

# Samba

Mount a persistent drive on samba, here we're using fedora, same apply to other distros using different package manager.

Query system make sure cifs utils and samba client are installed, if not run the install command for samba packages and cifs utils

```
sudo dnf install samba-client samba-common cifs-utils
```

```
csr@MainPC:/mnt$ sudo dnf list installed | grep -E 'cif*|samb'
```

cifs-utils.x86_64	7.0-2.fc39	@anaconda
cifs-utils-info.x86_64	7.0-2.fc39	@anaconda
cirrus-audio-firmware.noarch	20240312-1.fc39	@System
crypto-policies.noarch	20231204-1.git1e3a2e4.fc39	@fedora-
updates		
crypto-policies-scripts.noarch	20231204-1.git1e3a2e4.fc39	@fedora-
updates		
geolite2-city.noarch	20191217-10.fc39	@anaconda
libpciaccess.i686	0.16-9.fc39	@anaconda
libpciaccess.x86_64	0.16-9.fc39	@anaconda
mpdecimal.i686	2.5.1-7.fc39	@System
mpdecimal.x86_64	2.5.1-7.fc39	@anaconda
pciutils.x86_64	3.11.1-1.fc39	@System
pciutils-libs.i686	3.11.1-1.fc39	@updates
pciutils-libs.x86_64	3.11.1-1.fc39	@System
pcsc-lite-ccid.x86_64	1.5.5-1.fc39	@System
perl-Specio.noarch	0.48-4.fc39	@System
qemu-device-display-virtio-gpu-pci.x86_64	2:8.1.3-4.fc39	
@updates		
qemu-device-display-virtio-gpu-pci-gl.x86_64	2:8.1.3-4.fc39	
@updates		

samba-client.x86_64	2:4.19.5-1.fc39	@System
samba-client-libs.i686	2:4.19.5-1.fc39	@System
samba-client-libs.x86_64	2:4.19.5-1.fc39	@System
samba-common.noarch	2:4.19.5-1.fc39	@System
samba-common-libs.x86_64	2:4.19.5-1.fc39	@System
samba-common-tools.x86_64	2:4.19.5-1.fc39	@System
samba-dcerpc.x86_64	2:4.19.5-1.fc39	@System
samba-ldb-ldap-modules.x86_64	2:4.19.5-1.fc39	@System
samba-libs.x86_64	2:4.19.5-1.fc39	@System
samba-winbind.x86_64	2:4.19.5-1.fc39	@System
samba-winbind-clients.x86_64	2:4.19.5-1.fc39	@System
samba-winbind-modules.x86_64	2:4.19.5-1.fc39	@System

Create a credentials file to hide config from fstab config

```
sudo vim ~/.cred

# Enter credentials for SMB share
username=youruser
password=yourpassword

~

~

~

~

~

~

~

~
```

Set permissions to file

```
chmod 600 ~/.cred
```

edit /etc/fstab to add our smb drive

//192.168.3.100/zfs /mnt/zfs cifs credentials=/home/csr/.cred,\_netdev,defaults 0 0 (optional add file\_mode and dir\_mode if remote server does not have cifs installed this will provide directory and file permissions if needed)

```
csr@MainPC:/mnt$ cat /etc/fstab
# /etc/fstab: static file system information.
#
# Use 'blkid' to print the universally unique identifier for a device; this may
# be used with UUID= as a more robust way to name devices that works even if
# disks are added and removed. See fstab(5).
#
# <file system>          <mount point> <type> <options> <dump> <pass>
UUID=AA4E-9603            /boot/efi     vfat    defaults,noatime 0 2
UUID=c67309b3-bb04-45fa-8cc6-a26d41301ba5 /boot         ext4    defaults,noatime 0 2
UUID=3822a8bd-6ffb-4834-8e9d-f753a4de704e /             btrfs  subvol=/@,compress=zstd:1,x-systemd.device-
timeout=0 0 0
UUID=3822a8bd-6ffb-4834-8e9d-f753a4de704e /home         btrfs  subvol=/@home,compress=zstd:1,x-
systemd.device-timeout=0 0 0
UUID=7062c1a3-df69-4877-b165-c3c9308afd8a swap          swap    defaults 0 0
tmpfs                    /tmp          tmpfs   defaults,noatime,mode=1777 0

//192.168.3.100/zfs /mnt/zfs cifs credentials=/home/csr/.cred,_netdev,defaults,file_mode=0666,dir_mode=0777
0 0
```

run `systemctl daemon-reload` then `sudo mount -a`

```
csr@MainPC:/mnt$ mount -a
This program is not installed setuid root - "user" CIFS mounts not supported.
mount: (hint) your fstab has been modified, but systemd still uses
the old version; use 'systemctl daemon-reload' to reload.
csr@MainPC:/mnt$ systemctl daemon-reload
csr@MainPC:/mnt$ mount -a
This program is not installed setuid root - "user" CIFS mounts not supported.
csr@MainPC:/mnt$ sudo mount -a
csr@MainPC:/mnt$ ls
zfs
csr@MainPC:/mnt$
```

to umount and mount to modify options

```
12:05:20 csr@MainPC ~ → sudo umount -t cifs /mnt/zfs/
```

```
12:06:44 csr@MainPC ~ → sudo mount -a
```

mount: (hint) your fstab has been modified, but systemd still uses  
the old version; use 'systemctl daemon-reload' to reload.

```
12:06:52 csr@MainPC ~ → systemctl daemon-reload
```

```
12:07:04 csr@MainPC ~ →
```

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