



Share Permissions

Task 1

Start a PowerShell as an administrator.

In the data pane, create an *Exchange* folder and create users *otto* with password *o* and *bernd* with password *b*. Assign the permissions as follows after deactivating and deleting the inherited rights:

- Custom UserFull Control (FA)
- *Otto* Change (MA)
- *bernd* Change (MA)

Use the *New-SmbShare* cmdlet to share the folder. The share name should be a *swap folder*, and 20 users should be able to access the share at the same time.

Test the sharing by going to <\\localhost\Exchange Folder> in Windows Explorer . (With *Windows key + L* jump directly to typing the address.) Create a file *access.txt* with content *Administrator has access via the share* (via PowerShell 😊, of course).

Task 2 (Bonus)

Configure the sharing rights of the *Tausch* folder as administrator so that both *otto* and *bernd* can write to the file *access.txt*. To do this, use explicit permissions for the two users.

Test your settings extensively:

Access the folder only through sharing. Then use *otto* and *bernd* to create text files in the *exchange folder* and delete them mutually.

Task 3 (Bonus)

Delete your sharing rights from task 2 and give *otto* and *bernd* write access to the file *access.txt* by adjusting the sharing rights of the *Everyone* suitable group.

What sharing rights do you need to assign so that the rights are exactly the same as NTFS rights when accessed via the share?



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Task 4

Limit the number of users allowed for the swap folder to 1. Log out as an administrator.

Log in as *otto* and access the share. To the text file, add the line *otto has access via the share*.

In Windows Explorer (in a new window if necessary), navigate to the path *C:\Data Range\Exchange* and append the text *otto has access via NTFS* to the file *access.txt*.

Switch the user without logging out *with Host + Delete*.

Log in as *bernd* and try to access the share as well. What message do you receive?

In Windows Explorer, navigate to the path *C:\Data Range\Exchange* and append the text *bernd has access via NTFS* to the file *access.txt*. Explain why the access works here.

Task 5 (Bonus)

In general, consider the interaction between NTFS rights *N* and sharing rights *S*. Develop a formula or describe in words how *N* and *S* can be used to determine the permissions for a user who accesses through the share.