

Secure storage of sensitive data

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Schlüsselwörter

Boxcryptor Cryptomator Datensicherheit Verschlüsselung

Lösung (öffentlich)

The following options are available to you for storing data:

-

unencrypted storage on a ZIH group drive designated for files with high security requirements

-

storage on SharePoint in a secure area

-

encryption using "Cryptomator Hub" (commercial version)

-

encryption using "Cryptomator" (free version)

You can find a brief description of these options below, which should help you pick the system that suits you best.

Please note: If you process sensitive data on your computer, the local data carriers must be encrypted (on a Windows system using Bitlocker).

Unencrypted storage on a ZIH group drive designated for files with high security requirements

Characteristics:

-

The data is only encrypted during its transfer, server administrators have access

Requirements:

-

the data has a maximum security requirement of "high" (not "very high")

-

access by central administrators of TU Dresden does NOT have to be excluded (e.g. by legal requirements or conditions in cooperation agreements)

-

only members of the TU Dresden should have access

Sharepoint for files with high security requirements

Characteristics:

-

The data is only encrypted during its transfer, server administrators have access

Requirements:

-

the data has a maximum security requirement of "high" (not "very high")

-

access by central administrators of TU Dresden does NOT have to be excluded (e.g. by legal requirements or conditions in cooperation agreements)

-

only members of the TU Dresden should have access

Encryption using "Cryptomator Hub" (commercial version)

Characteristics:

-
Encryption of local folders on your computer, network drives or even folders from cloud providers possible

-
The files are encrypted and stored in a "safe"

-
"Cryptomator Hub" offers key management similar to Boxcryptor:

-
Each user logs onto Cryptomator Hub and gains access to the corresponding safes through group authorizations

-
No safe passwords need to be shared

-
And the safe passwords do not need to be changed if there are changes in the team

-
"Cryptomator"/"Cryptomator Hub" does not allow different authorizations within an individual "safe," meaning that theoretically more safes are necessary than with Boxcryptor

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The use of storage services other than those mentioned above is also possible (e.g. Nextcloud/Datashare, MS365)

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Costs for users: the software can be procured centrally, but must be reimbursed by the decentralized organizational units/projects; annual costs of approx. EUR 70 per user are expected

Prerequisite:

-
the data may also have a "very high" security requirement

-
Access by central administrators of TU Dresden must be excluded (e.g. by legal requirements or conditions in cooperation agreements)

-
Non-TUD members should be able to access the data without a ZIH login

Encryption using "Cryptomator" (free version)

Characteristics:

-
Encryption of local folders on your computer, network drives or even folders from cloud providers possible

-
Files are encrypted and stored in a "safe"

-
1 password per "safe"

-
Safe passwords must be shared within the team

-
If there are staff changes in the team, safe passwords must be changed!

-
"Cryptomator" does not allow you to set different authorizations within an individual "safe", meaning that theoretically more safes are necessary than with Boxcryptor

-
The use of storage services other than those mentioned above is also possible (e.g. Nextcloud/Datashare, MS365)

Prerequisite:

-
the data may also have a "very high" security requirement

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Access by central administrators of TU Dresden must be excluded (e.g. by legal requirements or conditions in cooperation agreements)

-
Non-TUD members should be able to access the data without a ZIH login

The instructions for setting up Cryptomator as well as on migrating data from Boxcryptor can be found [1]here.

[1] <https://faq.tickets.tu-dresden.de/otrs/public.pl?Action=PublicFAQZoom;ItemID=1264>