

How to map BCP storage on a workstation under MacOS

Preamble. Measurement data of multi-user devices are stored on a special file system drive called BCB-storage.¹ Here, the data are usually stored in directories that are named for the corresponding measuring devices and for the working groups. In this way, the users have direct data access. Additionally, raw data are backed up in conformity with the DFG guidelines.

To get principal access to the BCPFS you must be registered at the “MI portal” at <https://portal.mi.fu-berlin.de/>, which will be taken on by your working groups IT manager. There is a specialised handout on the admission to BCPFS.

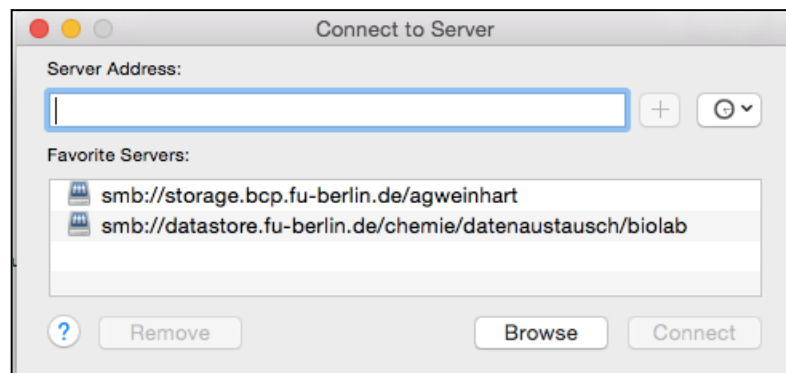
In this handout, we describe the principle procedures for attending the BCPFS from your computer (MAC, Linux) and from the devices (resources) to get direct data access.

Map network drive (Mac)

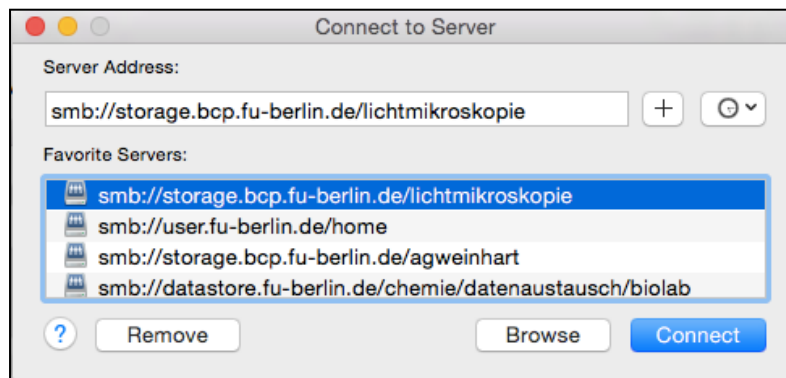
IMPORTANT: If you are not in the university (ZEDAT) network, you have to connect your computer via VPN to the ZEDAT network before!

- Go to “Finder”
- Select “Go” > “Connect to Server” (Cmd + K) to open the “Connect to Server” window.
- Type folder path as: `smb://bcp-storage01.imp.fu-berlin.de/ag-<lab>`, where <lab> is your working group name. You can find this name on your MI-portal home page.

Please note the usage of slashes when typing the path!



¹ Please note that the storage is currently still free of charge, but may be charged in the future.



- Select “+” and “Connect”

The system now requires your username and password:

- User name: FU-BERLIN\<>zemat-account>, where <zemat-account> is your zemat email address without @zemat.fu-berlin.de.
Important: FU-BERLIN must be in capitals!
Please note the backslash when typing the user name!
- Password: your ZEDAT account password
- Save your data

IMPORTANT: After usage, disconnect network drive by selecting “Go” > “Connect to Server” (Cmd + K) and Remove the respective samba share.

How to access the BCP BioSupraMol filesystem over SSH?

The host `lounge.imp.fu-berlin.de` is a Linux shell server that is accessible worldwide via SSH. The filesystem is mounted under `/bigdata/bcp`. You can use the following command to sync an entire directory tree to the `bcpfs/tem-krios` folder on your local machine:

```
rsync -av <zemat-account>@lounge.imp.fu-berlin.de:/bigdata/bcp/ag-<lab>/tem-krios bcpfs
```

For passwordless login to `lounge.imp.fu-berlin.de`, you can create an SSH key and copy the public part to the file `authorized_keys` in the `.ssh` folder in your home directory on the server. You may need to create the `.ssh` folder first. This allows copying files non-interactively, for example from a nightly cronjob.

SSH access to the filesystem is meant to facilitate moving data to machines not located within the network of Freie Universität Berlin. Be extra careful if you create new files in this way (e.g. by copying data into the filesystem) and be sure to check and fix access permissions and group ownership to match those of existing files and directories afterwards.