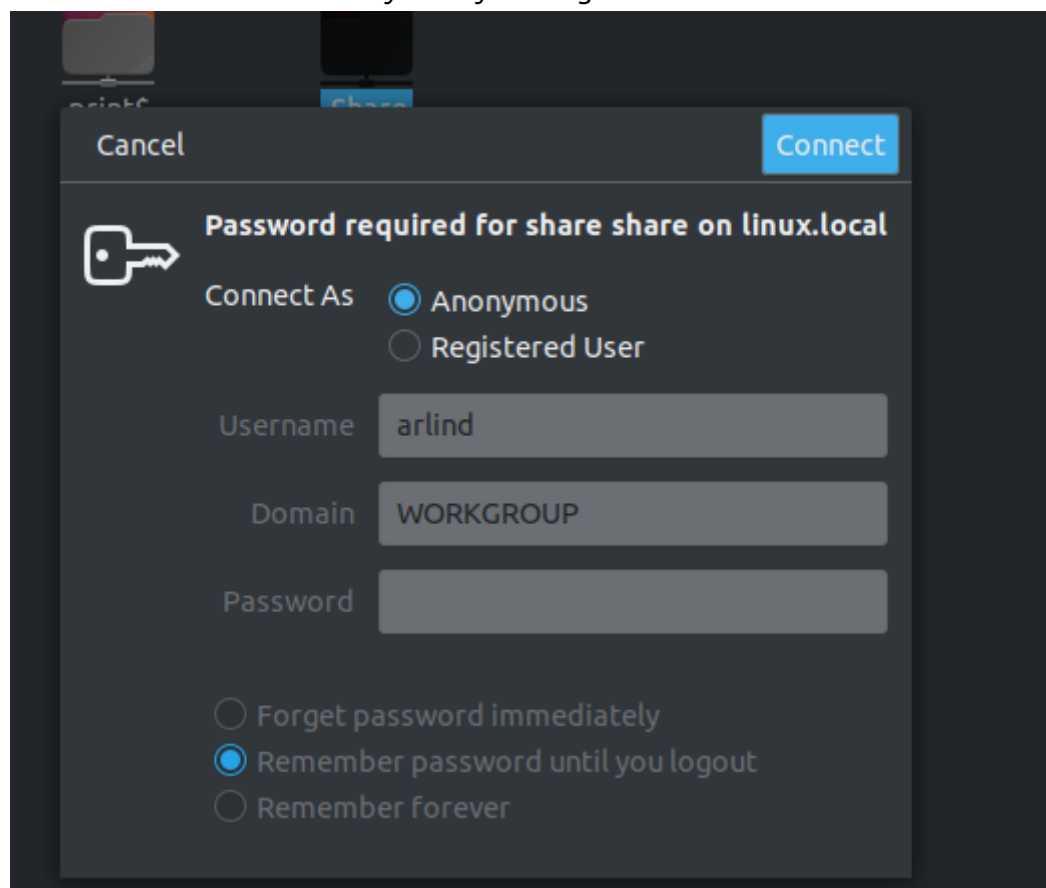
- Finally you will have to restart samba for all the changes to take effect
- This command show you how to restart samba

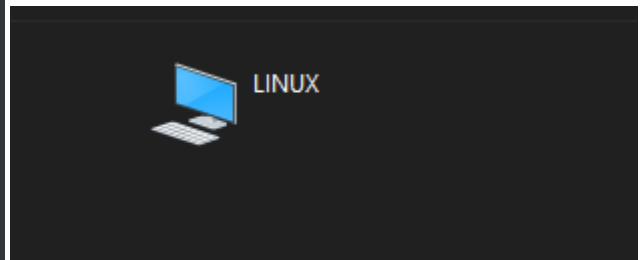
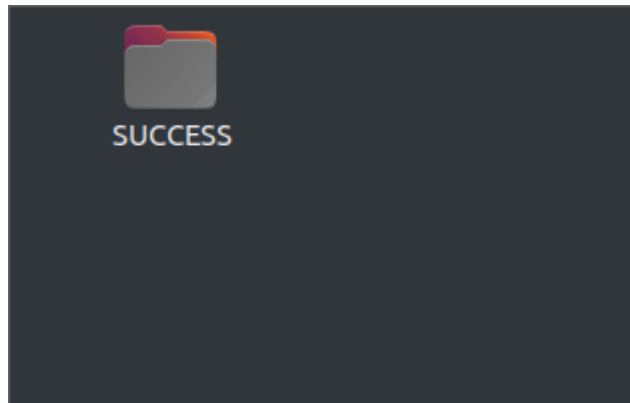
```
arlind@linux:~$ sudo systemctl restart smbd.service nmbd.service  
arlind@linux:~$ █
```

Finally check to see if the server is configured correctly



- You can choose to enter anonymously or a registered user





Congratulations you have now learned how to create a file server using samba on Linux

Work Cited

"Linux Samba File Server Setup Checklist." Process Street, 7 Feb. 2018, <https://www.process.st/checklist/linux-samba-file-server-setup-checklist/>.

"Samba - File Server." Ubuntu, <https://ubuntu.com/server/docs/samba-file-server>.