Compte Rendu TP : Configuration de Samba + Unix

1. Introduction

Ce compte rendu présente les étapes de configuration d'un partage de fichiers à l'aide de Samba sur un système Unix/Linux. L'objectif est de permettre l'accès aux fichiers partagés à partir d'autres machines, notamment sous Linux.

2. Prérequis

- Un système Unix/Linux installé (ex : Ubuntu)

- Droits administrateur (sudo)

- Accès à Internet pour l'installation des paquets

3. Installation de Samba

Commande pour installer Samba :

sudo apt install samba

```
unix@ubuntu:~$ sudo apt update
[sudo] password for unix:
Hit:1 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:2 http://us.archive.ubuntu.com/ubuntu focal InRelease
Hit:3 http://us.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:4 http://us.archive.ubuntu.com/ubuntu focal-backports InRelease
Reading package lists... Done
Building dependency tree
Reading state information... Done
All packages are up to date.
unix@ubuntu:~$ sudo apt upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
Calculating upgrade... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
unix@ubuntu:~$ sudo apt install samba -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
```

Vérification du statut du service Samba:

sudo systemctl status smbd

```
unix@unix-VirtualBox:~$ sudo systemctl status smbd
● smbd.service - Samba SMB Daemon
     Loaded: loaded (/lib/systemd/system/smbd.service; enabled; vendor preset:>
     Active: active (running) since Tue 2025-04-29 20:50:13 CET; 38s ago
       Docs: man:smbd(8)
             man:samba(7)
             man:smb.conf(5)
   Main PID: 14300 (smbd)
     Status: "smbd: ready to serve connections..."
      Tasks: 4 (limit: 2244)
     Memory: 16.3M
     CGroup: /system.slice/smbd.service
             ├─14300 /usr/sbin/smbd --foreground --no-process-group
             ├─14302 /usr/sbin/smbd --foreground --no-process-group
             ├─14303 /usr/sbin/smbd --foreground --no-process-group
             └─14304 /usr/lib/x86_64-linux-gnu/samba/samba-bgqd --ready-signal>

20:50:12 29 أفر ل  unix-VirtualBox systemd[1]: Starting Samba SMB Daemon...
20:50:12 29 أفر ل  unix-VirtualBox update-apparmor-samba-profile[14294]: grep: >
20:50:12 29 أفر ل  unix-VirtualBox update-apparmor-samba-profile[14297]: diff: >
20:50:13 29 أفر ل  unix-VirtualBox systemd[1]: Started Samba SMB Daemon.
lines 1-20/20 (END)
```

4. Configuration du Partage

Création d'un dossier public à partager :

sudo mkdir -p /srv/samba/partage
sudo chmod 777 /srv/samba/partage

```
unix@unix-VirtualBox:~$ sudo mkdir -p /srv/samba/partage
unix@unix-VirtualBox:~$ sudo chmod 777 /srv/samba/partage
```

Modification du fichier de configuration :

sudo nano /etc/samba/smb.conf

```
  GNU nano 4.8                    /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
[partage]
path= /srv/samba/partage
read only = no
guest ok = yes
```

Redémarrer Samba pour appliquer la configuration :

> *sudo systemctl restart smbd*

5. Partie Client Linux

Installation de smbclient :

> *sudo apt update*
> *sudo apt install smbclient*

```
unix@unix-VirtualBox:~$ sudo apt install smbclient
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  linux-headers-5.15.0-67-generic linux-hwe-5.15-headers-5.15.0-67
  linux-image-5.15.0-67-generic linux-modules-5.15.0-67-generic
  linux-modules-extra-5.15.0-67-generic
```

Connexion au partage en mode invité :

> *smbclient //IP_SERVEUR/partage -U guest*

```
unix@unix-VirtualBox:~$ smbclient //10.0.2.15/partage -N
Try "help" to get a list of possible commands.
smb: \> ls
  .                                   D        0  Tue Apr 29 20:51:58 2025
  ..                                  D        0  Tue Apr 29 20:51:58 2025

              25107716 blocks of size 1024. 13554004 blocks available
smb: \>
```

6. Partage Protégé par Mot de Passe

Création d'un utilisateur Samba :

sudo adduser sambauser
sudo smbpasswd -a sambauser

```
unix@unix-VirtualBox:~$ sudo adduser wassim
Adding user `wassim' ...
Adding new group `wassim' (1001) ...
Adding new user `wassim' (1001) with group `wassim' ...
Creating home directory `/home/wassim' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for wassim
Enter the new value, or press ENTER for the default
        Full Name []: wassim
        Room Number []: karouia
        Work Phone []: 23607384
        Home Phone []:
        Other []:
Is the information correct? [Y/n] y
unix@unix-VirtualBox:~$
```

```
unix@unix-VirtualBox:~$ sudo smbpasswd -a wassim
New SMB password:
Retype new SMB password:
Added user wassim.
```

Creation d'un dossier Privé:

sudo mkdir -p /srv/samba/prive
sudo chown sambauser:sambauser /srv/samba/prive
sudo chmod -R 777 /srv/samba/prive

```
unix@unix-VirtualBox:~$ sudo mkdir -p /srv/samba/privet
unix@unix-VirtualBox:~$ sudo chown wassim:wassim /srv/samba/privet
unix@unix-VirtualBox:~$ sudo chmod -R 777 /srv/samba/privet
```

Ajouter la configuration correspondante dans smb.conf.

```
[privet]
path= /srv/samba/privet
valid users = wassim
read only = no
```

7. Vérification

Créer un fichier depuis le client et vérifier sa présence sur le serveur.

```
unix@unix-VirtualBox:~$ sudo mkdir -p /srv/samba/privet
unix@unix-VirtualBox:~$ sudo chown wassim:wassim /srv/samba/privet
unix@unix-VirtualBox:~$ sudo chmod -R 777 /srv/samba/privet
```

```
unix@unix-VirtualBox:~$ echo  " hello wassim " > test.txt
unix@unix-VirtualBox:~$ smbclient //192.168.1.2/privet -U wassim
Password for [WORKGROUP\wassim]:
Try "help" to get a list of possible commands.
smb: \> put test.txt
putting file test.txt as \test.txt (3.7 kb/s) (average 3.7 kb/s)
smb: \> ls
  .                                   D        0  Tue Apr 29 21:08:33 2025
  ..                                  D        0  Tue Apr 29 21:03:24 2025
  test.txt                            A       15  Tue Apr 29 21:08:33 2025

                25107716 blocks of size 1024. 13553960 blocks available
smb: \>
```

```
unix@unix-VirtualBox:~$ ls /srv/samba/privet
test.txt
unix@unix-VirtualBox:~$ cd /srv/samba/privet
unix@unix-VirtualBox:/srv/samba/privet$ cat test.txt
 hello wassim
```

8. Conclusion

Ce TP a permis de comprendre la mise en place d'un partage de fichiers avec Samba et de tester le fonctionnement côté client Linux avec et sans authentification.