

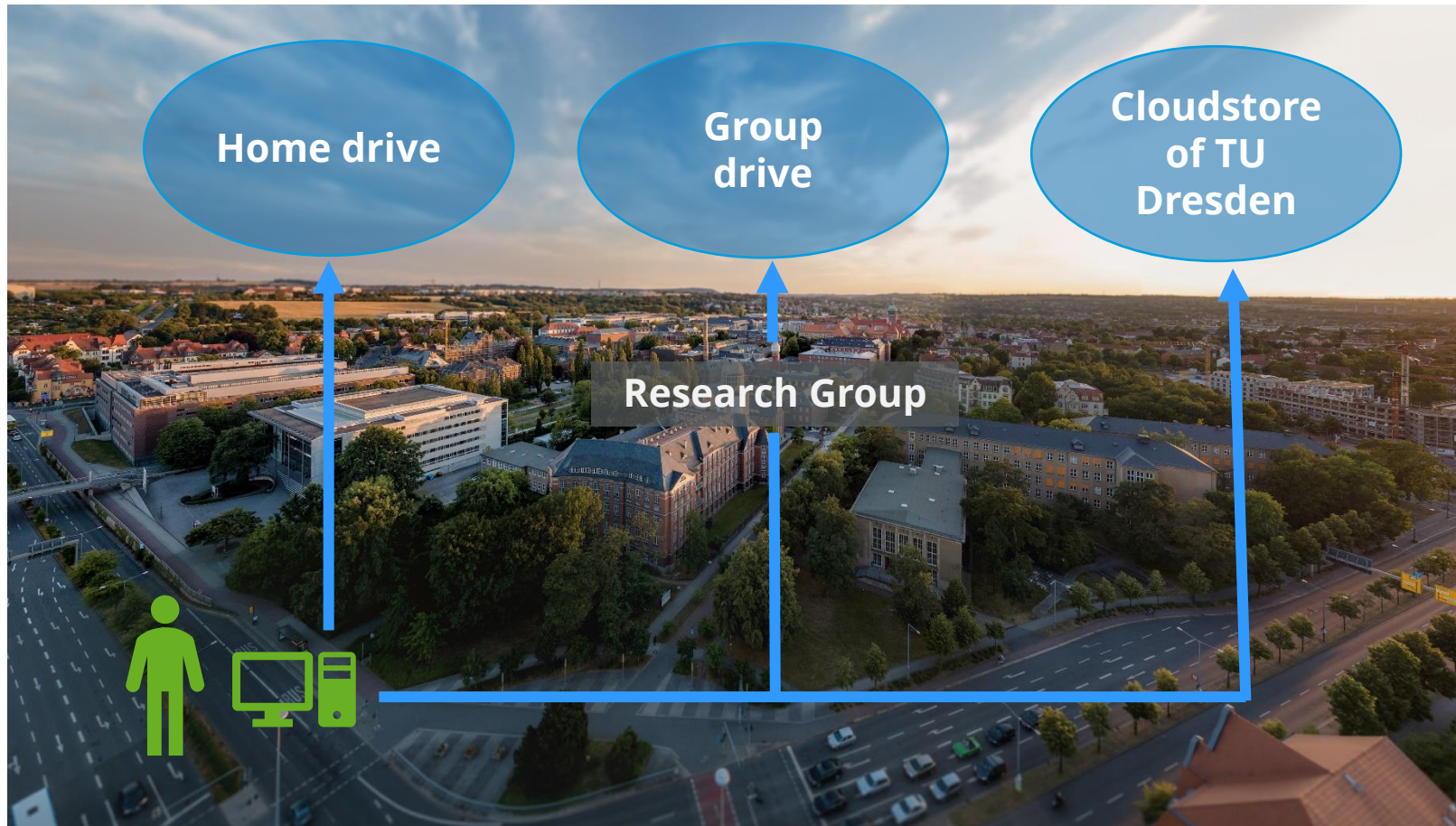
Institute of Materials Science - Chair of Materials Science and Nanotechnology

Working with Home & Group Drives from ZIH

Introduction to the use of network drives in the TU network 2022-2023

Dipl.-Ing. Steffen Kampmann

Which kind of data storages exists?



[1]

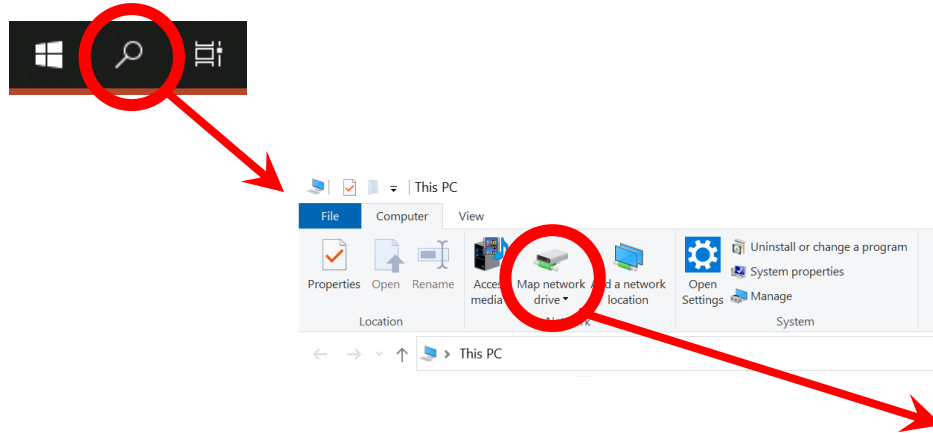
Differences between storages

	Home drive	Group drive	Cloudstore
Usage	Personal	Groups	Groups/External
Storage capacity	Up to 200 GB	Up to 50 TB	10 GB (2GB)
Backup	✓	✓	✗
Snapshots	✓	✓	✗
Mirror	✓	✓	✗

→ Cloudstore is only for sharing redundant data
→ Cloudstore is **not** suitable for research data

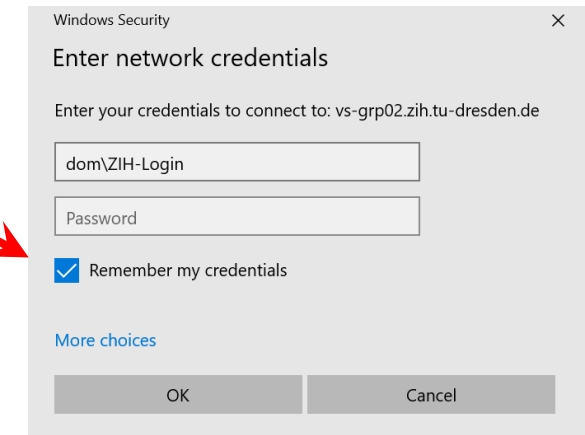
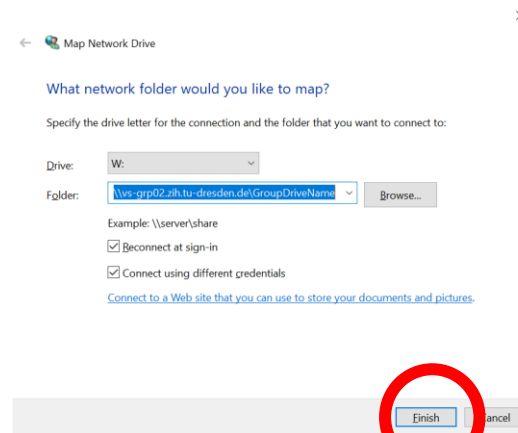
How to connect with Windows?

Windows:



Group drives:

\\vs-grp02.zih.tu-dresden.de\GroupDriveName
\\vs-home.zih.tu-dresden.de\ZIH-Login



How to connect with Mac?

Mac:

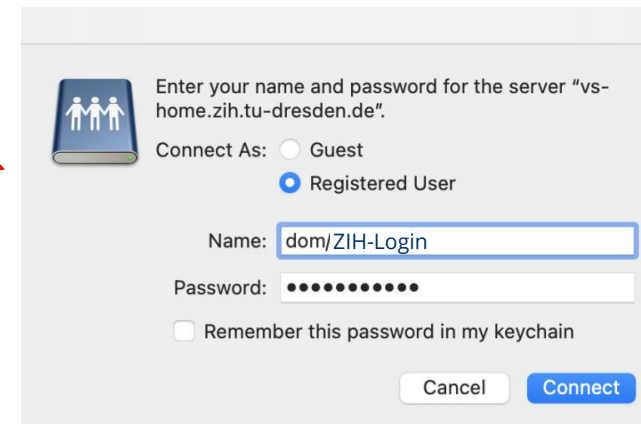
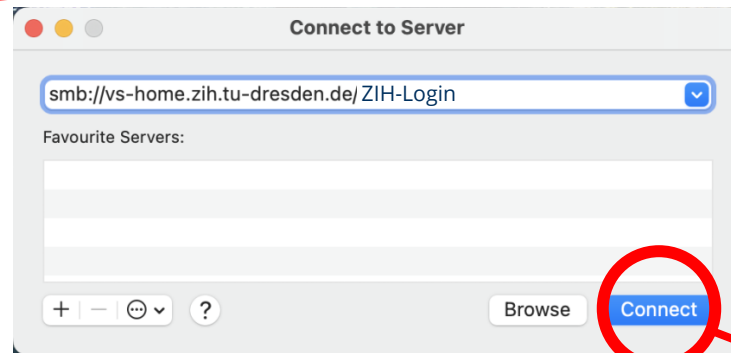


cmd + k

Group drives:

smb://vs-grp02.zih.tu-dresden.de/GroupDriveName

smb://vs-home.zih.tu-dresden.de/ZIH-Login



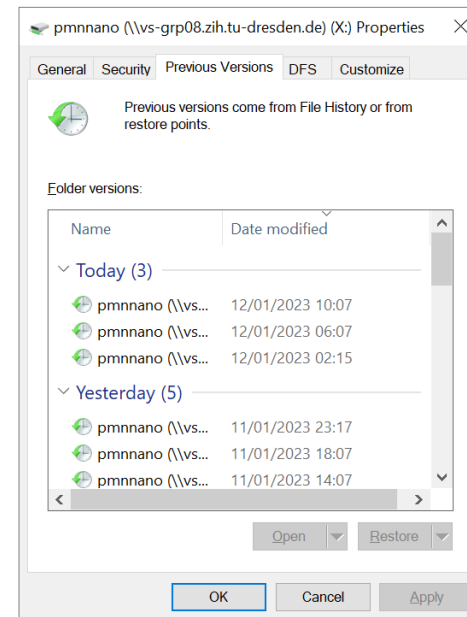
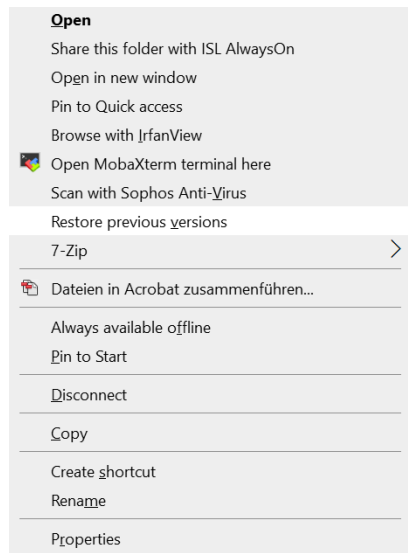
Data is lost! And now?

- User possible actions:

→ Restore lost data with previous data states (Snapshots)

→ Windows:

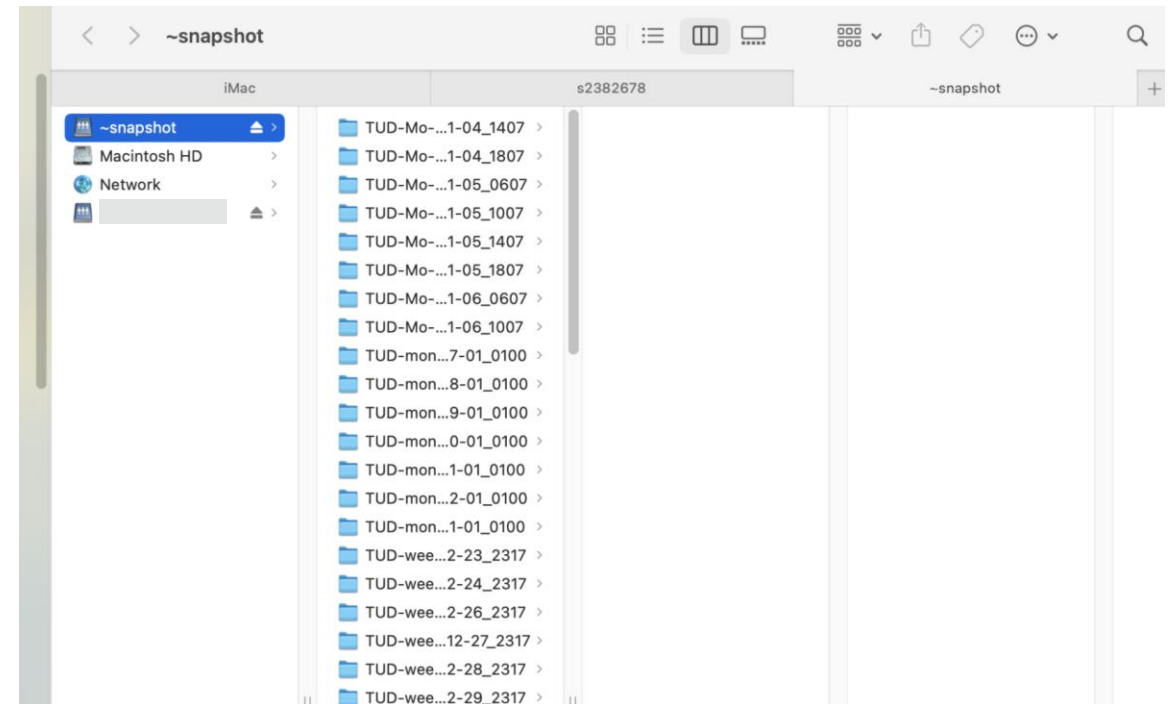
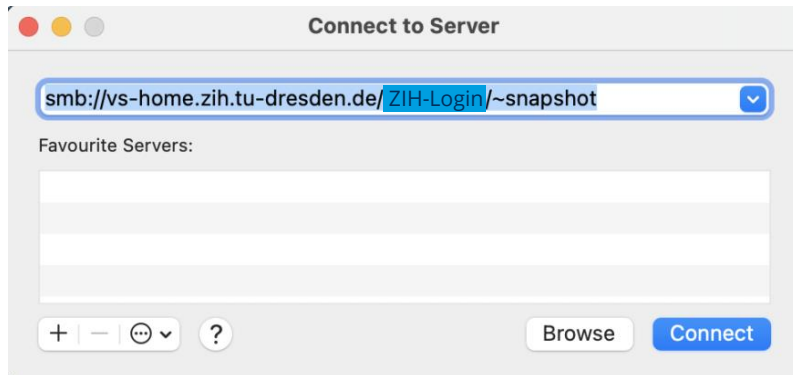
Right click to the folder which should contains the lost data



Data is lost! And now?

→ Mac:

Connect to the drive again with addition of **/~snapshot** in the end of the drive address



Which group drives are available at the chair?

pmana (10 TB)

- Contains any **chair** related data
→ Win: <\\vs-grp02.zih.tu-dresden.de\pmana> Mac: <smb://vs-grp02.zih.tu-dresden.de/pmana>

pmnnano (5 TB)

- Contains project and administrative related data of **Theory group**
→ Win: <\\vs-grp08.zih.tu-dresden.de\pmnnano> Mac: <smb://vs-grp08.zih.tu-dresden.de/pmnnano>

pmnent (5 TB)

- Contains project and administrative related data of **Environmental nanotechnology group**
→ Win: <\\vs-sec-smb3.zih.tu-dresden.de\pmnent> Mac: <smb://vs-sec-smb3.zih.tu-dresden.de/pmnent>

pmnnst (5 TB)

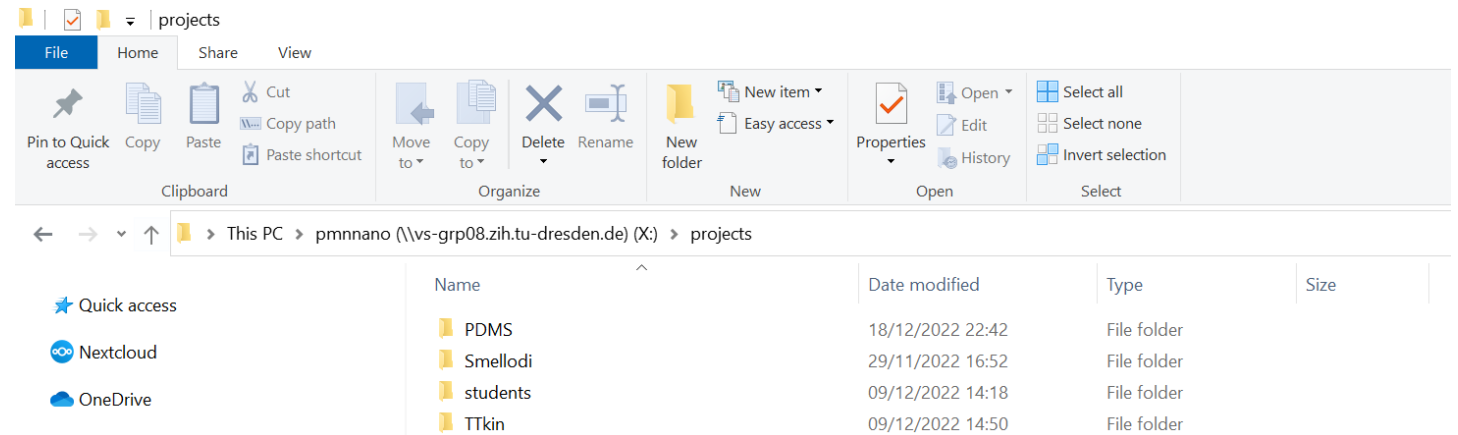
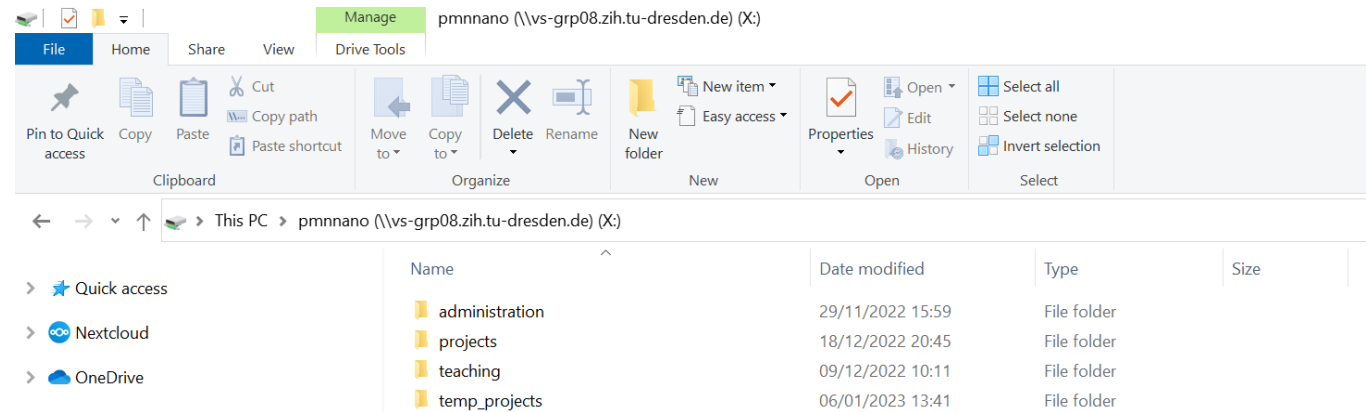
- Contains project and administrative related data of **Nanoelectronics for sensor technologies group**
→ <\\vs-grp08.zih.tu-dresden.de\pmnnst> Mac: <smb://vs-grp08.zih.tu-dresden.de/pmnnst>

pmnraw (50 TB) (only Snapshots, no backup, no mirror)

- Contains raw research data of **every group**
- Coming soon...

Example: pmnnano

Possible data structure:



How is file access controlled?

<https://idm-tools.tu-dresden.de/>

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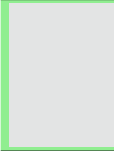
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Gruppenname
mgrp-student-org-10000917-pmnnano_stud
[Kopiere Gruppenname](#)

Gruppenname mgrp-student-org-10000917-pmnnano_stud
Gruppenart Leere Gruppe
Personenkreis Studenten
Gruppentyp Organisationen
Spezialisierung 10000917 (P. Materialwissenschaft und Nanotechnik)
Anzeigename setzen pmnnano_student
Beschreibung setzen pmnnano_student
E-Mail setzen

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Eingeschlossene Mitglieder
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ZIH-Account	Anzeigename	Primäre E-Mail
	Bodesheim, David Manuel	david.bodesheim@tu-dresden.de
	Unsal, Elif	Elif.Unsal@tu-dresden.de
	Bierling, Antonie Louise	Antonie.Bierling@tu-dresden.de
	Rodriguez Mendez, Alvaro Gaspar	alvaro_gaspar.rodriguez_mendez@tu-dresden.de

Showing 1 to 4 of 4 entries
[Mitglieder hinzufügen](#) [Mitglieder entfernen](#) [...](#)

[Setze Eingaben](#) [Lösche Gruppe](#)

Literatur

- [1] https://media-exp1.licdn.com/dms/image/C4D1BAQGhuHkHrK9Otw/company-background_10000/0?e=2159024400&v=beta&t=1cL7tUnH5XYVw6DOfbIjkskihQl2pmXPHu1d7SLXnzs