Expt. No.	Name : Piyush Pandurang Burate Class : IYCS Roll No.: 523
9	Title of Experiment : Samba Server.
Date	Sub titles : Assignment/ Problem Solution, Flow chart/Algorithm, Problem Listing, Input Screen, Output Screen, Comments (If any)
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Aim :- Install Samba to share folders or files between Windows and Linux.

Theory :-

- SAMBA as a file server
  - One of the most common ways to network Ubuntu and Windows computers is to configure Samba as a file server. It can be set up to share files with Windows clients.

- SAMBA installation and configuration.

Step 1 : Install the samba package.
=> $ sudo apt install samba

Step 2 : Configure samba server
  - The main Samba configuration file is located in /etc/samba/smb.conf. The default configuration file contains a significant number of comments, which document various configuration directives.

Remark

Signature

- First edit the workgroup parameter in the [global] section of /etc/samba/smb.conf and change it to better match your enviroment:

      workgroup = EXAMPLE

- Create a new section at the bottom of the file, or uncomment one of the examples, for the directory you want to share:
  » [share]
    »   comment = Ubuntu File Server Share
    »   path = /srv/samba/share
    »   browseable = yes
    »   guest ok = yes
    »   read only = no
    »   create mask = 0755

Step 3:
- Create the directory
  ⇒ $ sudo mkdir /srv/samba/share

Step 4: Enable the new configuration

  ⇒ $ sudo systemctl restart smbd

For a windows client you would now able to browse to the Ubuntu File server and see the shared directory. IF your client doesn't show your share automatically, try to access your server by its IP address, e.g. e.g. \\192.168.1.1, in a Windows Explorer window

Samba

root@srv:~# sudo apt-get update

Hit:1 http://in.archive.ubuntu.com/ubuntu xenial InRelease

Hit:2 http://in.archive.ubuntu.com/ubuntu xenial-updates InRelease

Hit:3 http://security.ubuntu.com/ubuntu xenial-security InRelease

Hit:4 http://in.archive.ubuntu.com/ubuntu xenial-backports InRelease

Reading package lists... Done

root@srv:~# ifconfig

enp0s3   Link encap:Ethernet HWaddr 08:00:27:5d:b2:2e

          inet addr:10.0.2.15 Bcast:10.0.2.255 Mask:255.255.255.0

          inet6 addr: fe80::4e08:3ec5:8bd5:9fb6/64 Scope:Link

....

          collisions:0 txqueuelen:1000

          RX bytes:15273 (15.2 KB) TX bytes:15273 (15.2 KB)

root@srv:~# hostname

srv.world

root@srv:~# apt-get -y install samba

Reading package lists... Done

Building dependency tree

....

Processing triggers for ureadahead (0.100.0-19) ...

Processing triggers for ufw (0.35-0ubuntu2) ...

root@srv:~# mkdir /home/share

mkdir: cannot create directory '/home/share': File exists

root@srv:~# ls

Desktop Documents Downloads Music Pictures Public Templates Videos

root@srv:~# pwd

/root

root@srv:~# cd /home

root@srv:/home# ls

abc dbjcollege lost+found share ubuntu

root@srv:/home# cd ..

root@srv:/# pwd

/

root@srv:/# cd root/

root@srv:~# chmod 777 /home/share

root@srv:~# sudo nano /etc/samba/smb.conf

root@srv:~# systemctl restart smbd