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## Connect CIFS network drive under Linux

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### Introduction

This guide walks you through two methods to mount network shares on your Linux system.

### Installing cifs-utils

If it's not already installed, you can install `cifs-utils` using your package manager. For example:

On Debian/Ubuntu:

```
sudo apt-get install cifs-utils
```

On CentOS/Red Hat:

```
sudo yum install cifs-utils
```

On Fedora:

```
sudo dnf install cifs-utils
```

### Mount Network Shares on command line

#### For the Homedrive

1. Create a directory where you'll mount the Homedrive:

```
sudo mkdir /mnt/homedrive
```

2. Mount the drive:

```
sudo mount.cifs //homedrive1.uni-stuttgart.de/home$/<ac-account>  
/mnt/homedrive -o username=<ac-account>,domain=UAD,uid=$(id -  
u),gid=$(id -g)
```

<ac-account>: your account from the University of Stuttgart, e.g. ac123456



## For the Organization Drive (SFO):

1. Create a directory where you'll mount the Homedrive:

```
sudo mkdir /mnt/shared
```

2. Mount the drive:

```
sudo mount.cifs <network-path> /mnt/shared -o username=<ac-account>,domain=USADR,uid=$(id -u),gid=$(id -g)
```

<network-path>: Ask your organization's administrator for the network path of the SFO. The path is structured as follows: `smb://org-cifs.tik.uni-stuttgart.de/shared`  
replace **org** with the abbreviation of your organization.

<ac-account>: your account from the University of Stuttgart, e.g. `ac123456`

## Mount Network Shares automatically via `/etc/ftsab`

Get your user-id:

```
id -u
```

Get your group-id:

```
id -g
```

Create a file `/home/<user>/.smb_credentials` with the following content:

```
username=<ac-account>  
password=<your-password>
```

<ac-account>: your account from the University of Stuttgart, e.g. `ac123456`

## For the Homedrive

1. Create a directory where you'll mount the Homedrive:

```
sudo mkdir /mnt/homedrive
```

2. Secure the file by restricting permissions:

```
chmod 600 /home/<user>/.smb_uad
```

3. Add the following line to the file `/etc/fstab` on your system:

```
//homedrive1.uni-stuttgart.de/home$<ac-account> /mnt/homedrive cifs  
credentials=/home/<user>/.smb_credentials,domain=u.ad.uni-  
stuttgart.de,iocharset=utf8,vers=3.0,noperm,file_mode=0644,dir_mode=0  
755,noexec,uid=<user-id>,gid=<group-id> 0 0
```



4. Test the mount manually before rebooting:

```
sudo mount -a
```

### For the Organization Drive (SFO):

1. Create a directory where you'll mount the SFO-Drive:

```
sudo mkdir /mnt/shared
```

2. Secure the file by restricting permissions:

```
chmod 600 /home/<user>/.smb_usadr
```

3. Add the following line to the file /etc/fstab on your system:

```
<network-path> /mnt/shared cifs credentials=/home/<user>/.smb_
credentials,domain=uni-
stuttgart.de,icharset=utf8,vers=3.0,noperm,file_mode=0644,dir_mode=0
755,noexec,uid=<user-id>,gid=<group-id> 0 0
```

<network-path>: Ask your organization's administrator for the network path of the SFO. The path is structured as follows: smb://org-cifs.tik.uni-stuttgart.de/shared  
replace **org** with the abbreviation of your organization.

4. Test the mount manually before rebooting:

```
sudo mount -a
```