



# SUNET Drive



nextcloud



# About Safespring

*The platform of choice for European cloud computing.*



## Compute

Scalable capacity for your services



## Storage

Cost efficient large scale storage



## Backup

Enterprise Backup of virtual and physical servers



## Private Cloud

Safespring Compute and Storage in your own datacenter

# About SUNET

SUNET - the Swedish University Computer Network.

Founded in the 1980s as a research project for Swedish computer scientists - paved the way for internet in Sweden.

## SUNET today:

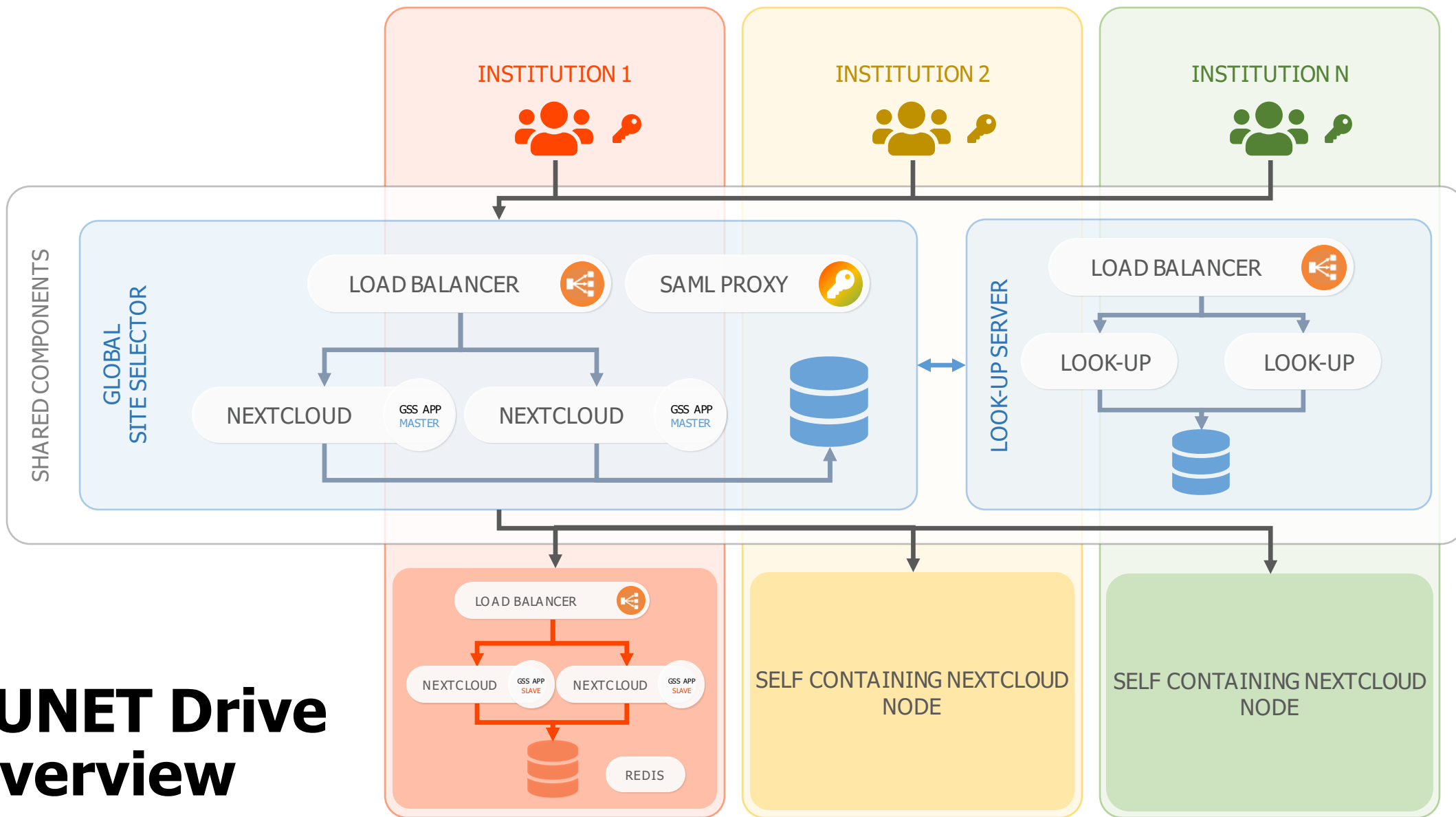
- Provide well-developed and effective national and international data communication and related services.
- Connects Sweden via 8400 km of nationwide fiber.
- Has approximately 750 000 users and 110 connected organisations.



# The need

- Research needs easy access to storage
- Increasing storage demands
- Replacement to box.net after SCHREMS 2

# SUNET Drive Overview



# SUNET Drive Overview

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

Main storage unit is an S3-bucket

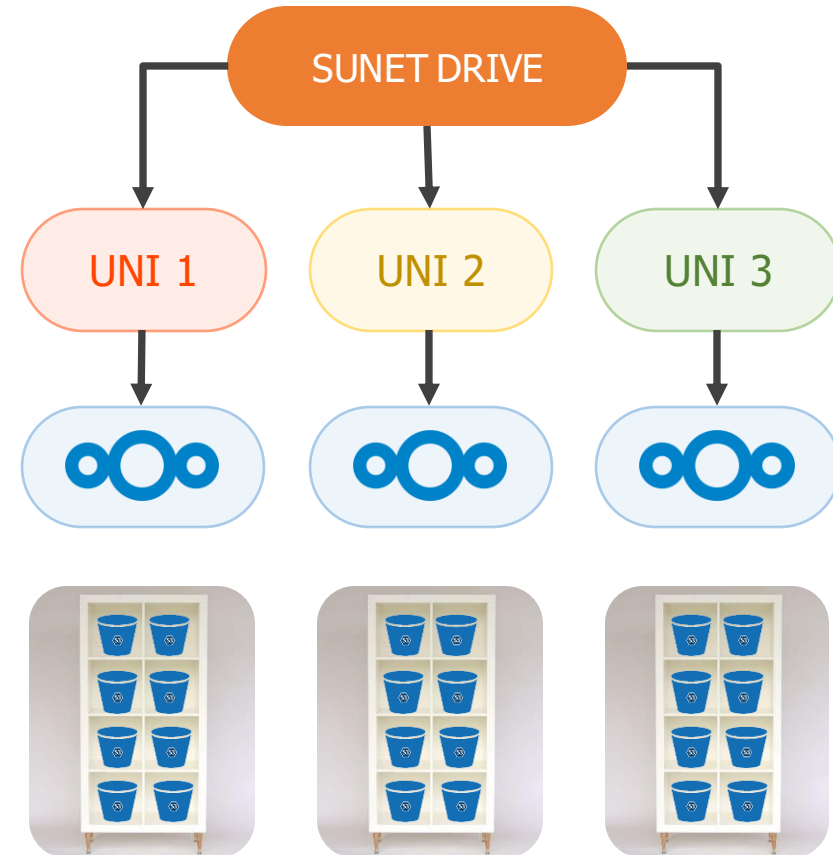
A bucket is comparable to a virtual hard disk

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 / Own your data

Most researchers change institutions frequently

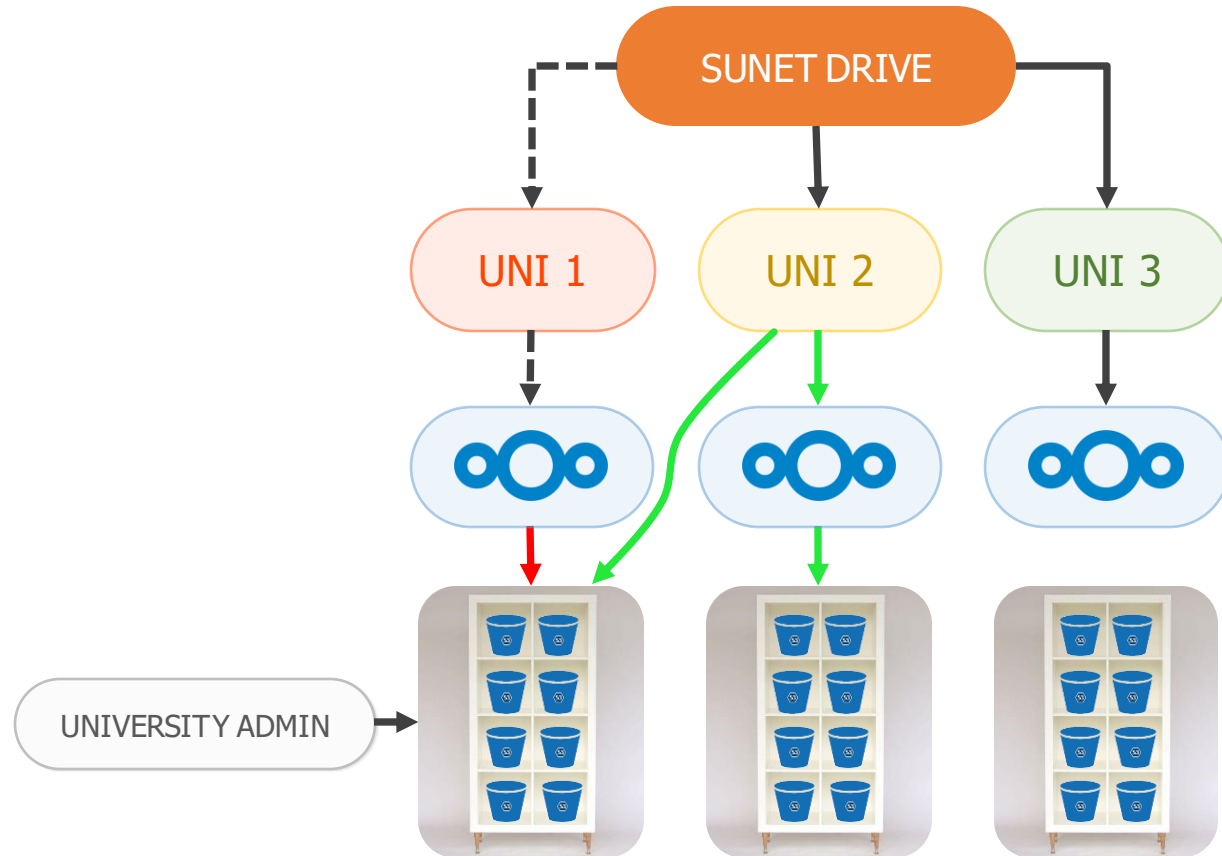
Many researchers take their research data with them

With NextCloud you can follow your data even from a new organisation

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")



# SSO with seamlessaccess.org

Nextcloud lacks support for Discovery Service

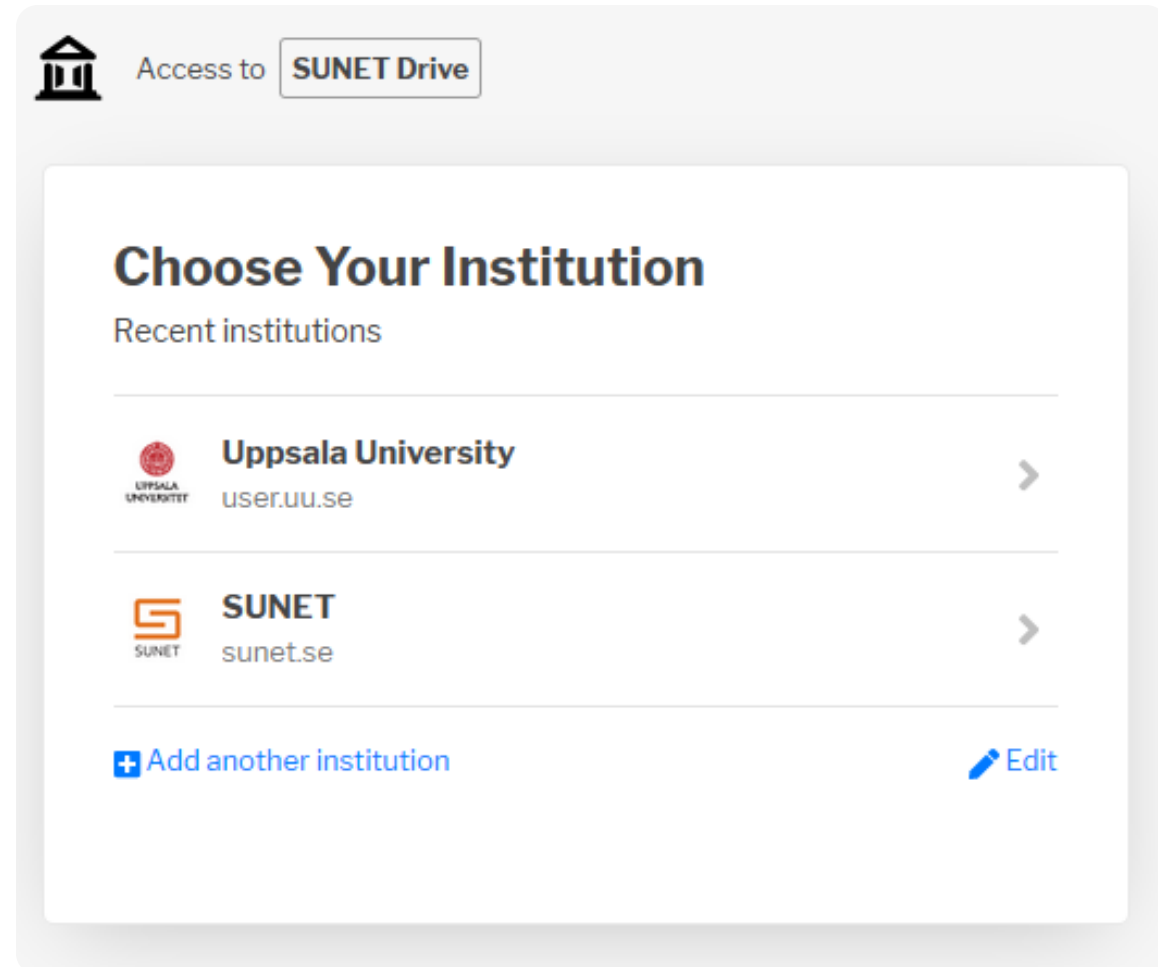
Use SaToSa for SAML2 $\leftrightarrow$ SAML2

Users can log on using any federated provider using Seamless Access

Easy collaboration

Follow your data (as a researcher)

Own your data (as an institution)





# Future

- How to migrate users from one university to another?
- Looking into slowness using S3 as backend

# Discussion

SUNET Drive

