

**Objetivo:**

- Instalar *server1.example.com* como Samba-Server.
  - ↘ Parámetros de conexión:
  - 192.168.1.150 *server1.example.com* *server1*
  - 192.168.1.151 *station1.example.com* *station1*
- Compartir el directorio */samba-shares* (*server1*) de forma colaborativa para los usuarios: *sambauser1* y *sambauser2* pertenecientes al grupo *sambagroup* y montar de forma temporal en */mnt/samba-shares* Samba-Client (*station1*).
- Utilizar un fichero de credenciales para el usuario → *sambauser1*, password → *passwd123*
- Desmontar y realizar un montaje autofs indirecto en: */mnt/autosamba* (*station1*).

+++++

(Tiempo máximo estimado → 20 minutos)...

+++++

↘ [server1](#)

```
[root@server1 ~]# yum install samba
```

```
[root@server1 ~]# groupadd sambagroup
[root@server1 ~]# for ((i=1;i<=2;i++)) ; do useradd -G sambagroup -s /sbin/nologin -p "passwd123" sambauser$i ; done
```

```
[root@server1 ~]# mkdir -p -m 2770 /samba-shares
[root@server1 ~]# chown -R :sambagroup /samba-shares/
```

```
[root@server1 ~]# getsebool -a | grep samba_export
samba_export_all_ro --> off
samba_export_all_rw --> off
```

```
[root@server1 ~]# setsebool -P samba_export_all_rw on
[root@server1 ~]# getsebool -a | grep samba_export
samba_export_all_ro --> off
samba_export_all_rw --> on
```

```
[root@server1 ~]# cp /etc/samba/smb.conf /etc/samba/smb.conf.original
[root@server1 ~]# cat /etc/samba/smb.conf.example |grep chcon
# chcon command to temporarily change a label:
# chcon -t samba_share_t /path/to/directory
# Changes made via chcon are lost when the file system is relabeled or commands
```

```
[root@server1 ~]# ls -Zd /samba-shares/
drwxrws---. root sambagroup unconfined_u:object_r:default_t:s0 /samba-shares/
```

```
[root@server1 ~]# yum provides */semanage
```

...

```
policycoreutils-python-2.5-17.1.el7.x86_64 : SELinux policy core python utilities
Repositorio      : base
```



Resultado obtenido desde:

Nombre del archivo : /usr/sbin/semanage

Nombre del archivo : /usr/share/bash-completion/completions/semanage

...

```
[root@server1 ~]# yum install policycoreutils-python
```

```
[root@server1 ~]# semanage fcontext -l | grep samba
```

```
/var/nmbd(/.*)?          all files      system_u:object_r:samba_var_t:s0
```

```
/etc/samba(/.*)?        all files      system_u:object_r:samba_etc_t:s0
```

...

```
[root@server1 ~]# semanage fcontext -a -t samba_share_t '/samba-shares(/.*)?'
```

```
[root@server1 ~]# restorecon -RFvv /samba-shares/
```

```
restorecon reset /samba-shares context unconfined_u:object_r:default_t:s0-
```

```
>system_u:object_r:samba_share_t:s0
```

```
[root@server1 ~]# ls -dZ /samba-shares/
```

```
drwxrws---. root sambagroup system_u:object_r:samba_share_t:s0 /samba-shares/
```

```
[root@server1 ~]# vim /etc/samba/smb.conf
```

```
[global]
```

```
workgroup = SAMBA
```

```
security = user
```

```
passdb backend = tdbsam
```

```
[samba-shares]
```

```
comment = Comparticiones Colaborativas Samba
```

```
path = /samba-shares
```

```
browseable = yes
```

```
writable = yes
```

```
valid users = @sambagroup
```

```
[root@server1 ~]# testparm
```

```
Load smb config files from /etc/samba/smb.conf
```

```
rlimit_max: increasing rlimit_max (1024) to minimum Windows limit (16384)
```

```
Processing section "[samba-shares]"
```

```
Loaded services file OK.
```

```
Server role: ROLE_STANDALONE
```

Press enter to see a dump of your service definitions

```
# Global parameters
```

```
[global]
```

```
workgroup = SAMBA
```

```
security = USER
```

```
idmap config * : backend = tdb
```

```
[samba-shares]
```

```
comment = Comparticiones Colaborativas Samba
```



```
path = /samba-shares
read only = No
valid users = @sambagroup
```

```
[root@server1 ~]# firewall-cmd --permanent --add-service=samba
```

```
success
```

```
[root@server1 ~]# firewall-cmd --reload
```

```
success
```

```
[root@server1 ~]# firewall-cmd --list-services
```

```
ssh dhcpv6-client samba
```

```
[root@server1 ~]# systemctl enable smb.service nmb.service
```

```
Created symlink from /etc/systemd/system/multi-user.target.wants/smb.service to
/usr/lib/systemd/system/smb.service.
```

```
Created symlink from /etc/systemd/system/multi-user.target.wants/nmb.service to
/usr/lib/systemd/system/nmb.service.
```

```
[root@server1 ~]# systemctl start smb.service nmb.service
```

```
[root@server1 ~]# smbpasswd -a sambauser1
```

```
New SMB password:
```

```
Retype new SMB password:
```

```
Added user sambauser1.
```

```
[root@server1 ~]# smbpasswd -a sambauser2
```

```
New SMB password:
```

```
Retype new SMB password:
```

```
Added user sambauser2.
```

```
[root@server1 ~]# pdbedit -L -v
```

```
-----
Unix username:      sambauser1
NT username:
Account Flags:      [U      ]
User SID:           S-1-5-21-527522851-38570810-2665569391-1000
Primary Group SID:  S-1-5-21-527522851-38570810-2665569391-513
Full Name:
Home Directory:    \\server1\sambauser1
HomeDir Drive:
Logon Script:
Profile Path:      \\server1\sambauser1\profile
Domain:           SERVER1
Account desc:
Workstations:
Munged dial:
Logon time:        0
Logoff time:       mié, 06 feb 2036 16:06:39 CET
Kickoff time:      mié, 06 feb 2036 16:06:39 CET
Password last set: vie, 04 may 2018 11:58:34 CEST
```



```

Password can change: vie, 04 may 2018 11:58:34 CEST
Password must change: never
Last bad password : 0
Bad password count : 0
Logon hours      : FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
-----
Unix username:   sambauser2
NT username:
Account Flags:   [U      ]
User SID:        S-1-5-21-527522851-38570810-2665569391-1001
Primary Group SID: S-1-5-21-527522851-38570810-2665569391-513
Full Name:
Home Directory:  \\server1\sambauser2
HomeDir Drive:
Logon Script:
Profile Path:    \\server1\sambauser2\profile
Domain:          SERVER1
Account desc:
Workstations:
Munged dial:
Logon time:      0
Logoff time:     mié, 06 feb 2036 16:06:39 CET
Kickoff time:    mié, 06 feb 2036 16:06:39 CET
Password last set: vie, 04 may 2018 11:58:50 CEST
Password can change: vie, 04 may 2018 11:58:50 CEST
Password must change: never
Last bad password : 0
Bad password count : 0
Logon hours      : FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

```

**[root@server1 ~]# yum provides \*/smbclient**

```

...
samba-client-4.6.2-12.el7_4.x86_64 : Samba client programs
Repositorio      : updates
Resultado obtenido desde:
Nombre del archivo : /usr/bin/smbclient

```

**[root@server1 ~]# yum install samba-client**

**[root@server1 ~]# smbclient -L //localhost**

```

Enter SAMBA\root's password:
Anonymous login successful
OS=[Windows 6.1] Server=[Samba 4.6.2]

```

Sharename	Type	Comment
<b>samba-shares</b>	<b>Disk</b>	<b>Comparticiones Colaborativas Samba</b>
IPC\$	IPC	IPC Service (Samba 4.6.2)



```
Anonymous login successful
OS=[Windows 6.1] Server=[Samba 4.6.2]
```

```

Server          Comment
-----
Workgroup       Master
-----
SAMBA           SERVER1
```

```
[root@server1 ~]# touch /samba-shares/test-server1.txt
```

```
[root@server1 ~]# ls -alZ /samba-shares/
```

```
drwxrws---. root sambagroup system_u:object_r:samba_share_t:s0 .
dr-xr-xr-x. root root      system_u:object_r:root_t:s0    ..
-rw-r--r--. root sambagroup unconfined_u:object_r:samba_share_t:s0 test-server1.txt
```

```
[root@server1 ~]# findsmb
```

```
*=DMB
```

```
+=LMB
```

```
IP ADDR      NETBIOS NAME  WORKGROUP/OS/VERSION
```

```
-----
192.168.1.150 SERVER1      +[Windows 6.1] [Samba 4.6.2]
```

### ↘ station1

```
[root@station1 ~]# yum install samba-client
```

```
[root@station1 ~]# smbclient -L //SERVER1
```

```
Enter SAMBA\root's password:
```

```
Anonymous login successful
```

```
OS=[Windows 6.1] Server=[Samba 4.6.2]
```

```

Sharename      Type   Comment
-----
samba-shares  Disk   Comparticiones Colaborativas Samba
IPC$           IPC    IPC Service (Samba 4.6.2)
```

```
Anonymous login successful
```

```
OS=[Windows 6.1] Server=[Samba 4.6.2]
```

```

Server          Comment
-----
Workgroup       Master
-----
SAMBA           SERVER1
```



```
[root@station1 ~]# mkdir -p /mnt/samba-shares
```

```
[root@station1 ~]# yum install cifs-utils
```

```
[root@station1 ~]# mount.cifs -o username=sambauser1 //server1/samba-shares /mnt/samba-shares/
```

```
Password for sambauser1@//server1/samba-shares: *****
```

```
[root@station1 ~]# mount | grep server1
```

```
//server1/samba-shares on /mnt/samba-shares type cifs
```

```
(rw,relatime,vers=1.0,cache=strict,username=sambauser1,domain=SERVER1,uid=0,noforceuid,gid=0,noforcegid,addr=192.168.1.150,unix,posixpaths,serverino,mapposix,acl,rsize=1048576,wsiz=65536,echo_interval=60,actimeo=1)
```

```
[root@station1 ~]# ls -alZ /mnt/samba-shares/
```

```
drwxrws---. root 1000 system_u:object_r:cifs_t:s0 .
drwxr-xr-x. root root system_u:object_r:mnt_t:s0 ..
-rwxrwsr-x. root 1000 system_u:object_r:cifs_t:s0 test-server1.txt
```

```
[root@station1 ~]# touch /mnt/samba-shares/test-station1.txt
```

```
[root@station1 ~]# ls -alZ /mnt/samba-shares/
```

```
drwxrws---. root 1000 system_u:object_r:cifs_t:s0 .
drwxr-xr-x. root root system_u:object_r:mnt_t:s0 ..
-rwxrwsr-x. root 1000 system_u:object_r:cifs_t:s0 test-server1.txt
-rw-r--r--. 1000 1000 system_u:object_r:cifs_t:s0 test-station1.txt
```

```
[root@station1 ~]# umount /mnt/samba-shares/
```

```
[root@station1 ~]# vim /etc/credenciales-samba
```

```
username=sambauser1
```

```
password=passwd123
```

```
domain=samba
```

```
[root@station1 ~]# chmod 0400 /etc/credenciales-samba
```

```
[root@station1 ~]# mount.cifs -o credentials=/etc/credenciales-samba //server1/samba-shares /mnt/samba-shares/
```

```
[root@station1 ~]# ls /mnt/samba-shares/
```

```
test-server1.txt test-station1.txt
```

```
[root@station1 ~]# umount /mnt/samba-shares/
```

```
[root@station1 ~]# yum install autofs
```

```
[root@station1 ~]# systemctl enable autofs.service
```

```
Created symlink from /etc/systemd/system/multi-user.target.wants/autofs.service to /usr/lib/systemd/system/autofs.service.
```

```
[root@station1 ~]# systemctl start autofs.service
```



```
[root@station1 ~]# vim /etc/auto.master.d/samba.autofs
```

```
/mnt /etc/auto.samba
```

```
[root@station1 ~]# vim /etc/auto.samba
```

```
autosamba -fstype=cifs,credentials=/etc/credenciales-samba ://server1/samba-shares
```

```
[root@station1 ~]# systemctl restart autofs.service
```

```
[root@station1 ~]# ls -lZ /mnt/autosamba
```

```
-rwxrwsr-x. root 1000 system_u:object_r:cifs_t:s0 test-server1.txt
```

```
-rw-r--r--. 1000 1000 system_u:object_r:cifs_t:s0 test-station1.txt
```

```
[root@station1 ~]# touch /mnt/autosamba/test2-station1.txt
```

```
[root@station1 ~]# ls -lZ /mnt/autosamba
```

```
-rw-r--r--. 1000 1000 system_u:object_r:cifs_t:s0 test2-station1.txt
```

```
-rwxrwsr-x. root 1000 system_u:object_r:cifs_t:s0 test-server1.txt
```

```
-rw-r--r--. 1000 1000 system_u:object_r:cifs_t:s0 test-station1.txt
```

```
[root@station1 ~]# findmnt |grep server1
```

```
└─/mnt/autosamba //server1/samba-shares cifs
```

```
rw,relatime,vers=1.0,cache=strict,username=sambauser1,domain=samba,uid=0,noforceuid,gid=0,no  
forcegid,addr=192.168.1.150,unix,posixpaths,serverino,mapposix,acl,rsize=1048576,wsz  
e=65536,  
echo_interval=60,actimeo=1
```

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