Data management

Topic

Data transfer between a laptop, a virtual machine, or a lab server and the DCSR NAS

> The DCSR NAS, or the "**N**etwork **A**ttached **S**torage of the Scientific Computing and Research Support Unit", is one of the several NAS solutions available at UNIL. The DCSR NAS is dedicated to the secure mid-term storage of **research** regular or personal data. The DCSR NAS does not comply to the current regulations for the storage of sensitive data, as defined by the LPrD law Art. 4 al. 2. For handling sensitive data, please refer to the corresponding documentation.

Organization

The first section explains how to access the DCSR NAS from the **UNIL network** with each of the most common operating systems (**Windows**, **MacOS** and **Ubuntu**)

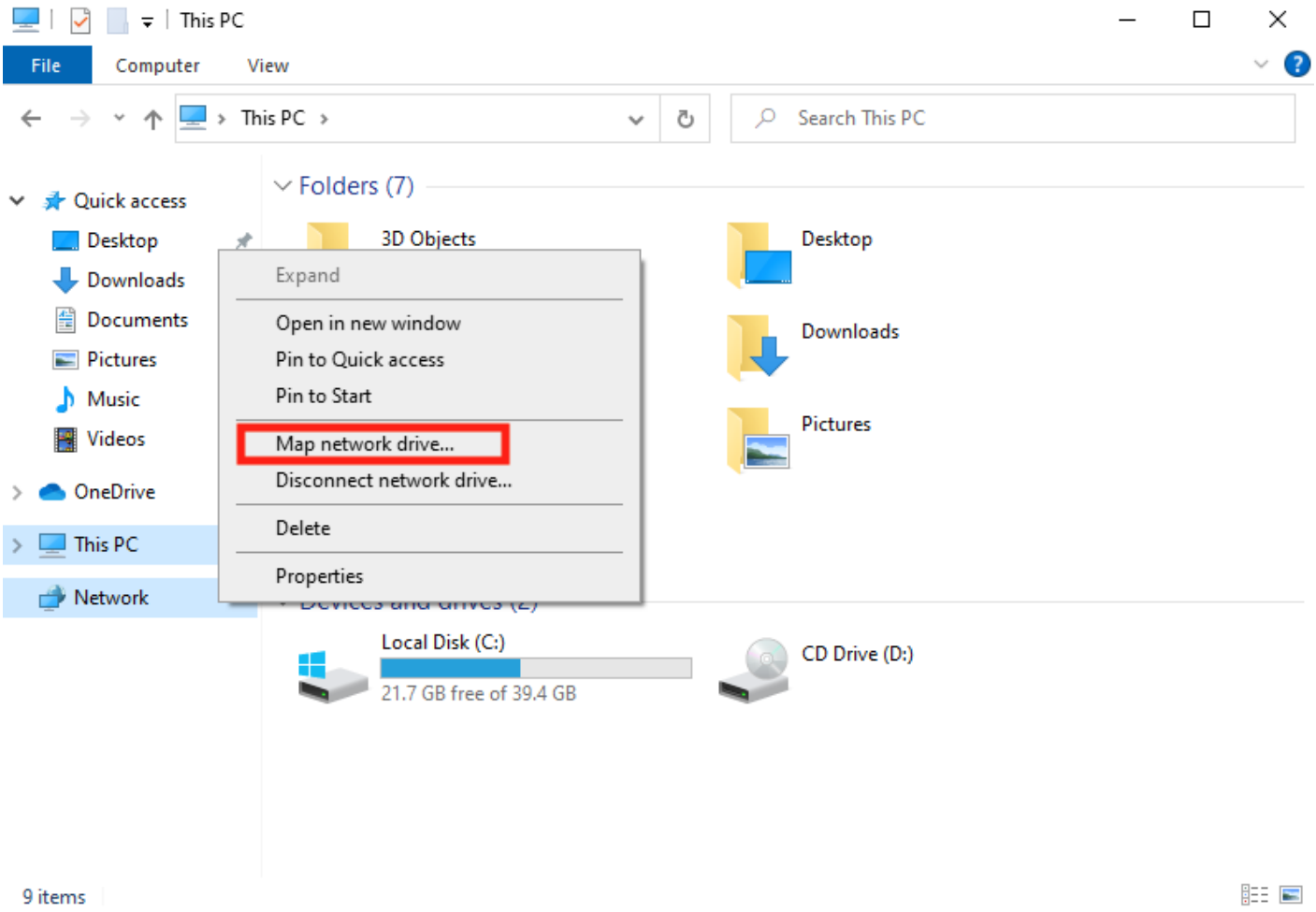
The second section explains how to access the DCSR NAS from the **CHUV network**

> **Note:** If you work from home, you first need to connect to UNIL's Virtual Private Network (VPN), using the Pulse Secure software (see VPN instructions).

Access from the UNIL network

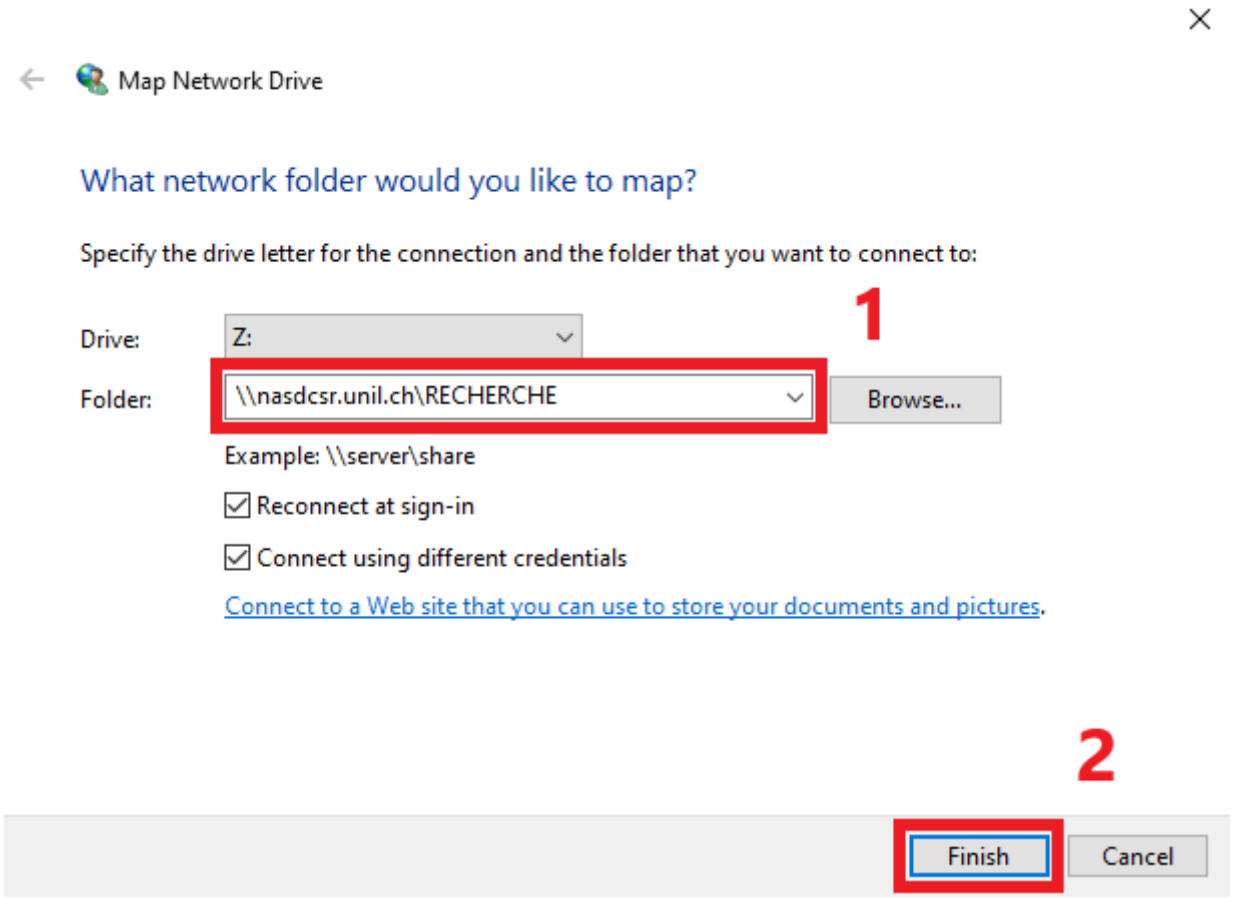
From Windows

Step 1: right click on Network in File explorer and choose "Map network drive..."



Step 2: enter the address of the Samba server and click to finish

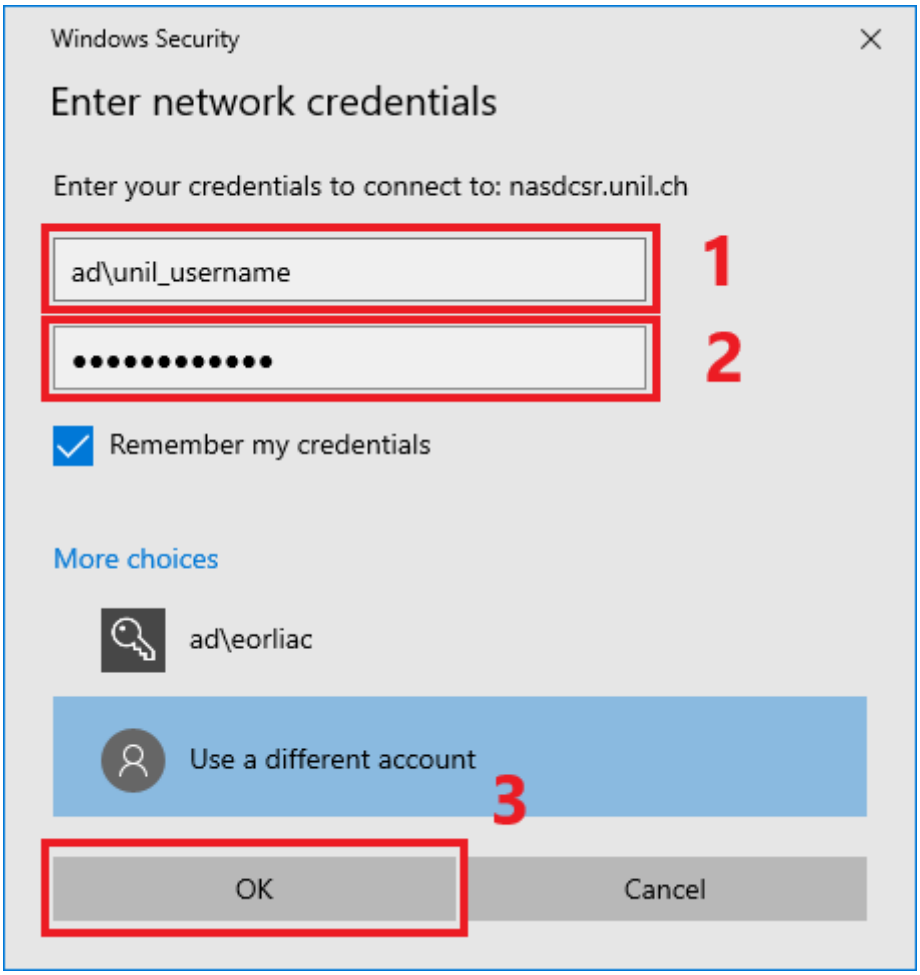
> Replace **RECHERCHE** with **RECHERCHE-P** in the screen capture below to access the corresponding folder for a project that was created with the *personal data* flag



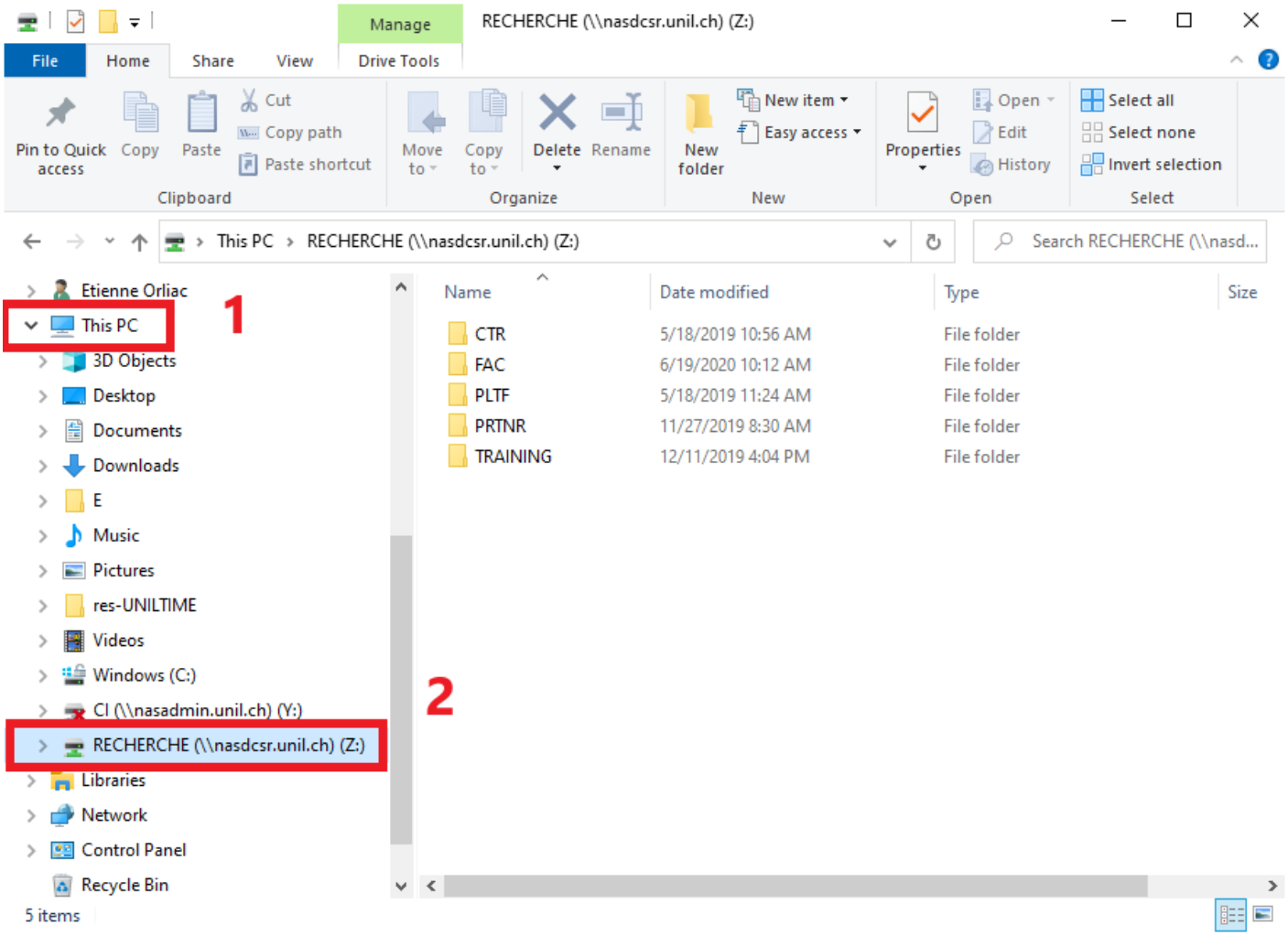
`\\nasdcsr.unil.ch\RECHERCHE`

Step 3: enter your Unil credentials and clikc "OK"

- username: `ad\unil_username` (for example `ad\ulambda`)
- password

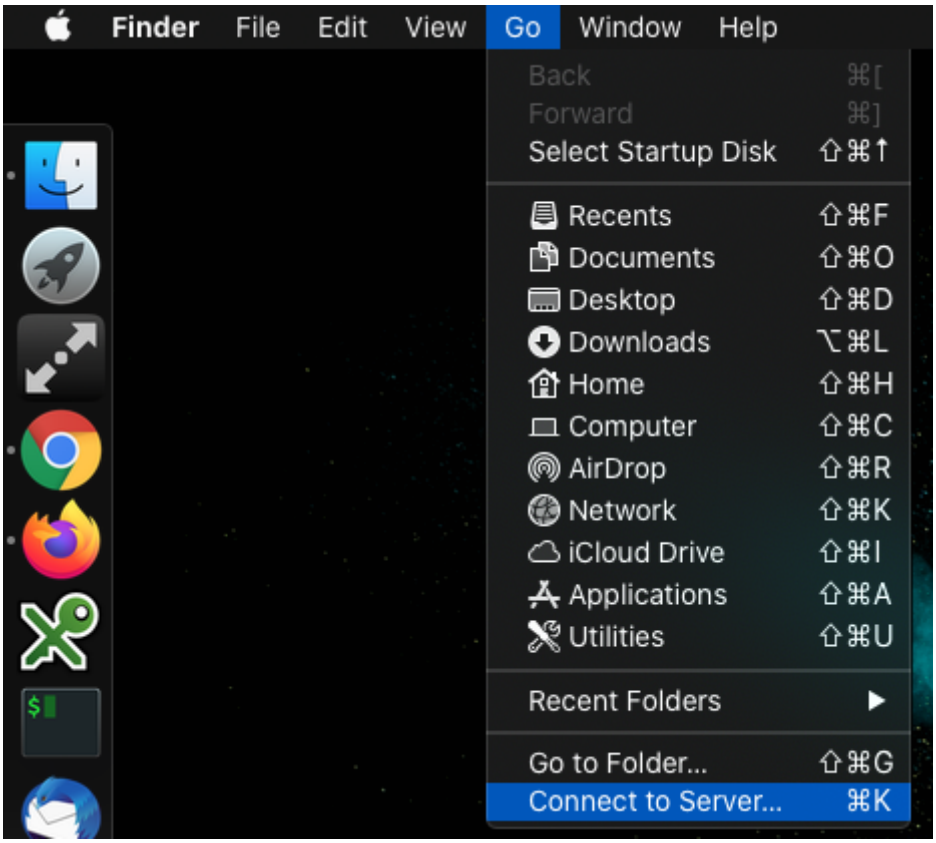


Step 4: click on "This PC" and then on the new network drive



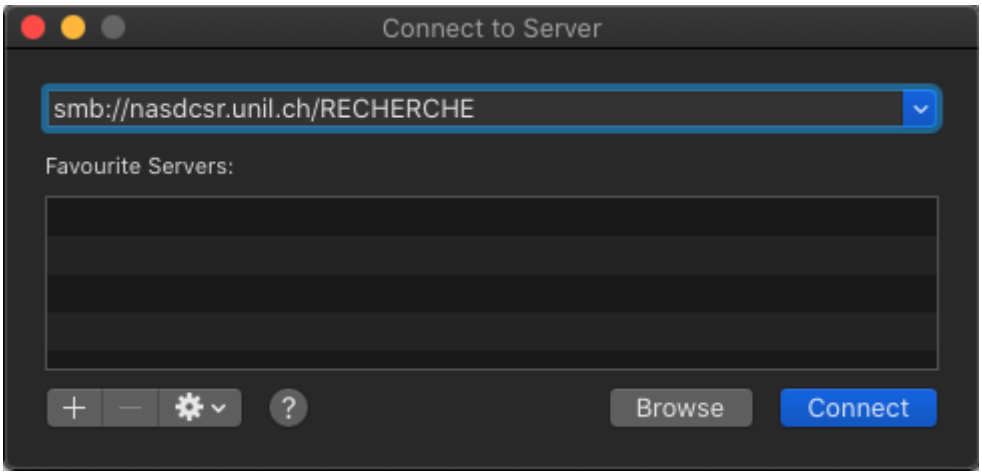
From MacOS

Step 1: open the Finder, in Go menu, select "Connect to Server"

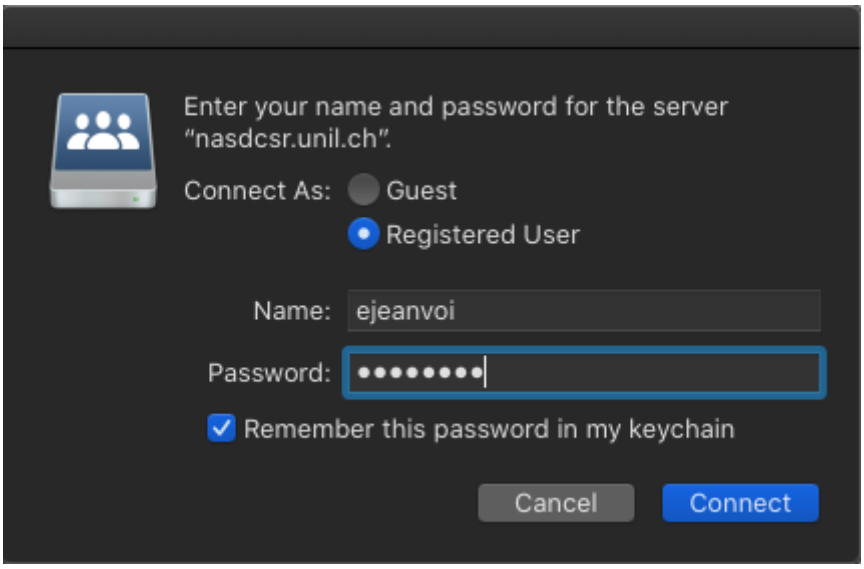


Step 2: enter the NAS url (`smb://nasdcsr.unil.ch/RECHERCHE`), you also may add this server as a favourite by clicking on + symbol

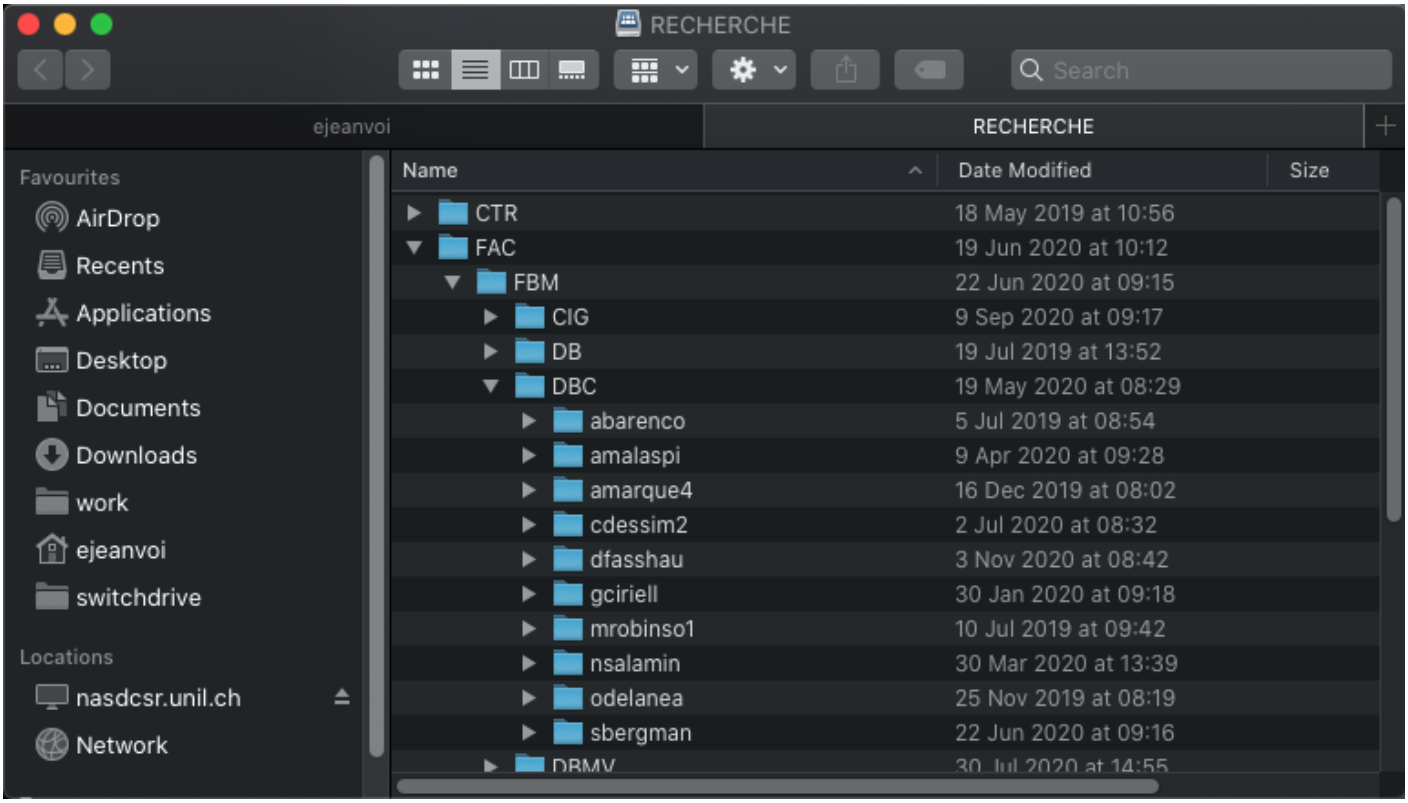
> Replace **RECHERCHE** with **RECHERCHE-P** in the screen capture below to access the corresponding folder for a project that was created with the *personal data* flag



Step 3: enter your credentials



Step 4: navigate through the directories to find your working directory and push/fetch files as you see fit



From Ubuntu

It is possible to use a GUI but there are as much solutions as desktop managers. So here is a way to mount the NAS using command line interface.

> Don't forget to adapt the `username=` field in the `sudo mount` command by replacing `unil_username` with your **username** at UNIL (ex. `mcurie` for Marie Curie)!

>

> Replace**RECHERCHE** with **RECHERCHE-P** in the commands below to access the corresponding folder for a project that was created with the *personal data* flag

```
# First install the packages
# Debian/Ubuntu version
$ sudo apt install samba cifs-utils
# Fedora/RedHat version
$ sudo dnf install cifs-utils

# In the following, ~/nas is chosen as a mountpoint, but it could be elsewhere
$ mkdir ~/nasdcsr
$ sudo mount -t cifs -o
username=unil_username,mfsymlinks,domain=ad,rw,iocharset=utf8,dir_mode=0700,file_mode=0700,uid
=$(id -u) //nasdcsr.unil.ch/RECHERCHE ~/nasdcsr

# Perform the reauired operations
$ cd ~/nasdcsr
…

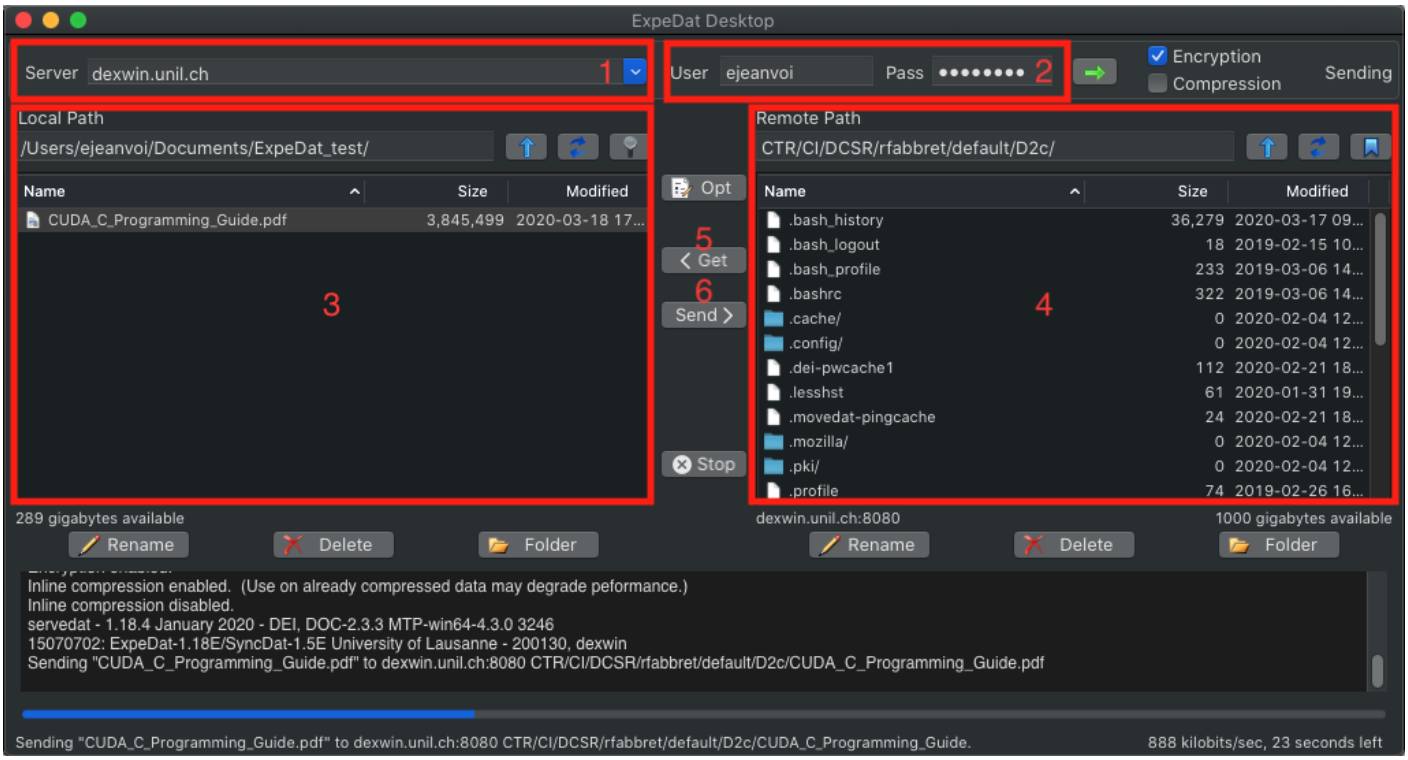
# When finished, don't forget to umount it
$ sudo umount ~/nasdcsr
```

Accessing DCSR NAS from CHUV network

Windows and Mac users can install the graphical desktop client from DataExpedition as well if they wish so:

Download Expedat from here, installation instruction from here, and product documentation from there.

Here is an example of ExpeDat session:



On that screenshot you can see:

1. The server of the NAS
2. The user information (login and password)
3. The explorer for the files located on your laptop
4. The explorer for the files located on the NAS (note that the remote path must be set according to your personal working space)
5. The get button to fetch files from the NAS to your laptop
6. The push button to push files from your laptop to the NAS

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