# Mounting personal, group and IEU shares on Linux

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These are instructions on how to mount the UZH IEU shares on Debian version 10.10. The procedure for mounting the personal, institute and group share is the same, however you must change the server address.

## Preparation

If ouside of campus, make sure you are connected to the University VPN.

Install cifs-utils.

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

Create a directory where you will mount the share(s).

```
mkdir /media/uzh/ieu
mkdir /media/uzh/personal
```

Make a credentials file, this way you do not need to type in your password each time and the password is hidden.*

```
sudo nano /root/.smbcredentials
```

Write in this file your institute username and password.

```
username=<YOURSHORTNAME>
password=<YOURPASSWORD>
```

*Alternatively, you can add only "username=" in the mount command and then a prompt will ask for the password so it can be typed-in invisibly.

Save the file and make readable by only the root account.

```
chmod 400 /root/.smbcredentials
```

Add permissions to write into the share by editing the mount entry on fstab. Open /etc/fstab to edit it.

```
sudo nano /etc/fstab
```

Add your particular share address and mount point (created above), save and exit.

```
//ieu-fs.uzh.ch/Users /media/uzh/ieu cifs credentials=/root/.smbcredentials,uid=1000,gid=1000  0  0
```

## To mount drive

Use the specific server address for either your personal, group or institute share. This example mounts first the user personal share (//ieu-fs.uzh.ch/Users/< Letter >), where < Letter > should be replaced by the first letter of your shortname. Notice it is mounted onto one of the mountpoints created earlier.

Then your group share, where < GROUP > should be replaced by and your group name. Notice it is mounted onto one of the other mountpoints created earlier.

Note: Replace uid= < user > and gid= < group > respectively by your own user and default group, which you can find with the `id` command. By default, the first user in a fresh install is assigned "1000". If you did

not create the ./smbcredentials file with your credentials, then replace that part below with "username= password="

```
sudo mount -t cifs -o rw,vers=3.0,uid=1000,gid=1000,credentials=/root/.smbcredentials, //ieu-fs.uzh.ch/U
```

```
sudo mount -t cifs -o rw,vers=3.0,uid=1000,gid=1000,credentials=/root/.smbcredentials, //ieu-fs.uzh.ch/C
}
```

Now you should see your share folder.

Always unmount when you are finished.

```
sudo umount -a -t cifs
```

## Bonus: script for easy fast mounting

This script will mount all shares you specify with a single command. This way all you have to do to mount your shares (personal, institute and group) is type a single command into your terminal.

Make a new folder in your home directory for your environment variable.

```
mkdir ~/bin
```

Create the file where you will write the script. In this example, I use nano text editor to create the file. Replace "mountuzhshare" with whatever command you want to use to mount your share.

```
nano bin /mountuzhshare
```

Copy the following script into the file. Be sure to replace < Firstletterofyourshortname >, < myshortname> and < Group > with your own first letter of your shortname, your shortname and the surname of the professor you are affiliated with. For example, if you are affiliated with Prof. Anna-Liisa Laine, use "Laine".

```
#!/bin/bash

sudo mount -t cifs -o rw,vers=3.0,uid=1000,gid=1000,credentials=/root/.smbcredentials,
//ieu-fs.uzh.ch/Users/<Firstletterofyourshortname>/<myshortname> /media/uzh/personal

sudo mount -t cifs -o rw,vers=3.0,uid=1000,gid=1000,credentials=/root/.smbcredentials,
//ieu-fs.uzh.ch/Groups/<Group> /media/uzh/ieu
```

Make the script executable.

```
chmod +x bin/mountuzhshare
```

Append to $PATH.

```
PATH=$PATH:~/bin
```

Modify the file bashrc in your home directory to export. Open file

```
nano .bashrc
```

Add this line to the file.

```
PATH="$PATH:~/bin"
```

Done.

Now to mount all shares, simply open a terminal and enter the command you chose.

```
mountuzhshare
```

Always unmount when finished.

```
sudo umount /media/uzh/*
```

or

```
sudo umount -a -t cifs
```