

OCM

from the initial design to a core component of Nextcloud Hub

Looking back

From a real world implementation to a Open Standard

- Invented by Frank Karlitschek and myself 2014 as a practical solution to a practical problem.
- Implemented by Nextcloud, ownCloud, Pydio, CERNBox
- Turned real world implementation into a minimal standard → Open Cloud Mesh (OCM) together with Geant
- Move from Geant to the CS3 community
- Seafile decided to join us and we „lost“ Pydio during their rewrite.



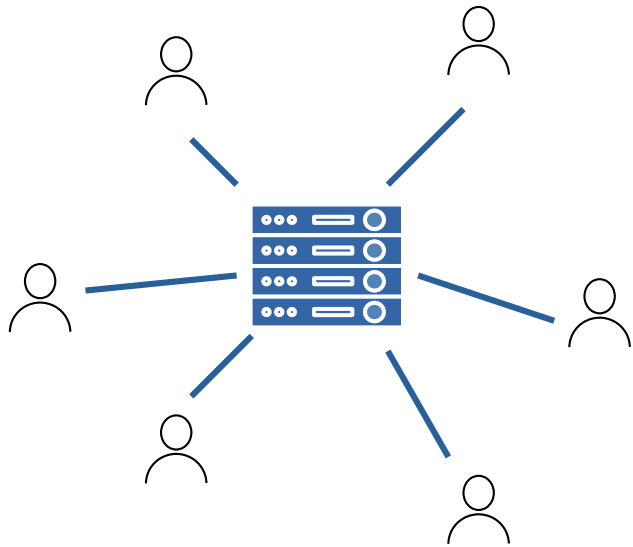
Current OCM state

- After extensive discussions we finally merged the first version and released version 1.0.0
- A test suite was developed to test your implementation against the API specification
- Now that the standard is there it is on us to build great things with it
- If we innovate on top of it we should bring the ideas back to the standard, either as a optional component or as an enhancement of the core

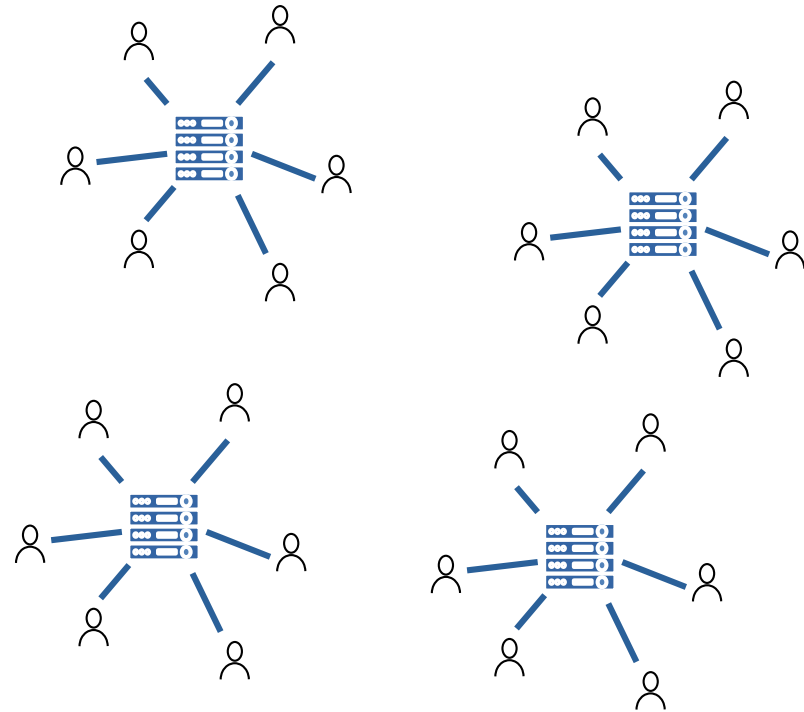


OCM @ Nextcloud

- The real world problems for which we designed OCM are still the same

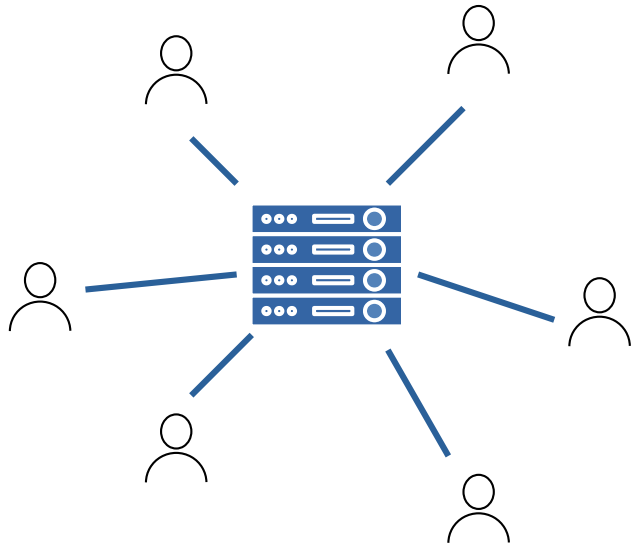


VS

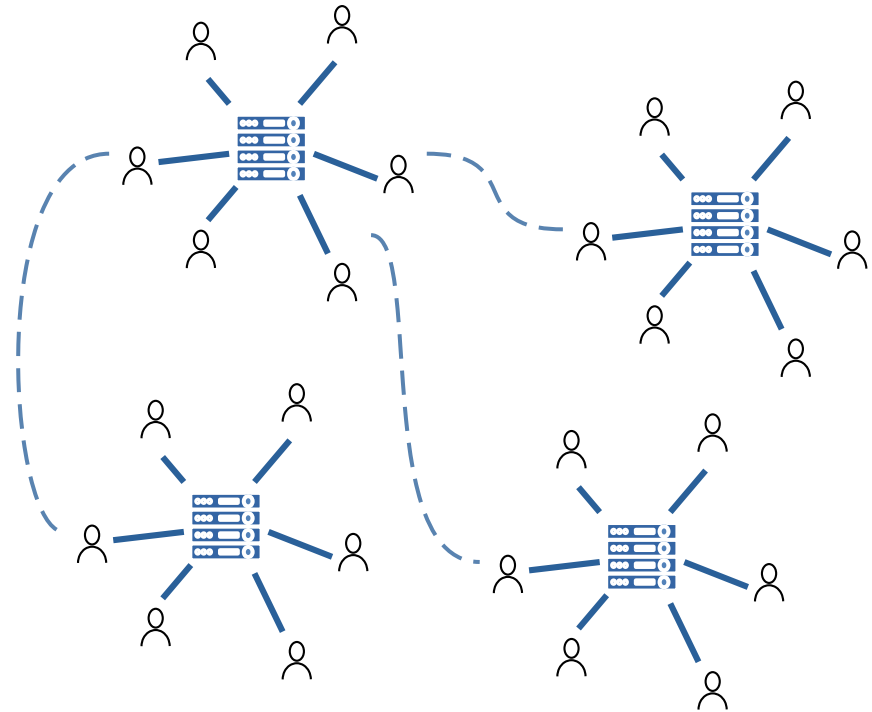


OCM @ Nextcloud

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VS



OCM at Nextcloud

- We not only bring independent *clouds together...
- ... It is also a central component for our Global Scale Architecture
- Our customers relay on it
 - American Movil
 - Renater
 - Safespring and Sunet
 - Many more



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→ Every Global Scale customer is a daily user of OCM!



Unique Nextcloud Features

Thanks to the minimal standard approach and extensibility everyone can innovate on top of the Open Standard

- Group sharing, address groups like you address users (group@nextcloudserver.edu)
- Trusted other servers as soon as you accept a share
- A global address book of independent Nextclouds
- Performance optimized re-sharing.
 - Re-Shares don't go to N servers back to the owner but directly from recipient to owner, no matter how much re-shares are involved



Innovation will continue

- Customer/Partner driven enhancements
- Use OCM as basis for federated chat rooms and A/V conferences
- Improved federated group sharing (allow to distribute group members across different Nextcloud nodes)



Be part of the Innovation

- Nextcloud is 100% Open Source
- No Copyright Assignment is needed, you are the owner of your code!
- Many places to improve OCM @ Nextcloud
 - Federated calendars
 - Federated address books
 - Federated Deck boards
 - Federated *<your favorite Nextcloud App>*



Together we can make a difference

- Digital Sovereignty is more important than ever
- I believe that the ability to run your own content collaboration platform is a important building block
- But we need to connect them. That's why we need OCM.
- Change is driven by existing implementations which make a difference in people's life
- Get in contact if you want to pick up one of my ideas or if you want to discuss your own ideas → bjoern@nextcloud.com





Thanks!