

# E-Learning und Cloud File Sharing

Integration von ownCloud/Nextcloud und Moodle

Jan Dageförde

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- ▶ E-Learning-Angebot der WWU Münster
- ▶ Seit 2007
- ▶ > 20.000 User / Woche (WS 2017/18)

- ▶ Cloudspeicher für NRW-Hochschulen
- ▶ 13 FHs, 9 Universitäten, 1 Forschungsinstitut
- ▶ 5 PB Speicherkapazität



# Motivation

- ▶ Situation: Dateien in (own)Cloud
- ▶ Erst herunterladen, dann hochladen – umständlich
- ▶ Moodle ↔ ownCloud historisch: WebDAV-Plugin – aber
  - ▶ WebDAV-Plugin kennt keine „privaten“ Speicherbereiche
  - ▶ WebDAV-Plugin benötigt (und speichert) ownCloud-Passwort in Moodle

## Motivation

- ▶ **Ziel:** Usability des Zugriffs auf Dateien in **ownCloud** verbessern
- ▶ **Lösung:** Neues Repository-Plugin, das Anmeldung ohne Passwort unterstützt
- ▶ **Implementierung:** OAuth 2.0, WebDAV, OCS



# Kollaborative Ordner

Kurs-Aktivität

### Gruppe 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@...

### Gruppe 2

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

### Gruppe 3

Karolína Horáková	...
Tereza Horáková	...

### Gruppe 4

Sophia Miller	...
Lukas Müller	...
Jan Novák	...
Lukáš	...
Matej Novotný	...
Adéla Procházková	...

### Gruppe 5

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

### Gruppe 6

Tereza Veselá	...
Hanna Wagner	...

Work in progress!

Gruppenarbeit

Name

- Gruppe 1
- Gruppe 2
- Gruppe 3
- Gruppe 4
- Gruppe 5
- Gruppe 6

6 folders

Gruppe 1

0 KB, seconds ago

Collaborative tags

Comments

User and Groups Public Links

lana.becker@institution.info

Work in progress!

VS.

Announcements

Topic 1

CollFolder

Name (test setting)

Restricted Not available

### Add an activity or resource

Use collaborative folders to create folders in ownCloud for students for collaborative work. The folder is shared individually with members of the chosen groups as soon as they like. You do not need to collect ownCloud email addresses from your participants, everything is automatic.

ACTIVITIES

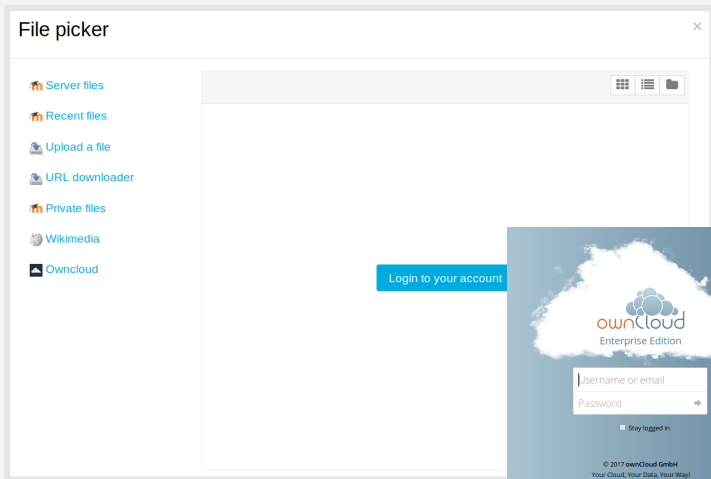
- Assignment
- Chat
- Choice
- Collaborative folders
- Database

# Repository

Direkter Dateiaustausch

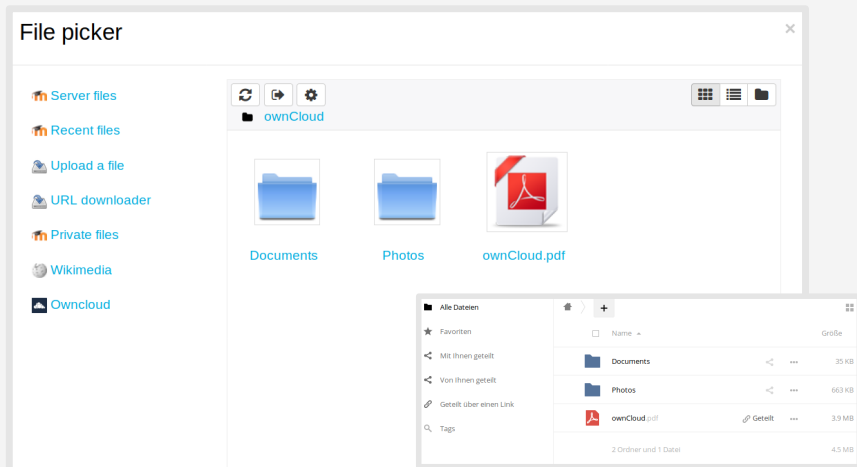


# Autorisierung ohne Passwort



The image shows a 'File picker' window with a sidebar on the left containing the following items: 'Server files', 'Recent files', 'Upload a file', 'URL downloader', 'Private files', 'Wikimedia', and 'Owncloud'. The main area is empty. A blue button labeled 'Login to your account' is positioned over the main area. An overlay window for 'ownCloud Enterprise Edition' is shown in the bottom right, featuring a cloud logo and a login form with fields for 'Username or email' and 'Password', a 'Stay logged in' checkbox, and a copyright notice: '© 2017 ownCloud GmbH Your Cloud, Your Data, Your Way!'.

# Dateizugriff im Filepicker



The screenshot displays a 'File picker' window with a sidebar on the left and a main content area. The sidebar contains the following navigation options:

- Server files
- Recent files
- Upload a file
- URL downloader
- Private files
- Wikimedia
- Owncloud

The main content area shows three file thumbnails: 'Documents' (a blue folder icon), 'Photos' (a blue folder icon), and 'ownCloud.pdf' (a red and white PDF icon). Above the thumbnails is a toolbar with icons for refresh, share, and settings, and a label 'ownCloud'. To the right of the toolbar are icons for grid view, list view, and a folder icon.

An inset window in the bottom right corner shows a detailed file list table:

Alle Dateien				
	Name			Größe
★ Favoriten				
↔ Mit Ihnen geteilt				
↔ Von Ihnen geteilt				
🔗 Geteilt über einen Link				
🔍 Tags				
	Documents	◀ ...		35 KB
	Photos	◀ ...		663 KB
	ownCloud.pdf	🔗 Geteilt ...		3.9 MB
2 Ordner und 1 Datei				4.5 MB

# Repository

- ▶ **File picker:** Dateien hochladen  
**oder** verlinken (Live-Update!)
- ▶ Plugins können erlaubte Modi bestimmen  
(z. B. Verlinken deaktivieren bei Aufgabe)



## Repository

- ▶ **Dateien hochladen** via WebDAV (ohne Umwege!)
- ▶ **Verlinken** nutzt OCS API in ownCloud
- ▶ Verlinken erstellt **öffentlichen** Share (→ Link)
- ▶ Link wird Kurs als Ressource hinzugefügt (wie Datei)
- ▶ (**Cave:** Link kann erraten werden)



San Francisco.jpg

 Shared



211 KB

a month ago

## Nützliche Links

- ▶  Repository-Plugin (Versionen für ownCloud und Nextcloud!)  
<https://moodle.org/plugins/view.php?id=1879>
- ▶ Installationsanleitung, Fehlerhilfe, ...  
[https://docs.moodle.org/en/ownCloud\\_Repository](https://docs.moodle.org/en/ownCloud_Repository)
- ▶  Collaborative Folders-Aktivität (in Entwicklung)  
[https://github.com/learnweb/moodle-mod\\_collaborativefolders](https://github.com/learnweb/moodle-mod_collaborativefolders)

## Jan Dageförde

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