



SUNET

Sunet Drive



2022-10-20

Agenda

General Information

- What is Sunet Drive?
- Research data – a model
- Data Integration
- Nodes and buckets
- Follow your data

• Getting Started

- Log on to Sunet Drive
 - Federated Cloud ID
 - External Collaborators
 - Collaborative Editing
 - Sunet Forum
 - Who uses Sunet Drive?
 - Future
-
- Two price models

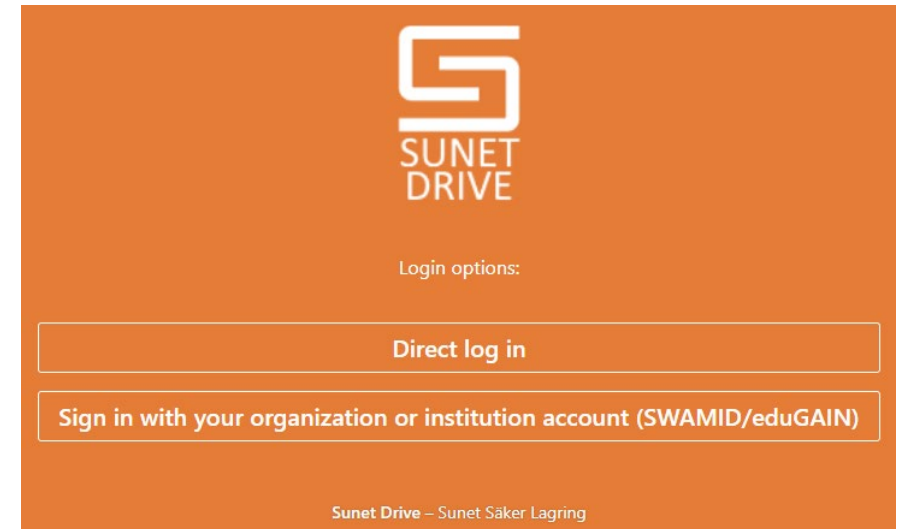
Anecdote

Thanks for the detaljer information! I will be ending my employment this Saturday, so am looking for some solution where the data will not be deleted due to the deactivation of my akka id and where it would be accessible by my PI in the future.

Wednesday, 10:51

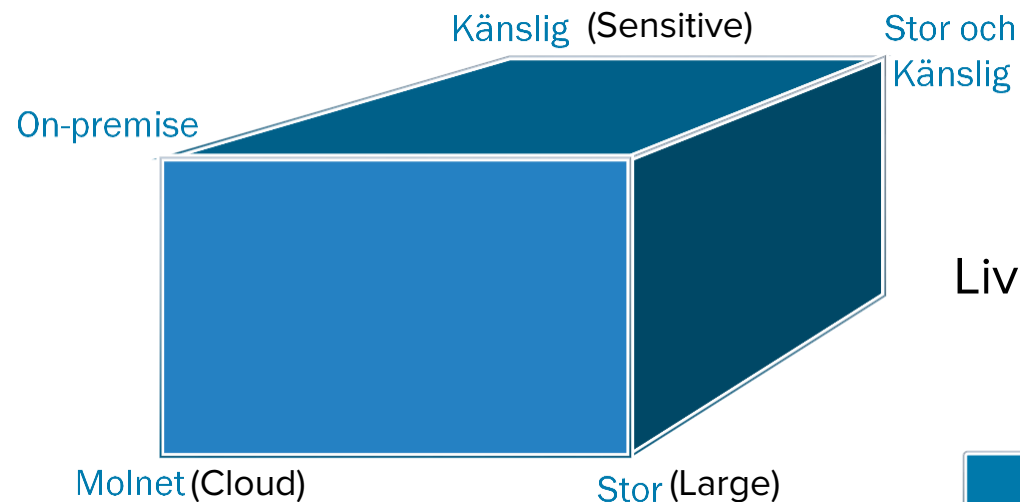
What is Sunet Drive?

- Sunet Drive is a file storage solution based on Nextcloud
- Researchers can store and share data with their peers
- Data is hosted on Swedish servers in two locations (a third location is coming)
- Nodes of Sunet Drive are co-managed with the Universities
- Sunet Drive is GDPR-compliant
- Everyone can use Sunet Drive
- Not everyone can store data
- Everyone can receive shares



Research Data – A model

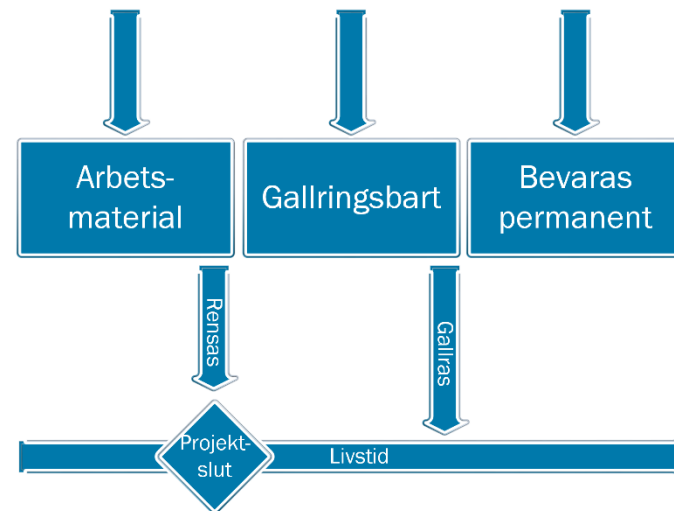
Classification



How do you access data?

Where is my data?

Lifecycle



Gallring

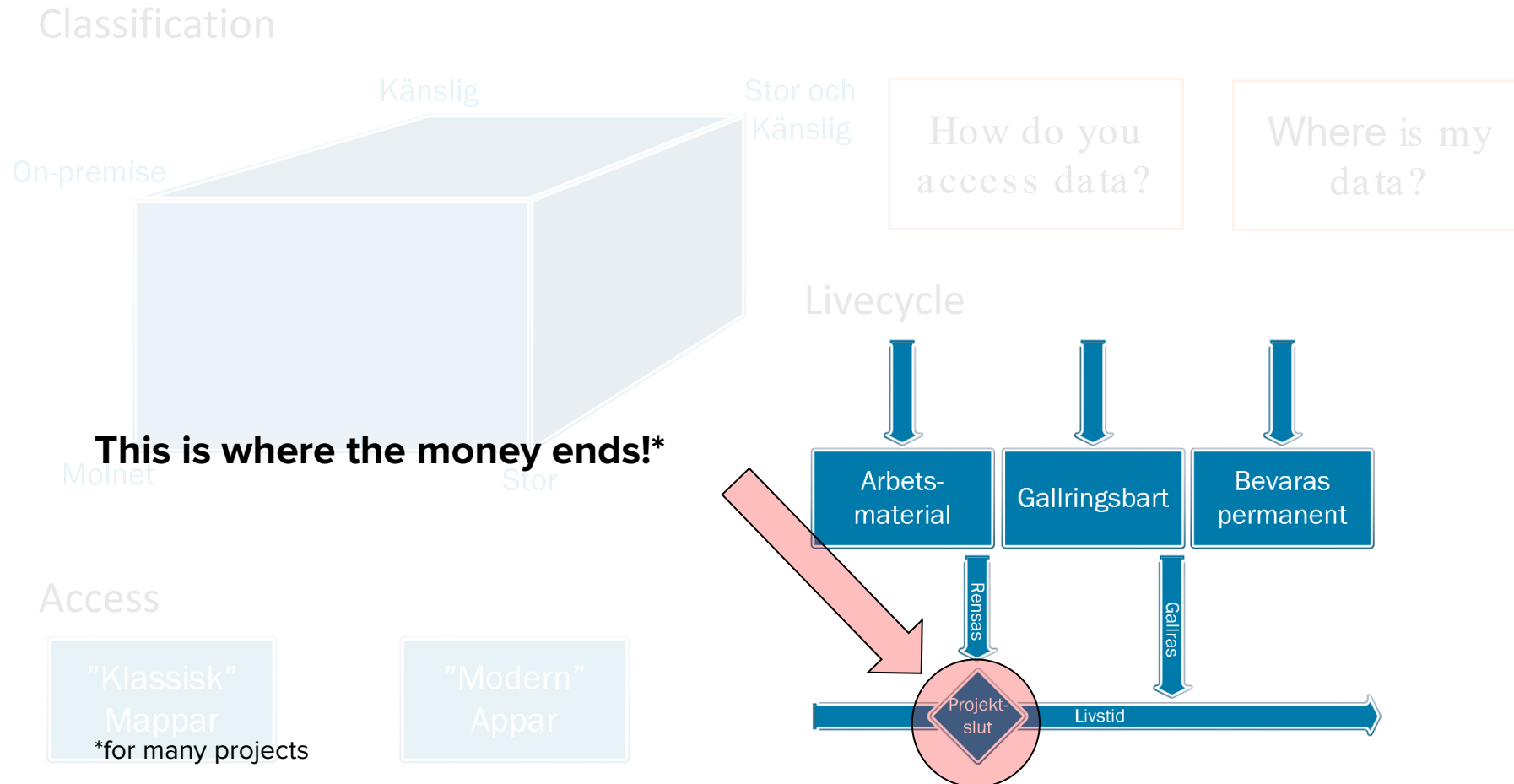
Swedish word for the thinning of forests. Certain trees are marked for cut down in the future.

Data retention is the term mostly used in English.

Access

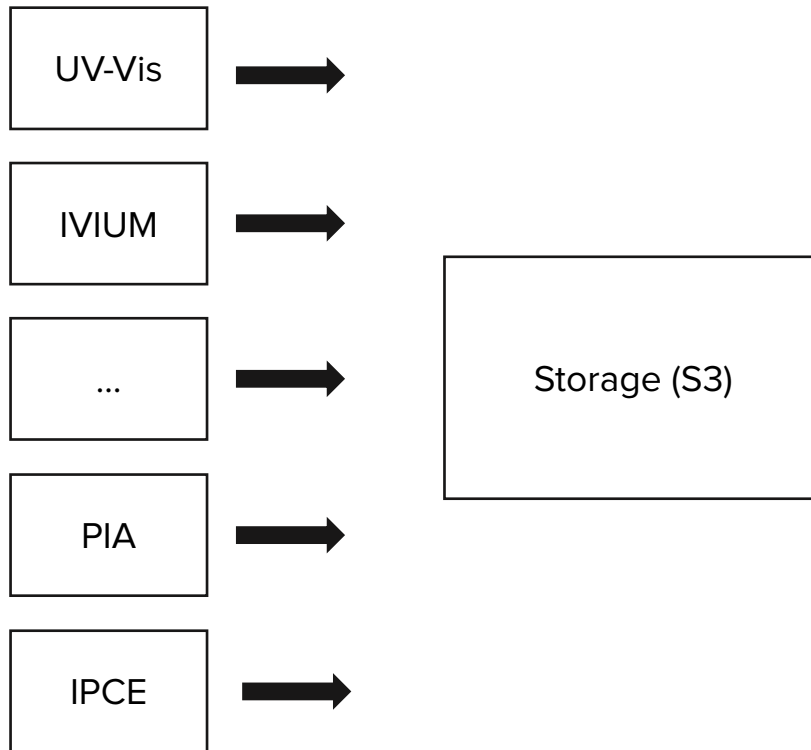


Research Data – A model



Example - Integration

Primary data sources



Access

- BoxSync - jusoi-pukan@eduid.se@su.nextcloud.dev.safedc.services
- Group2ExternalStorage - user3@nv3.dev.nextcloud.safedc.services
- Nextcloud - richard@family.box.mfreetag.com
- Nextcloud - user3@nv3.dev.nextcloud.safedc.services

```
mount: can't find https://espace.simulo.uu.se/sites/UADM-DOKU/Documents in /etc/fstab
efss@EPSS-Linux:~$ sudo mount -t davfs https://espace.simulo.uu.se/sites/UADM-DOKU/Documents UADM-DOKU
Please enter the username to authenticate with server:
https://espace.simulo.uu.se/sites/UADM-DOKU/Documents or hit enter for none.
Username: testforskade
Please enter the password to authenticate user testforskade with server:
https://espace.simulo.uu.se/sites/UADM-DOKU/Documents or hit enter for none.
Password:
efss@EPSS-Linux:~$
```

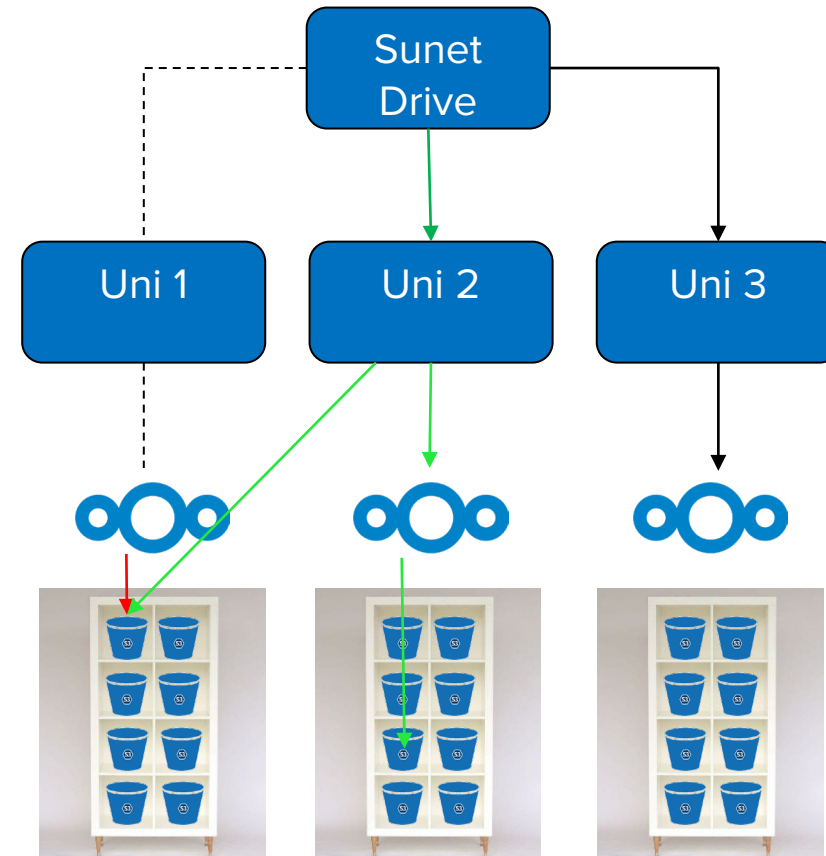

Nodes and Buckets

- Main storage unit is an S3-bucket
- A bucket is comparable to a virtual hard disk
- NextCloud is the access layer to the bucket
- Individual buckets represent "storage entities" (research project, lab, institution)
- Core-data resides in the bucket independent from NextCloud
- Buckets are (relatively) agnostic and can be migrated easily



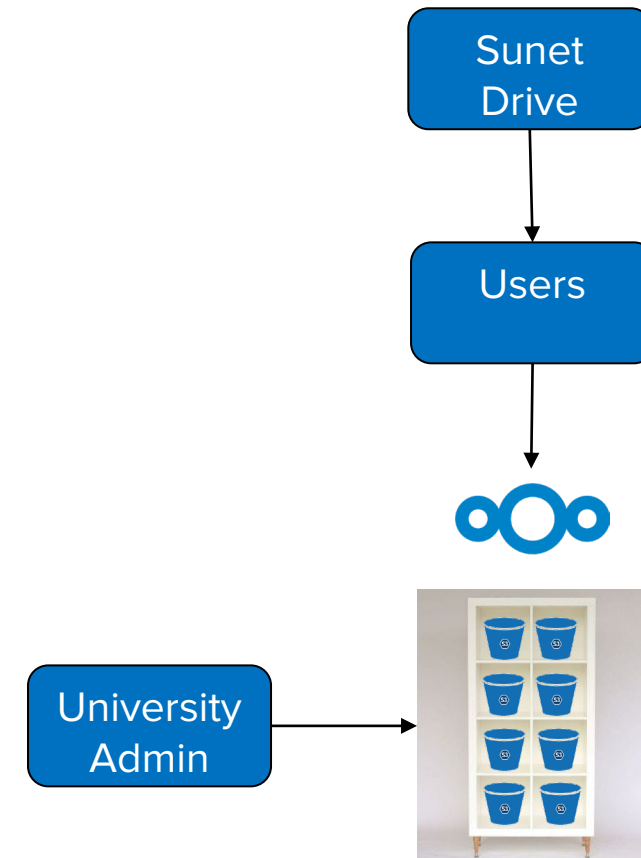
Follow your data

- Many researchers change institutions frequently
- Many researchers take their research data with them
- With NextCloud you can follow your data even from a new organisation
- Every university gets their own NextCloud node
- The node is part of a "global scale" and can collaborate with other nodes
- The node is co-managed with Sunet
- **Separation of access vs ownership**



Own your data

- Universities administrate their own storage (buckets)
- Universities can create as many buckets for research projects or labs as needed and integrate them into NextCloud
- Existing data can be migrated into buckets and indexed by NextCloud (i.e. external hard disks or other "Shadow-IT")

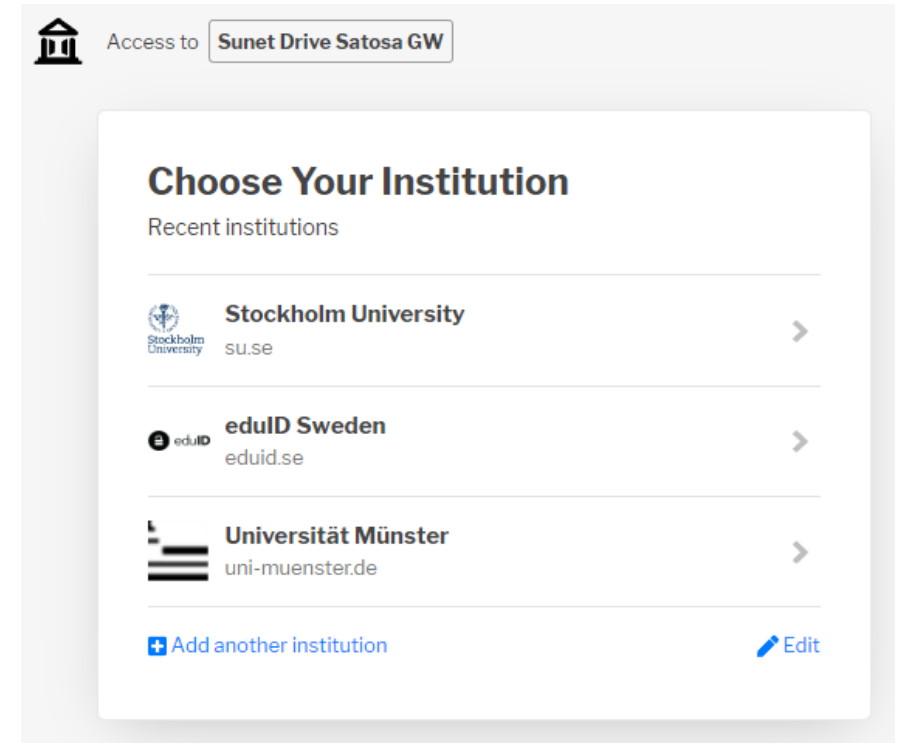


Getting Started

Log on to
<https://drive.sunet.se>

Log on to Sunet Drive


- Use your Swedish SSO to log on to your Sunet Drive Node
- Use your international SSO to create a user account (~6000 Identity provider world wide)
- Create an account with eduid.se for international collaborators




Your Federated Cloud ID

- Is your unique username to be found in Sunet Drive
- Is a combination of your local user ID and Sunet Drive Node
- Can be found under Settings --> Sharing
- If you change institution (i.e., university), you will get a new Federated Cloud ID

Your Federated Cloud ID: **tene3253@su.se@su.drive.sunet.se** 

Your Federated Cloud ID: **freitag@sunet.se@sunet.drive.sunet.se** 

Your Federated Cloud ID: **bamoh-nator@eduid.se@extern.drive.sunet.se** 

External Collaborators

- Euid.se is a Swedish identity provider (IdP)
- An e-mail address is enough to create an eduid
- Euid can be used for Sunet Drive and other services
- We do **not** support google, facebook, apple, telegram, github, amazon, discord, or anything else to log on to Sunet Drive

Log in

Welcome back, **Richard Freitag!** [Not you?](#)

Username
freitag@sUNET.se

Password*
●●●●●●●●●●●●●●●●●●●● [SHOW](#)

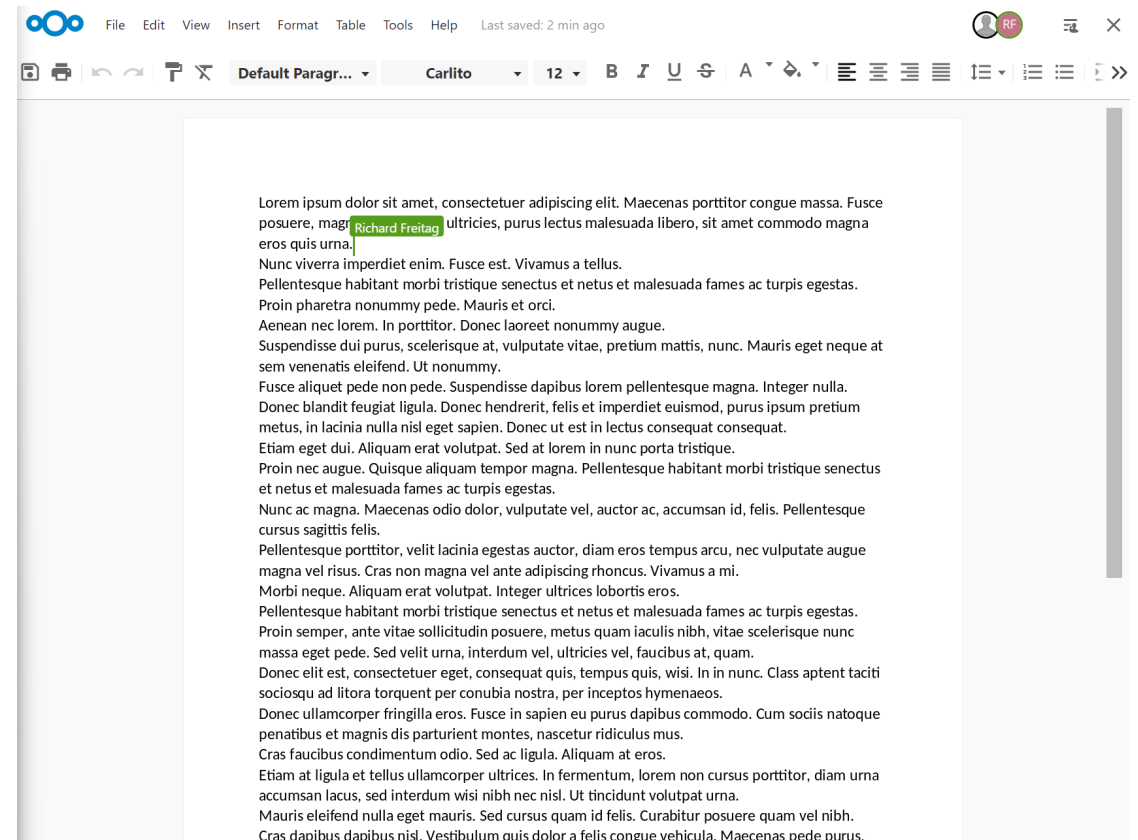
[CANCEL](#) [LOG IN](#) [OTHER DEVICE](#)

[Forgot your password?](#)
[Don't have eduid? Register](#)

Remember me on this device

Collaborative Editing

- Documents can be edited collaboratively online with Collabora Office
- Support for documents, spreadsheets, presentations, diagrams
- Uses open document type (.odt) as default, but is compatible with Word (.docx)
- Word can still be used for individual editing



Sunet Forum

- Central point of documentation for Sunet Drive
- Information Stream
- Files
- Wiki
- Information for users and administrators

<https://forum.sunet.se/s/sunet-drive/>

- ≡ 📄 Admin-Walkghrough - Including Dos and Don'ts
- ≡ 📄 Creating Write-Only Folders
- ≡ 📄 Different nodes of Sunet Drive
- ≡ 📄 E-Mail Notifications for new shares and other things
- ≡ 📄 eduID and two factor authentication - TFA
- ≡ 📄 eduID for external collaborators
- ≡ 📄 File numbers and file sizes in Sunet Drive
- ≡ 📄 Ignored - and otherwise problematic - files and filenames
- ≡ 📄 Mac sync-client logon
- ≡ 📄 Managing S3 buckets in Sunet Drive
- ≡ 📄 Migrating files from Box - Or another cloud service
- ≡ 📄 MSBFS 2020:7 and Sunet Drive
- ≡ 📄 National and International Collaborators
- ≡ 📄 Nextcloud iOS app on TestFlight
- ≡ 📄 Nextcloud Synchronization Clients
- ≡ 📄 Share files and folders via e-mail and other nodes
- ≡ 📄 Sunet Drive
- ≡ 📄 Sunet Drive onboarding process
- ≡ 📄 Synchronizing with multiple accounts and instances
- ≡ 📄 Synchronize any local folder with Sunet Drive
- ≡ 📄 Use an application password with your Nextcloud sync-client
- ≡ 📄 User management in Sunet Drive
- ≡ 📄 Using rclone to mount Sunet Drive folders in Linux
- ≡ 📄 WebDAV on Linux

Who uses Sunet Drive?

SUNET Drive

GiH

HH

HKR

KAU

MDU

SUNI

SU

SUNET

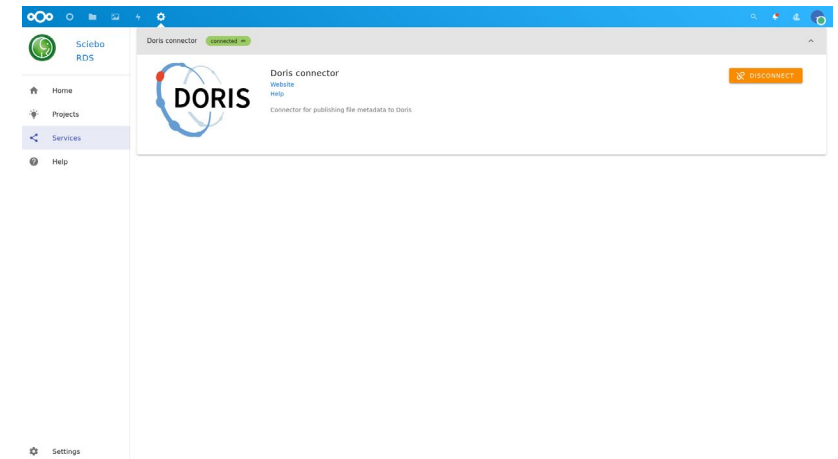
SciLifeLab

Non affiliated SUNET customer

<https://status.sunet.se>

Open Issues and future plans

- Data Management Plan
 - No universal description for DMP
 - Every university has some differences with regards to handling of research data
- Publication of data
 - Under development
 - Will be possible to publish directly from Sunet Drive
 - Zenodo, SND, Harvard Dataverse
 - Uses Sciebo-RDS
 - <https://www.research-data-services.org>
- Secure Zones
 - Under development
 - Access to data that with certain security requirements
 - Certain Zones will require additional security measures to access (e.g., MFA)



Två prisplaner plan 1

- Prisplan 1:
- Denna prisplan baseras på en fast avgift per månad, och är framförallt lämpad för lite större kunder och/eller de som redan är kunder till Sunets lagringstjänst.
- Kunden ska, från det att leverans skett, erlägga en avgift baserad på följande parametrar: Antal användare i block om 500, Lagringsvolym

Post	Antal block om 500 anv. licenser	SEK/månad
Grundpris	---	24 800
Instans-pris (beroende på antalet användare i block om 500)	1	3 190
	2-3	6 380
	4-11	15 950
	12 -->	31 900
Per användarlicens (*) (minsta antal 500, köps i block om 500 st.)		2.00
Tillval:		
Lagring för kunder som inte har köpt tjänsten "Sunet lagring i privat moln". Minsta volym 5 TB, köps i block om 5 TB.		10 öre per GB/månad

Två prisplaner plan2

- Prisplan 2:
- Denna prisplan är rörlig, baserad på antalet aktiverade användare. **För varje aktiverad användare adderas 10 Gbyte till en gemensam lagringspool för Kundens användare.** Dvs det är ingen gräns för en enskild användare. Prisplanen lämpar sig främst till mindre kunder, eller som ett insteg till Sunet Drive. Det är upp till kunden att hålla reda på vilka som har tillgång till Sunet Drive
- Antalet användare och förbrukad lagringsvolym mäts dagligen. Om lagrad volym överskrider den gemensamma lagringspoolen så tas en tilläggsavgift ut. Det finns ingen begränsning i antalet användare eller lagringsvolym. Kunden ska, från det att leverans skett, erlägga en avgift baserad på nedanstående priser:
 - Pris per användare: **100 kr per månad.**
 - Kostnad för överskjutande lagringsvolym: **1 kr per Gbyte och månad.**

Tack! Frågor?