WWU
MÜNSTER

Moodle and Cloud File Sharing

Integration with ownCloud and Nextcloud

Jan Dageförde

March 27, 2018

living.knowledge

sciebo

Learnweb

ZHLdigital

- E-Learning at University of Münster
- Est. 2007
- › 20.000 Users / Week (WT 2017/18)

- Cloud file sharing service for research institutions
- 29 universities and institutions
- 5 PB storage capacity

Motivation

- Situation: Files in (own)Cloud
- Download prior to upload in Moodle – tedious!
- Moodle $\leftrightarrow$ Nextcloud historically: WebDAV plugin – however
  - no “private” storage (or hard to configure)
  - Moodle needs (and stores!) Nextcloud password ($\rightarrow$ no-go!)

Motivation

- **Goal:** Improve usability of accessing **Nextcloud** files
- **Solution:** Two plugins, support sign-on without password
- **Implementation:** OAuth 2.0, WebDAV, OCS

Collaborative Folders

Activity module

Group 1

Leah Becker	leah.becker@...
Lena Becker	lena.becker@...
Jacob Brown	jacob.brown@...
Jayden Brown	jayden.brown@...
Matěj Černý	matej.cerny@...
Olivia Davis	olivia.davis@...

Group 2

Jan Dvořák	...
Leon Fischer	...
Ava García	...
Leah Hoffmann	...
Lena Hoffmann	...
Adéla Horáková	...

Group 3

Karolína Horáková	...
Tereza Horáková	...

Group 4

Sophia Miller	...
Lukas Müller	...
Jan Novák	...
Lu[illegible]ák	...
Matěj Novotný	...
Adéla Procházková	...

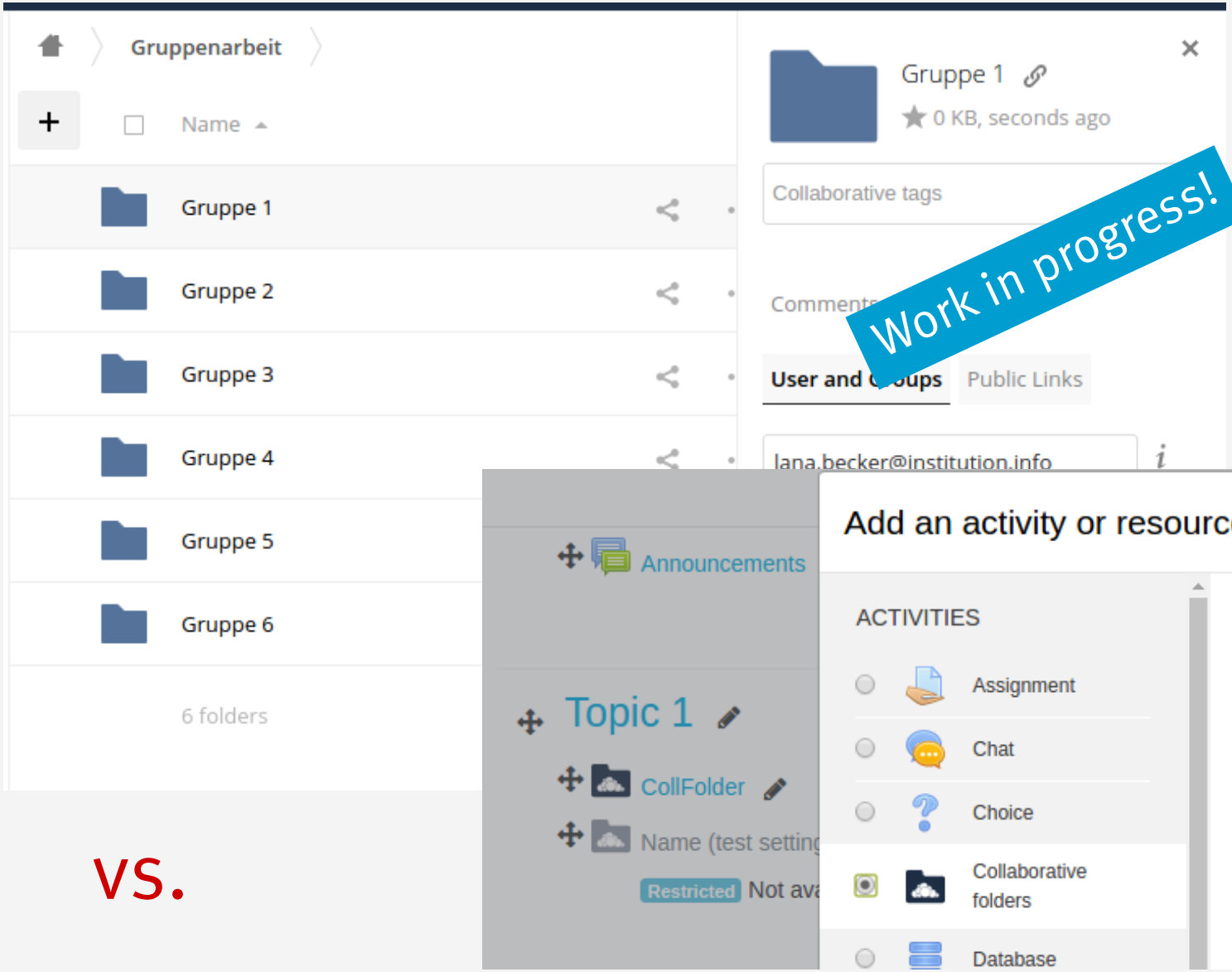
Work in progress!

Group 5

Isabella Rodríguez	...
Luca Schneider	...
Jacob Smith	...
William Smith	...
Tobias Thomas	...
Adéla Veselá	...

Group 6

Tereza Veselá	...
Hanna Wagner	...

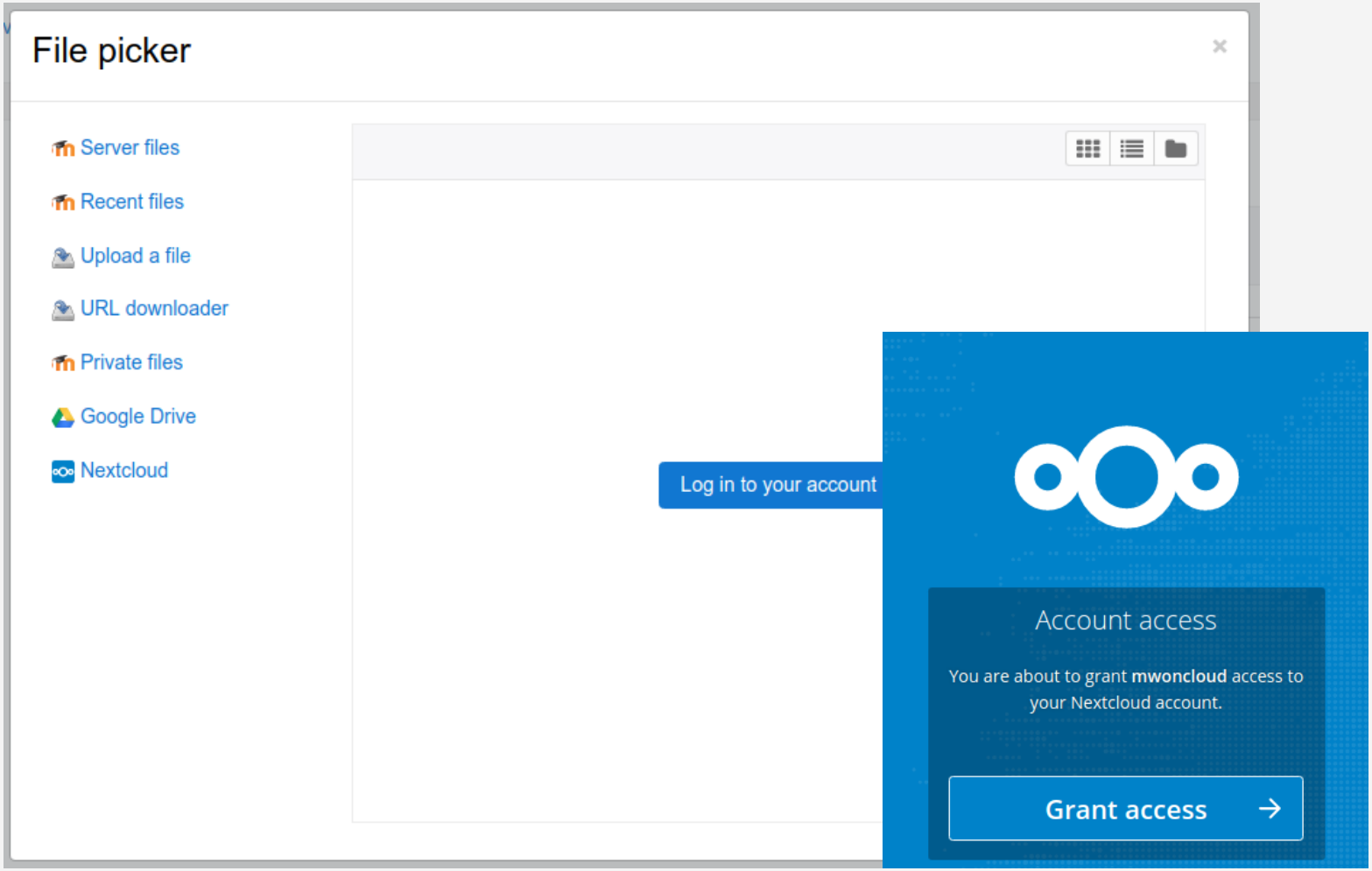

Gruppenarbeit
Name
Gruppe 1
Gruppe 2
Gruppe 3
Gruppe 4
Gruppe 5
Gruppe 6
6 folders
Gruppe 1
0 KB, seconds ago
Collaborative tags
Work in progress!
Public Links
lana.becker@institution.info
Announcements
Topic 1
CollFolder
Add an activity or resource
ACTIVITIES
Assignment
Chat
Choice
Collaborative folders
Database
Use collaborative folders to create folders
ownCloud for students for collaborative w
The folder is shared individually with mem
the chosen groups as soon as they like. Y
not need to collect ownCloud email addre
from your participants, everything is auto

VS.

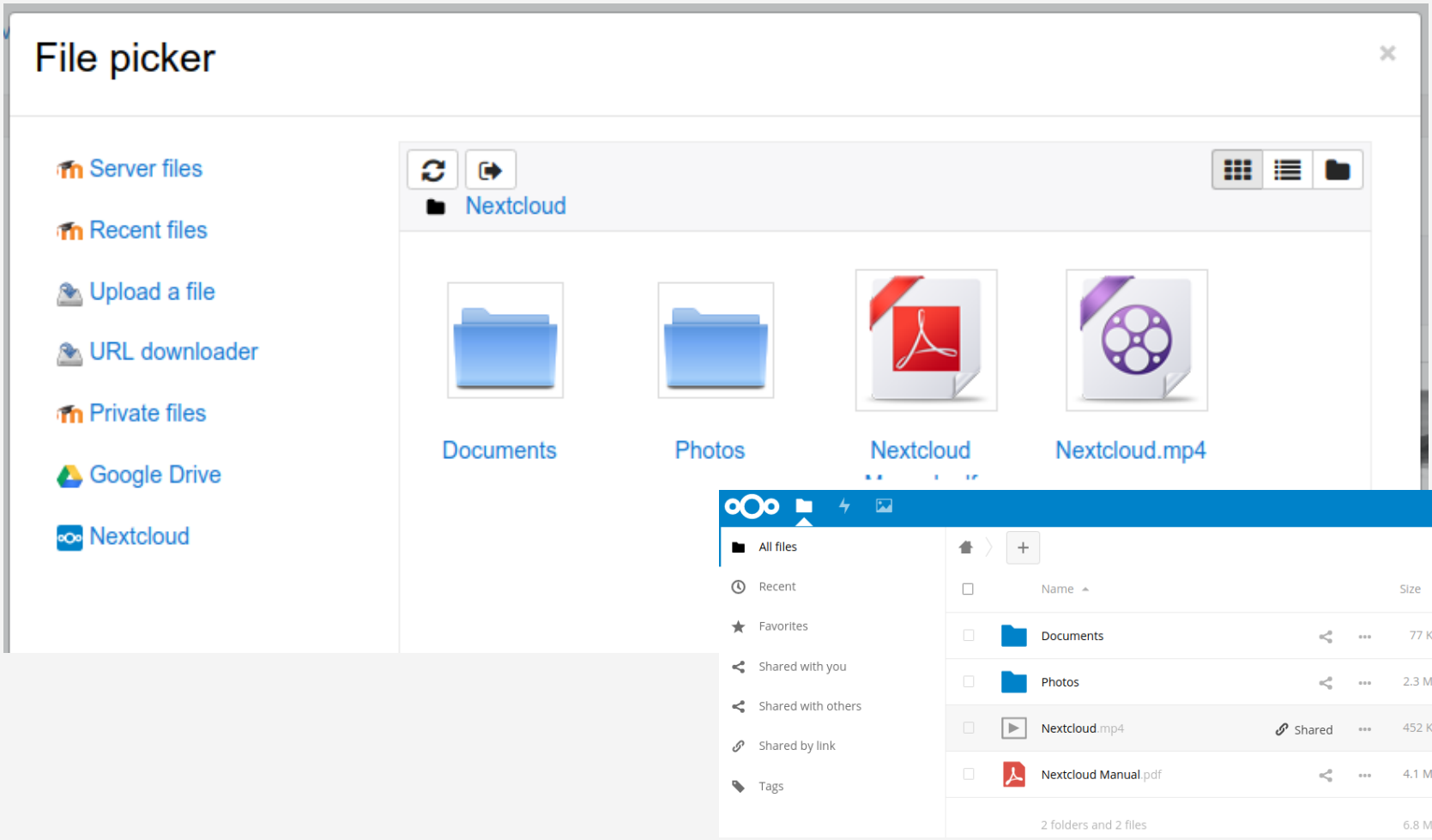
Repository

Direct file access from Moodle

Authorisation without password

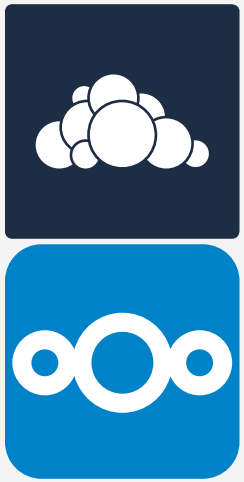


Access from file picker



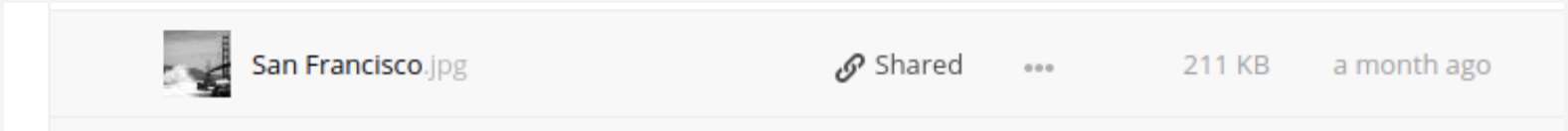
Repository

- File picker: **Upload file**
  or **link to file** (live update!)
- Plugins may prohibit using certain modes
  (e. g. mod_assign disables linking)



Implementation

- **Upload file** via WebDAV
- **Linking** uses OCS API of Nextcloud
- Linking creates public share (→ URL)
- URL is added to course as resource
- (Cave: URL may be guessed)



Useful links

- Repository plugin (Versions for ownCloud and Nextcloud!)

  `https://moodle.org/plugins/view.php?id=1879`

- Installation steps, troubleshooting, …

  `https://docs.moodle.org/en/ownCloud_Repository`

- Collaborative Folders activity (in development)

  `https://github.com/learnweb/moodle-mod_collaborativefolders`

Jan Dageförde
WWU Münster

j.d@wwu.de
http://erc.is/p/j.d
https://keybase.io/dagefoerde

ZHLdigital

Learnweb