Moodle Cloud

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- Biggest university in northern Poland
- Founded in 1945
- 17 faculties
- 30,000 students
- 4,300 employees
Nicolaus Copernicus University from Torun

- Over 40 Moodle instances
- Over 1500 different courses
- 2200 academic teachers at NCU
- 1000 “Moodle teachers”
  - More than 1 course – 35%
  - More than 3 courses – 15%
  - More than 5 courses – 10%
  - More than 10 courses – 5%
Motivation

Problem
Motivation

Purpose
Potential solutions

Limitations

- Data stored outside of the University (external servers)
- Paid disk space (from certain capacity)
- Slow network data transfer
- Limited API (LDAP and CAS integration)
Our solution
http://owncloud.org

• Free and open source
• Data stored on the University’s servers
• Easy installation and administration
• Based on popular protocols (HTTP, WebDAV)
• Easily extensible (PHP, MySQL)
• Easily replaceable
Main features

- Web based file management (upload, rename, copy, delete, etc.)
- File sharing (open access, password protection, expiration date)
- File versioning
Alternative user interfaces

- WebDAV desktop applications (Windows, Mac OS X, Linux)
- Mobile applications (Android, iOS)
Moodle integration
Moodle integration
Moodle integration
Moodle integration

user login
directory
salt
timestamp
hash (HMAC)

list of files
in XML format

ownCloud
Moodle integration

http://owncloud.umk.pl/file/k3d8f83de93ne939fdf90pwi394kd83d9i3
Prevent unauthorized access to educational materials from outside of the certain courses of the certain Moodle platforms!
Security

http://owncloud.umk.pl/file/k3d8f83de93ne939fdf90pwi394kd83d9i3
  +
  moodle_course_ID
  +
  time_to_live
  +
  salt

Encryption

http://owncloud.umk.pl/file/\texttt{ttl+moodleId+cipher}
Public resources linking

- Liferay
- Wordpress
- Standard webpages
- Etc.
ownCloud = EduDrive

Nicolaus Copernicus University from Torun

Jagiellonian University from Krakow

University of Silesia from Katowice
EduDrive at NCU

Przewodnik multimedialny po systemie EduDrive

- Wprowadzenie
- Przesyłanie plików
- Udostępnianie plików
- Integracja z Moodle
- Integracja z Portalem Edukacyjnym UMK

Instrukcje i informacje o funkcjach EduDrive.
Thank you.