Machine Learning Applications (MLA)



Instruction for Infrastructure
Overview of Drive Application





General Information



What is Synology Drive application?

- It combines the File Station with cloud storage features
- There are clients for Windows/ Mac/ Linux for synchronising files and folders
- You can download, upload, create, move, delete, rename,... files and folders (drag and drop)
- You can tag files for better organisation and structuring
- You can create documents (text, tables, slides) to work together on the same files

How do I access the Drive application?



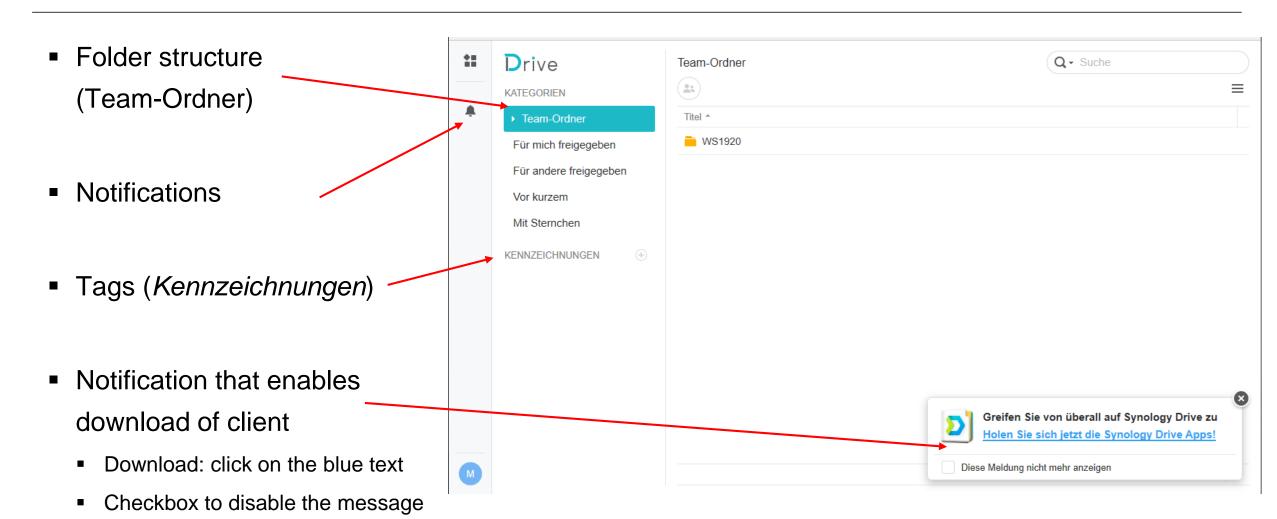


Way 2: Open the URL https://srv-mla.fsr.maschinenbau.tu-darmstadt.de/drive



What Do I See at First Start?

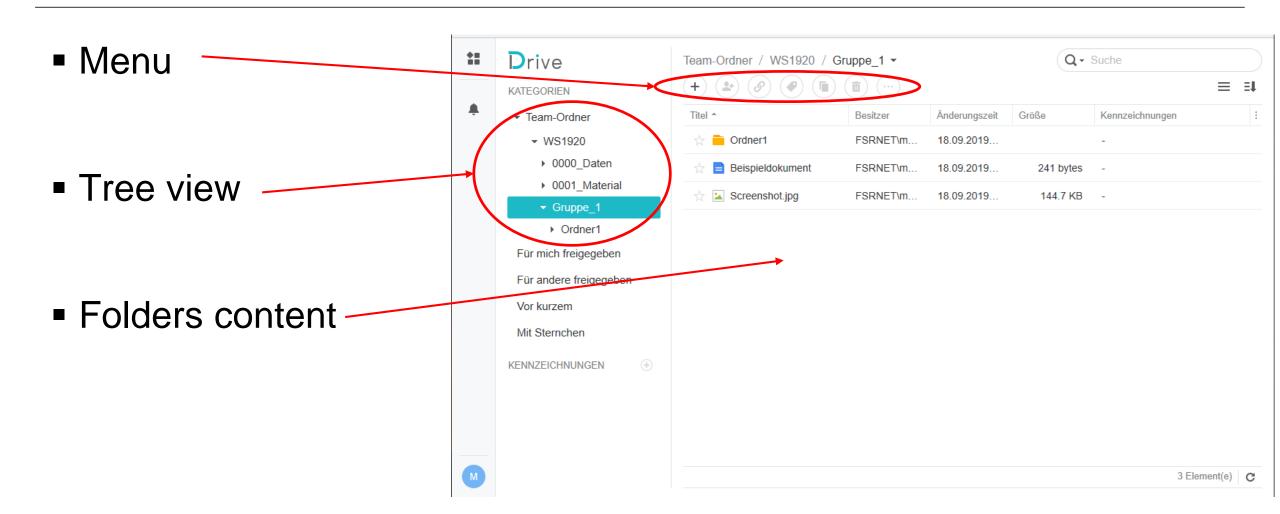






How Do I Manage Files in the Browser?







Menu Bar in File Overview

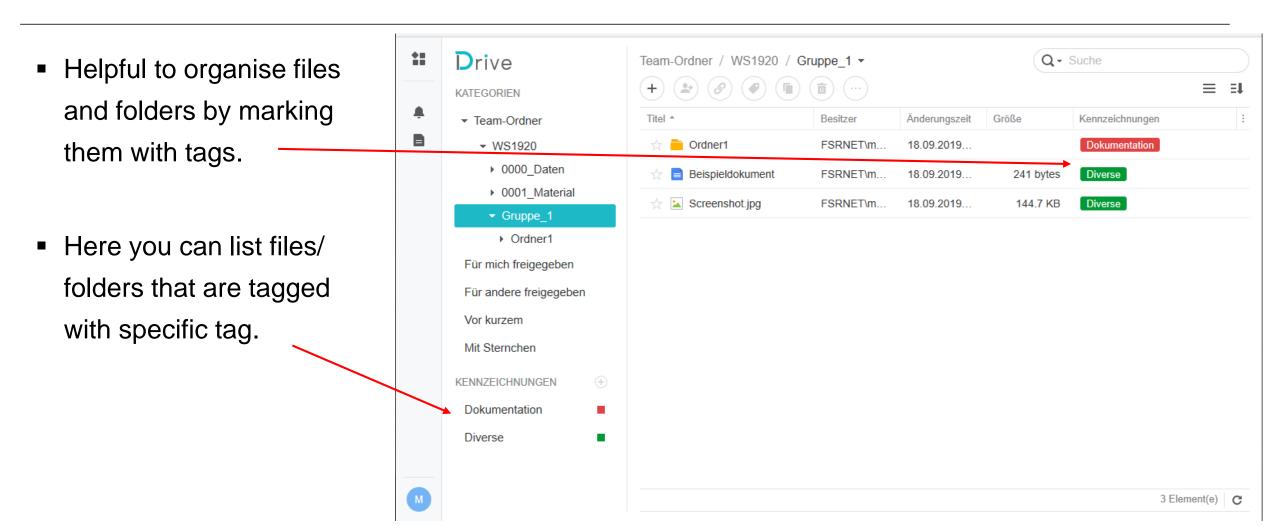


- + Create new files/ folders
- Create sharing links for files/ folders (restricted)
- Add Tags to files/ folders and create them
- Duplicate a file/ folder
- Remove a file/ folder
- Additional options for a file/ folder same as doing right mouse click on file/ folder



What are Tags?







What is the File History (*Dateiverlauf*)?



- Each change of a file creates a new version (32 rotating versions)
 E.g. each time you edit and save a picture file, a new version is created of that file
- After 32 versions the oldest one will be deleted to have space for the newest version in the file history
- You can recover any available version of the file, e.g. in case you accidentally modified it
- Versions older than 60 days will be deleted automatically (not the file itself)
- You can access the file history by doing a right mouse click on the file and selecting Verlauf



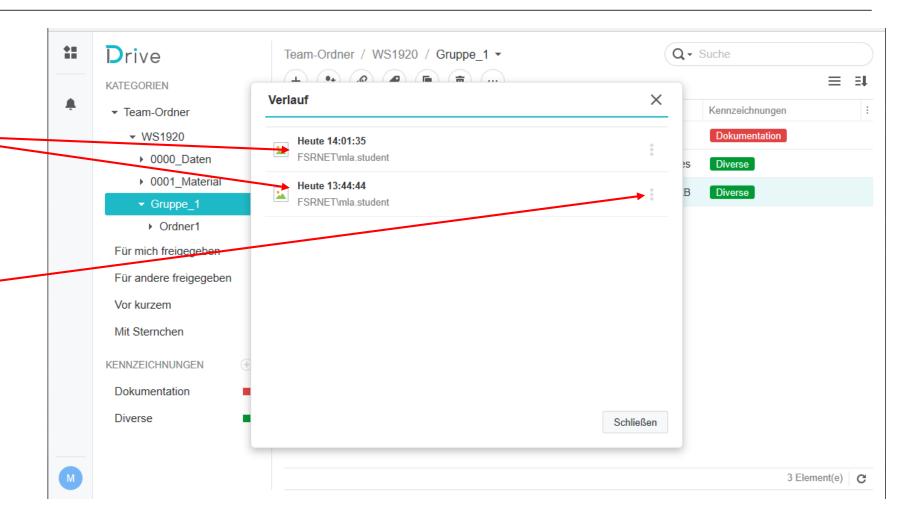
File History of File Screenshot.png



 Timestamp and account from which the file was modified

- Menu to
 - download
 - restore
 - copy

file version





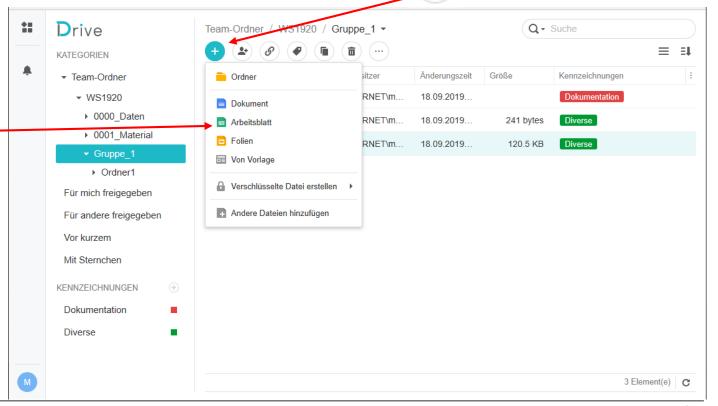
Edit Documents Together (Browser only)



 You can create and edit documents at the same time together in your internet browser (similar to google-docs) → Create files by clicking on (+)

 Possibility to work together on texts, tables or slides

 You should not use this feature four your final report, since there is no corporate design





Synchronise Files using Windows/Mac/Linus Client



- Drive supports synchronisation between Windows/ Mac/ Linux and server (similar to Dropbox, One-Drive, etc.)
- You can use the synchronisation for editing files locally on your computer
- Usually conflicts in synchronisation are marked however, you should always make sure that only one person works on a file at the same time
- Windows client is able to do on-demand synchronisation (files will only be downloaded when they are needed)
- You can select which (sub)folders should be synchronised

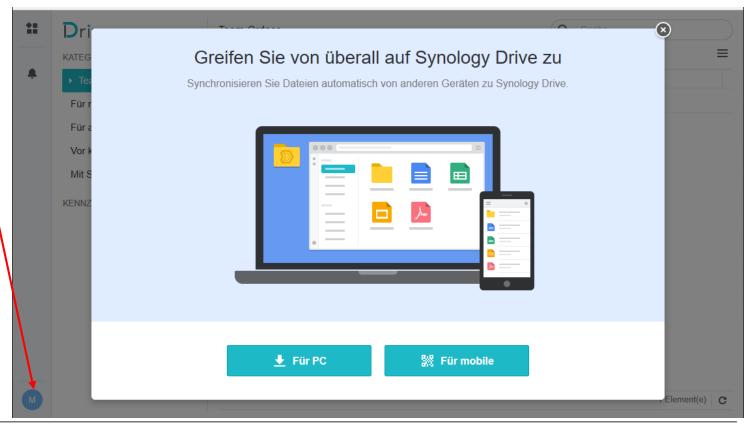


Download of the Client for Windows/Mac/Linus



 Click on the letter in the left bottom corner and then select Client → Client herunterladen

Alternative: Download Synology
 Drive Client for your operating
 system from here
 https://www.synology.com/de de/support/download/RS1619xs+#
 utilities





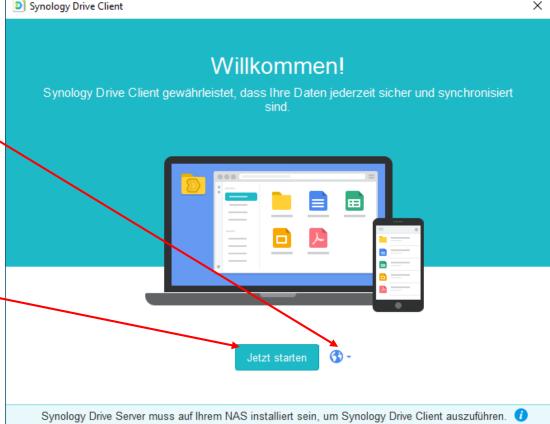
Setup of the Client (1)



The client starts after installation automatically

You can change the language here if you want

Click on Jetzt starten

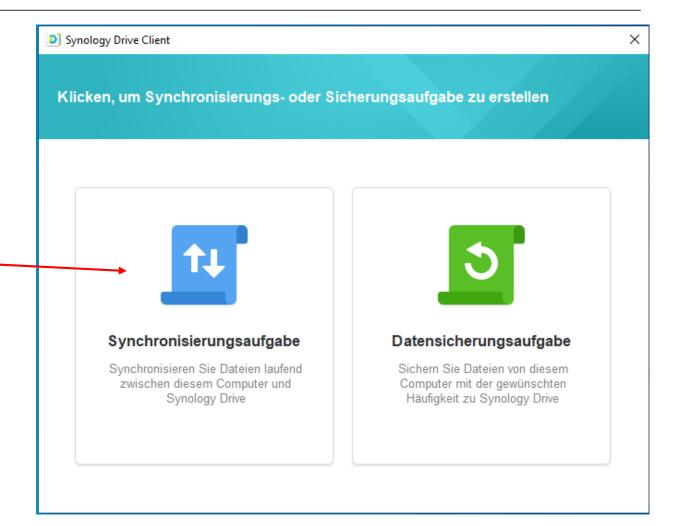


Setup of the Client (2)



 You have to create a synchronisation task
 (Synchronisierungsaufgabe)

→ Click here





Setup of the Client (3)



Synology Drive Client Address: Stellen Sie die Verbindung zu Ihrem Synology NAS her und beginnen Sie mit der srv-mla.fsr.maschinenbau.tu-darmstadt.de Datensynchronisierung Mit Ihrem Synology NAS verbinden: Username and password Q srv-mla.fsr.maschinenbau.tu-darmstadt.de mla.student Activate this Checkbox Enable SSL data transmission encryption Click on Weiter —— Weiter Zurück Proxy

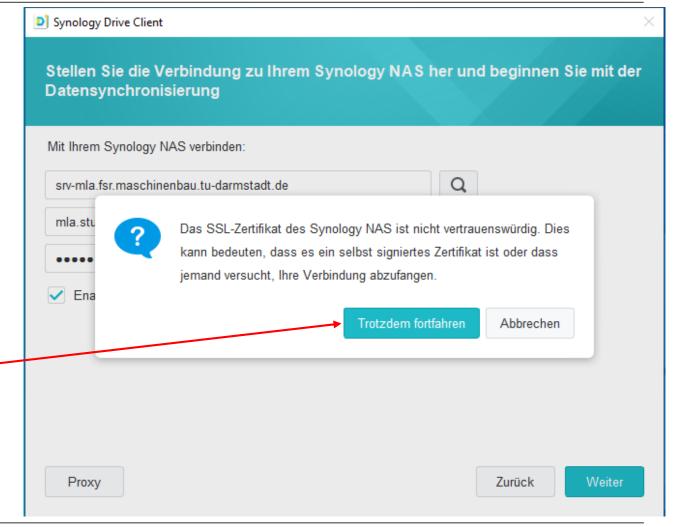


Setup of the Client (4)



In case you receive a message that the program does not trust the certificate — ignore it. The certificate is certified by Deutsche Forschungsnetzwerk which you can verify in your browser by accessing the URL and opening the details of the certificate.

→Click on *Trotzdem fortfahren*

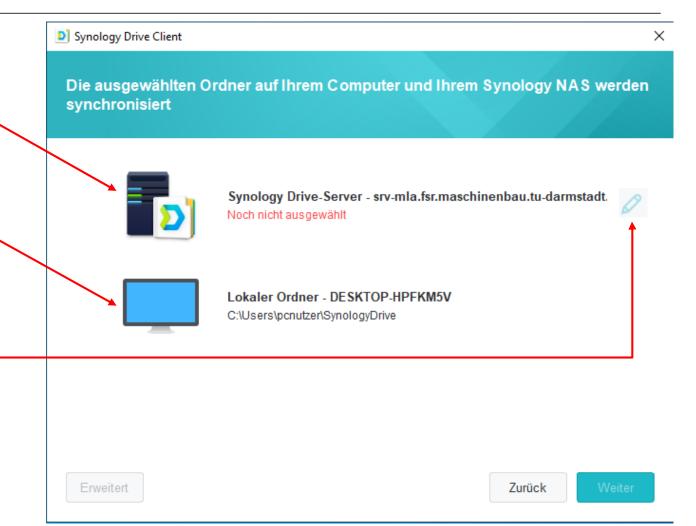




Setup of the Client (5)



- You have to select a remote folder (on server) that should be synchronised
- You have to select a local folder (on computer) that should be synchronised
- → First hover over the first entry and click on the pencil on the right (the pencil is only visible when you hover with the cursor over the entry)





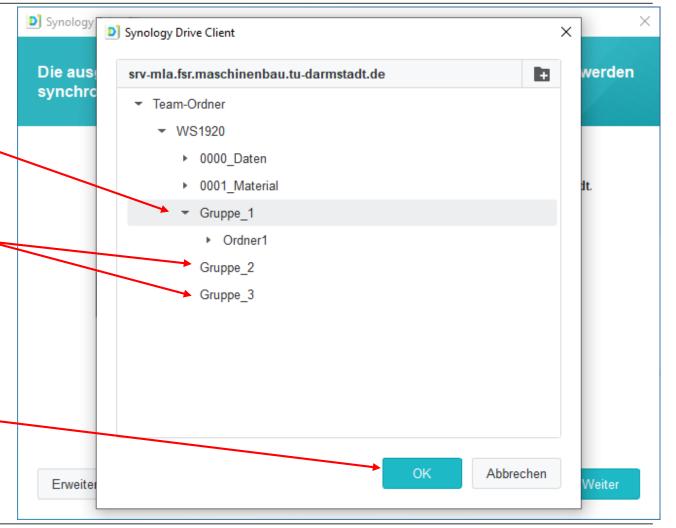
Setup of the Client (6)



 Open the tree and navigate to the folder of your group and select it (e.g. Gruppe_1)

It might happen that you see folders of other groups, however, it's <u>not</u> possible to access them

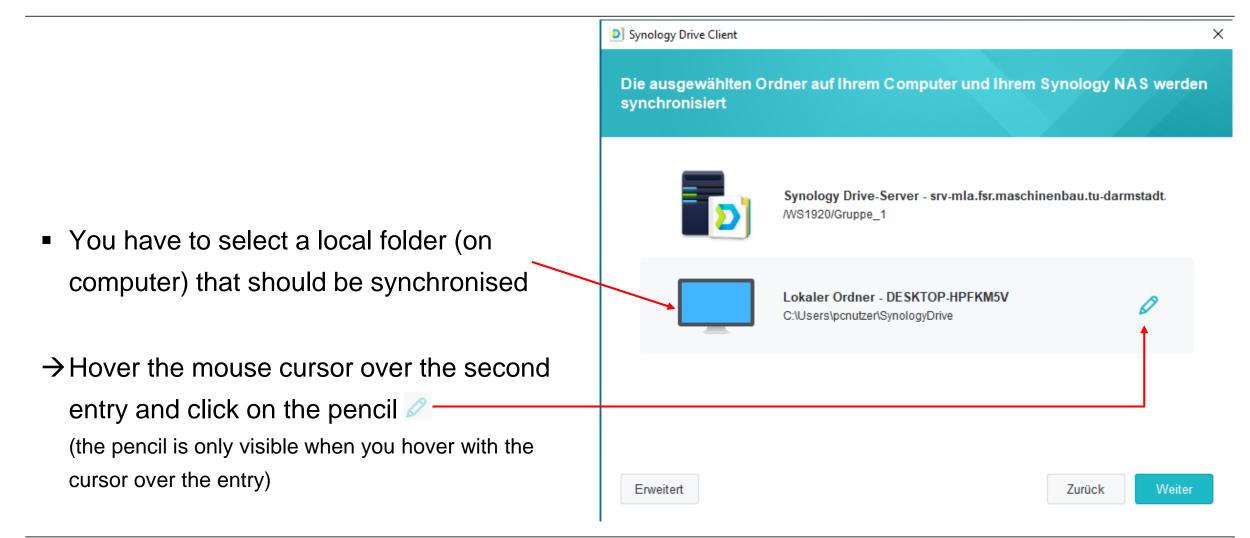
→ Click on OK to confirm your folder selection





Setup of the Client (7)



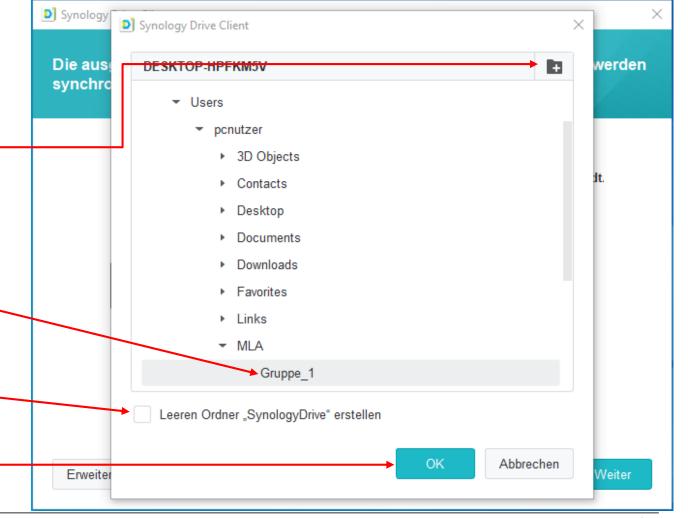




Setup of the Client (8)



- In the tree view navigate to the folder in which you want to store the data
- Create a new folder and name it MLA
- In the folder MLA create another folder named as your group (e.g. Gruppe_1) and select this folder
- Uncheck the Checkbox
- → Click on *OK* to confirm the folder selection





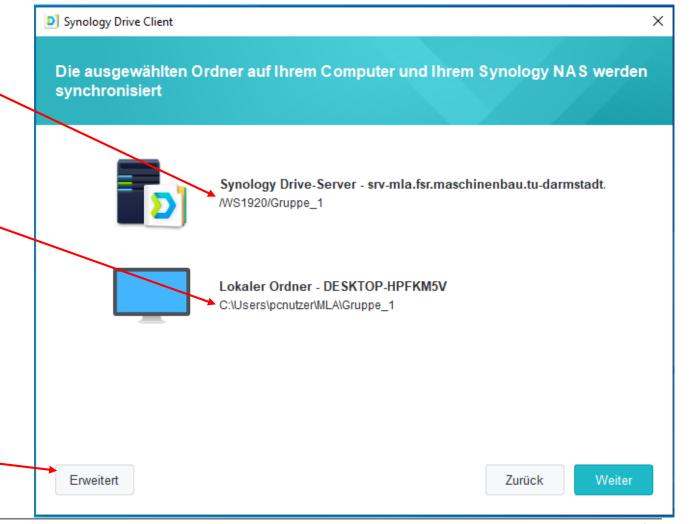
Setup of the Client (9)



 It should now look like this for the server folder

 Here you should see the path to your folder for your group on your computer

Click on *Erweitert* for advanced settings



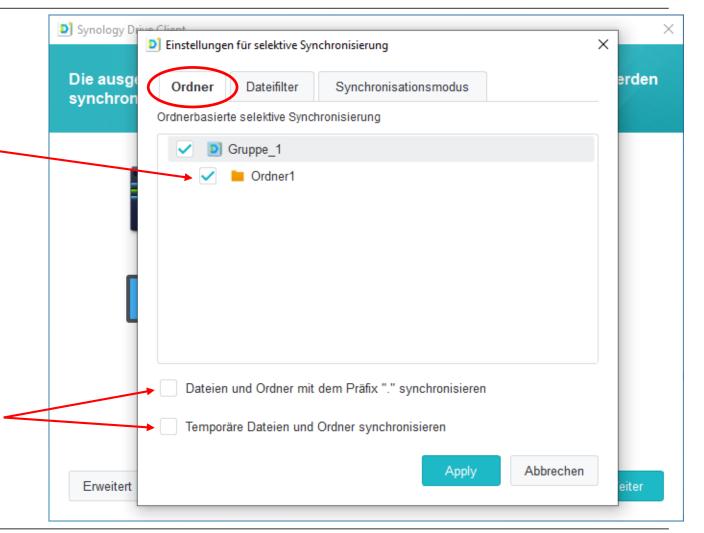


Setup of the Client (10)



 You can deselect or select subfolders to prevent their synchronisation by removing the hook in the checkbox

 Make sure these checkboxes are not checked



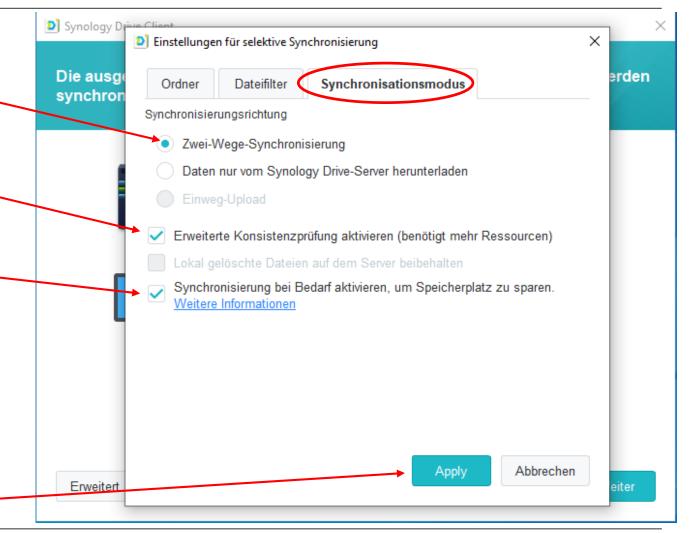


Setup of the Client (11)



- Select Zwei-Wege-Synchronisierung it upand downloads files (recommended)
- It's recommended to check this box
- This option enables on-demand synchronisation, if you want so (currently only available for Windows)

 If you check this, you should make sure that you are always connected to the internet, since it's necessary to access files on-demand when they were not downloaded yet
- → Click on *Apply* to confirm your settings



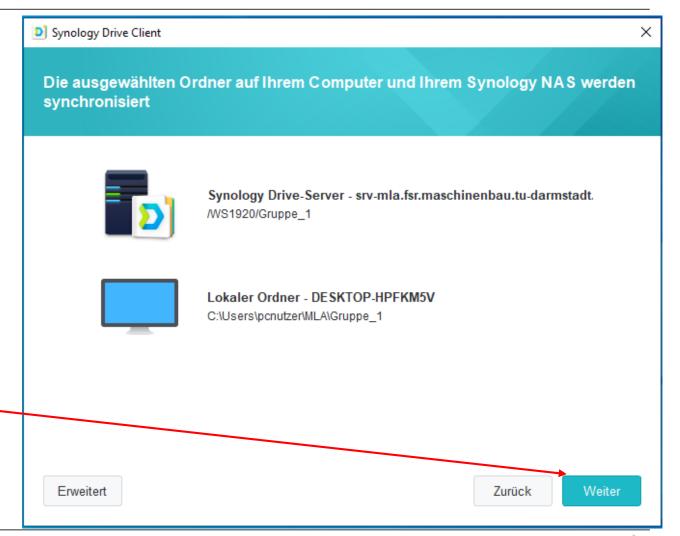


Setup of the Client (12)



After adjusting the advanced settings you can continue

→ Click on Weiter



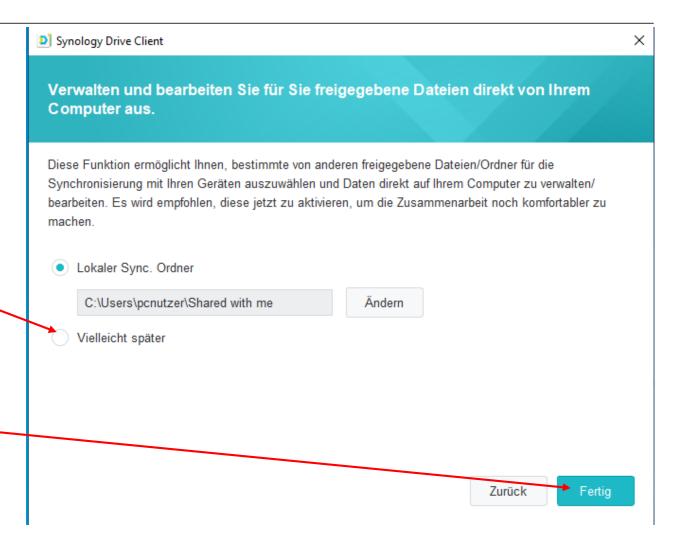


Setup of the Client (13)



You don't need to accept the proposal of the program to create a further folder for the *Shared with me* files. It's recommended to select *Vielleicht später*, because this feature is typically not necessary.

→ Click on *Fertig* to finish the configuration

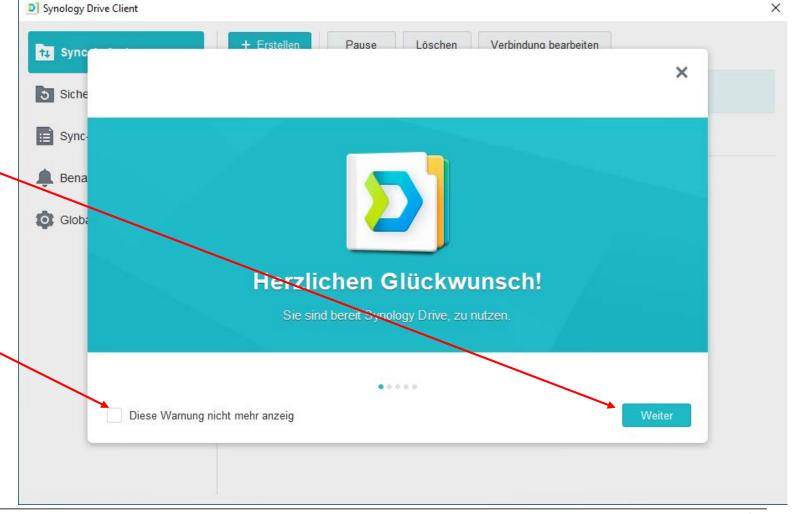




Setup of the Client (14)



Mark the Checkbox at the bottom to prevent the introduction screen to open again an click through the introduction by clicking on *Weiter*

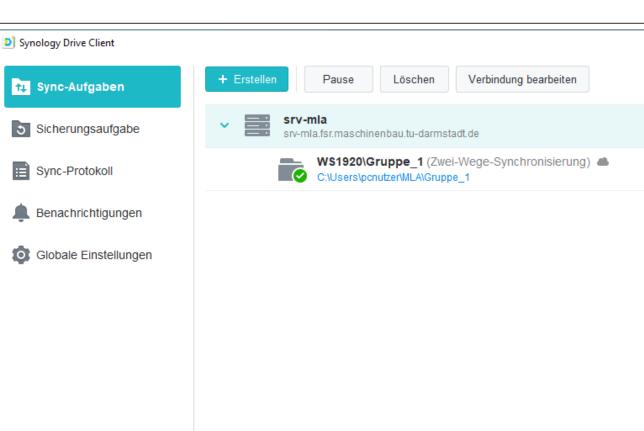




Setup of the Client (15)



- The synchronisation runs in the background
- You can close the window
- Clicking on *Erstellen* opens the configuration wizard for further folders
- In case the synchronization stopped working for any reason check whether you can click on *Resume* where the *Pause* button is shown in the picture

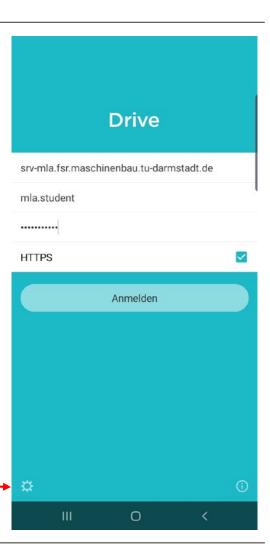




Android und iOS App



- Drive App exists for Android and iOS to access the service via mobile devices
 - Android: https://play.google.com/store/apps/details?id=com.synology.dsdrive
 - iOS: https://apps.apple.com/de/app/synology-drive/id1267275421
- Setup
 - Adress: srv-mla.fsr.maschinenbau.tu-darmstadt.de
 - Enter username and password
 - Check HTTPS option
- In case you receive a certificate error: open the settings and deactivate Zertifikat überprüfen





Contact / Questions / Problems



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