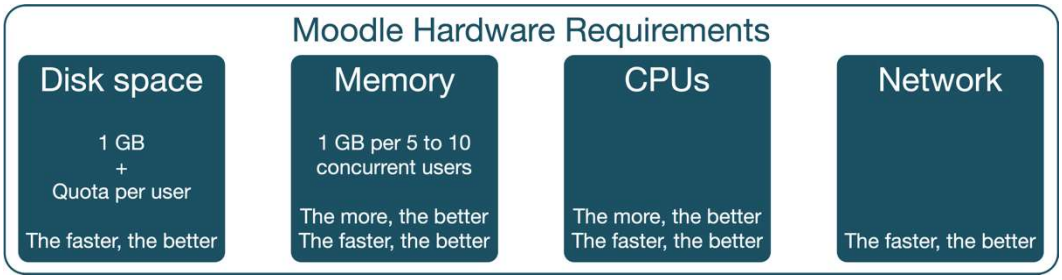
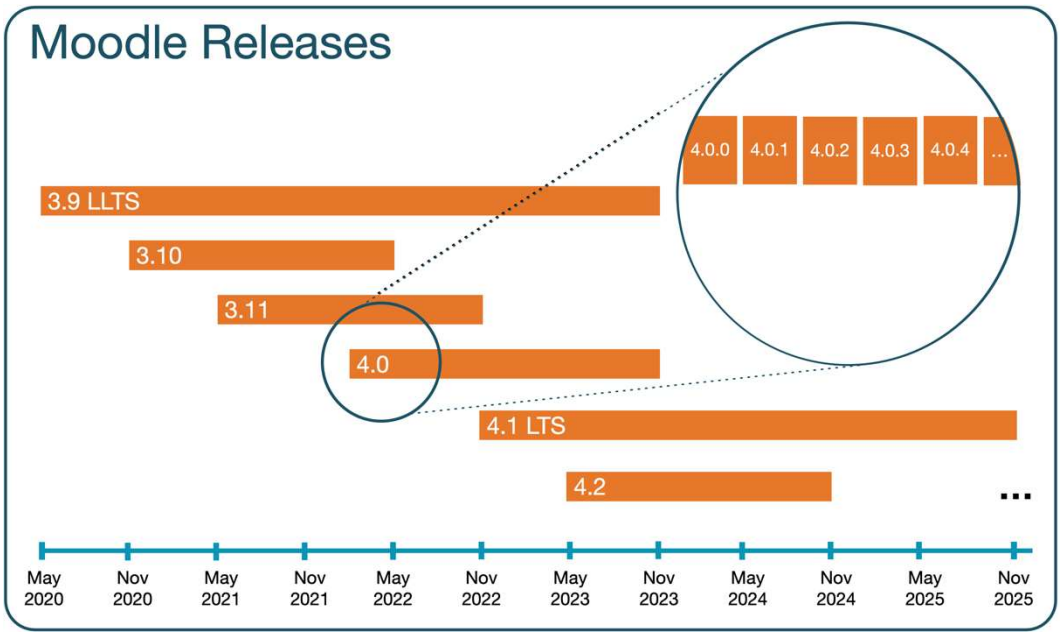
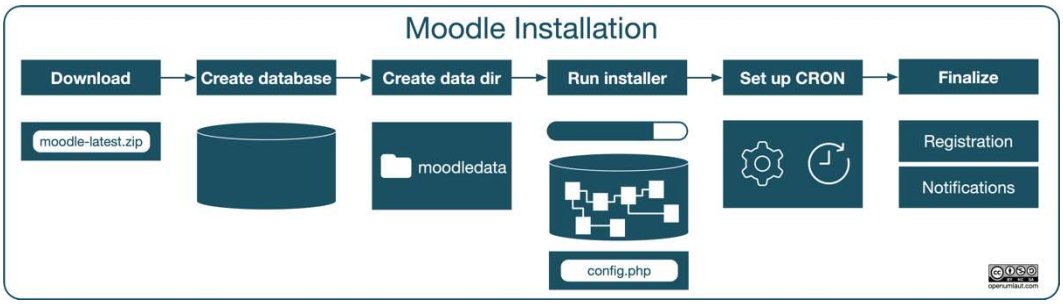
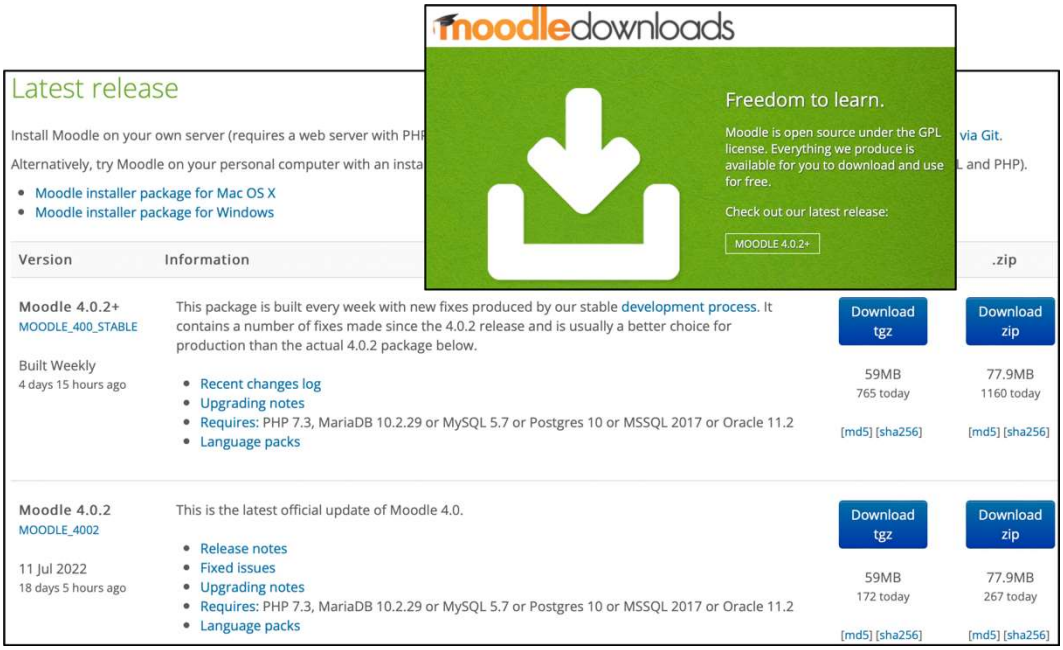
Chapter 1: An Introduction to Mantaflow

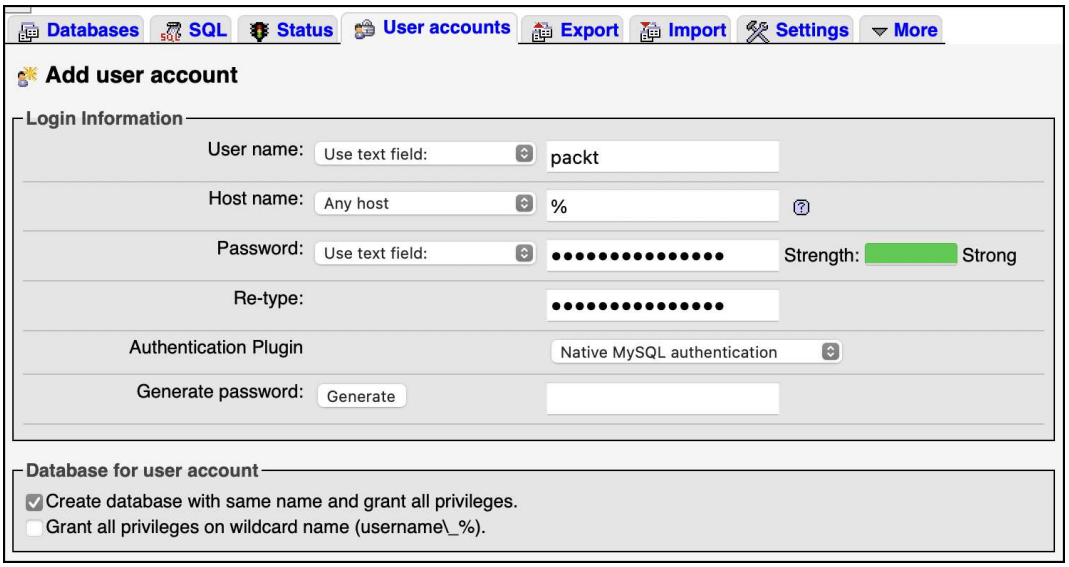
Max. number of concurrent users	Recommended setup
1 (to experiment locally)	Desktop, laptop, memory stick
100 (small school / company)	Shared server
250 (large school / company)	Dedicated server
500 (medium-to-large college)	Separate app and database servers
+500 (university/corporate)	Load-balanced cluster

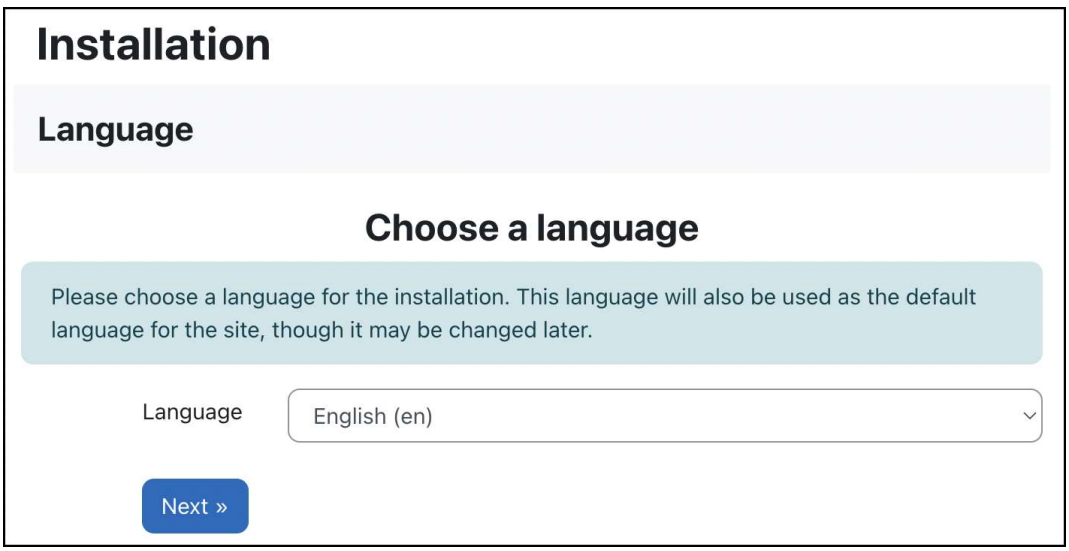


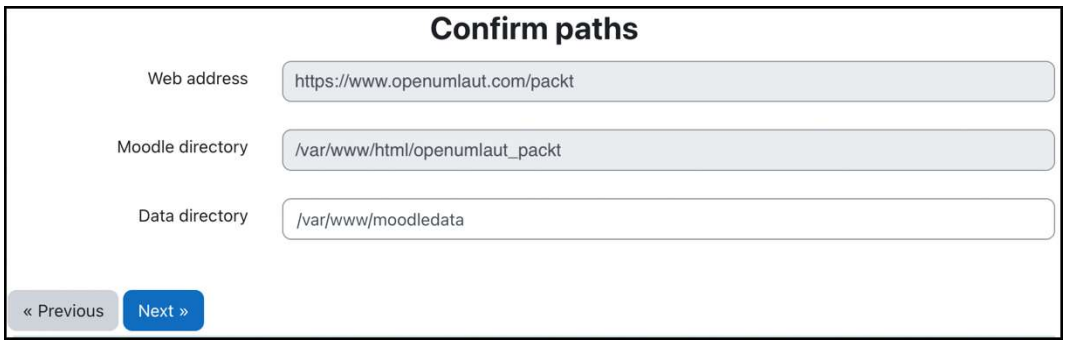


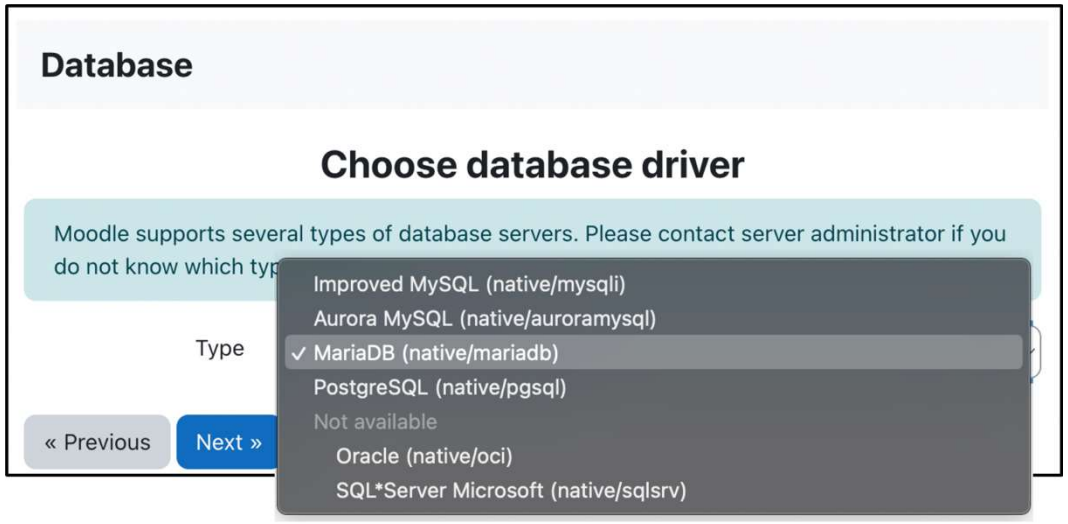


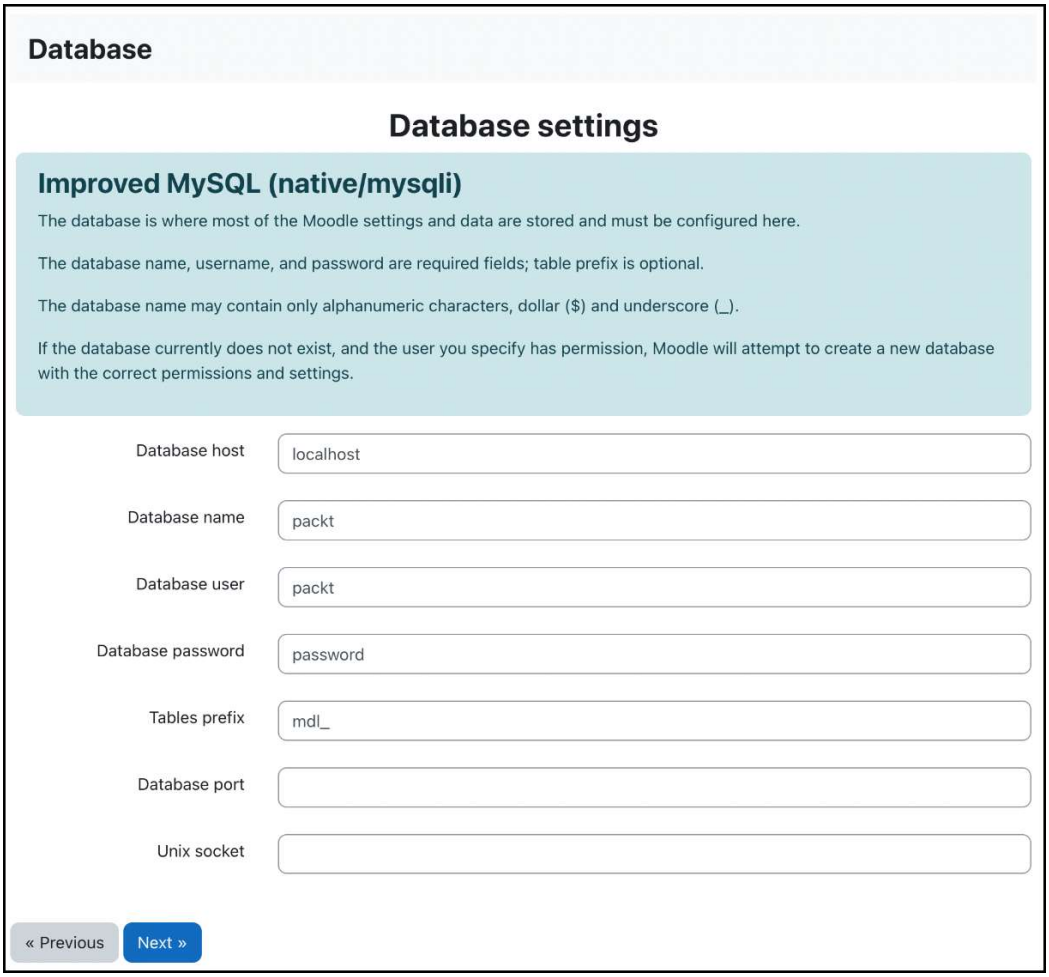

moodledownloads
Freedom to learn.
Moodle is open source under the GPL license. Everything we produce is available for you to download and use for free.
Check out our latest release:
MOODLE 4.0.2+
Latest release
Install Moodle on your own server (requires a web server with PHP
via Git.
Alternatively, try Moodle on your personal computer with an insta
and PHP).
Moodle installer package for Mac OS X
Moodle installer package for Windows
Version
Information
.zip
Moodle 4.0.2+
MOODLE_400_STABLE
Built Weekly
4 days 15 hours ago
This package is built every week with new fixes produced by our stable development process. It contains a number of fixes made since the 4.0.2 release and is usually a better choice for production than the actual 4.0.2 package below.
Recent changes log
Upgrading notes
Requires: PHP 7.3, MariaDB 10.2.29 or MySQL 5.7 or Postgres 10 or MSSQL 2017 or Oracle 11.2
Language packs
Download tgz
Download zip
59MB
765 today
77.9MB
1160 today
[md5] [sha256]
[md5] [sha256]
Moodle 4.0.2
MOODLE_4002
11 Jul 2022
18 days 5 hours ago
This is the latest official update of Moodle 4.0.
Release notes
Fixed issues
Upgrading notes
Requires: PHP 7.3, MariaDB 10.2.29 or MySQL 5.7 or Postgres 10 or MSSQL 2017 or Oracle 11.2
Language packs
Download tgz
Download zip
59MB
172 today
77.9MB
267 today
[md5] [sha256]
[md5] [sha256]

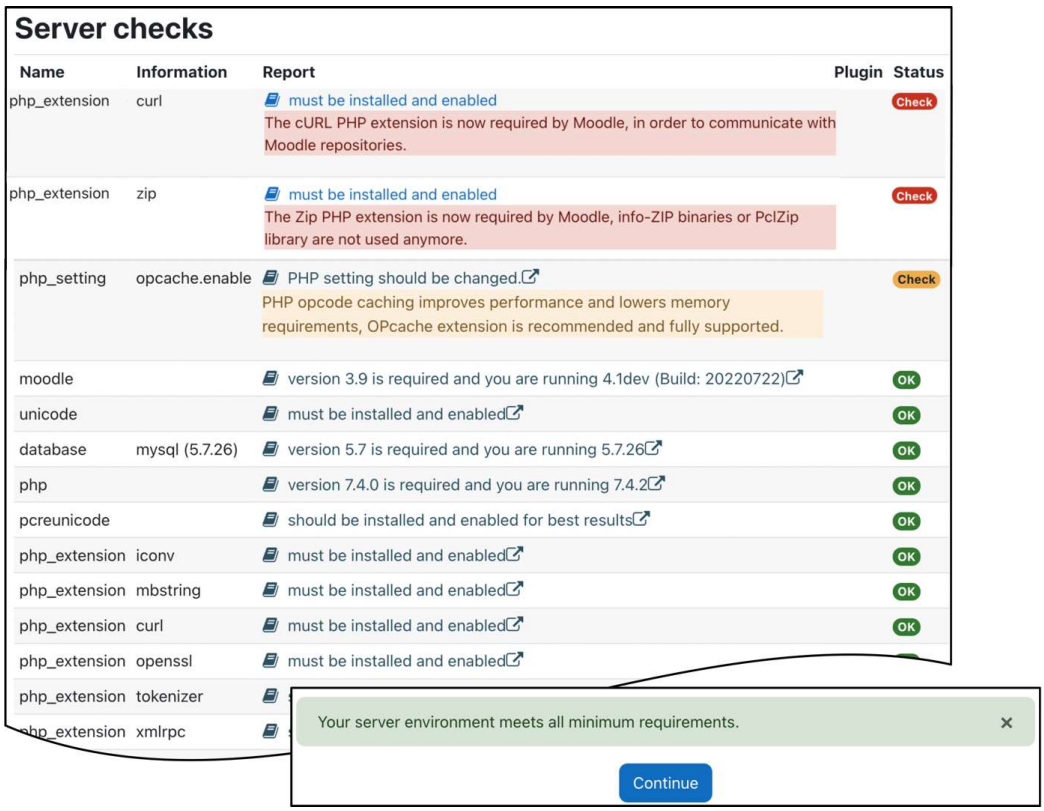

Databases
SQL
Status
User accounts
Export
Import
Settings
More
Add user account
Login Information
User name:
Use text field:
packt
Host name:
Any host
%
Password:
Use text field:
Strength:
Strong
Re-type:
Authentication Plugin
Native MySQL authentication
Generate password:
Generate
Database for user account
Create database with same name and grant all privileges.
Grant all privileges on wildcard name (username_%).

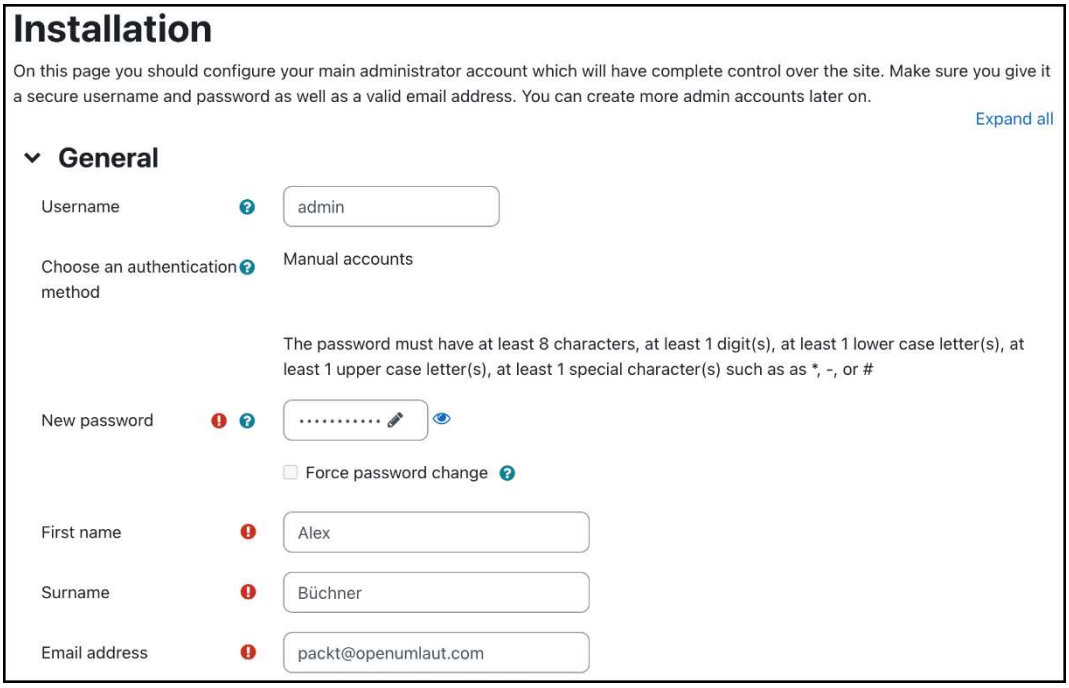

Installation
Language
Choose a language
Please choose a language for the installation. This language will also be used as the default language for the site, though it may be changed later.
Language
English (en)
Next »

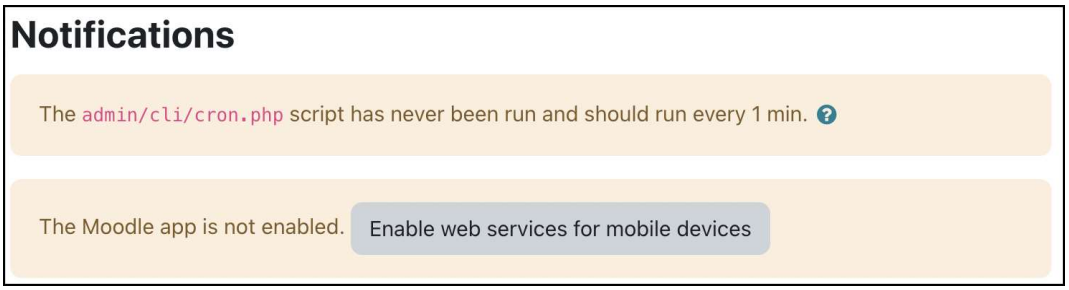

Confirm paths
Web address
https://www.openumlaut.com/packt
Moodle directory
/var/www/html/openumlaut_packt
Data directory
/var/www/moodledata
« Previous
Next »

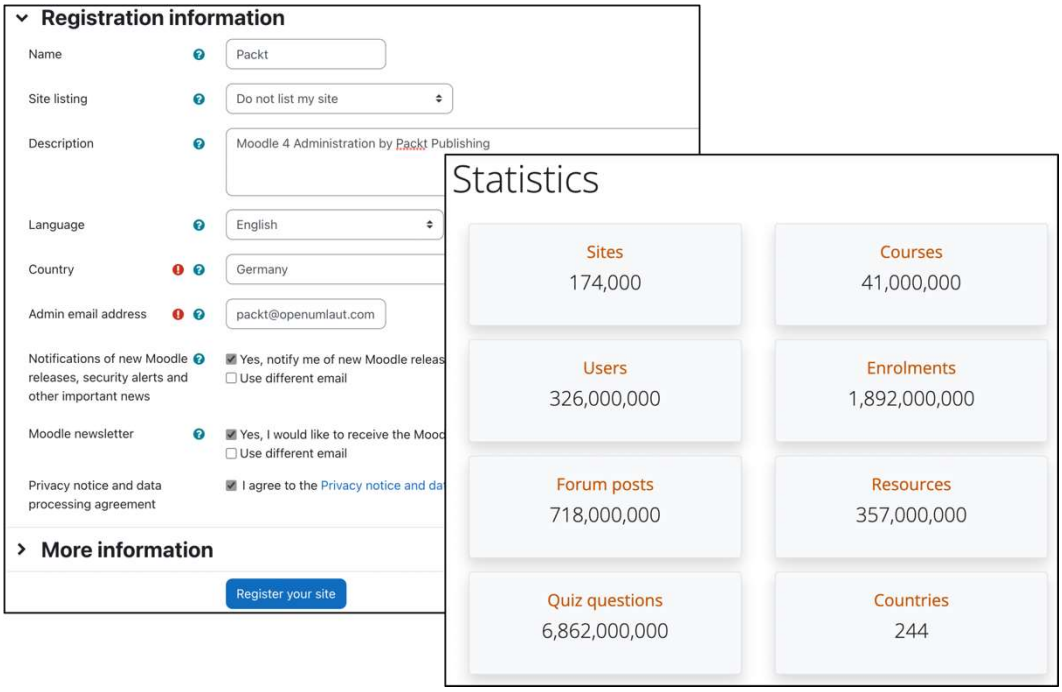

Database
Choose database driver
Moodle supports several types of database servers. Please contact server administrator if you do not know which typ
Type
Improved MySQL (native/mysqli)
Aurora MySQL (native/auroramysql)
MariaDB (native/mariadb)
PostgreSQL (native/pgsql)
Not available
Oracle (native/oci)
SQL*Server Microsoft (native/sqlsrv)
« Previous
Next »


Database
Database settings
Improved MySQL (native/mysqli)
The database is where most of the Moodle settings and data are stored and must be configured here.
The database name, username, and password are required fields; table prefix is optional.
The database name may contain only alphanumeric characters, dollar ($) and underscore (_).
If the database currently does not exist, and the user you specify has permission, Moodle will attempt to create a new database with the correct permissions and settings.
Database host
localhost
Database name
packt
Database user
packt
Database password
password
Tables prefix
mdl_
Database port
Unix socket
« Previous
Next »


Server checks
Name
Information
Report
Plugin
Status
php_extension curl must be installed and enabled The cURL PHP extension is now required by Moodle, in order to communicate with Moodle repositories. Check
php_extension zip must be installed and enabled The Zip PHP extension is now required by Moodle, info-ZIP binaries or PclZip library are not used anymore. Check
php_setting opcache.enable PHP setting should be changed. PHP opcode caching improves performance and lowers memory requirements, OPcache extension is recommended and fully supported. Check
moodle version 3.9 is required and you are running 4.1dev (Build: 20220722) OK
unicode must be installed and enabled OK
database mysql (5.7.26) version 5.7 is required and you are running 5.7.26 OK
php version 7.4.0 is required and you are running 7.4.2 OK
pcreunicode should be installed and enabled for best results OK
php_extension iconv must be installed and enabled OK
php_extension mbstring must be installed and enabled OK
php_extension curl must be installed and enabled OK
php_extension openssl must be installed and enabled
php_extension tokenizer
php_extension xmlrpc
Your server environment meets all minimum requirements.
Continue

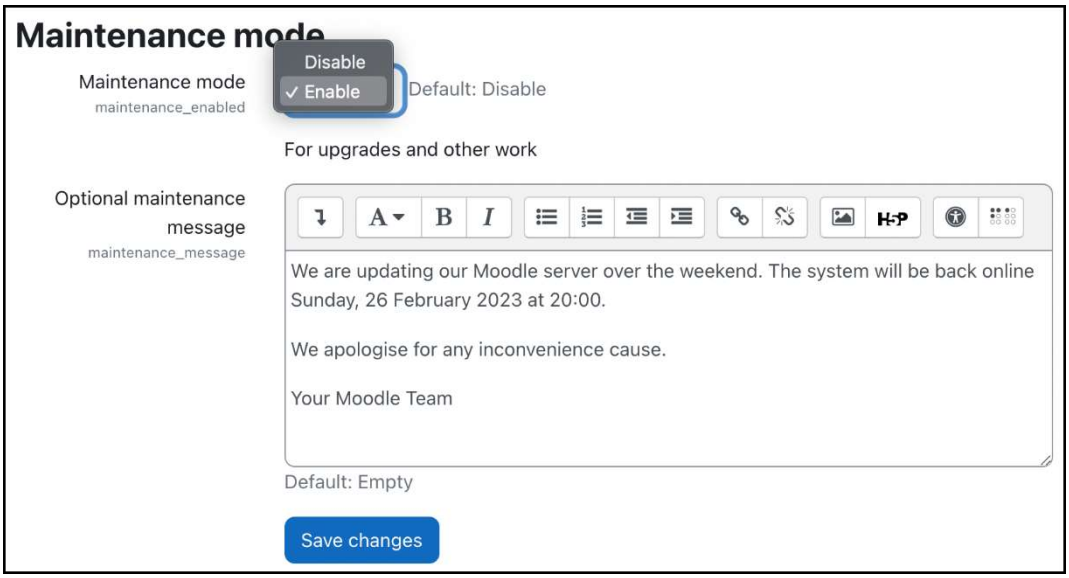

Installation
On this page you should configure your main administrator account which will have complete control over the site. Make sure you give it a secure username and password as well as a valid email address. You can create more admin accounts later on.
Expand all
General
Username
admin
Choose an authentication method
Manual accounts
The password must have at least 8 characters, at least 1 digit(s), at least 1 lower case letter(s), at least 1 upper case letter(s), at least 1 special character(s) such as as *, -, or #
New password
Force password change
First name
Alex
Surname
Büchner
Email address
packt@openumlaut.com

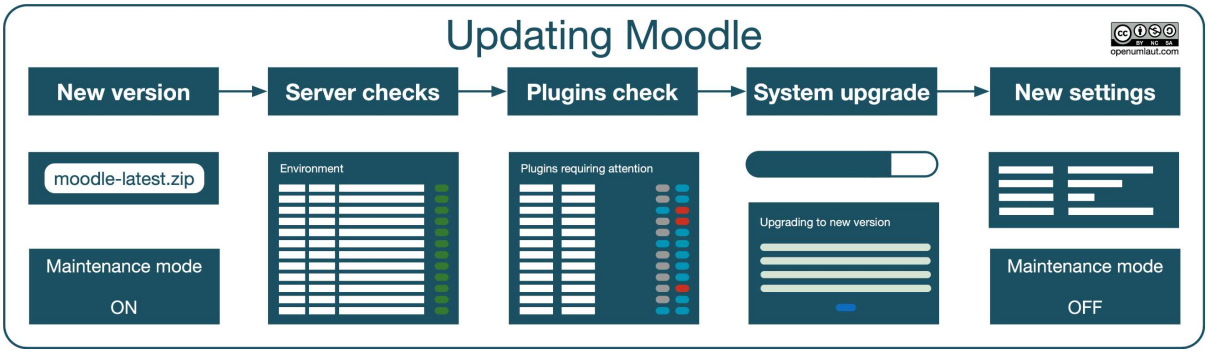

Notifications
The admin/cli/cron.php script has never been run and should run every 1 min.
The Moodle app is not enabled.
Enable web services for mobile devices


Registration information
Name
Packt
Site listing
Do not list my site
Description
Moodle 4 Administration by Packt Publishing
Language
English
Country
Germany
Admin email address
packt@openumlaut.com
Notifications of new Moodle releases, security alerts and other important news
Yes, notify me of new Moodle releas
Use different email
Moodle newsletter
Yes, I would like to receive the Mooc
Use different email
Privacy notice and data processing agreement
I agree to the Privacy notice and da
More information
Register your site
Statistics
Sites
174,000
Courses
41,000,000
Users
326,000,000
Enrolments
1,892,000,000
Forum posts
718,000,000
Resources
357,000,000
Quiz questions
6,862,000,000
Countries
244

```
Options:
--chmod=OCTAL-MODE    Permissions of new directories created within dataroot.
                      Default is 2777. You may want to change it to 2770
                      or 2750 or 750. See chmod man page for details.
--lang=CODE           Installation and default site language.
--wwwroot=URL         Web address for the Moodle site,
                      required in non-interactive mode.
--dataroot=DIR        Location of the moodle data folder,
                      must not be web accessible. Default is moodledata
                      in the parent directory.
--dbtype=TYPE         Database type. Default is mysqli
--dbhost=HOST         Database host. Default is localhost
--dbname=NAME         Database name. Default is moodle
--dbuser=USERNAME     Database user. Default is root
--dbpass=PASSWORD     Database password. Default is blank
--dbport=NUMBER       Use database port.
--dbsocket=PATH       Use database socket, 1 means default. Available for some databases only.
--prefix=STRING       Table prefix for above database tables. Default is mdl_
--fullname=STRING     The fullname of the site
--shortname=STRING    The shortname of the site
--summary=STRING      The summary to be displayed on the front page
--adminuser=USERNAME  Username for the moodle admin account. Default is admin
--adminpass=PASSWORD  Password for the moodle admin account,
                      required in non-interactive mode.
--adminemail=STRING   Email address for the moodle admin account.
--sitepreset=STRING   Admin site preset to be applied during the installation process.
--supportemail=STRING Email address for support and help.
--upgradekey=STRING   The upgrade key to be set in the config.php, leave empty to not set it.
--non-interactive     No interactive questions, installation fails if any
                      problem encountered.
--agree-license       Indicates agreement with software license,
                      required in non-interactive mode.
--allow-unstable      Install even if the version is not marked as stable yet,
                      required in non-interactive mode.
--skip-database       Stop the installation before installing the database.
-h, --help            Print out this help

Example:
\$sudo -u www-data /usr/bin/php admin/cli/install.php --lang=cs
```





Upgrading Moodle database from version 4.0.1 (Build: 20220509) (2022041901.00) to 4.0.2 (Build: 20220711) (2022041902.00)

Confirm

Your Moodle files have been changed, and you are about to automatically upgrade your server to this version:

4.0.2 (Build: 20220711) (2022041902.00)

Once you do this you can not go back again. Please note that this process can take a long time.

Are you sure you want to upgrade this server to this version?

Continue Cancel

Plugins check

This page displays plugins that may require your attention during the upgrade, such as new plugins to be installed, plugins to be upgraded, missing plugins etc. Additional plugins are displayed if there is an available update for them. It is recommended that you check whether there are more recent versions of plugins available and update their source code before continuing with this Moodle upgrade.

Check for available updates

Plugins requiring attention

Plugins requiring attention 21 All plugins 450

Plugin name / Directory	Current version	New version	Requires	Source / Status
Activity modules				
BigBlueButton /mod/bigbluebuttonbn	2022041900	2022041901	• Moodle 2022041200	Standard To be upgraded
Text filters				
censor	2021051700			Standard To be deleted
fontawesome	2021052600			Additional Missing from disk!

Packt

The settings shown below were added during your last Moodle upgrade. Make any changes necessary to the defaults and then click the 'Save changes' button at the bottom of this page.

New settings - Course default settings

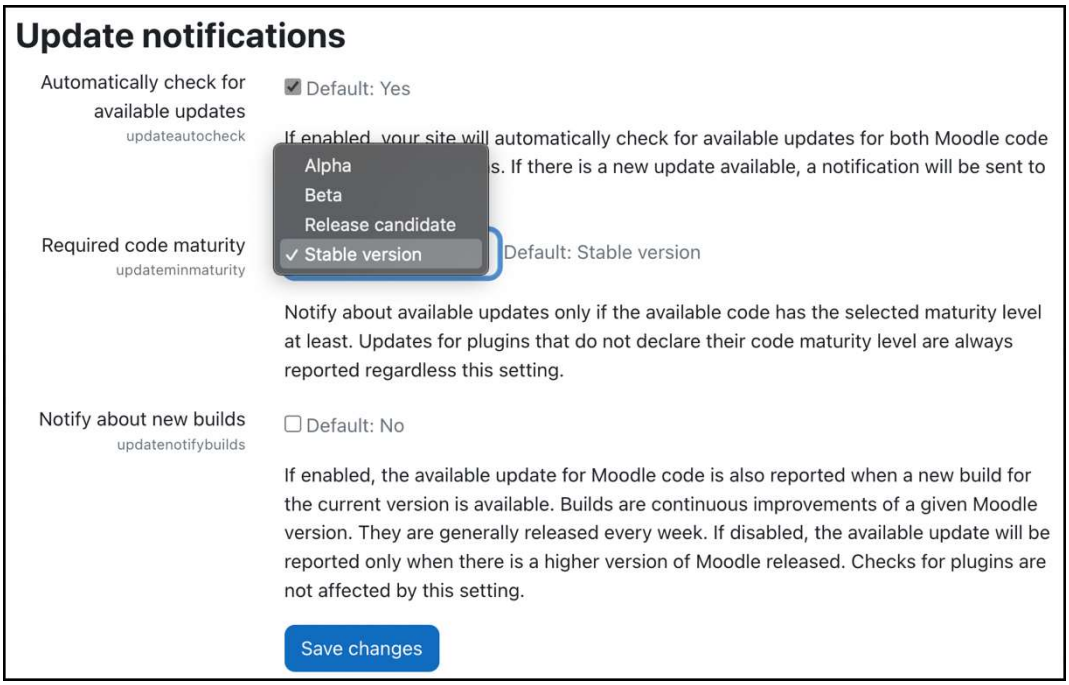
Number of participants per page
moodlecourse | participantsperpage

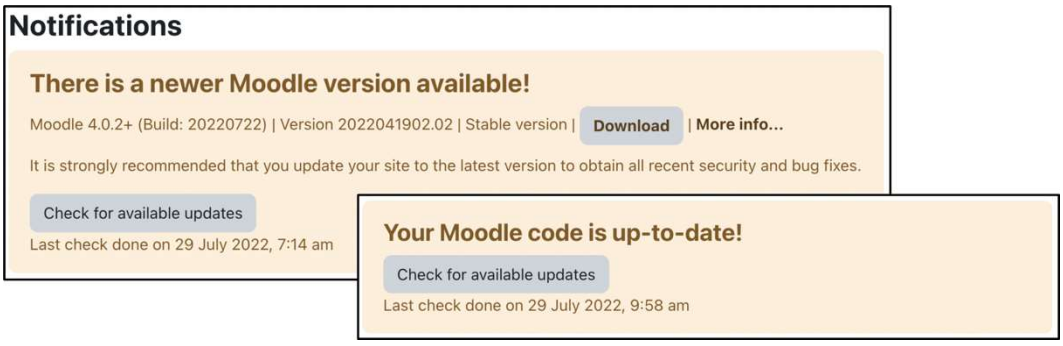
20 Default: 20

The number of users shown per page on the participants page in each course.

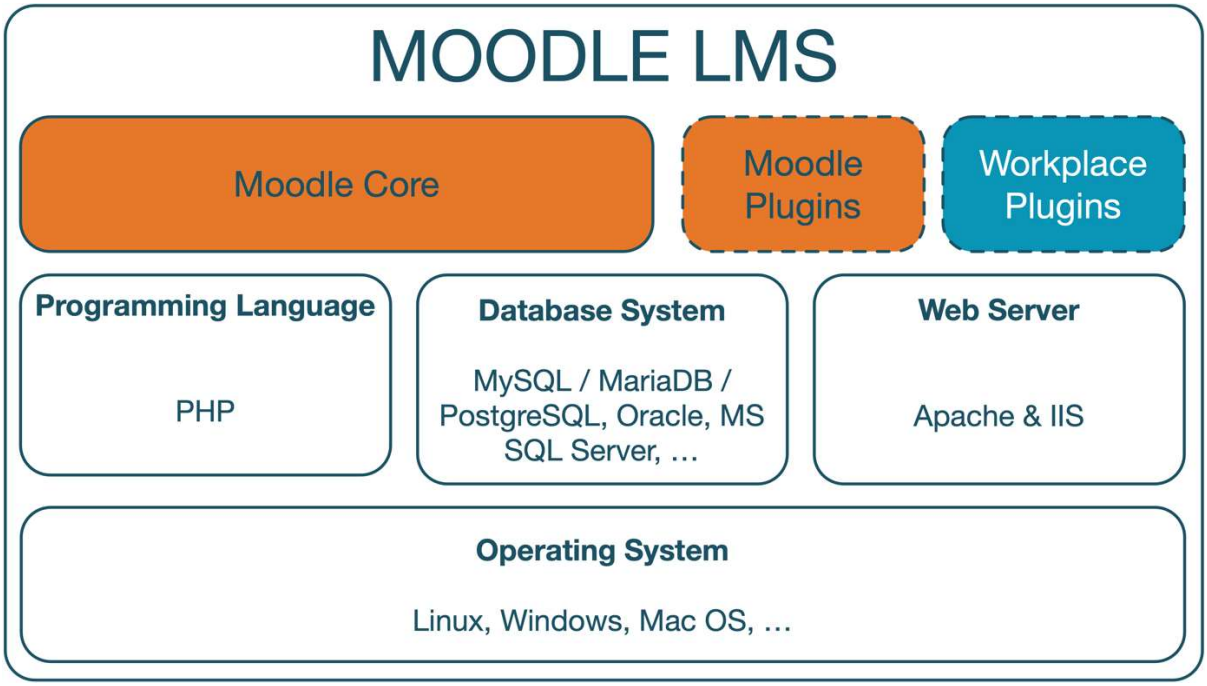
Save changes

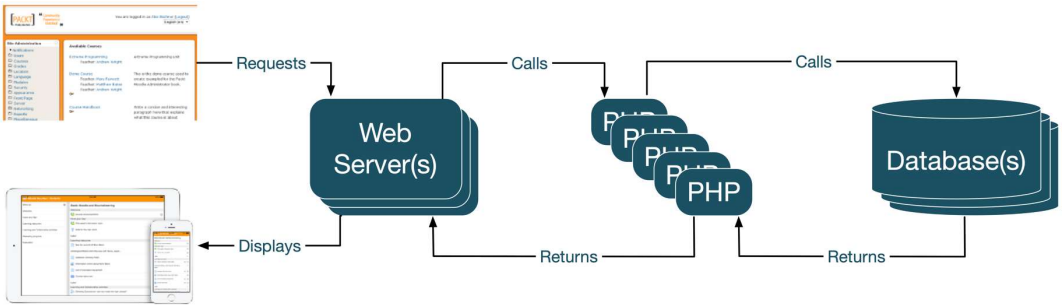
```
$ git fetch
remote: Enumerating objects: 56741, done.
remote: Counting objects: 100% (23499/23499), done.
remote: Compressing objects: 100% (7762/7762), done.
remote: Total 17338 (delta 12590), reused 13084 (delta 8941), pack-reused 0
Receiving objects: 100% (17338/17338), 6.42 MiB | 8.57 MiB/s, done.
Resolving deltas: 100% (12590/12590), completed with 2846 local objects.
From https://github.com/moodle/moodle
   0d0f09bc7f..24f97edd91  master     -> origin/master
 * [new tag]               v4.0.0     -> v4.0.0
 * [new tag]               v4.0.0-rc1 -> v4.0.0-rc1
 * [new tag]               v4.0.0-rc2 -> v4.0.0-rc2
 * [new tag]               v4.0.0-rc3 -> v4.0.0-rc3
 * [new tag]               v4.0.0-rc4 -> v4.0.0-rc4
$
```

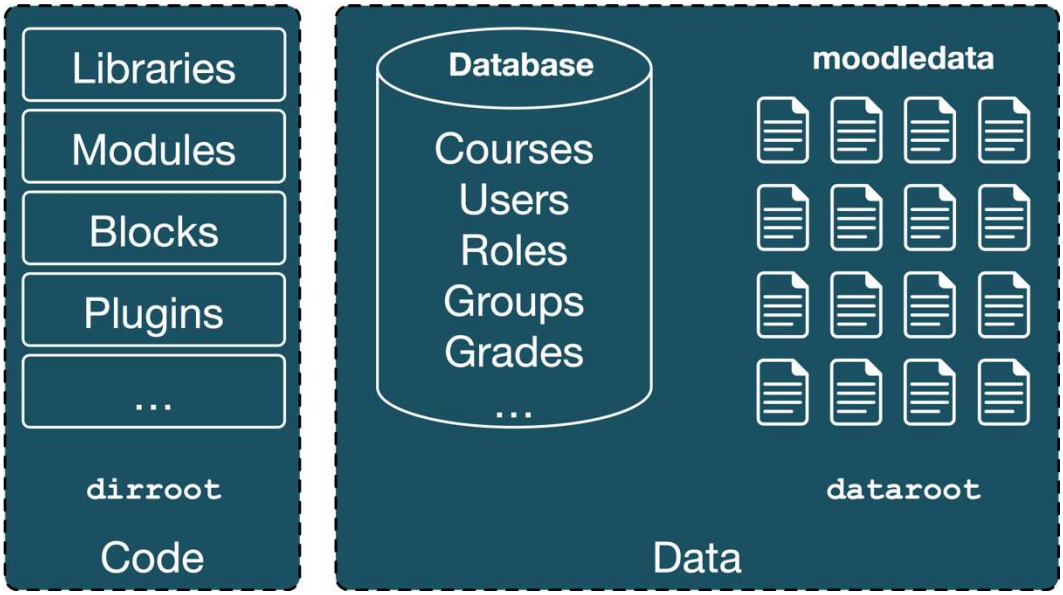




Chapter 2: Exploring the Moodle System

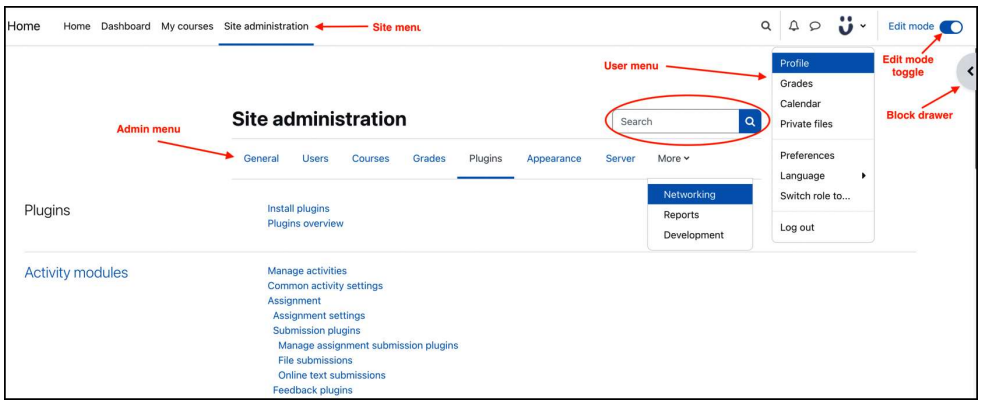


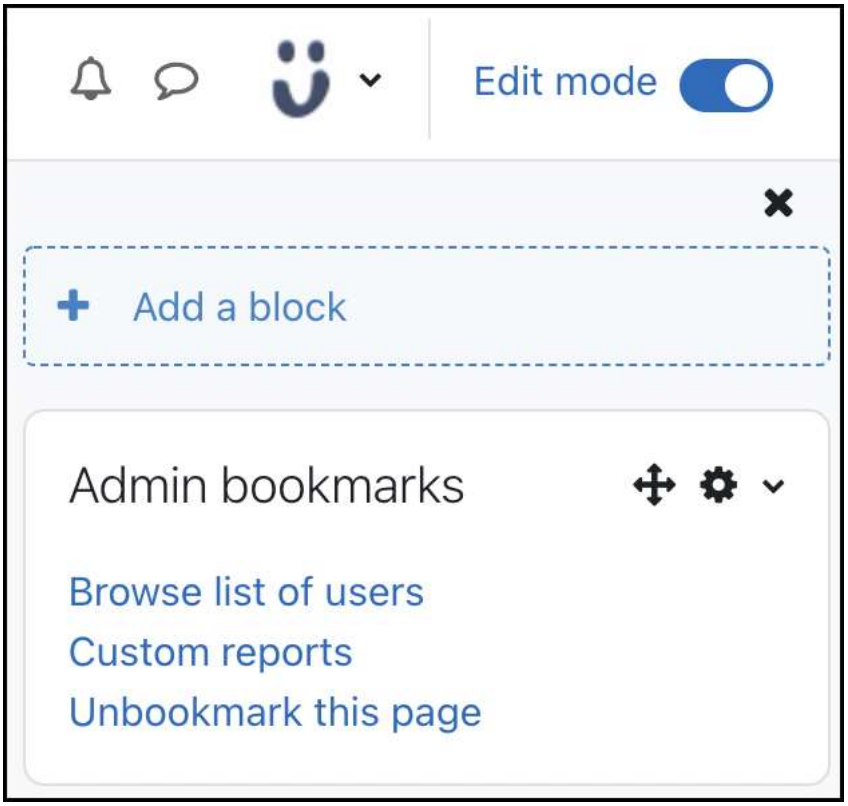


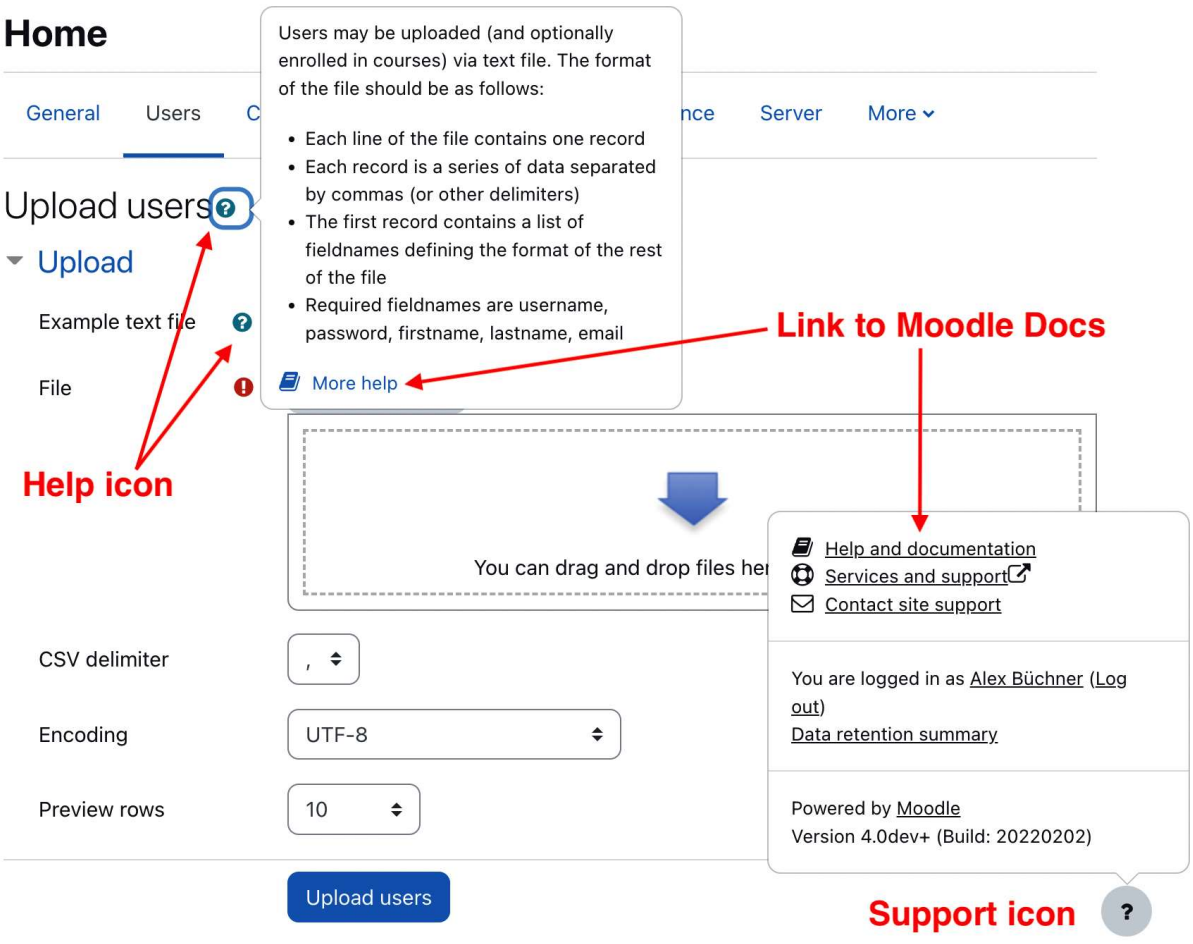


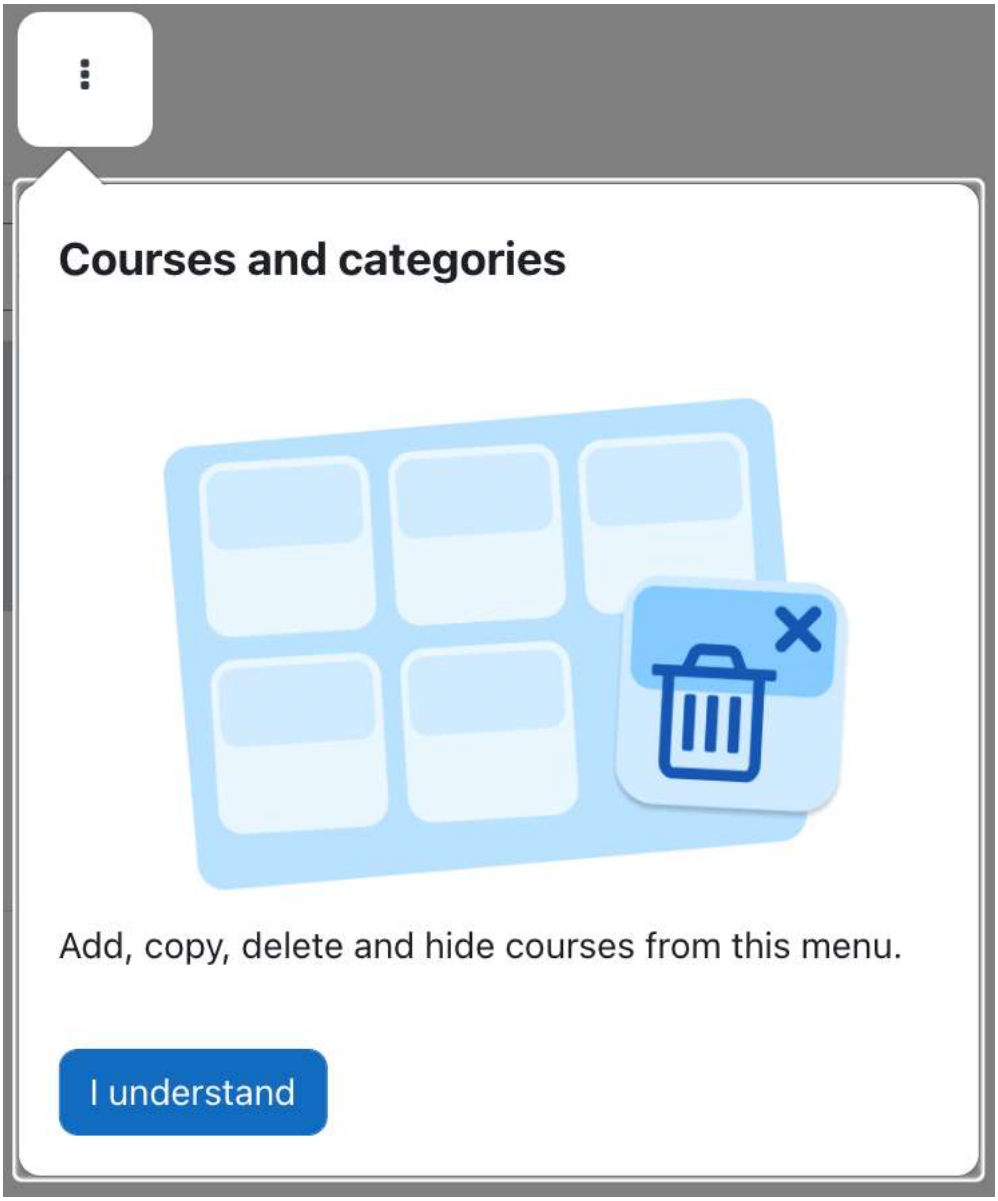
admin	Moodle admin tools and scripts	All
adminpresets	Management of admin presets	17
analytics	Learning analytics	12
auth	User authentication plugins	5
availability	Management of availability restrictions	9
backup	Backup and restore operations	16
badges	Management of badges	10
blocks	Blocks placed various pages	7
blog	Internal and external blogging functionality	10
cache	Cache stores and performance scripts	15
calendar	Calendar and event management	11
cohort	Handling of site-wide groups (cohorts)	4
comment	Comments used in courses	10
competency	Competencies and learning plans	10
completion	Course completion criteria and aggregation	4
contentbank	H5P content bank	9
course	Courses, categories, and course formats	4
customfield	Custom field types	4+5
dataformat	Data export formats	12
enrol	User enrolment plugins	4
error	Error handling; mostly used by developers	—
favourites	Handling of starred courses	7
files	File management	2
filter	Filters applied to text authored in the editor	9
grade	Grades, grade book, and grade reports	9
group	Groups and groupings handling	5
h5p	H5P integration	9
install	Moodle installation and update scripts	1
iplookup	Look up IP addresses	12
lang	Localization strings (one folder per lang)	11
lib	Libraries of core Moodle code	2
local	Local customizations	8
login	Login handling and account creation	5
message	Messaging tool (one folder per channel)	11
mnet	Peer-to-peer and hub networking	19
mod	Core Moodle course modules	8
my	Users' personal dashboards (myMoodle)	7
notes	Handling of notes in user profiles	—
payment	Payment subsystem and gateways	4
pix	Generic site graphics	—
plagiarism	Plagiarism detection plugins	9
portfolio	Portfolio plugins to export data	10
privacy	Privacy and policies / GDPR	14
question	Question bank and question types	9
rating	Handling of user ratings	9
report	Report plugins and events list	12
reportbuilder	Custom report builder	12
repository	Repository plugins to export data	10
rss	RSS feeds	10
search	Global search	15
tag	Tagging	9
theme	Themes to change branding of site	7
user	User management	5
userpix	Display thumbnails of user profile pictures	5
webservice	Web services functionality	18

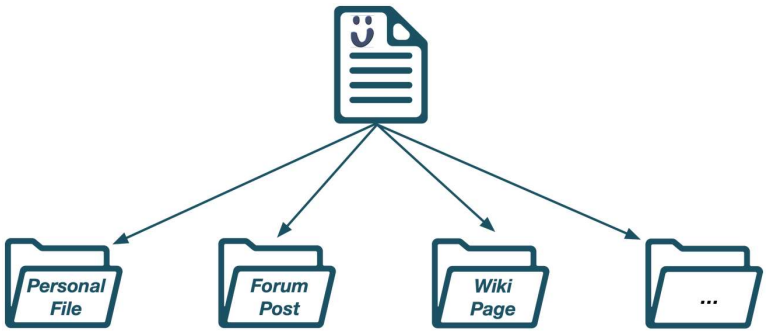
antivirus_quarantine	Storing of quarantined antivirus files
cache	Caching data
filedir	The actual user content—files that have been uploaded
filter	Caching of filtered data
lang	Locally used language packs and customizations
localcache	Caching data of plugins
lock	Locked files
models	Cache of analytics models
muc	Moodle Universal Cache files
repository	External location accessible from within Moodle
sessions	Session information
temp	Temporary files
trashdir	Deleted files

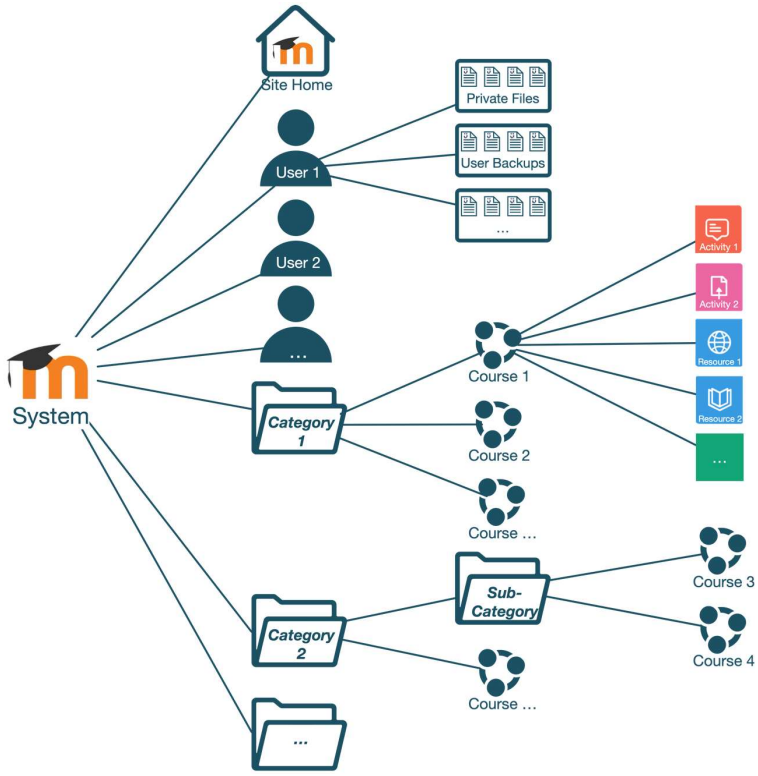


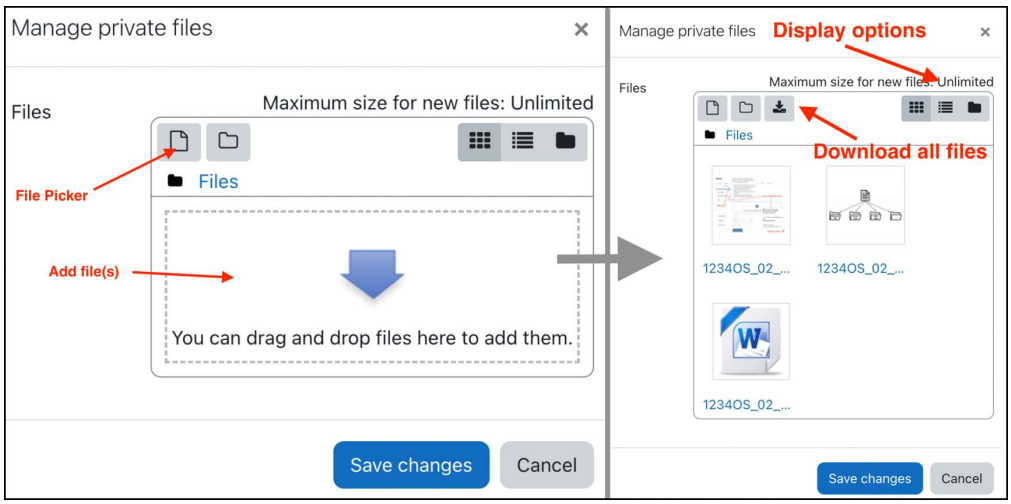

Edit mode
Add a block
Admin bookmarks
Browse list of users
Custom reports
Unbookmark this page


Home
General
Users
Server
More
Upload users
Upload
Example text file
File
Users may be uploaded (and optionally enrolled in courses) via text file. The format of the file should be as follows:
Each line of the file contains one record
Each record is a series of data separated by commas (or other delimiters)
The first record contains a list of fieldnames defining the format of the rest of the file
Required fieldnames are username, password, firstname, lastname, email
More help
Link to Moodle Docs
Help icon
You can drag and drop files her
CSV delimiter
,
Encoding
UTF-8
Preview rows
10
Upload users
Help and documentation
Services and support
Contact site support
You are logged in as Alex Büchner (Log out)
Data retention summary
Powered by Moodle
Version 4.0dev+ (Build: 20220202)
Support icon


Courses and categories
Add, copy, delete and hide courses from this menu.
I understand


Personal File
Forum Post
Wiki Page
...


Site Home
Private Files
User Backups
...
User 1
User 2
...
System
Category 1
Course 1
Course 2
Course ...
Activity 1
Activity 2
Resource 1
Resource 2
...
Category 2
Sub-Category
Course 3
Course 4
Course ...
...


Manage private files
Files
Maximum size for new files: Unlimited
File Picker
Files
Add file(s)
You can drag and drop files here to add them.
Save changes
Cancel
Manage private files
Display options
Files
Maximum size for new files: Unlimited
Download all files
1234OS_02_...
1234OS_02_...
1234OS_02_...
Save changes
Cancel

Edit 1234OS_02_09.png

Download Delete

Name 1234OS_02_09.png

Author Alex Büchner

Choose licence All rights reserved

Path /

Update Cancel



Last modified 8 February 2022, 6:13 PM

Created 8 February 2022, 6:11 PM

Size 148.6 KB

Dimensions 2687 x 1145 px

Maximum uploaded file size
maxbytes

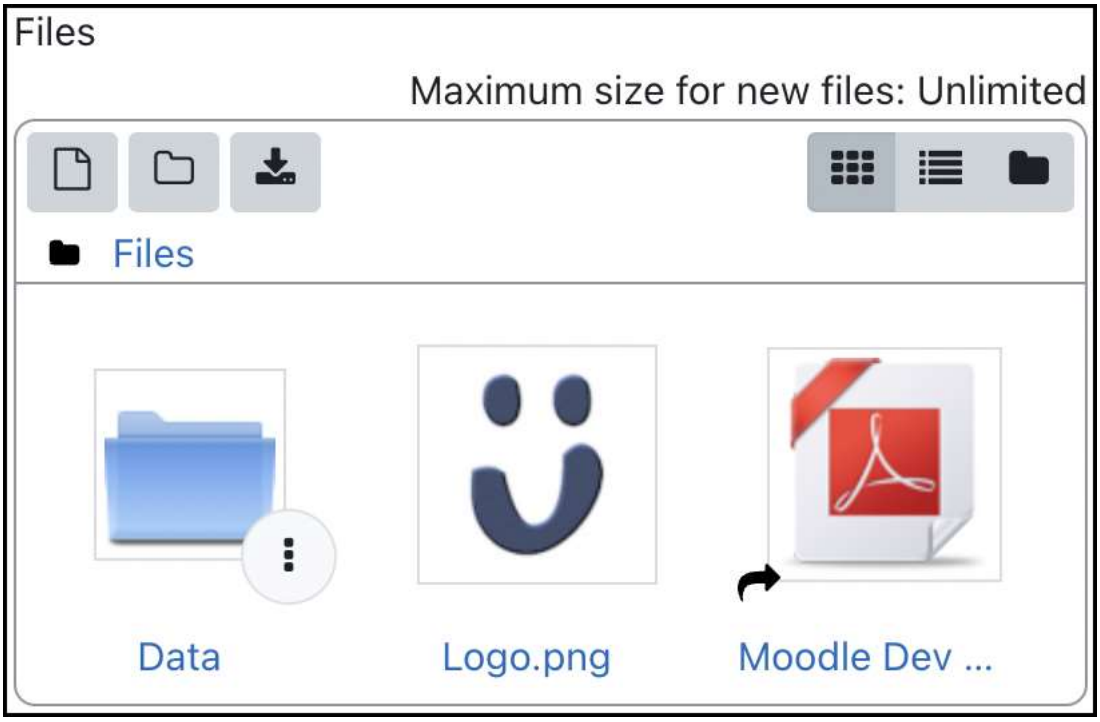
Site upload limit (20 MB) Default: Site upload limit (20 MB)

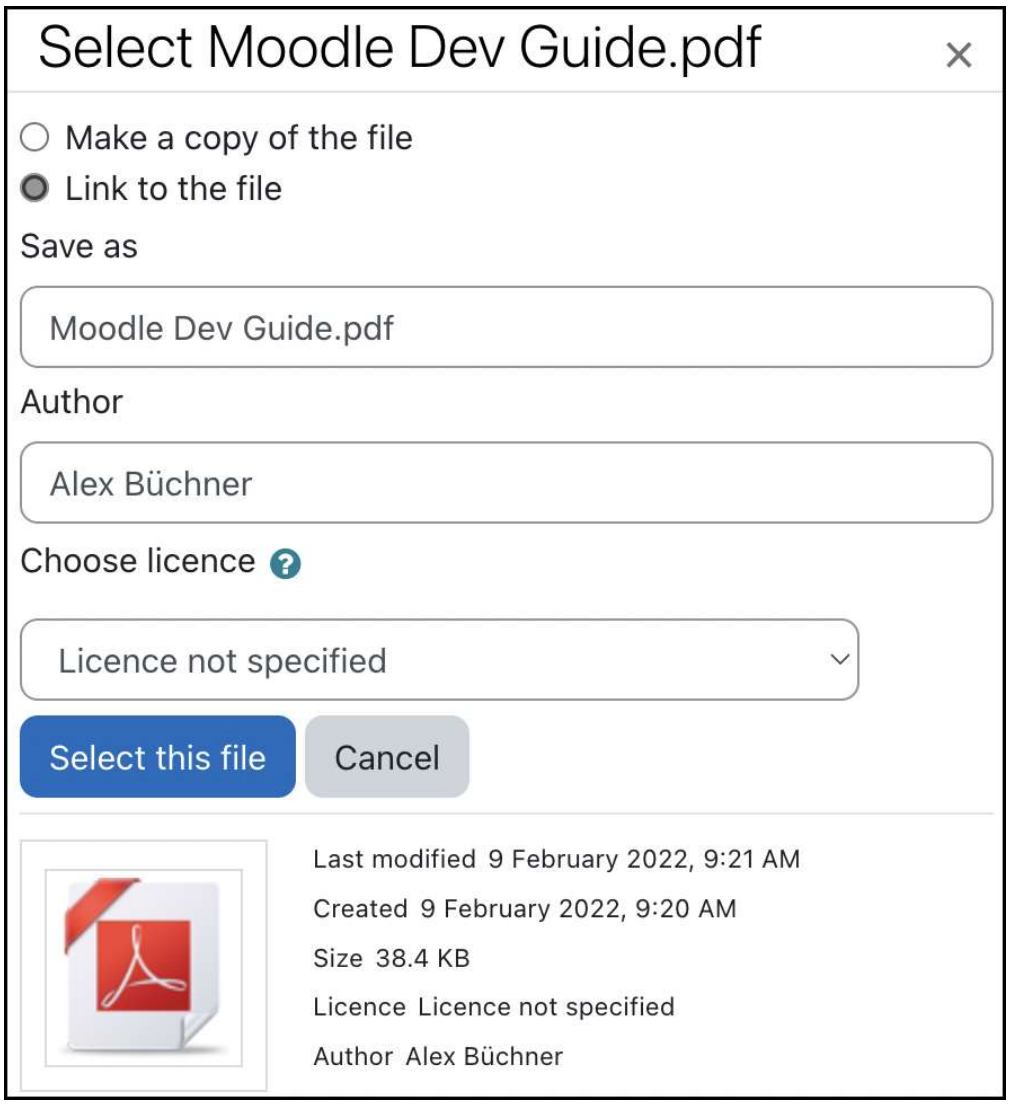
This specifies a maximum size for files uploaded to the site. This setting is limited by the PHP settings post_max_size and upload_max_filesize, as well as the Apache setting LimitRequestBody. In turn, maxbytes limits the range of sizes that can be chosen at course or activity level. If 'Site upload limit' is chosen, the maximum size allowed by the server will be used.

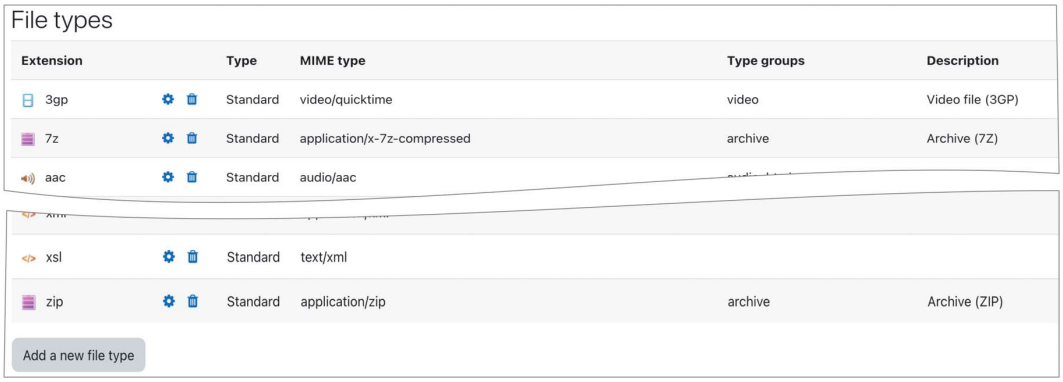
Private files space
userquota

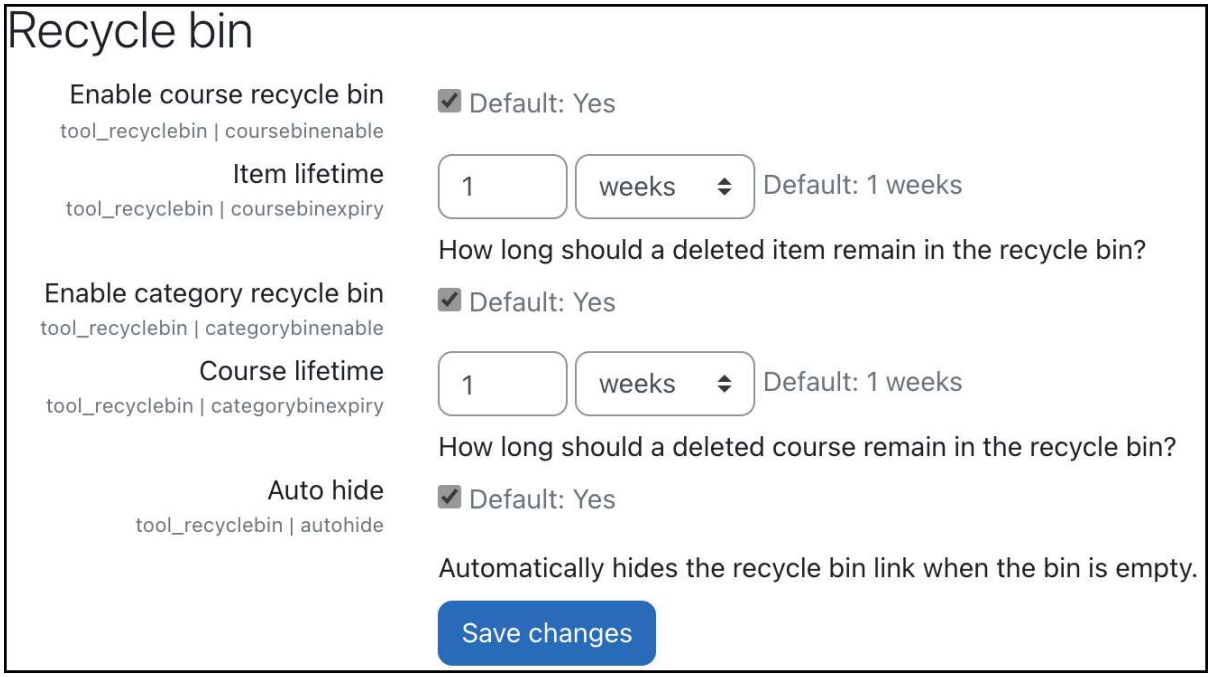
100 MB Default: 100 MB

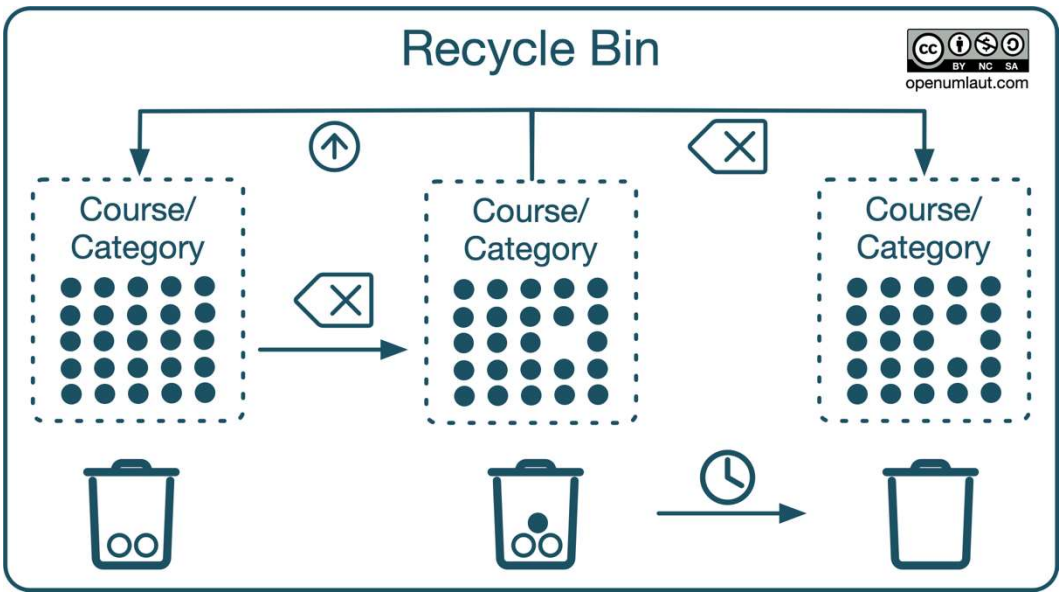
The maximum amount of data that each user can store in their private files area.


Files
Maximum size for new files: Unlimited
Files
Data
Logo.png
Moodle Dev ...

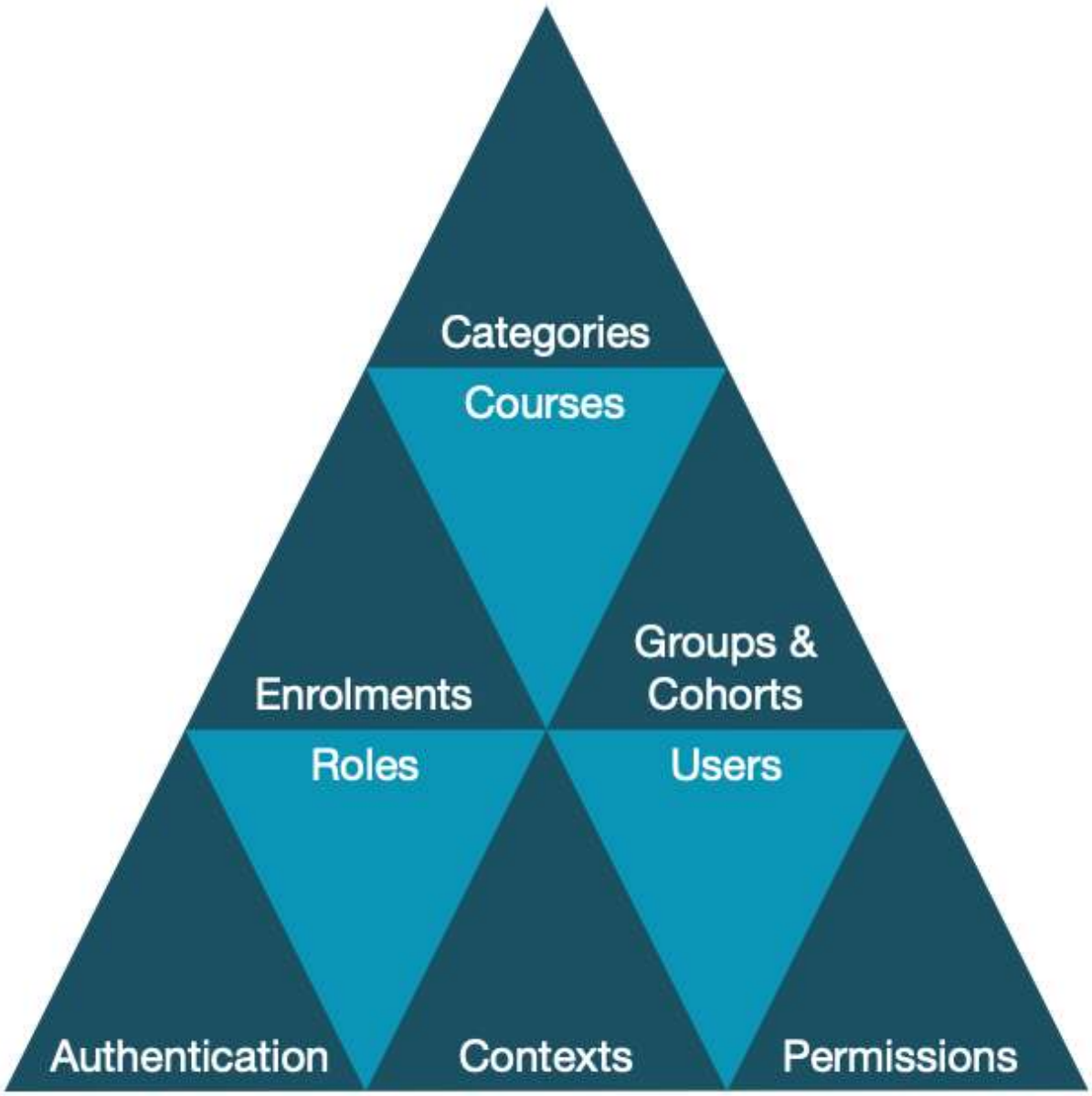

Select Moodle Dev Guide.pdf
Make a copy of the file
Link to the file
Save as
Moodle Dev Guide.pdf
Author
Alex Büchner
Choose licence
Licence not specified
Select this file
Cancel
Last modified 9 February 2022, 9:21 AM
Created 9 February 2022, 9:20 AM
Size 38.4 KB
Licence Licence not specified
Author Alex Büchner

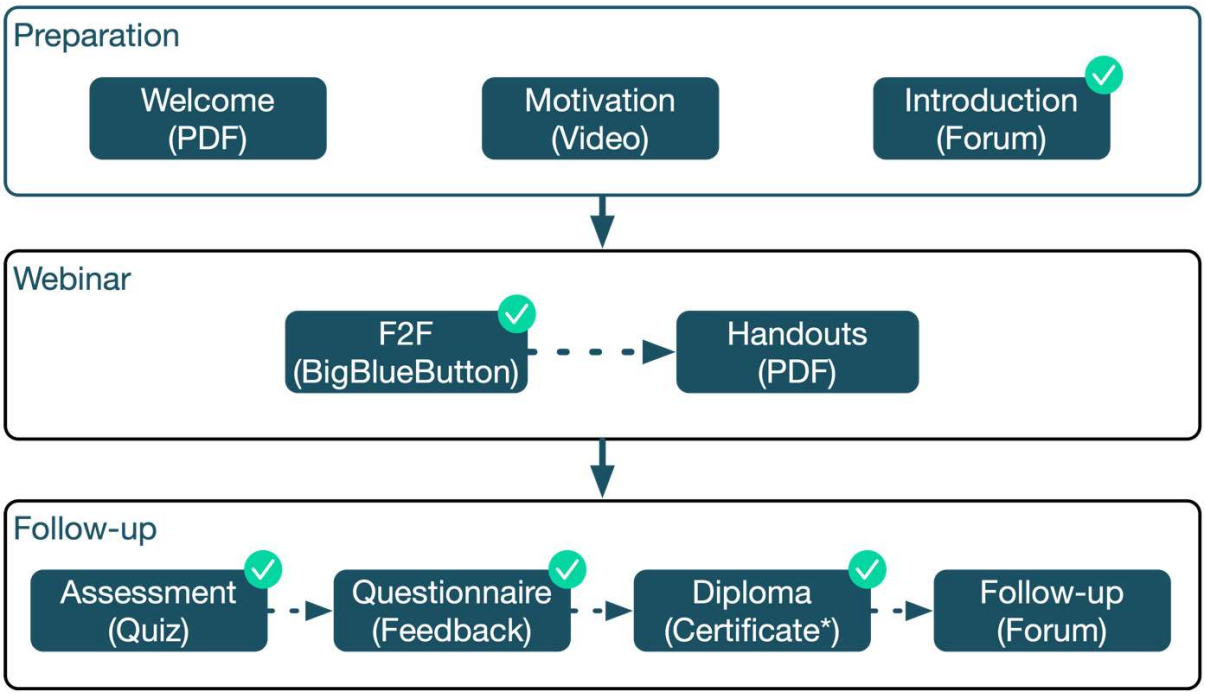

File types
Extension
Type
MIME type
Type groups
Description
3gp
Standard
video/quicktime
video
Video file (3GP)
7z
Standard
application/x-7z-compressed
archive
Archive (7Z)
aac
Standard
audio/aac
xsl
Standard
text/xml
zip
Standard
application/zip
archive
Archive (ZIP)
Add a new file type

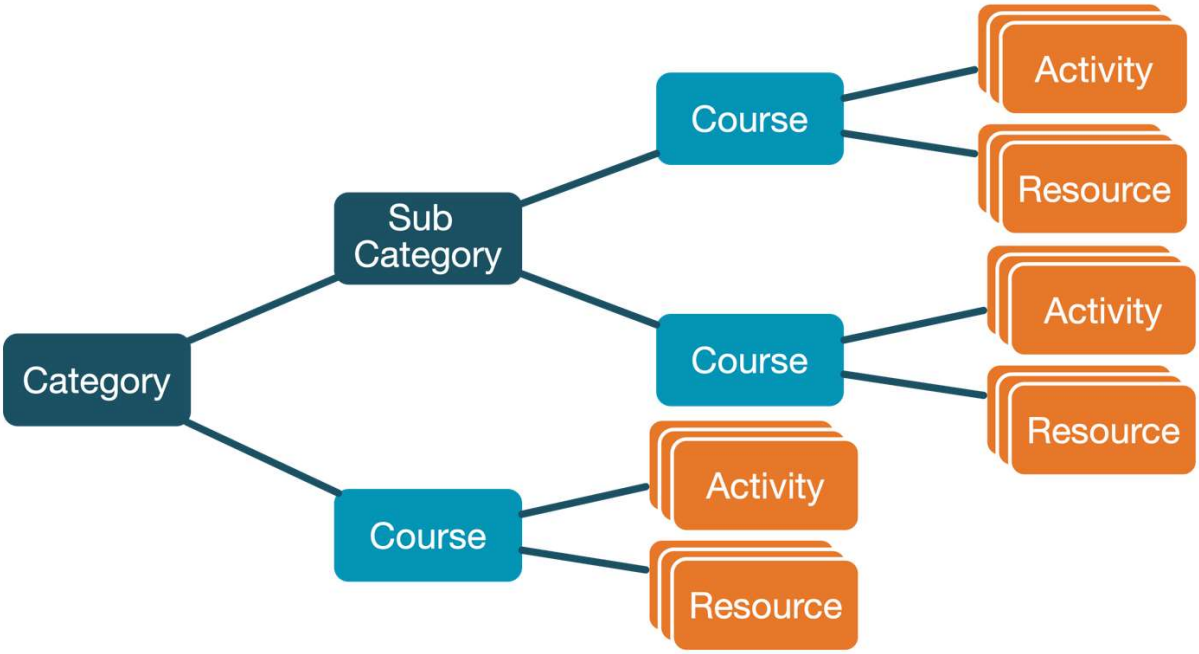

Recycle bin
Enable course recycle bin
tool_recyclebin | coursebinenable
Default: Yes
Item lifetime
tool_recyclebin | coursebinexpiry
1
weeks
Default: 1 weeks
How long should a deleted item remain in the recycle bin?
Enable category recycle bin
tool_recyclebin | categorybinenable
Default: Yes
Course lifetime
tool_recyclebin | categorybinexpiry
1
weeks
Default: 1 weeks
How long should a deleted course remain in the recycle bin?
Auto hide
tool_recyclebin | autohide
Default: Yes
Automatically hides the recycle bin link when the bin is empty.
Save changes

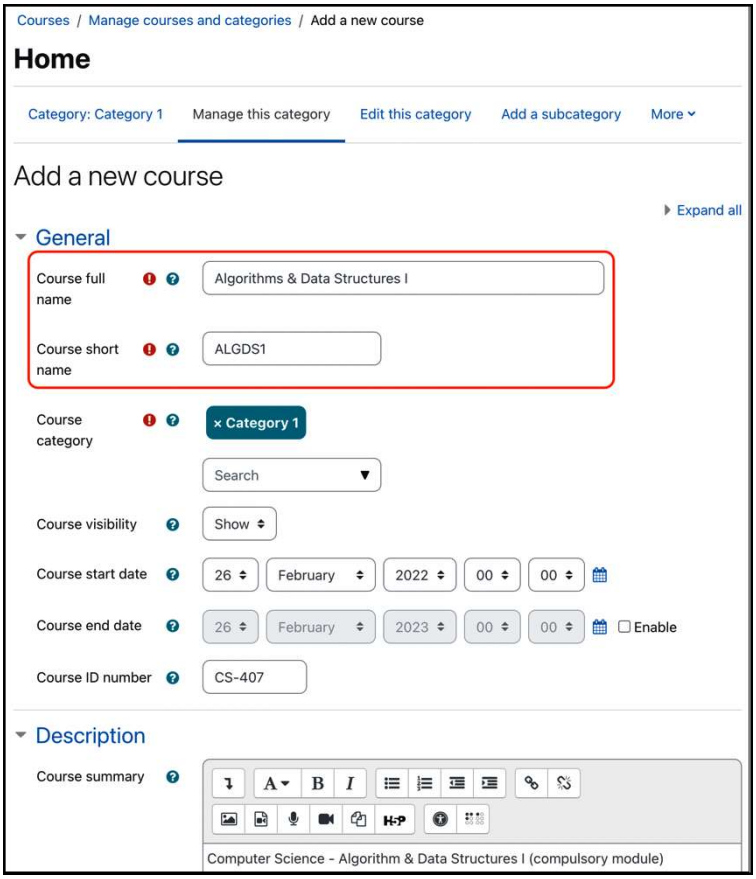

Recycle Bin
openumlaut.com
Course/
Category
Course/
Category
Course/
Category

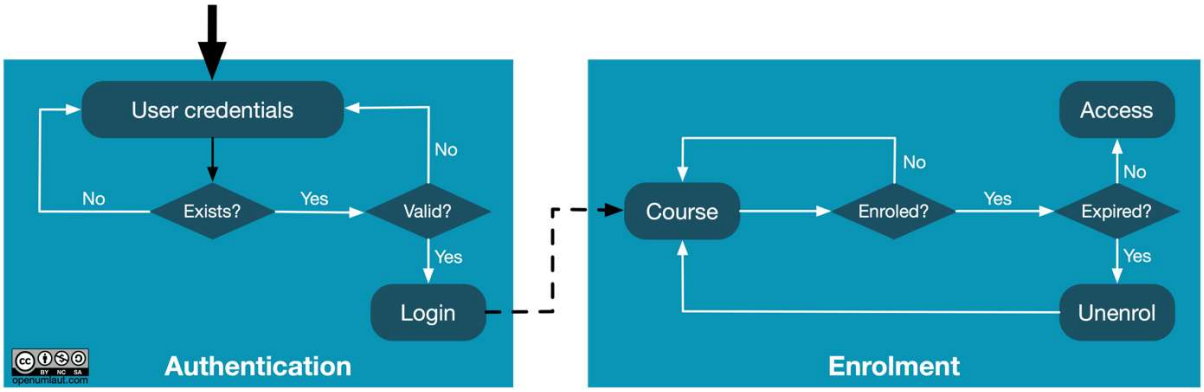
Chapter 3: Exploring Courses, Users, and Roles

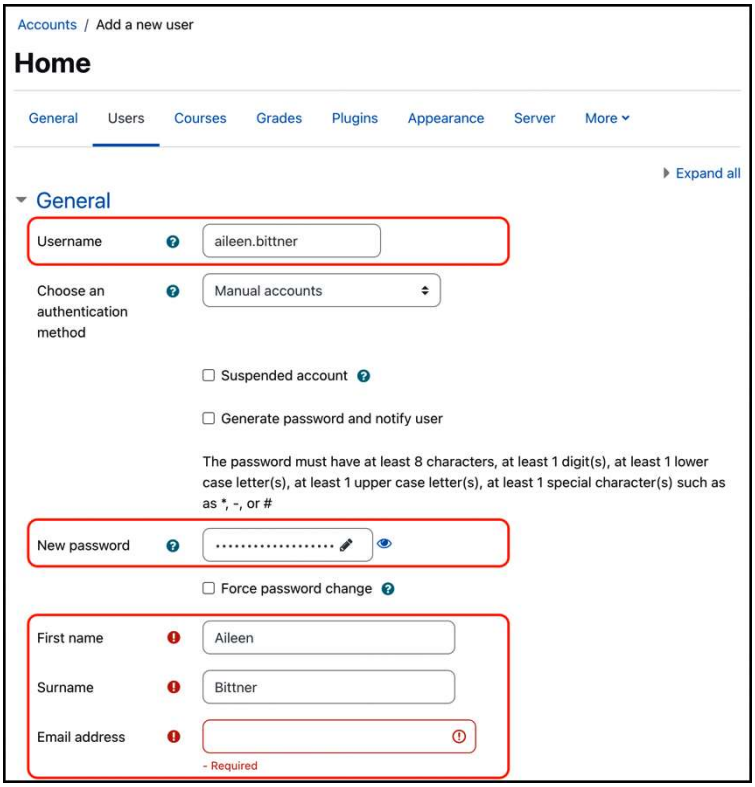



Preparation
Welcome (PDF)
Motivation (Video)
Introduction (Forum)
Webinar
F2F (BigBlueButton)
Handouts (PDF)
Follow-up
Assessment (Quiz)
Questionnaire (Feedback)
Diploma (Certificate*)
Follow-up (Forum)

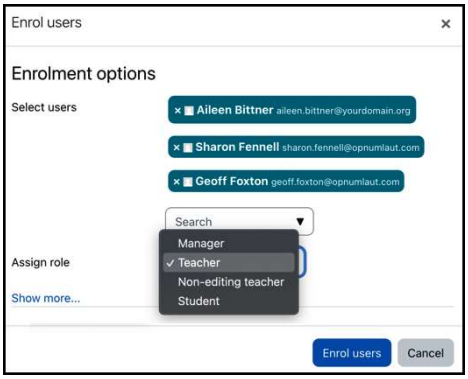

Category
Sub Category
Course
Activity
Resource
Course
Activity
Resource
Course
Activity
Resource

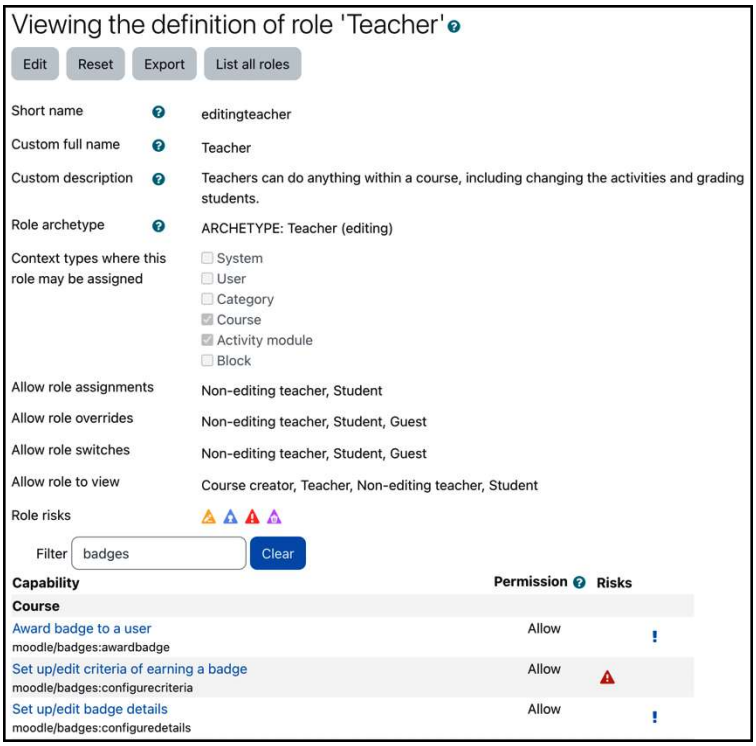

Courses / Manage courses and categories / Add a new course
Home
Category: Category 1
Manage this category
Edit this category
Add a subcategory
More
Add a new course
Expand all
General
Course full name
Algorithms & Data Structures I
Course short name
ALGDS1
Course category
× Category 1
Search
Course visibility
Show
Course start date
26 February 2022 00 00
Course end date
26 February 2023 00 00
Enable
Course ID number
CS-407
Description
Course summary
Computer Science - Algorithm & Data Structures I (compulsory module)


User credentials
No
No
Exists?
Yes
Valid?
Yes
Login
Authentication
Access
No
Course
Enroled?
Yes
Expired?
No
Yes
Unenrol
Enrolment

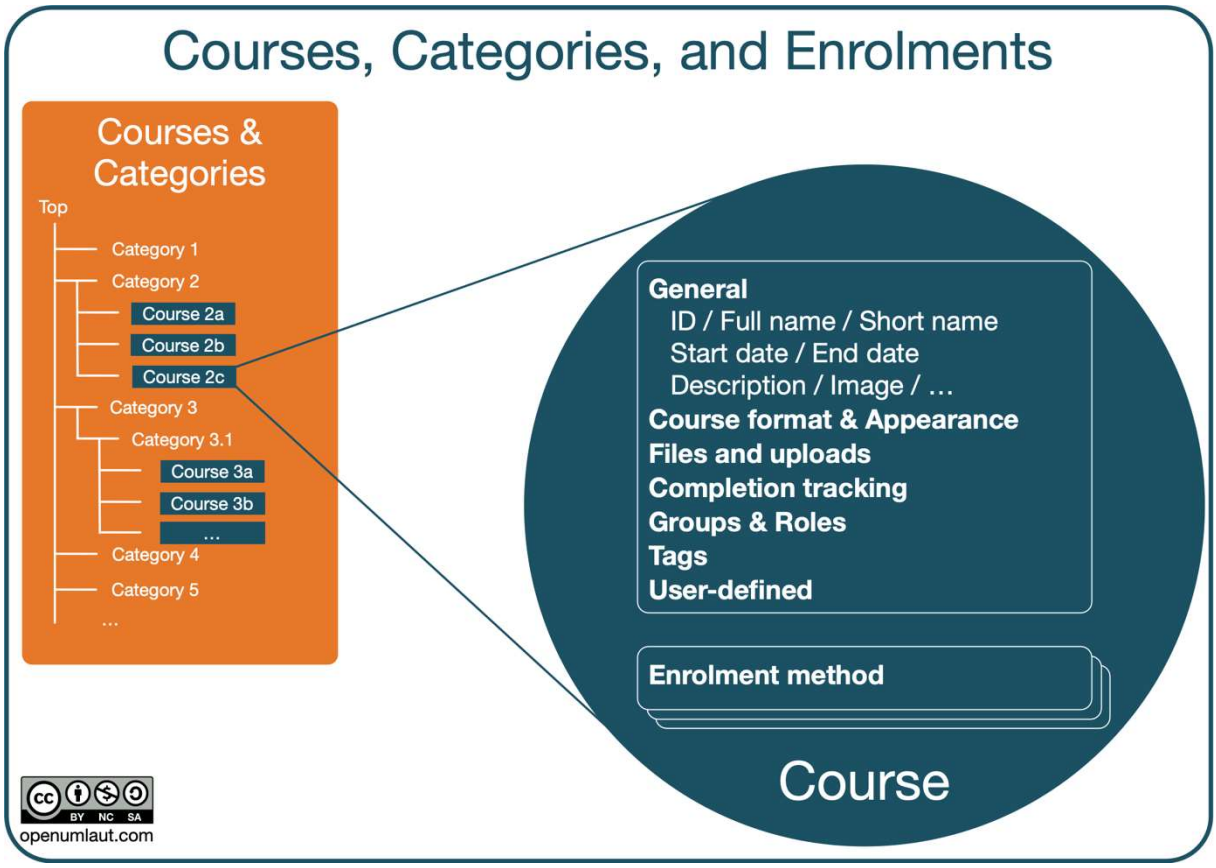


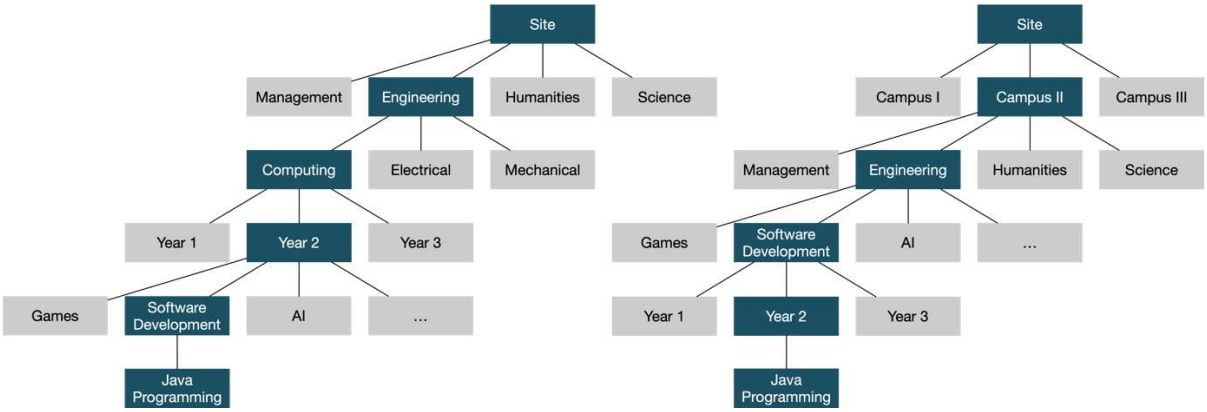
First name / Surname	Email address	City/town	Country	Last access	Edit
Adam Stevenson	adam.stevenson@openumlaut.com	Heidelberg	Germany	Never	
Aileen Bittner	aileen.bittner@openumlaut.com	Paris	France	Never	
Alex Büchner	packt@openumlaut.com	Heidelberg	Germany	8 secs	
Alex Newton	alex.newton@openumlaut.com	Heidelberg	Germany	Never	
Amanda Binnington	amanda.binnington@openumlaut.com	Heidelberg	Germany	Never	
Amanda hutchingson	amanda.hutchinson@openumlaut.com	Heidelberg	Germany	Never	
Andrew Craig	andrew.craig@openumlaut.com	Heidelberg	Germany	Never	
Andrew Elleray	andrew.elleray@openumlaut.com	Heidelberg	Germany	Never	
Andrew Greenhouse	andrew.greenhouse@openumlaut.com	Heidelberg	Germany	Never	
Andrew Simpson	andrew.simpson@openumlaut.com	Heidelberg	Germany	Never	
Andrew Wright	andrew.w.wright@openumlaut.com	Heidelberg	Germany	Never	
Andy Hodnett	andy.hodnett@openumlaut.com	Heidelberg	Germany	Never	
Andy Lowes	andy.lowles@openumlaut.com	Heidelberg	Germany	Never	
Anthony Bennett	antony.bennett@openumlaut.com	Heidelberg	Germany	Never	
Barrie Saxby	barrie.saxby@openumlaut.com	Heidelberg	Germany	Never	
Barry Pullin	barry.pullin@openumlaut.com	Heidelberg	Germany	Never	

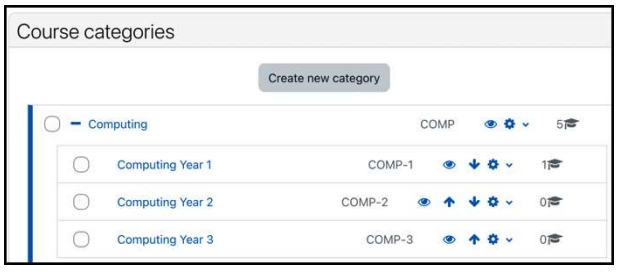

Enrol users
Enrolment options
Select users
Aileen Bittner aileen.bittner@yourdomain.org
Sharon Fennell sharon.fennell@opnumlaut.com
Geoff Foxton geoff.foxton@opnumlaut.com
Search
Assign role
Manager
Teacher
Non-editing teacher
Student
Show more...
Enrol users
Cancel

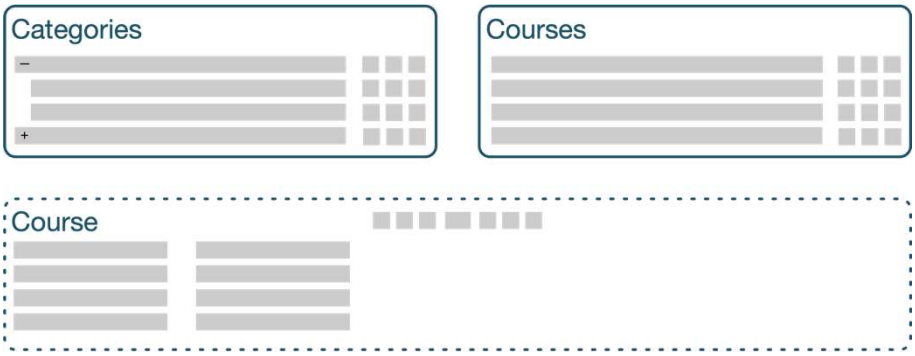

Viewing the definition of role 'Teacher'
Edit
Reset
Export
List all roles
Short name
editingteacher
Custom full name
Teacher
Custom description
Teachers can do anything within a course, including changing the activities and grading students.
Role archetype
ARCHETYPE: Teacher (editing)
Context types where this role may be assigned
System
User
Category
Course
Activity module
Block
Allow role assignments
Non-editing teacher, Student
Allow role overrides
Non-editing teacher, Student, Guest
Allow role switches
Non-editing teacher, Student, Guest
Allow role to view
Course creator, Teacher, Non-editing teacher, Student
Role risks
Filter
badges
Clear
Capability
Permission
Risks
Course
Award badge to a user
moodle/badges:awardbadge
Allow
Set up/edit criteria of earning a badge
moodle/badges:configurecriteria
Allow
Set up/edit badge details
moodle/badges:configuredetails
Allow

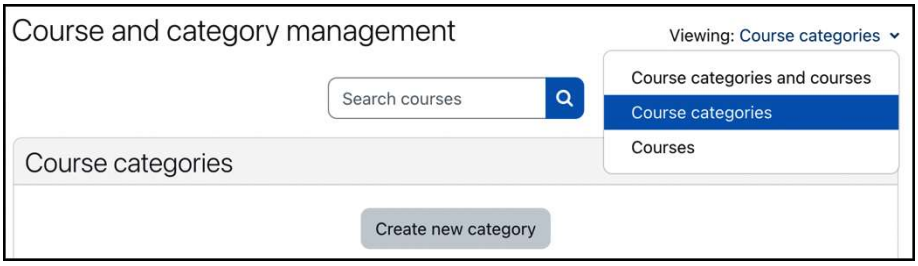
Chapter 4: Managing Courses and Enrolments

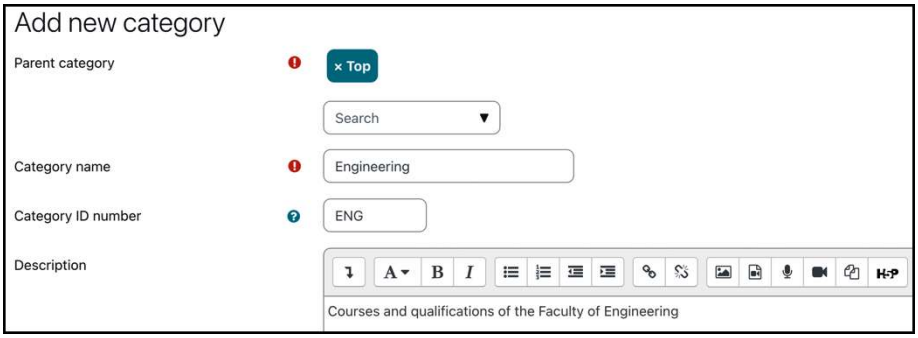


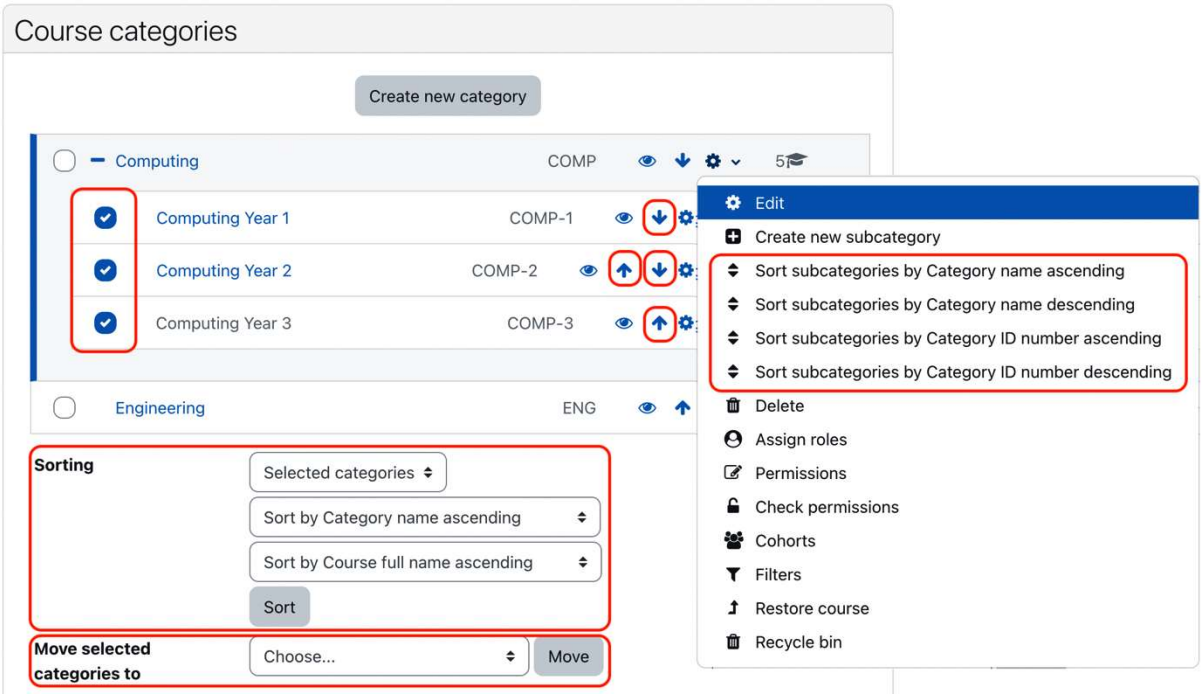




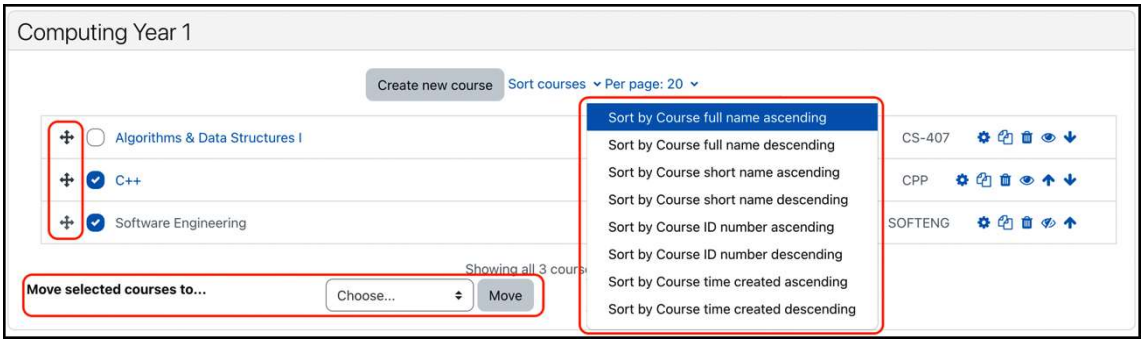

Categories
Courses
Course

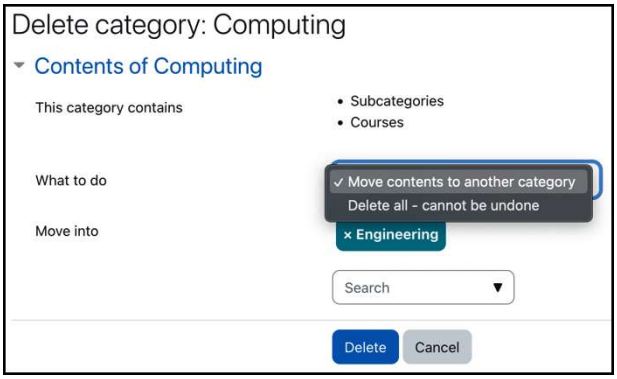

Course and category management
Viewing: Course categories
Search courses
Course categories and courses
Course categories
Courses
Course categories
Create new category

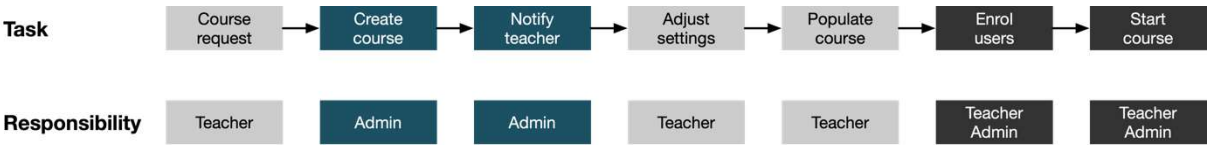

Add new category
Parent category
× Top
Search
Category name
Engineering
Category ID number
ENG
Description
Courses and qualifications of the Faculty of Engineering


Course categories
Create new category
Computing
COMP
Computing Year 1
COMP-1
Computing Year 2
COMP-2
Computing Year 3
COMP-3
Engineering
ENG
Sorting
Selected categories
Sort by Category name ascending
Sort by Course full name ascending
Sort
Move selected categories to
Choose...
Move
Edit
Create new subcategory
Sort subcategories by Category name ascending
Sort subcategories by Category name descending
Sort subcategories by Category ID number ascending
Sort subcategories by Category ID number descending
Delete
Assign roles
Permissions
Check permissions
Cohorts
Filters
Restore course
Recycle bin

Option	Description	Chapter
Edit	Modify category details	
Create new subcategory	It does exactly what it says on the tin	
Sort ...	(Re-)ordering of categories	
Delete	Remove category after choosing some options	
Assign roles	Assign category roles	6
Permissions	Manage permissions in category	6
Check permissions	Check permissions in category	6
Cohorts	Manage category cohorts	5
Filters	Link to course filters	9
Restore course	Restore a course in this category	16
Recycle bin	Retrieve deleted categories and courses	2

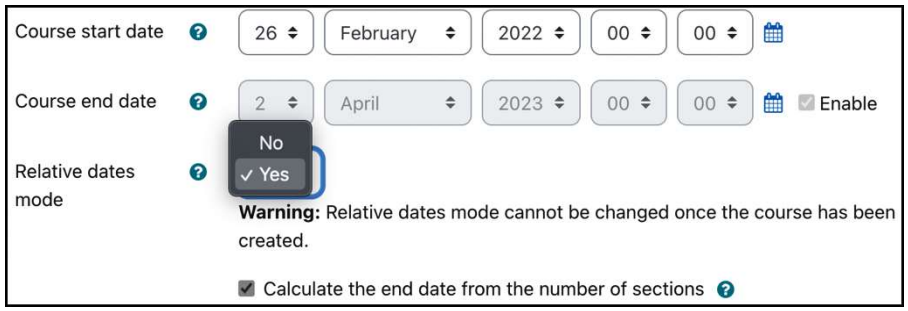






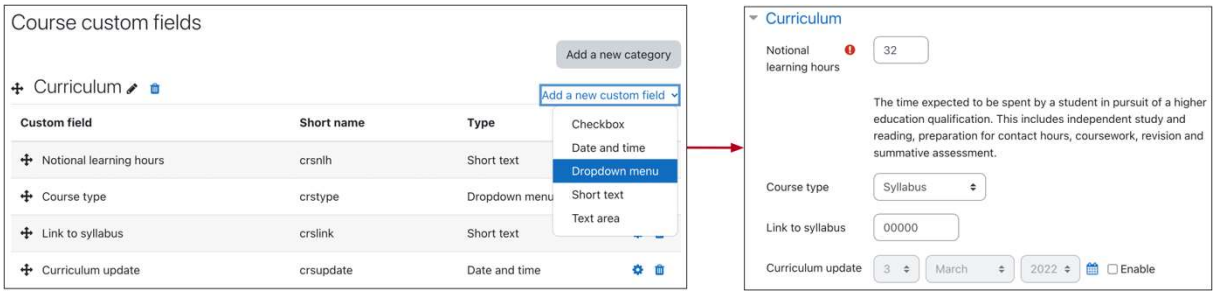
Setting	Description
Course full name*	The course's full name is displayed at the top of the screen and in the list of courses, for example, on the dashboard.
Course short name*	Many organizations have a short form for referring to a course. The field is used in several places where the full name is inappropriate, such as in the navigation, when uploading users in batch files, or as a subject line in email communication.
Course category*	The category to which the course belongs. See previous section for details.
Course visibility	If set to **Hide**, the course won't appear in course listings, and students cannot access it. Other than the course teacher(s) and administrators (and anyone with permission to view hidden courses), no one will be able to view it in any course listings.
Enable download course content	If enabled, the course content can be downloaded by users with the capability `moodle/course:downloadcoursecontent` (by default, students and teachers). The feature has to be activated in **Site administration | Courses | Download course content**, where a maximum size per file can also be specified.
Course start/end date	See the following details on date fields.
Relative dates mode	See the following details on date fields.
Course ID number	The course code (often used in conjunction with external systems).
Course summary	Writing a concise paragraph explaining what the course is about is recommended. The summary is displayed when a user clicks on the information icon, and when the course appears in a list.
Course image	You have the option to upload an image, which will be shown in the course listing. This is highly recommended to make the course catalogue more attractive.

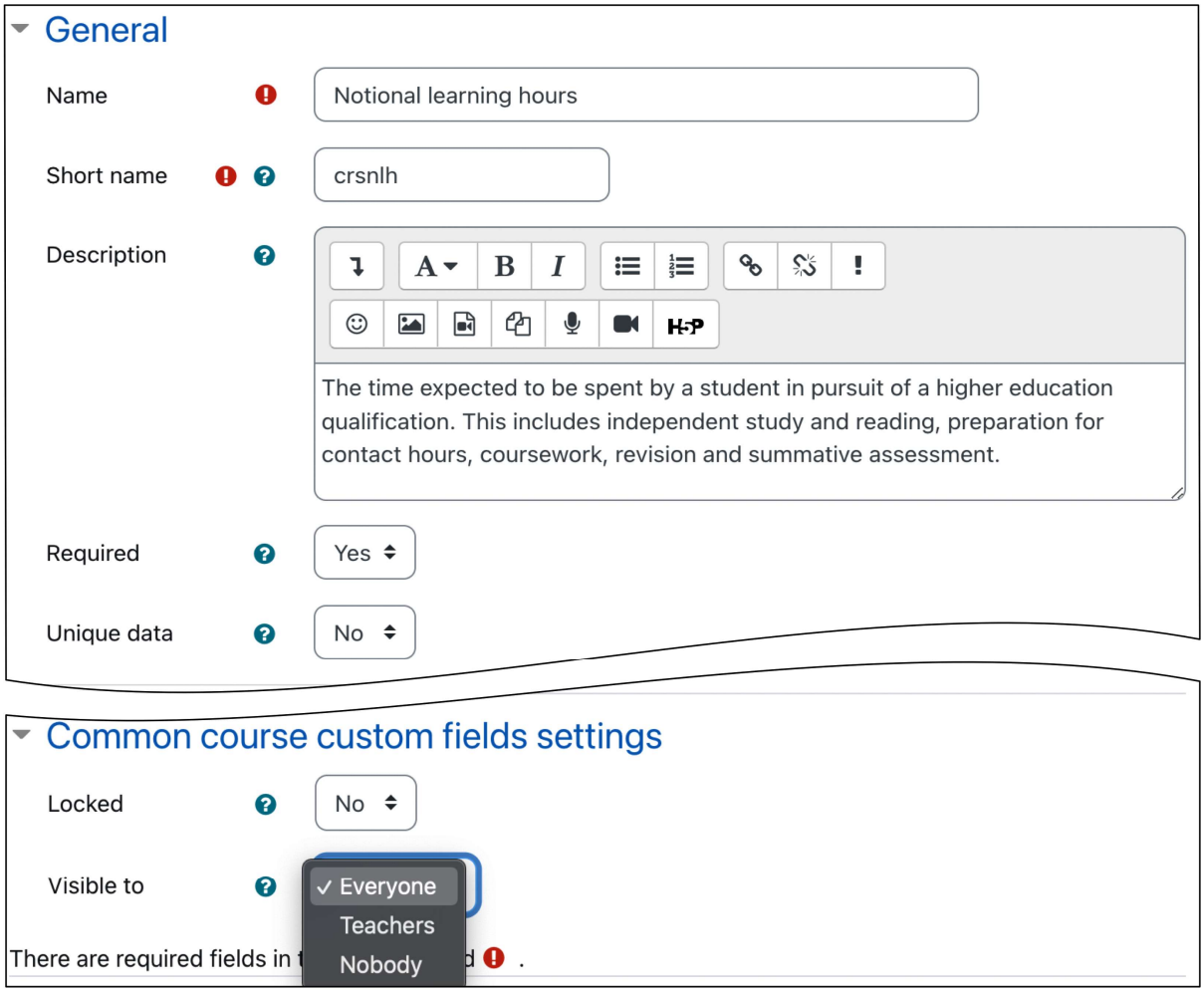
* Compulsory field

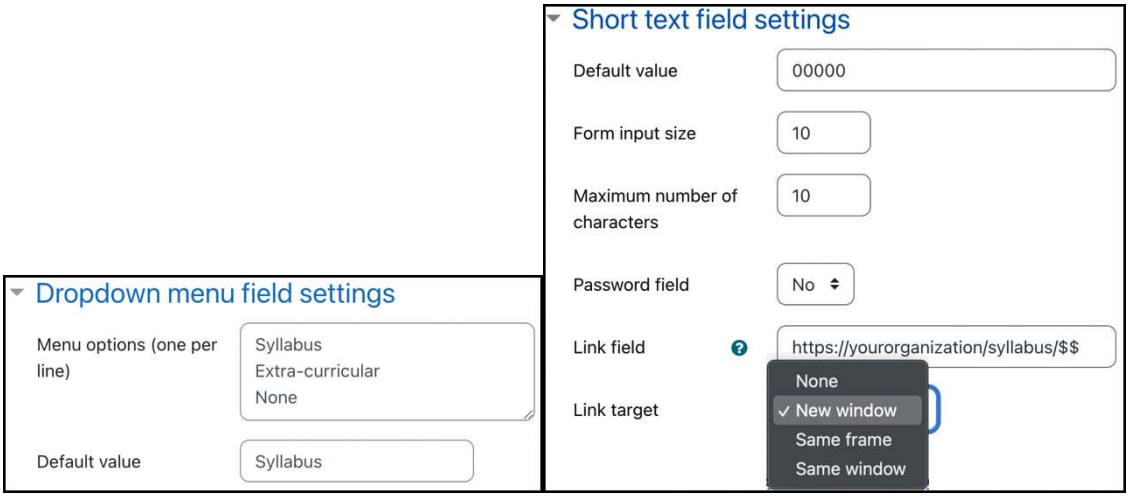


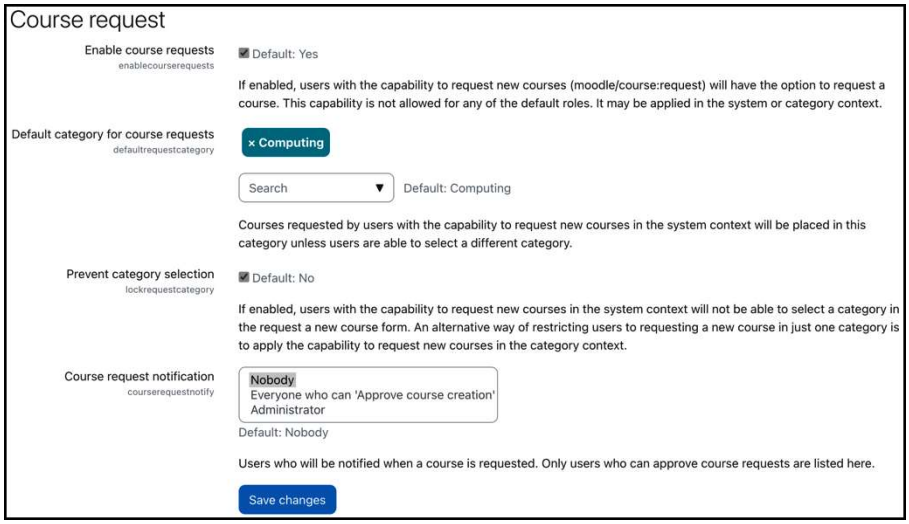
	Start date	End date
Absolute dates	Manual	Manual / Open
Relative dates	Enrolment date Start date	Dynamic

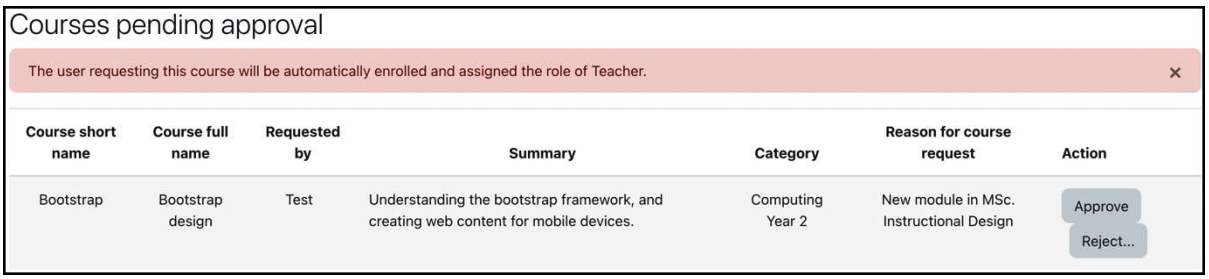
Setting	Description
Force theme	The theme to be applied for this course is forced through this option. This requires course themes to be enabled in **Site administration | Appearance | Themes | Theme Settings** (see *Chapter 7, Enhancing Moodle's Look & Feel*).
Force language	If set, the selected language is used throughout the course and cannot be changed.
Number of announcements	Determines how many recent items appear on your course home page in the news section (if any). Set this to 0 if the default news forum shown in a course should not be re-created automatically once deleted!
Show gradebook to students	Determines whether students are shown the **Grades** link. You can set this to **No** and still grade your activities.
Show activity reports	Determines whether students can see their own activity reports (see *Chapter 12, Gaining Insights Through Moodle Reporting and Analytics*) via their profile page.
Show activity dates	Determines whether activity dates are shown below each activity in addition to being displayed on the activity page.
Maximum upload size	Limits the size of a file a user can upload into this course.
Enable completion tracking	Once completion tracking is enabled sitewide (**Advanced features**), it has to be activated at the course level.
Show activity completion conditions	Determines whether activity completion conditions are shown below each activity in addition to being displayed on the activity page. **Enable completion tracking** must be enabled.
Group mode	This sets the group mode of the course to: • **No groups**: There are no subgroups. Everyone is part of one big community or class • **Separate groups**: Users can only see their own group, while other groups are invisible • **Visible groups**: Users work in their own group but can also see other groups
Force group mode	If set, the selected group mode is used for every activity, and group settings in individual activities are ignored. Forcing group mode is useful when the same course is run multiple times with separate batches of students. Also, if group mode is forced and set to **No groups**, the **Groups** link is hidden in the course administration menu.
Default grouping	If grouping is enabled and used within the course, the grouping to be used as default can be selected.



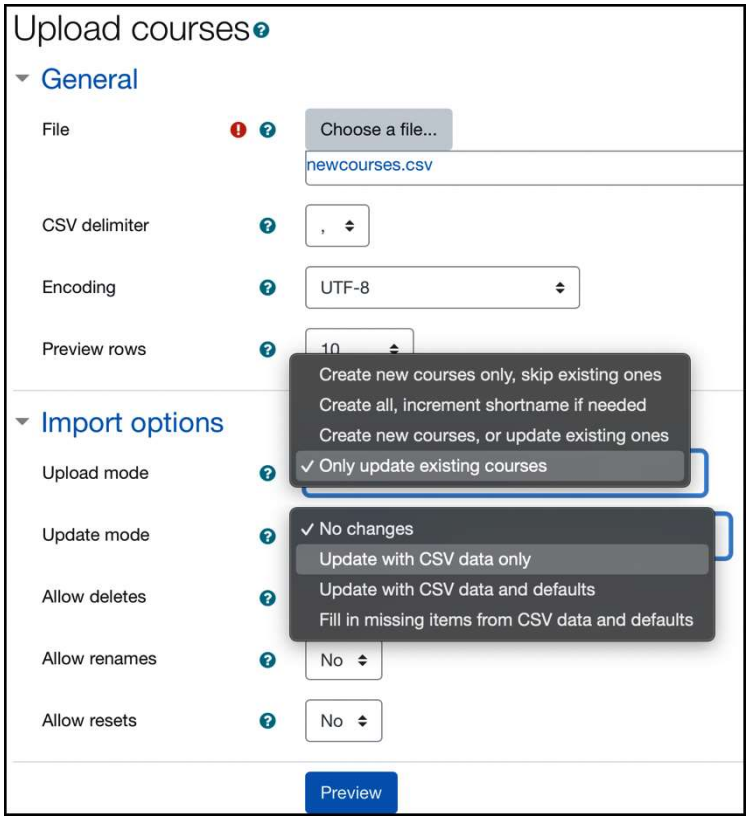

General
Name
Notional learning hours
Short name
crsnlh
Description
The time expected to be spent by a student in pursuit of a higher education qualification. This includes independent study and reading, preparation for contact hours, coursework, revision and summative assessment.
Required
Yes
Unique data
No
Common course custom fields settings
Locked
No
Visible to
Everyone
Teachers
Nobody
There are required fields in t d .

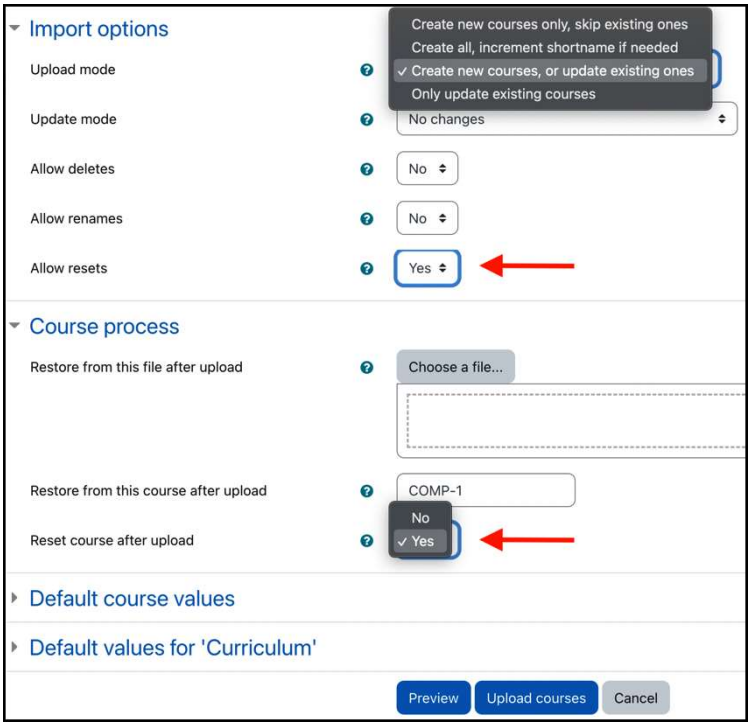

Short text field settings
Default value
00000
Form input size
10
Maximum number of characters
10
Password field
No
Link field
https://yourorganization/syllabus/$$
Link target
None
New window
Same frame
Same window
Dropdown menu field settings
Menu options (one per line)
Syllabus
Extra-curricular
None
Default value
Syllabus





Option	Description
Upload mode	There are four self-explanatory options whether courses will be created or updated: • Create new courses only, skip existing ones • Create all, increment if needed (see templates further down) • Create new courses, or update the existing ones • Only update the existing ones If any of the latter two options are selected, the following settings will become available.
Update mode	The mode specifies what data source will be used for updating fields: • No changes • Update with CSV data only • Update with CSV data only and defaults • Fill in missing items from CSV and defaults
Allow deletes	Determines whether the delete field will be accepted or not
Allow renames	Determines whether the rename field will be accepted or not
Allow resets	Determines whether the reset field will be accepted or not


Upload courses
General
File
Choose a file...
newcourses.csv
CSV delimiter
,
Encoding
UTF-8
Preview rows
10
Import options
Upload mode
Create new courses only, skip existing ones
Create all, increment shortname if needed
Create new courses, or update existing ones
Only update existing courses
Update mode
No changes
Update with CSV data only
Update with CSV data and defaults
Fill in missing items from CSV data and defaults
Allow deletes
Allow renames
No
Allow resets
No
Preview


Import options
Upload mode
Create new courses only, skip existing ones
Create all, increment shortname if needed
Create new courses, or update existing ones
Only update existing courses
Update mode
No changes
Allow deletes
No
Allow renames
No
Allow resets
Yes
Course process
Restore from this file after upload
Choose a file...
Restore from this course after upload
COMP-1
Reset course after upload
No
Yes
Default course values
Default values for 'Curriculum'
Preview
Upload courses
Cancel

```
shortname,fullname,category,category_idnumber,category_path,
enrolment_1,enrolment_1_startdate,delete
packt1,Course One,1,,,self,26/02/22,0
packt2,Course Two,,1,,self,26/02/22,0
packt3,Course Three,,,1,self,26/02/22,0
packt4,Course Four,1,,,,,
COMP-3,,,,,,,1
```

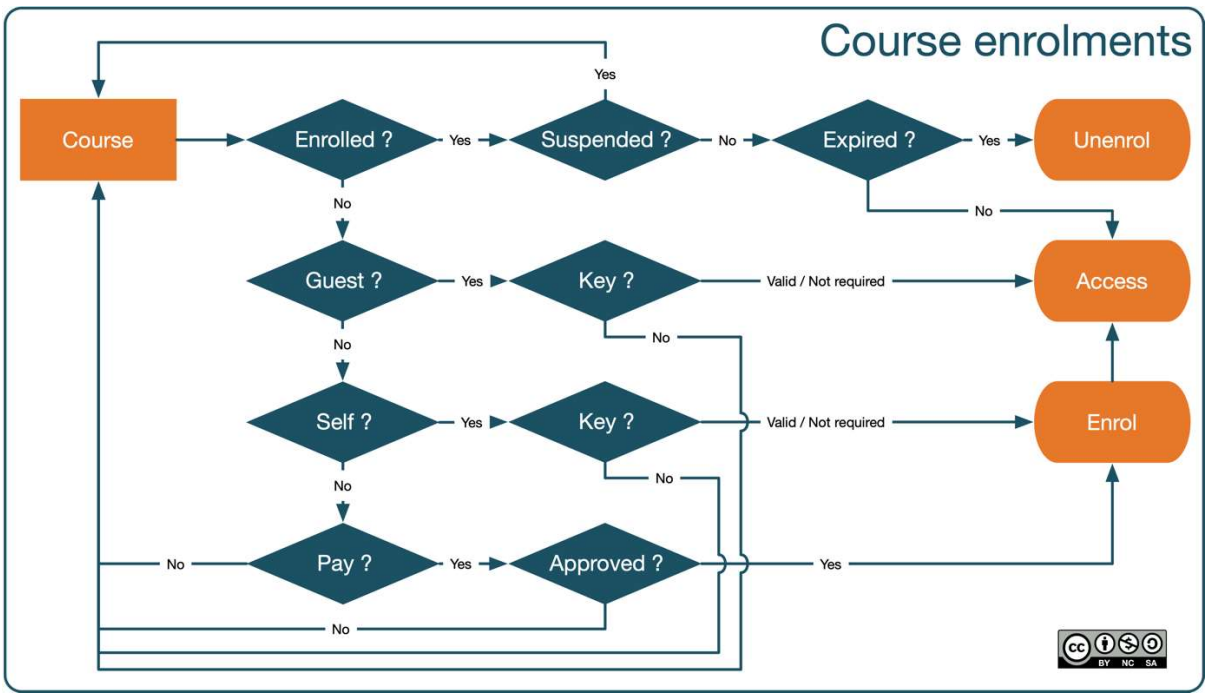
Upload courses preview

Line	Result	ID	Short name	Full name	ID number	Status
1	✔		packt1	Course One		
2	✖		packt2	Course Two		Could not resolve category by ID number
3	✖		packt3	Course Three		Could not resolve category by path
4	✔		packt4	Course Four		
5	✖		COMP-3			Cannot delete a course that does not exist

Upload courses results

Line	Result	ID	Short name	Full name	ID number	Status
1	✔	9	packt1	Course One		Course created
2	✖		packt2	Course Two		Could not resolve category by ID number
3	✖		packt3	Course Three		Could not resolve category by path
4	✔	10	packt4	Course Four		Course created
5	✖		COMP-3			Cannot delete a course that does not exist

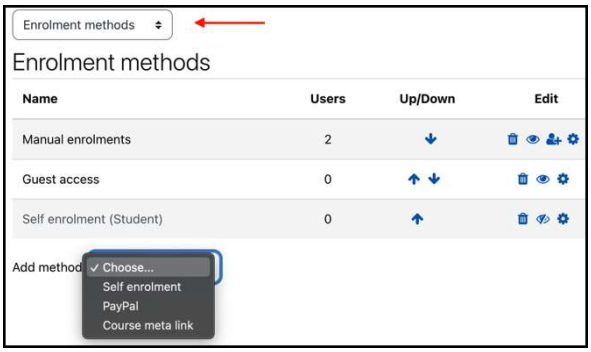
- Courses total: 5
- Courses created: 2
- Courses updated: 0
- Courses deleted: 0
- Courses errors: 3



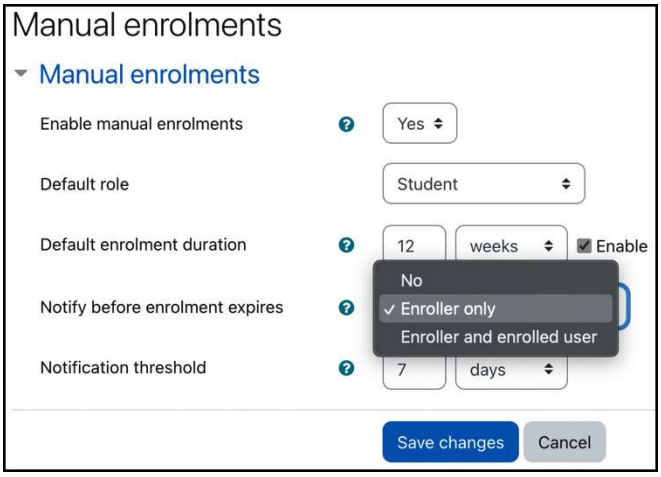
Manage enrol plugins

Available course enrolment plugins

Name	Instances / enrolments	Version	Enable	Up/Down	Settings	Test settings	Uninstall
Manual enrolments	3 / 74	2021052500			Settings		
Guest access	3 / 0	2021052500			Settings		Uninstall
Self enrolment	3 / 1	2021052500			Settings		Uninstall
Cohort sync	1 / 28	2021052500			Settings		Uninstall
Enrolment on payment	2 / 0	2021052500			Settings		Uninstall
Category enrolments	0 / 0	2021052500			Settings		Uninstall
External database	0 / 0	2021052500			Settings	Test settings	Uninstall
Flat file (CSV)	0 / 0	2021052500			Settings		Uninstall
IMS Enterprise file	0 / 0	2021052500			Settings		Uninstall
LDAP enrolments	0 / 0	2021052500			Settings		Uninstall
Publish as LTI tool	0 / 0	2021052500			Settings		Uninstall
Course meta link	0 / 0	2021052501			Settings		Uninstall
MNet remote enrolments	0 / 0	2021052500			Settings		Uninstall
PayPal	0 / 0	2021052500			Settings		Uninstall

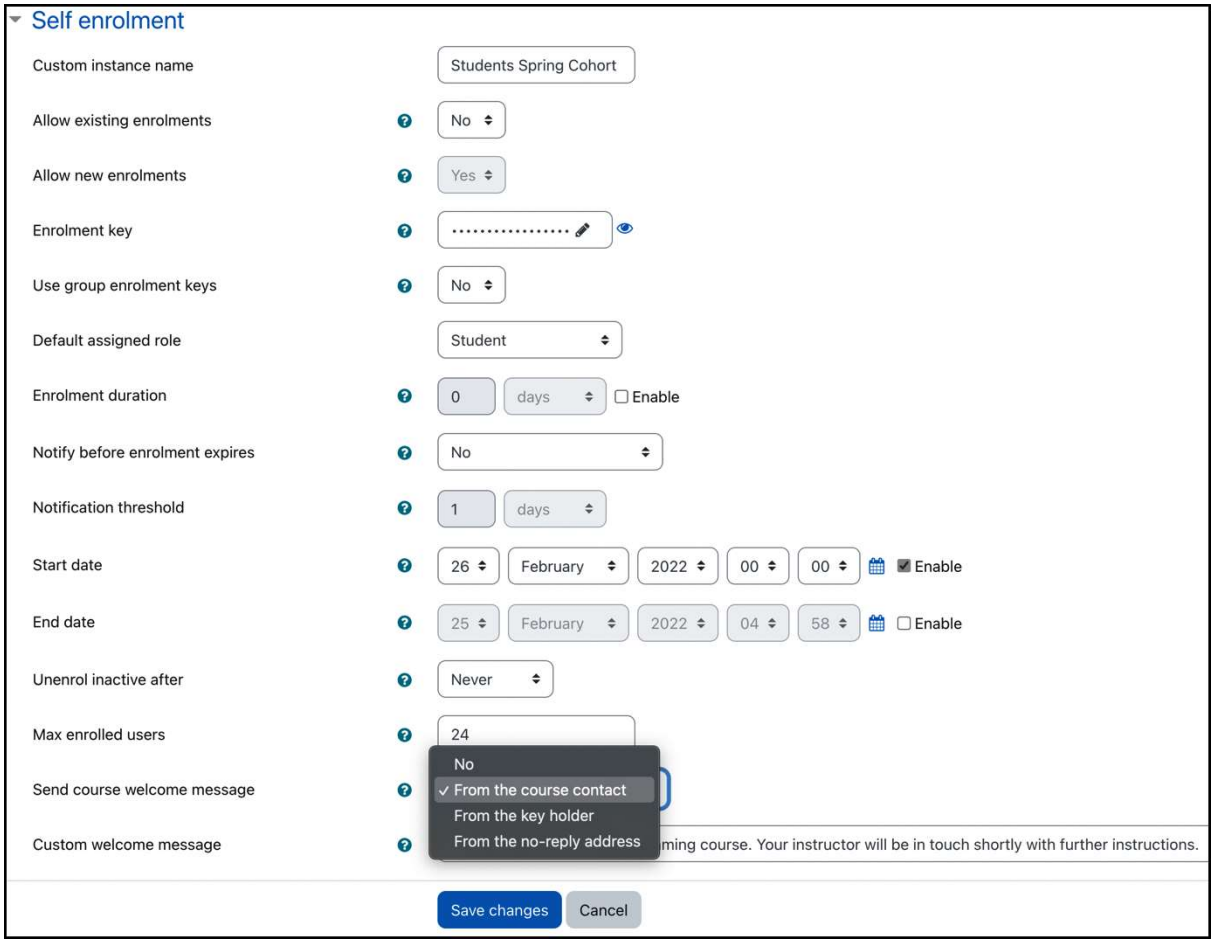


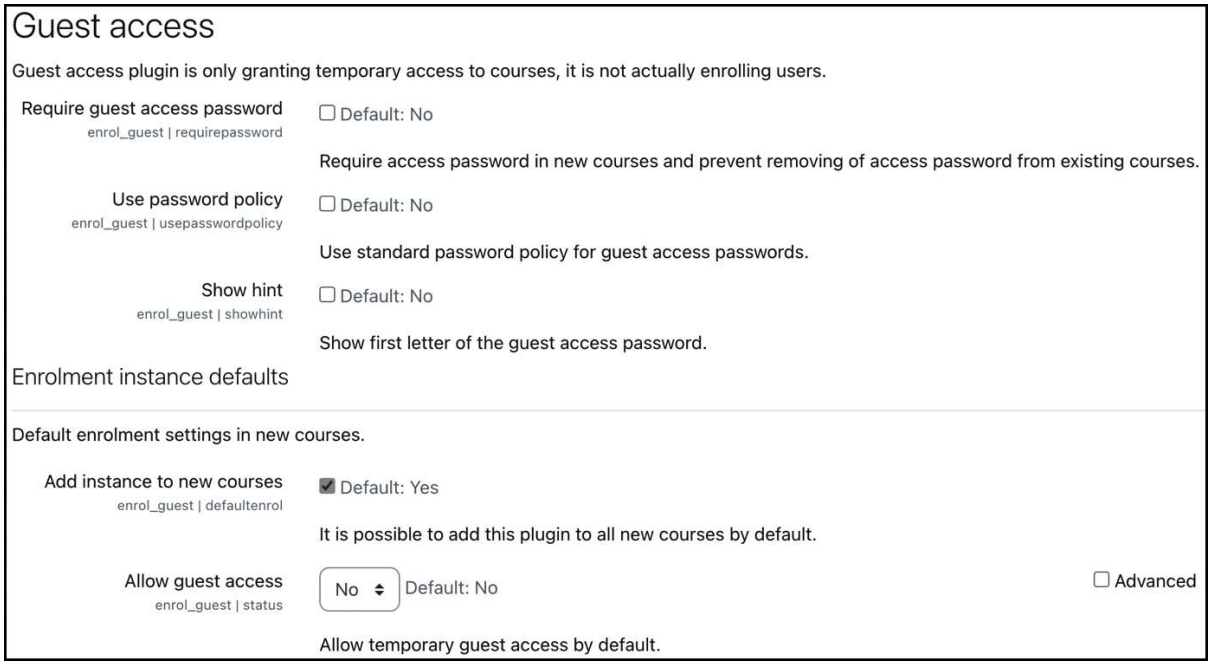
Option	Description
Enrolment expiration action	The action to be taken when a user enrolment expires.
Hour to send enrolment expiry notifications	The time when the enrolment expiry notification will be sent out to the user.
Add instance to new course	Every newly-created course will contain this plugin by default.
Enable manual enrolments	The plugin is enabled by default.
Default role	The role that manually enrolled users will have by default.
Default enrolment start	The three options when the enrolment is to commence are **Course start**, **Today** (default), and **Now**.
Default enrolment duration	The default time for how long users are enrolled in a course.
Notify before enrolment expires	You can opt to notify only the enroller or the enrolled user and also the affected user.
Notification threshold	The time before expiration users will be notified.

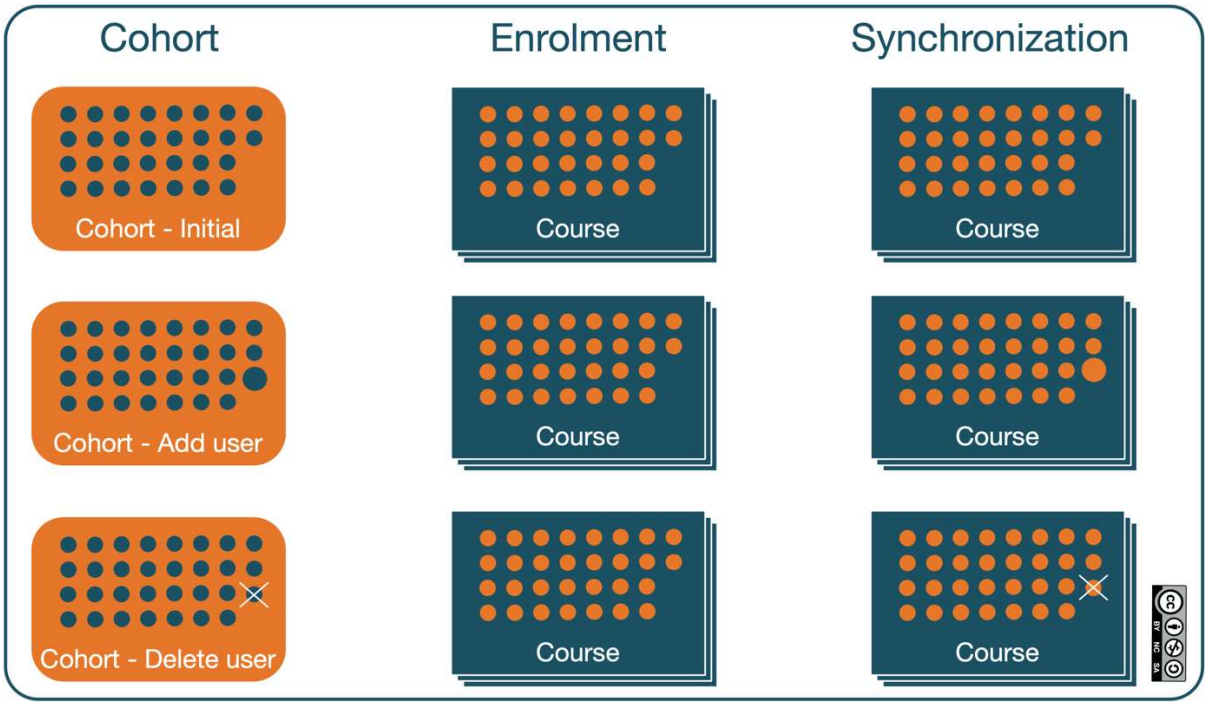


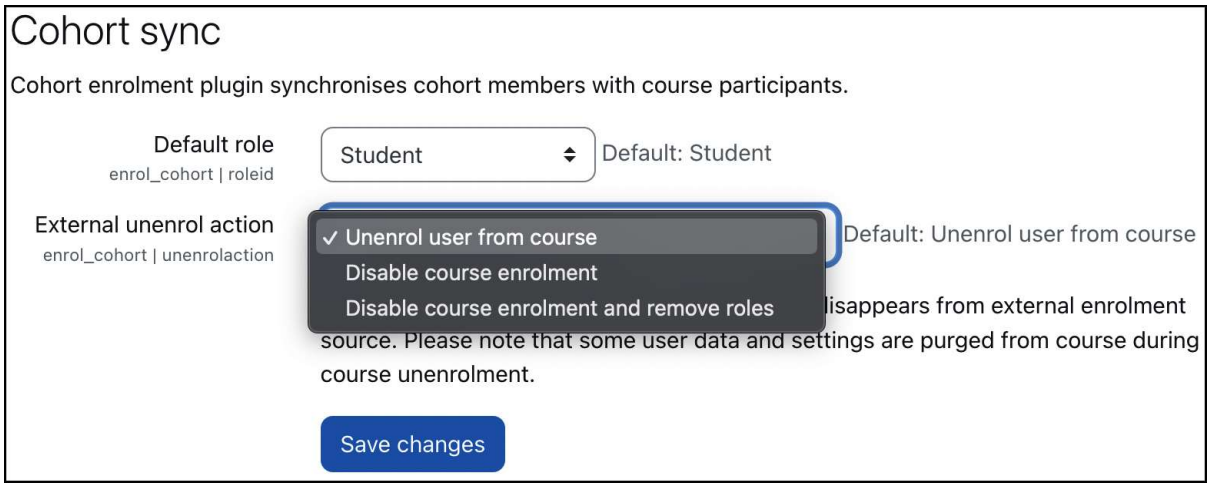


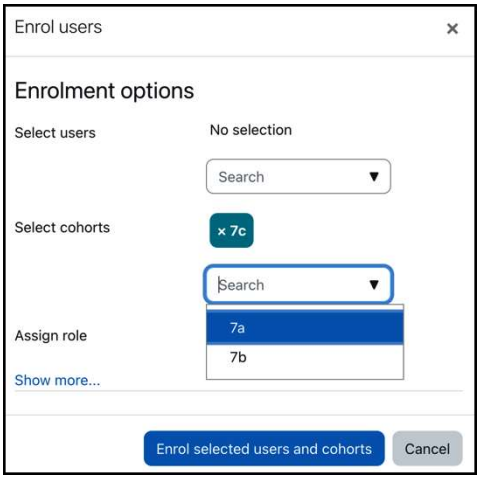
Setting	Description
Require enrolment key	If set, new courses must have an enrolment key. Enrolment keys set in the existing courses cannot be removed but can be modified.
Use password policy	If set, the password policy (see *Chapter 12, Security*) will be applied to enrolment keys.
Show hint	If set, the first letter of the enrolment key is shown.
Enrolment expiry action	The action to be taken when a user enrolment expires.
Hour to send enrolment expiry notifications	The time when the enrolment expiry notification will be sent out to the user.
Add instance to new courses	Every newly-created course will contain this plugin by default.
Enable existing enrolments	If set, all the existing enrolments will be suspended, and new users cannot enrol.
Allow new enrolments	If set, new users can enrol in the course.
Use group enrolment keys	If set, users can self-enrol via a group enrolment key, making them members of that group.
Default role assignment	The role self-enrolled users will have by default.
Enrolment duration	The default time for how long users are enrolled in a course.
Notify before enrolment expires	You can opt to notify only the enroller or the enroller and also the affected user.
Notification threshold	This is the time before expiration a user will be notified.
Unenrol inactive after	The number of days after users will be unenrolled after being logged in to the course.
Max enrolled users	The maximum number of users who can enrol in the course (0 equals unlimited).
Send course welcome message	If set, a welcome message will be sent to the user by email.

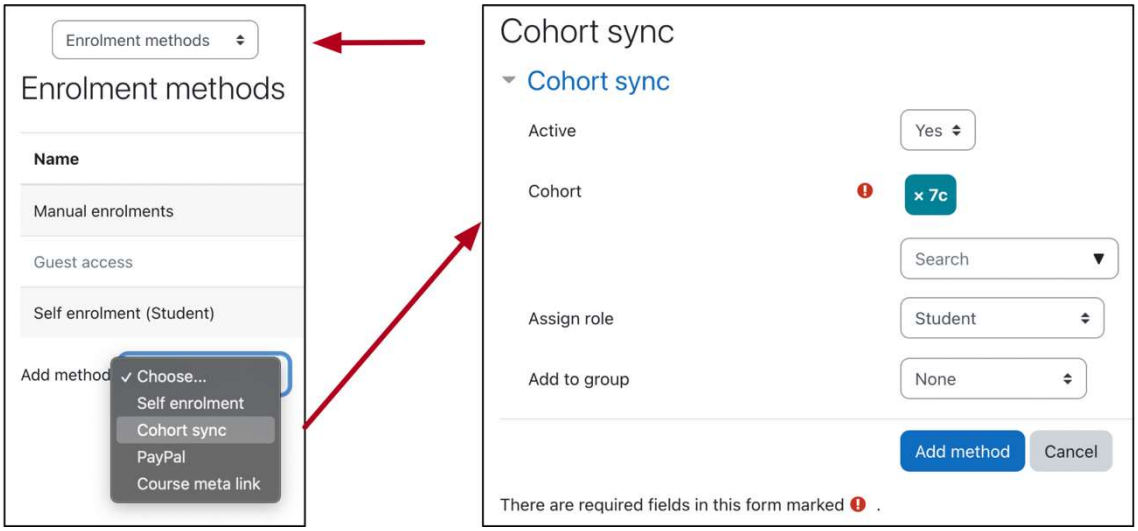

Self enrolment
Custom instance name
Students Spring Cohort
Allow existing enrolments
No
Allow new enrolments
Yes
Enrolment key
Use group enrolment keys
No
Default assigned role
Student
Enrolment duration
0
days
Enable
Notify before enrolment expires
No
Notification threshold
1
days
Start date
26
February
2022
00
00
Enable
End date
25
February
2022
04
58
Enable
Unenrol inactive after
Never
Max enrolled users
24
Send course welcome message
No
From the course contact
From the key holder
From the no-reply address
Custom welcome message
ming course. Your instructor will be in touch shortly with further instructions.
Save changes
Cancel

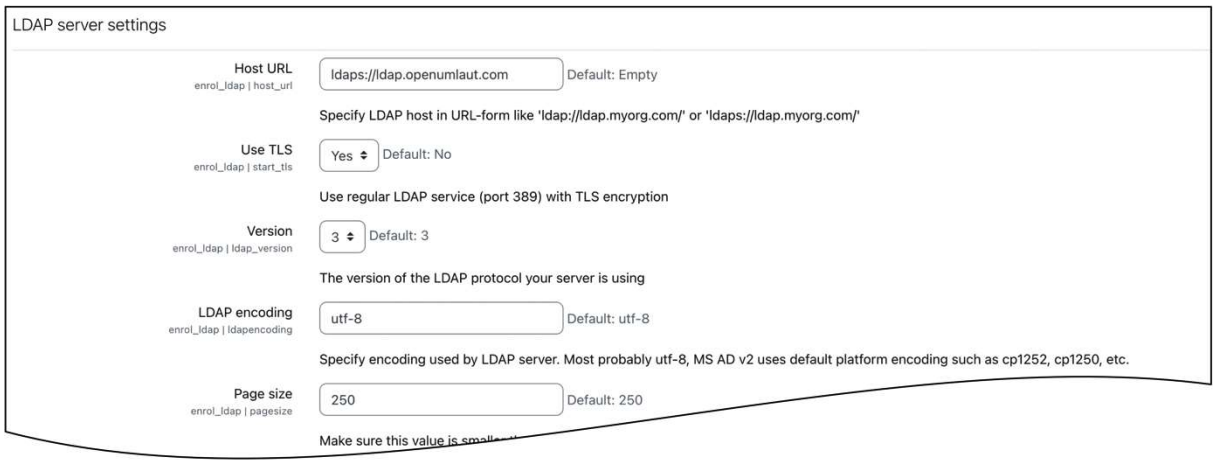

Guest access
Guest access plugin is only granting temporary access to courses, it is not actually enrolling users.
Require guest access password
enrol_guest | requirepassword
Default: No
Require access password in new courses and prevent removing of access password from existing courses.
Use password policy
enrol_guest | usepasswordpolicy
Default: No
Use standard password policy for guest access passwords.
Show hint
enrol_guest | showhint
Default: No
Show first letter of the guest access password.
Enrolment instance defaults
Default enrolment settings in new courses.
Add instance to new courses
enrol_guest | defaultenrol
Default: Yes
It is possible to add this plugin to all new courses by default.
Allow guest access
enrol_guest | status
No
Default: No
Advanced
Allow temporary guest access by default.

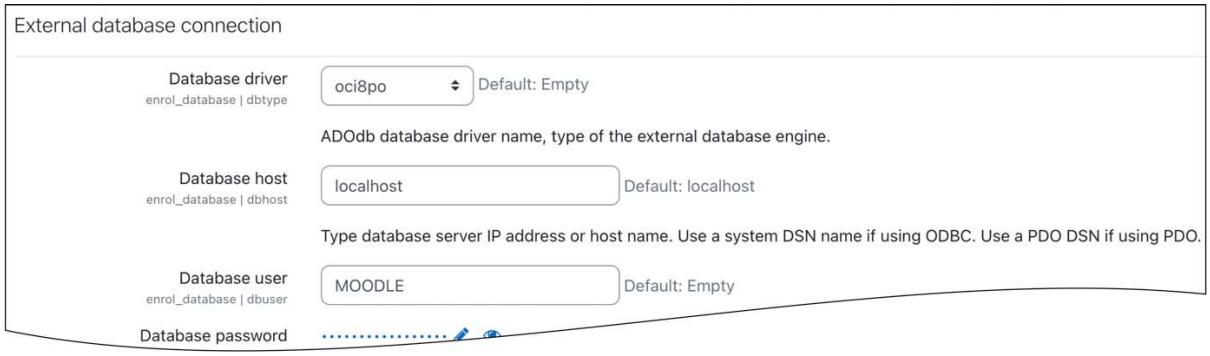

Cohort
Enrolment
Synchronization
Cohort - Initial
Cohort - Add user
Cohort - Delete user
Course
Course
Course
Course
Course
Course


Cohort sync
Cohort enrolment plugin synchronises cohort members with course participants.
Default role
enrol_cohort | roleid
Student
Default: Student
External unenrol action
enrol_cohort | unenrolaction
Unenrol user from course
Disable course enrolment
Disable course enrolment and remove roles
Default: Unenrol user from course
isappears from external enrolment
source. Please note that some user data and settings are purged from course during
course unenrolment.
Save changes


Enrol users
Enrolment options
Select users
No selection
Search
Select cohorts
× 7c
Search
Assign role
7a
7b
Show more...
Enrol selected users and cohorts
Cancel







Field	Description
operation	**add** (to add an enrolment) or **del** (to remove it)
role	See **Flat file role mapping** in the lower part of the same screen, for example, student or teacher
user idnumber	The ID number of the user to be enrolled
course idnumber	The ID number of the course in which the user is to be enrolled
start time/end time	The optional start/end time in seconds since epoch (January 1, 1970)

File location
enrol_flatfile | location
/home/moodledata/csv-courses
Default: Empty

Specify full path to the enrolment file. The file is automatically deleted after processing.

File encoding
enrol_flatfile | encoding
UTF-8
Default: UTF-8

Notify enrolled users
enrol_flatfile | mailstudents
Default: No

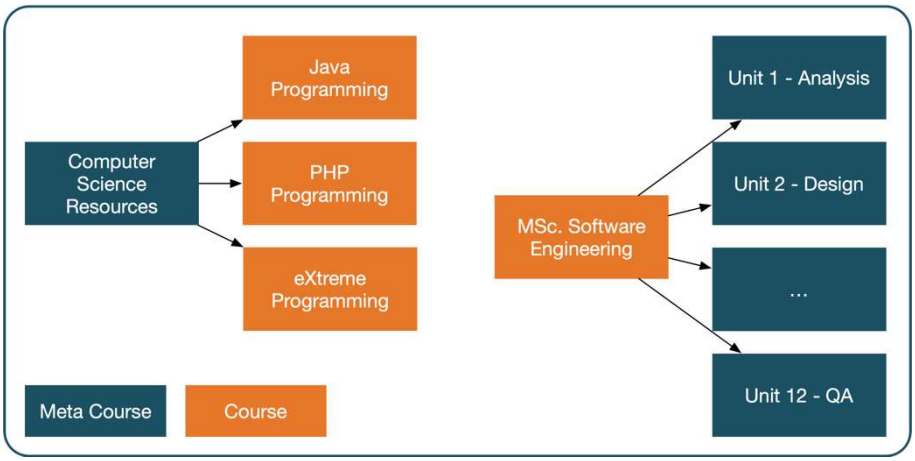
Notify user responsible for enrolments
enrol_flatfile | mailteachers
Default: No

Notify administrator
enrol_flatfile | mailadmins

External unenrol action
enrol_flatfile | unenrolaction
Unenrol user from course
Keep user enrolled
✓ Disable course enrolment and remove roles
Default: Disable course enrolment and remove roles

Select action to carry out when user enrolment disappears from external enrolment source. Please note that some user data and settings are purged from course during course unenrolment.

Enrolment expiry action
enrol_flatfile | expiredaction
Keep user enrolled
✓ Disable course enrolment and remove roles
Unenrol user from course
Default: Disable course enrolment and remove roles
Select action to carry out



Course meta link

Course meta link enrolment plugin synchronises enrolments and roles in two different courses.

Roles that are not synchronised
enrol_meta | nosyncroleids
Manager (manager)
Course creator (coursecreator)
Teacher (editingteacher)
Non-editing teacher (teacher)
Student (student)
Guest (guest)
Authenticated user (user)
Authenticated user on site home (frontpage)
Default: None

By default all course level role assignments are synchronised from parent to child courses. Roles that are selected here will not be included in the synchronisation process. The roles available for synchronisation will be updated in the next cron execution.

Synchronise all enrolled users
enrol_meta | syncall
Default: Yes

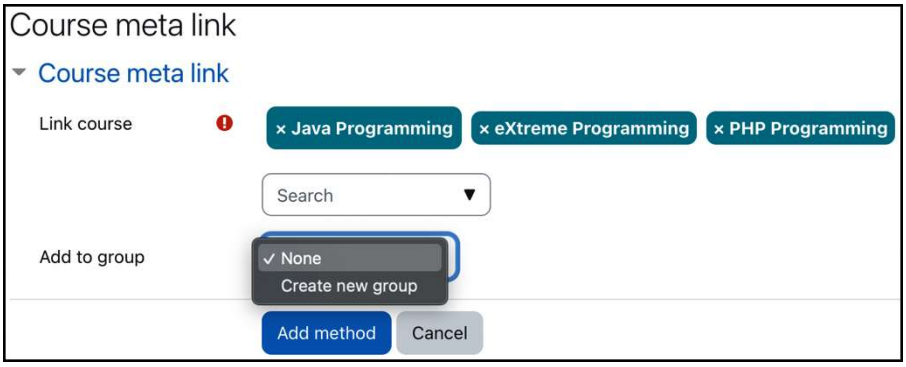
If enabled all enrolled users are synchronised even if they have no role in parent course, if disabled only users that have at least
e.

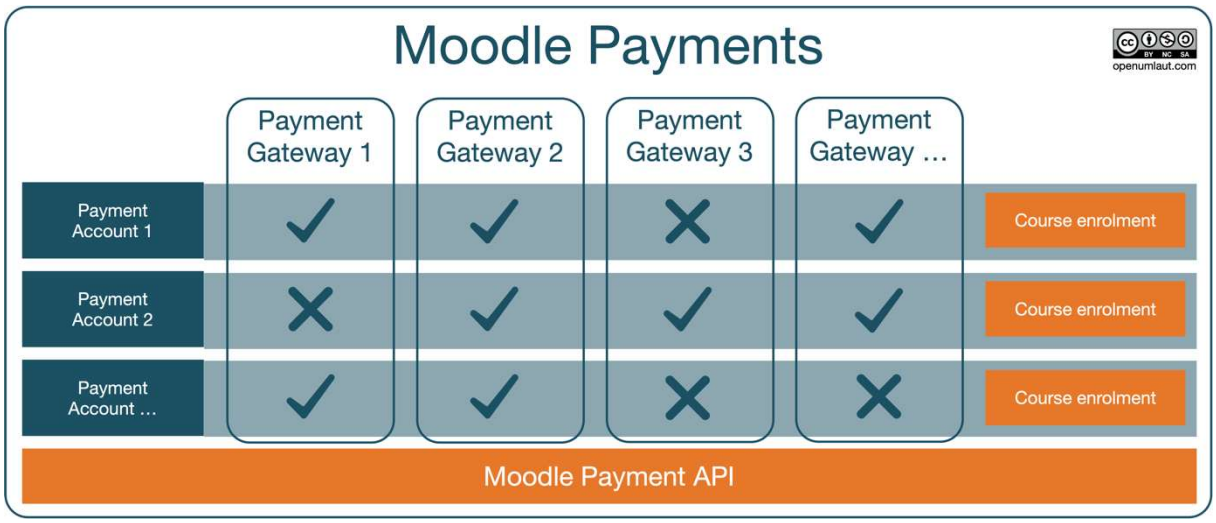
External unenrol action
enrol_meta | unenrolaction
Unenrol user from course
Disable course enrolment
✓ Disable course enrolment and remove roles
Default: Disable course enrolment and remove roles

Select action to carry out when user enrolment disappears from external enrolment source. Please note that some user data and settings are purged from course during course unenrolment.

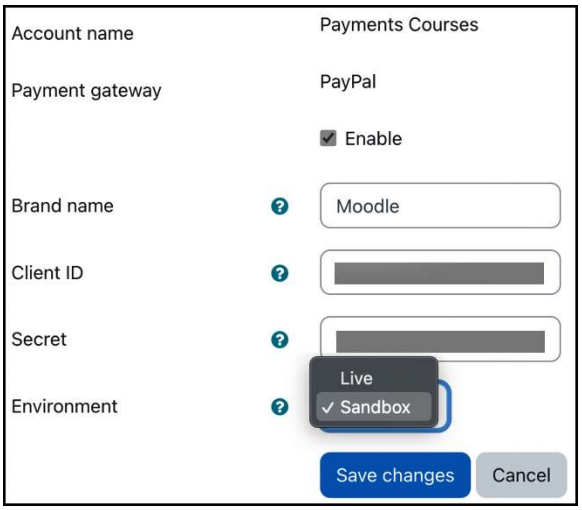
Sort course list
enrol_meta | coursesort
✓ Sort order
Course full name
Course short name
Course ID number
Default: Sort order

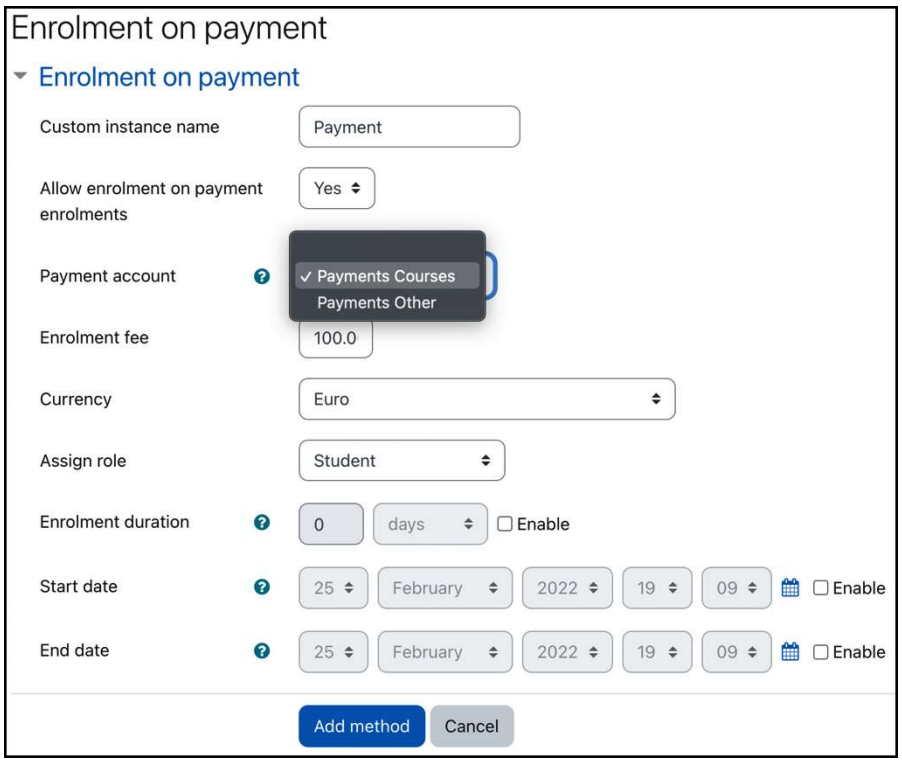
r the list of courses that can be linked are sorted by sort order (i.e. the order set in Site administration >
ses and categories) or alphabetically by course setting.

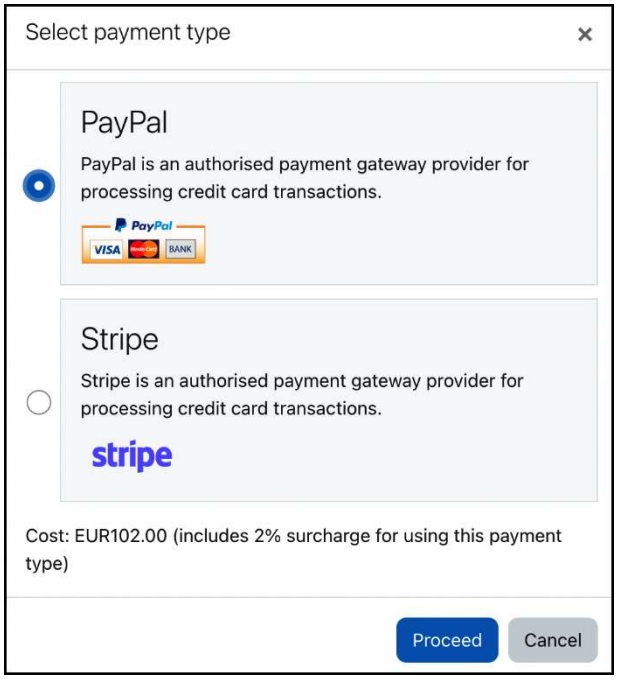

Course meta link
Course meta link
Link course
× Java Programming
× eXtreme Programming
× PHP Programming
Search
Add to group
None
Create new group
Add method
Cancel


Moodle Payments
openumlaut.com
Payment Gateway 1
Payment Gateway 2
Payment Gateway 3
Payment Gateway …
Payment Account 1
Payment Account 2
Payment Account …
Course enrolment
Course enrolment
Course enrolment
Moodle Payment API

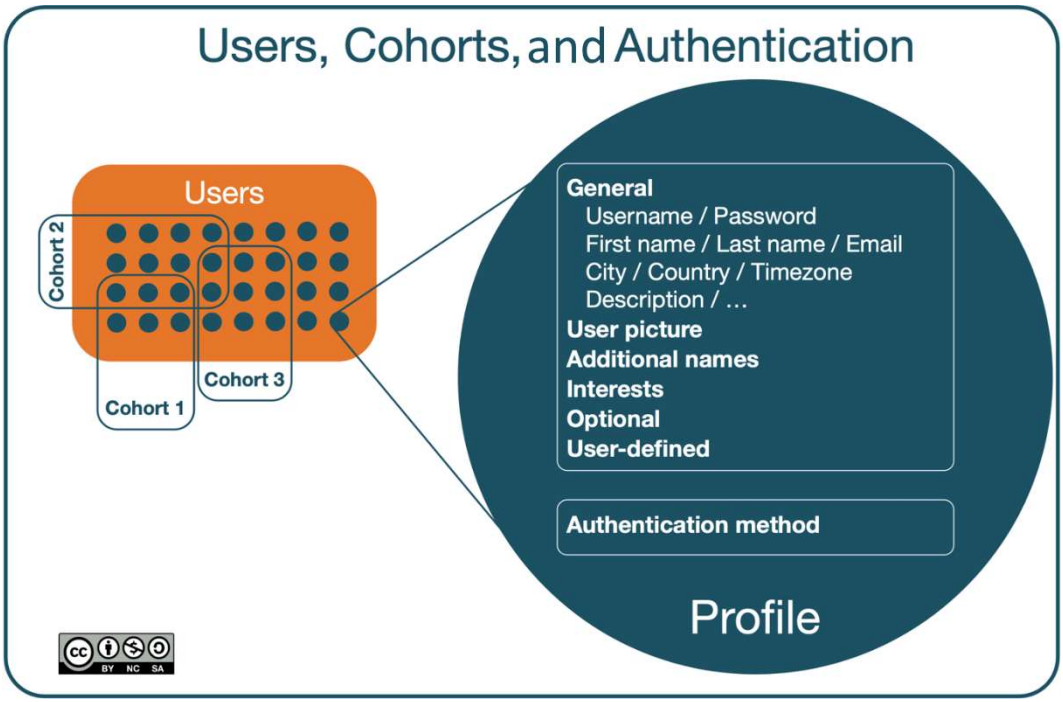

Account name
Payment gateways
Payments Courses
Alipay , PayPal, Stripe
Edit
Payments Other
Alipay , PayPal, Stripe
Edit
Payments Testing
Not available
Alipay , PayPal, Stripe
Edit
Show archived
Create payment account


Account name
Payments Courses
Payment gateway
PayPal
Enable
Brand name
Moodle
Client ID
Secret
Environment
Live
Sandbox
Save changes
Cancel


Enrolment on payment
Enrolment on payment
Custom instance name
Payment
Allow enrolment on payment enrolments
Yes
Payment account
Payments Courses
Payments Other
Enrolment fee
100.0
Currency
Euro
Assign role
Student
Enrolment duration
0
days
Enable
Start date
25
February
2022
19
09
Enable
End date
25
February
2022
19
09
Enable
Add method
Cancel


Select payment type
PayPal
PayPal is an authorised payment gateway provider for processing credit card transactions.
Stripe
Stripe is an authorised payment gateway provider for processing credit card transactions.
stripe
Cost: EUR102.00 (includes 2% surcharge for using this payment type)
Proceed
Cancel

Chapter 5: Managing Users, Cohorts, and Authentication



General

Username: admin

Choose an authentication method: Manual accounts

Suspended account

The password must have at least 8 characters, at least 1 digit(s), at least 1 lower case letter(s), at least 1 upper case letter(s), at least 1 special character(s) such as as *, -, or #

New password: ••••••••••••••••••••••••

Force password change

First name: Alex

Surname: Büchner

Email address: packt@openumlaut.com

Email display: Allow everyone to see my email address

MoodleNet profile: https://moodle.net/profile/zh302ttk

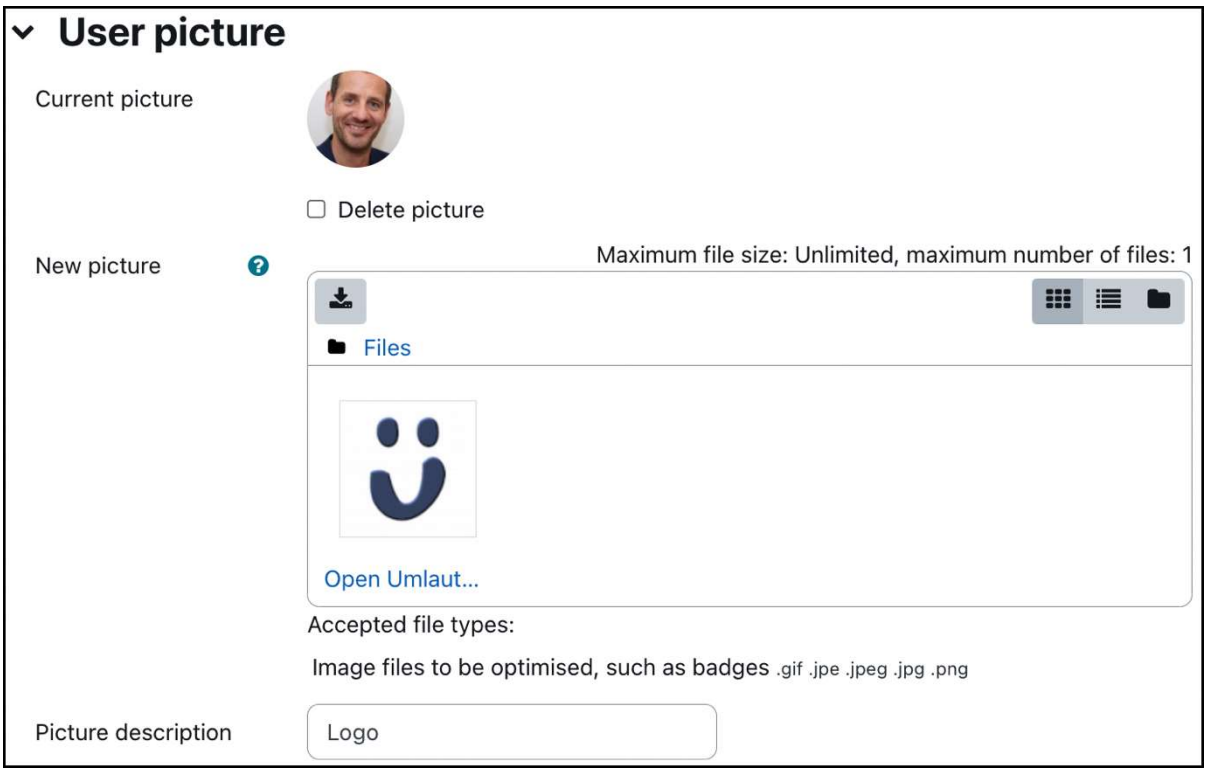
City/town: Heidelberg

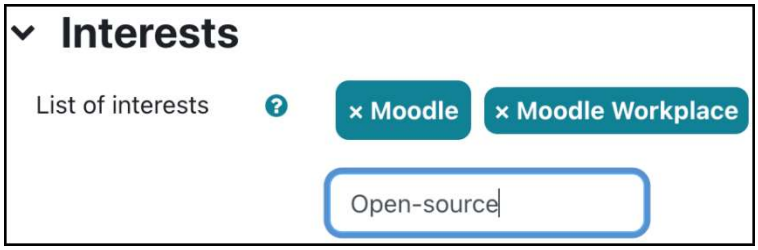
Select a country: Germany

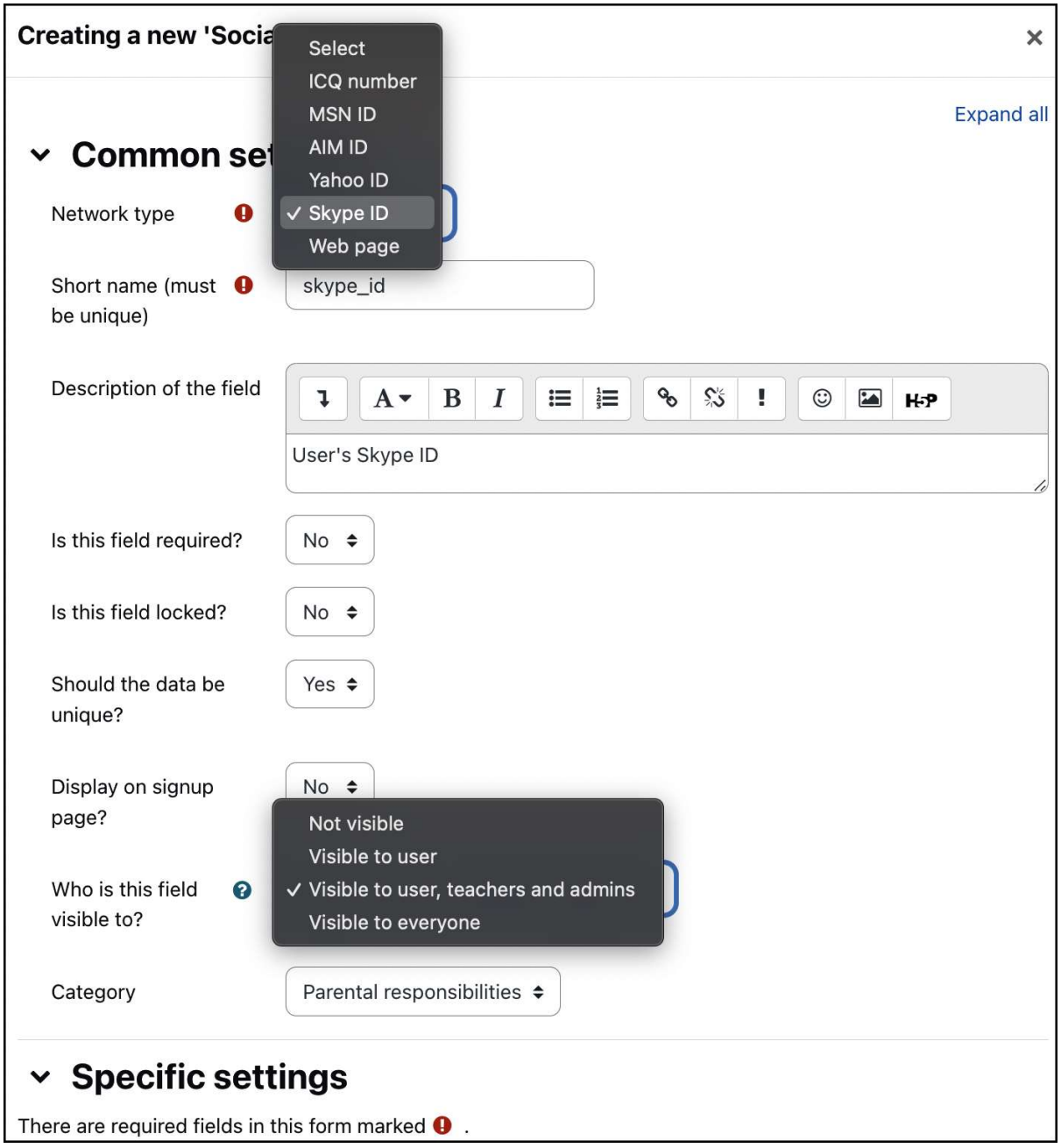
Timezone: Europe/Berlin

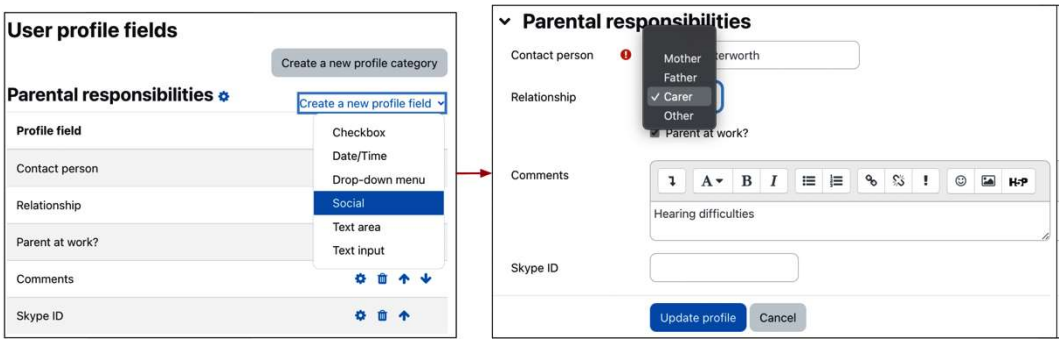
Description

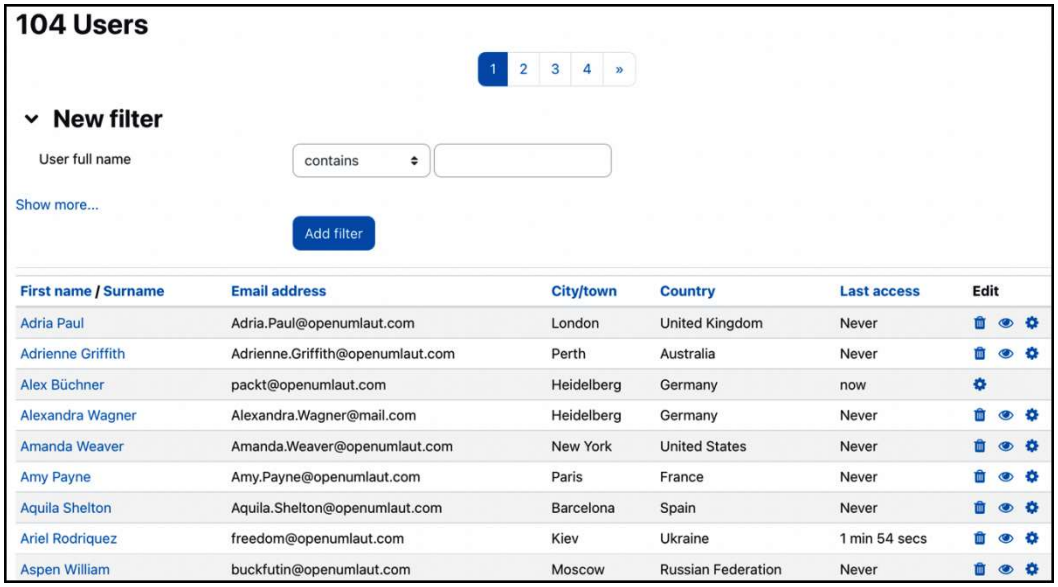
Author. Writer. Consultant.

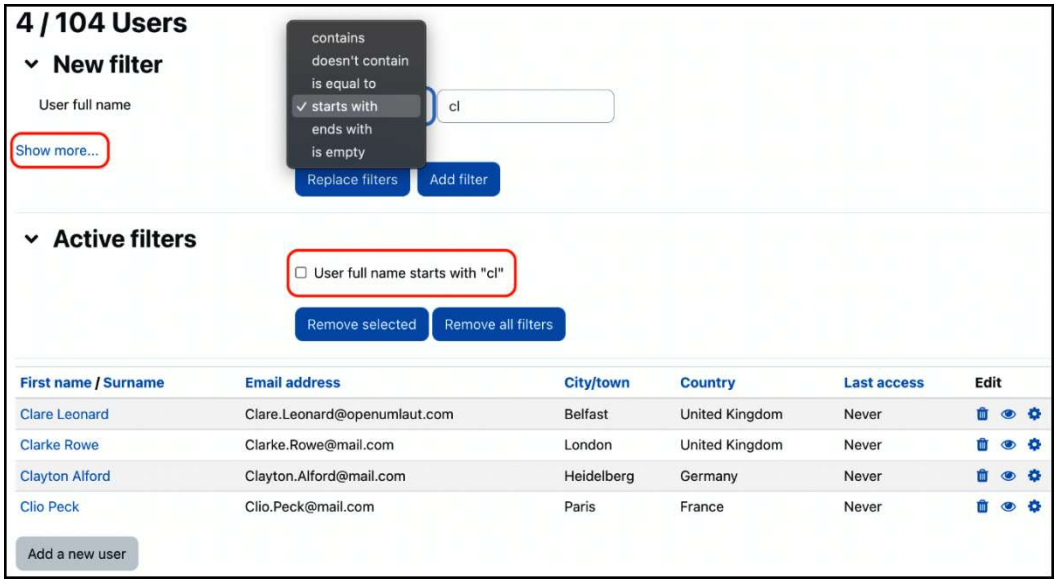

User picture
Current picture
Delete picture
New picture
Maximum file size: Unlimited, maximum number of files: 1
Files
Open Umlaut...
Accepted file types:
Image files to be optimised, such as badges .gif .jpe .jpeg .jpg .png
Picture description
Logo

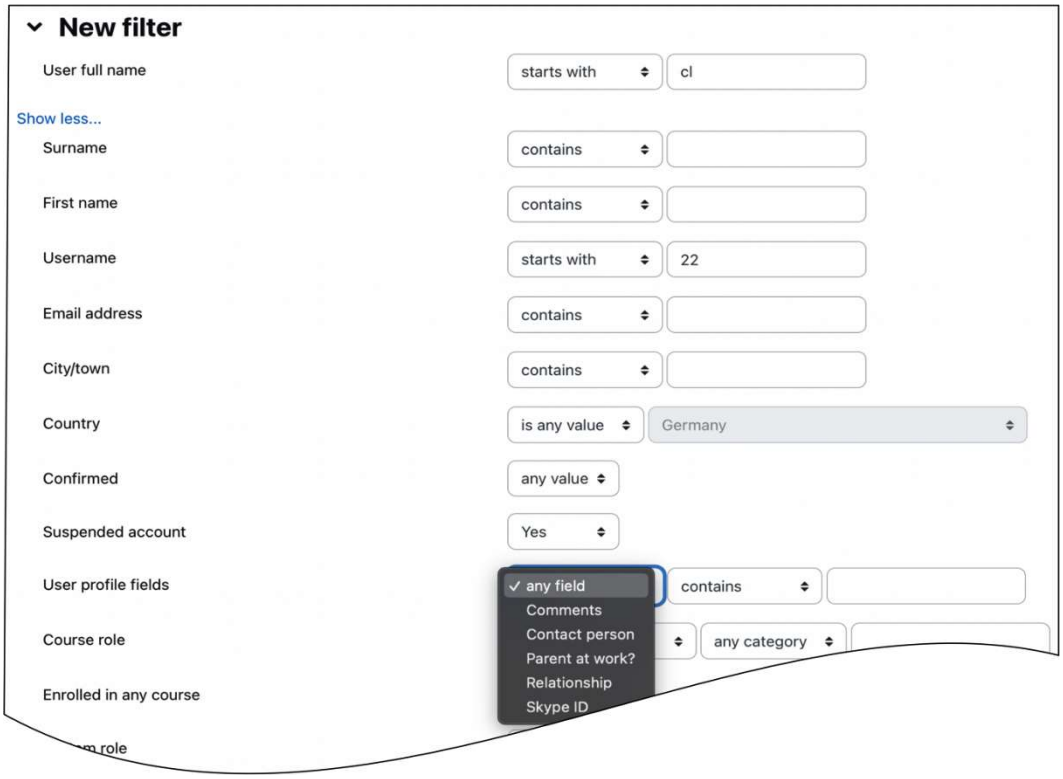

Interests
List of interests
× Moodle
× Moodle Workplace
Open-source

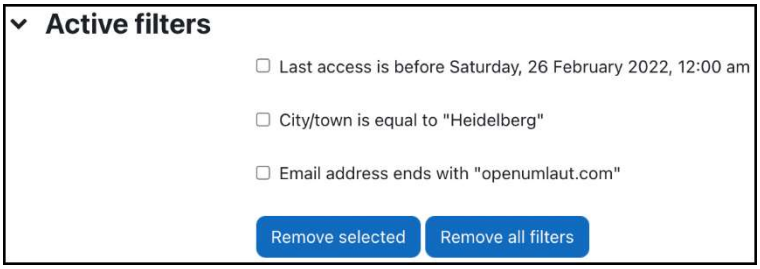

Creating a new 'Socia
Select
ICQ number
MSN ID
AIM ID
Yahoo ID
Skype ID
Web page
Expand all
Common set
Network type
Short name (must be unique)
skype_id
Description of the field
User's Skype ID
Is this field required?
No
Is this field locked?
No
Should the data be unique?
Yes
Display on signup page?
No
Not visible
Visible to user
Visible to user, teachers and admins
Visible to everyone
Who is this field visible to?
Category
Parental responsibilities
Specific settings
There are required fields in this form marked .


User profile fields
Create a new profile category
Parental responsibilities
Create a new profile field
Profile field
Contact person
Relationship
Parent at work?
Comments
Skype ID
Checkbox
Date/Time
Drop-down menu
Social
Text area
Text input
Parental responsibilities
Contact person
Mother
Father
Carer
Other
Relationship
Parent at work?
Comments
Hearing difficulties
Skype ID
Update profile
Cancel

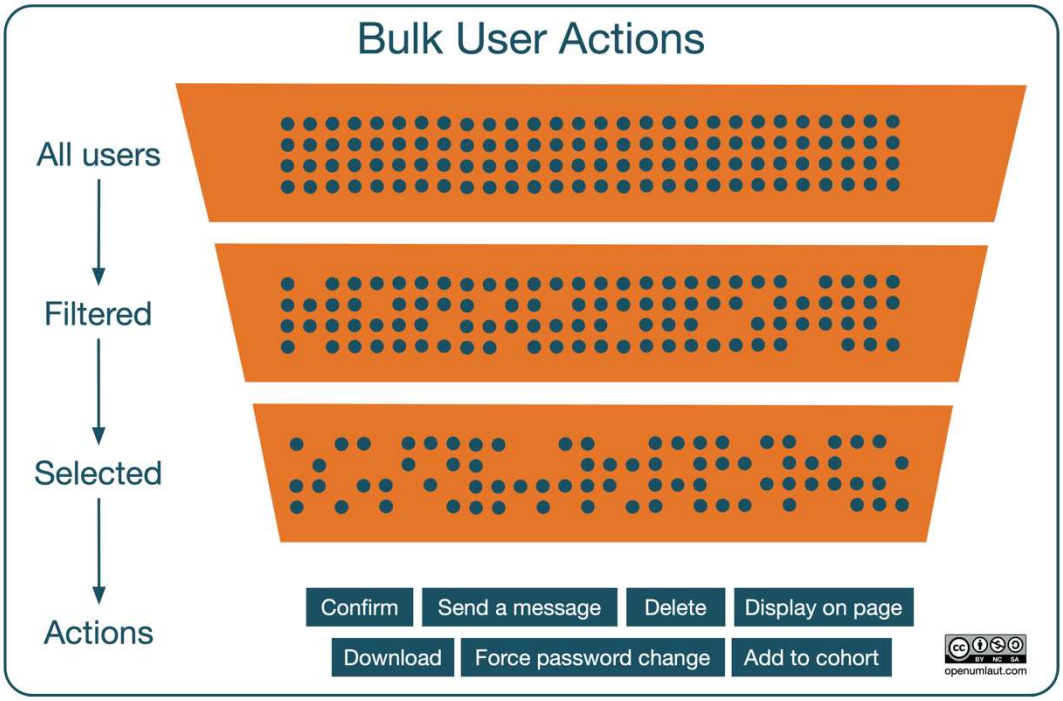

104 Users
1 2 3 4 »
New filter
User full name
contains
Show more...
Add filter
First name / Surname
Email address
City/town
Country
Last access
Edit
Adria Paul
Adria.Paul@openumlaut.com
London
United Kingdom
Never
Adrienne Griffith
Adrienne.Griffith@openumlaut.com
Perth
Australia
Never
Alex Büchner
packt@openumlaut.com
Heidelberg
Germany
now
Alexandra Wagner
Alexandra.Wagner@mail.com
Heidelberg
Germany
Never
Amanda Weaver
Amanda.Weaver@openumlaut.com
New York
United States
Never
Amy Payne
Amy.Payne@openumlaut.com
Paris
France
Never
Aquila Shelton
Aquila.Shelton@openumlaut.com
Barcelona
Spain
Never
Ariel Rodriquez
freedom@openumlaut.com
Kiev
Ukraine
1 min 54 secs
Aspen William
buckfutin@openumlaut.com
Moscow
Russian Federation
Never


4 / 104 Users
New filter
User full name
contains
doesn't contain
is equal to
starts with
ends with
is empty
cl
Show more...
Replace filters
Add filter
Active filters
User full name starts with "cl"
Remove selected
Remove all filters
First name / Surname
Email address
City/town
Country
Last access
Edit
Clare Leonard
Clare.Leonard@openumlaut.com
Belfast
United Kingdom
Never
Clarke Rowe
Clarke.Rowe@mail.com
London
United Kingdom
Never
Clayton Alford
Clayton.Alford@mail.com
Heidelberg
Germany
Never
Clio Peck
Clio.Peck@mail.com
Paris
France
Never
Add a new user





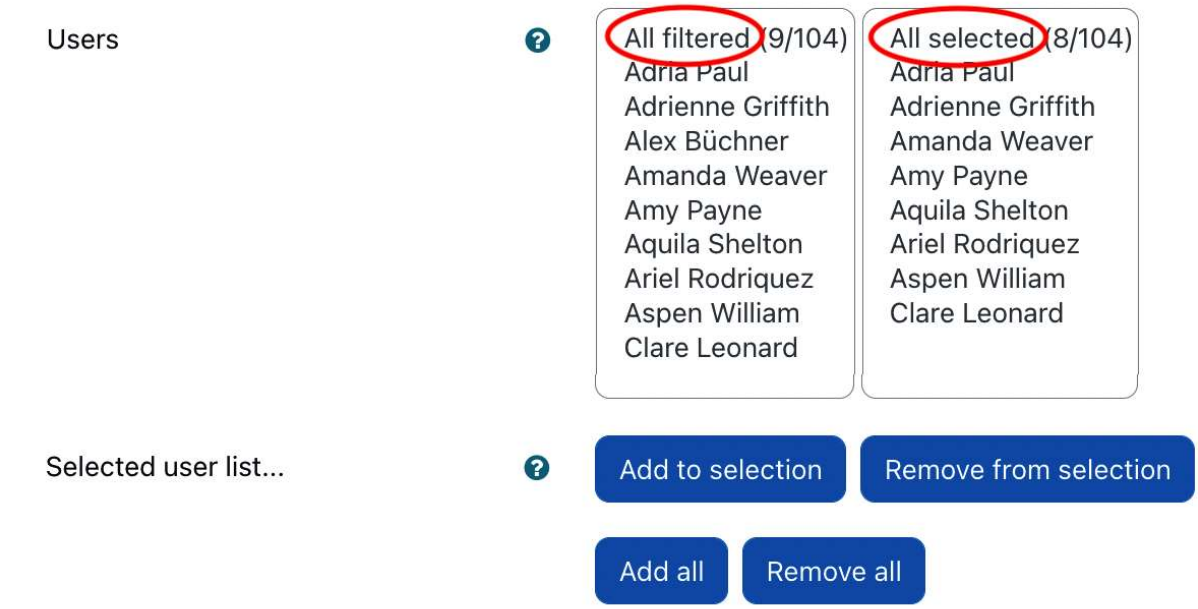
Filter operation	Field type	Description
is any value	Lists	All values are acceptable; the filter is disabled
is equal to	Lists	The list value has to be the same as the one that's been selected
isn't equal to	Lists	This is the opposite of **is equal to**
any value	Yes/No	The value can be either **Yes** or **No**; the filter is disabled
Yes	Yes/No	The value has to be **Yes**
No	Yes/No	The value has to be **No**
is defined	Profile fields	The field has to be defined for the user
isn't defined	Profile fields	This is the opposite of **is defined**
is after	Date	This contains all dates after the specified day, month, and year
is before	Date	This contains all dates before the specified day, month, and year

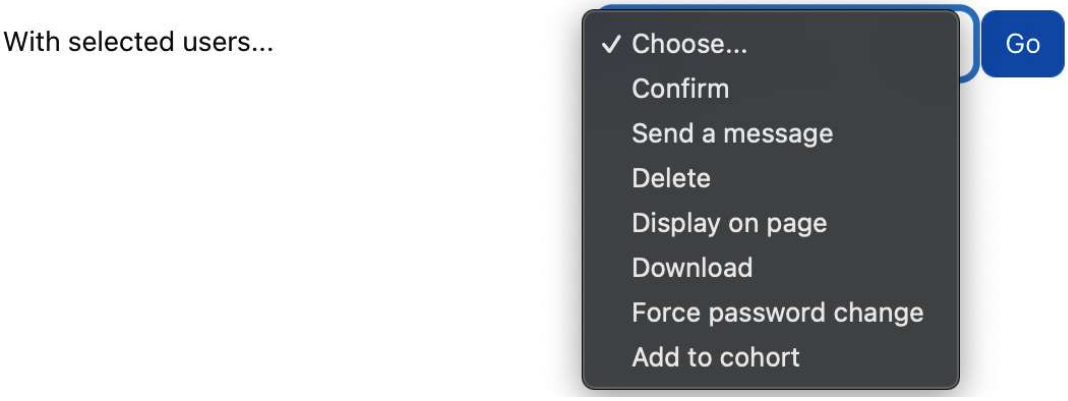

Bulk User Actions
All users
Filtered
Selected
Actions
Confirm
Send a message
Delete
Display on page
Download
Force password change
Add to cohort
openumlaut.com

New filter

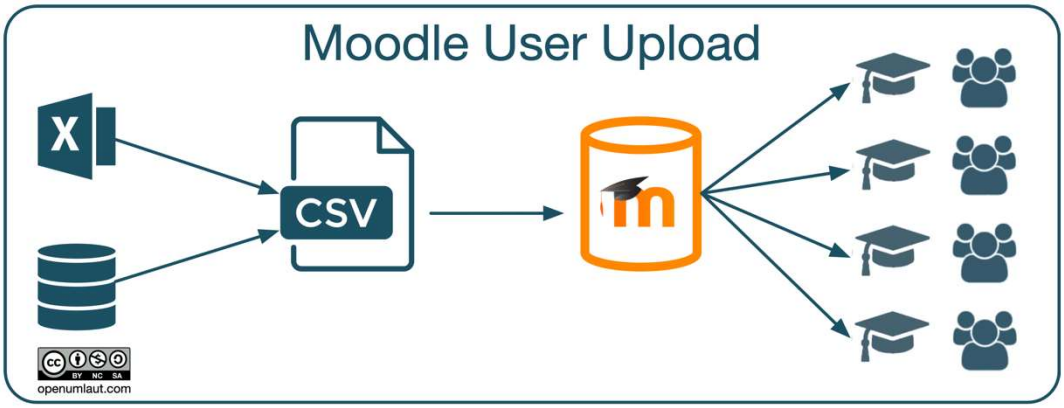
Active filters

Users in list

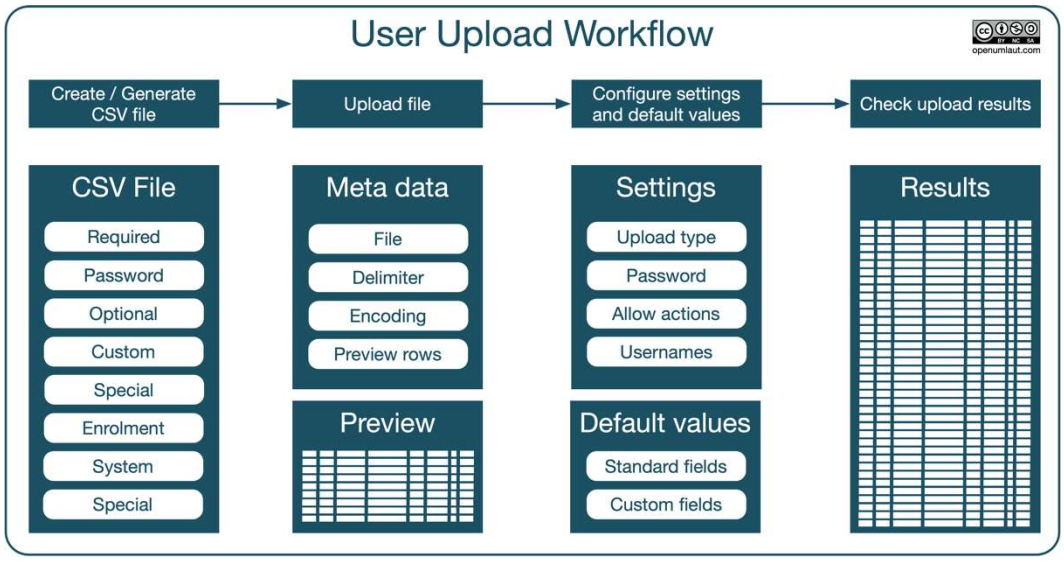


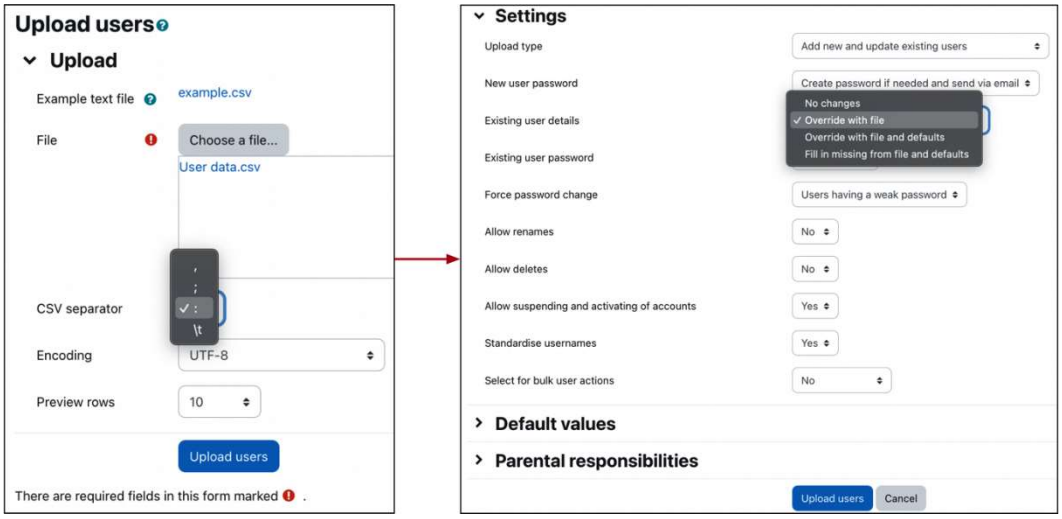


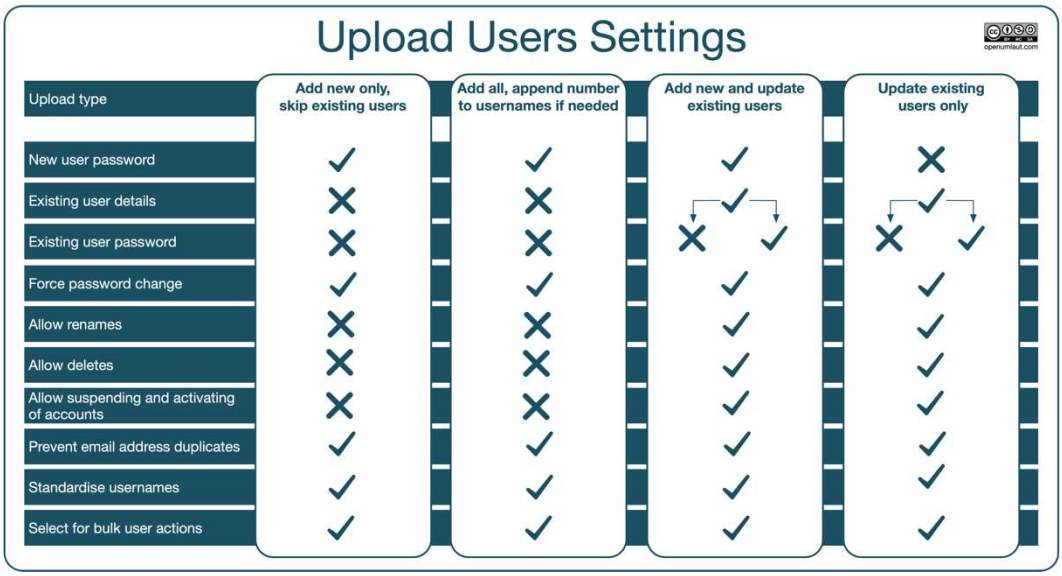
Action	Description
Confirm	After a confirmation screen, pending user accounts will be confirmed. This is only applicable to email-based self-registrations.
Send a message	You are asked to write a message body, which will be sent to the selected users.
Delete	After a confirmation screen, users will be irreversibly removed from the system (refer to the information on user deletion in the *Browsing users* section).
Display on page	The user information is shown on the screen. By default, the fields displayed are Full name, Email address, City/town, Country, and Last access (take a look at the **Show user identity** setting by going to **Site administration I Users I Permissions I User policies** for more details).
Download	You can choose between the following download formats: CSV, XLSX, HTML, JSON, ODS, and PDF. In addition to user profile fields (standard and custom), the list of fields also includes Moodle's internal user ID.
Force password change	Users will have to change their password the next time they log in to Moodle.
Add to cohort	Select a cohort that users will be added to. Cohorts will be dealt with in detail in the next section.

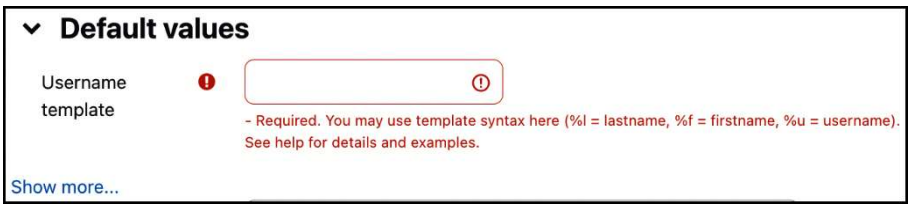


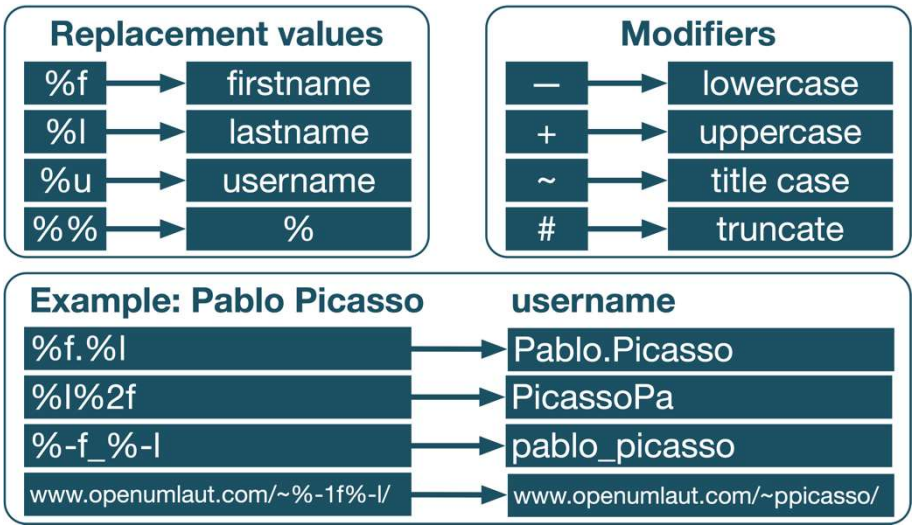
Type	Fields
Text	The values of these fields are in plain text: `address`,`department`,`description`,`icq`,`idnumber`,`institution`,`interests`,`phone1`,`phone2`,`timezone`,`url` If any fields contain commas, you must encode them as , the upload function will automatically convert them back to commas.
Numeric	The options are numbered in the same order as they appear in the Moodle interface—the numbering starts with 0: `autosubscribe`: 0 = No, 1: Yes `htmleditor`: 0 = Standard web forms, 1: HTML Editor `maildisplay`: 0 = Hide, 1 = Allow everyone, 2 = Allow course members `mailformat`: 0 = Pretty, 1 = Plain `maildigest`: 0 = No digest, 1 = Complete digest, 2 = Digest with just subjects
List	These fields have to be populated with pre-defined values `auth`: Each authentication method is represented by its shortname, for instance, **manual**, **ldap**, **oauth2**, or **nologin**. `country`: Two-letter ISO country code in UPPER CASE, for instance, GB, DE, UA, ES, or US. `lang`: Shortname of the language pack, such as es, es_mx, es_ve, and es_co. You can find the complete list in **Site administration I General I Language I Language packs**. `theme`: Shortname of the user theme. Options are **boost** and **classic**, plus any installed third-party themes. `timezone`: The region of the user's time zone, for example, Europe/Berlin. Case sensitivity is critical, so check out the available values in the **Default timezone** list in **Site administration I General I Language I Location settings**.




Upload users
Upload
Example text file
example.csv
File
Choose a file...
User data.csv
CSV separator
Encoding
UTF-8
Preview rows
10
Upload users
There are required fields in this form marked .
Settings
Upload type
Add new and update existing users
New user password
Create password if needed and send via email
Existing user details
Existing user password
No changes
Override with file
Override with file and defaults
Fill in missing from file and defaults
Force password change
Users having a weak password
Allow renames
No
Allow deletes
No
Allow suspending and activating of accounts
Yes
Standardise usernames
Yes
Select for bulk user actions
No
Default values
Parental responsibilities
Upload users
Cancel


Upload Users Settings
Upload type
Add new only, skip existing users
Add all, append number to usernames if needed
Add new and update existing users
Update existing users only
New user password
Existing user details
Existing user password
Force password change
Allow renames
Allow deletes
Allow suspending and activating of accounts
Prevent email address duplicates
Standardise usernames
Select for bulk user actions

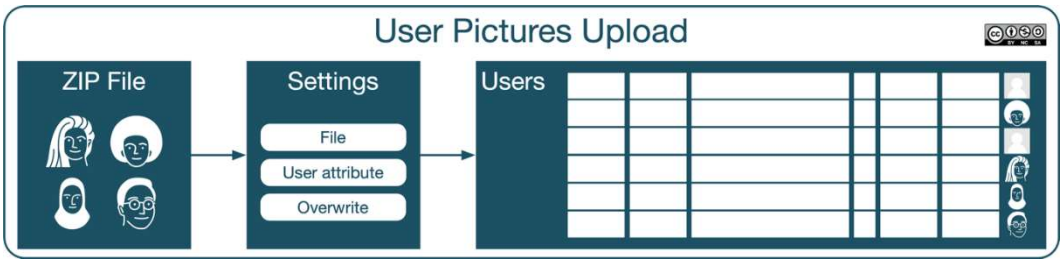

Default values
Username template
- Required. You may use template syntax here (%l = lastname, %f = firstname, %u = username).
See help for details and examples.
Show more...



Upload users results

Status	CSV line	ID	Username	First name	Surname	Email address	Password
New user	2	278	grahamalmond	Graham	Almond	grahamalmondopenumlaut.com Invalid email address	GoodPassword007!
New user	3	279	eleoarmstrong	Eleanor	Armstrong	eleanorarmstrong@openumlaut.com	changeme Invalid password policy
User not added - already registered	4	253	joarnold	Joanne	Arnold	joanne.arnold@openumlaut.com	changeme
User not added - error	5		lorrainatkins	Lorraine	Atkins	peter.brown@openumlaut.com Duplicate address	changeme
User not added - already registered	6	114	mball	Michelle	Ball	lorraine.atkins@openumlaut.com	changeme
User not added - already registered	7	115	hbanfield	Paul	Williams	paul.williams@openumlaut.com	changeme
User not added - already registered	145	251	nwilson	Nigel	Wilson	nigel.wilson@openumlaut.com	changeme
User not added - already registered	146	252	awright	Andrew	Wright	andrew.w.wright@openumlaut.com	changeme

Users created: 2
Users skipped: 142
Users having a weak password: 1
Errors: 1



Upload user pictures

Upload

File

Choose a file...

Mug shots.zip

Accepted file types:

Archive (ZIP) .zip

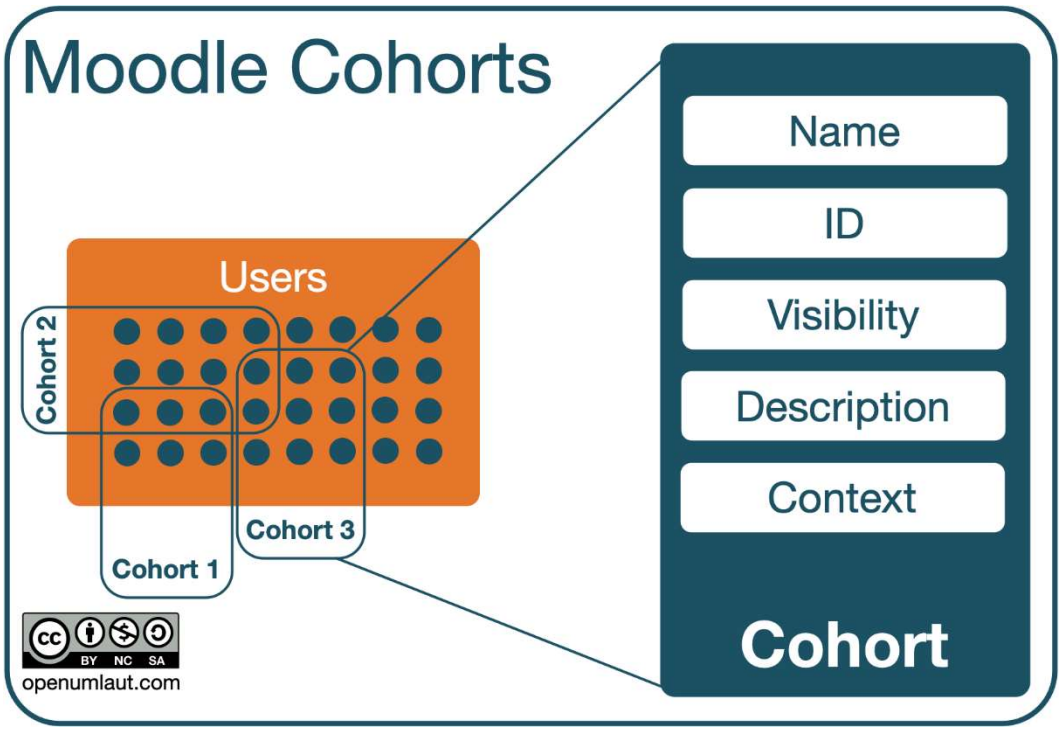
User attribute to use to match pictures:

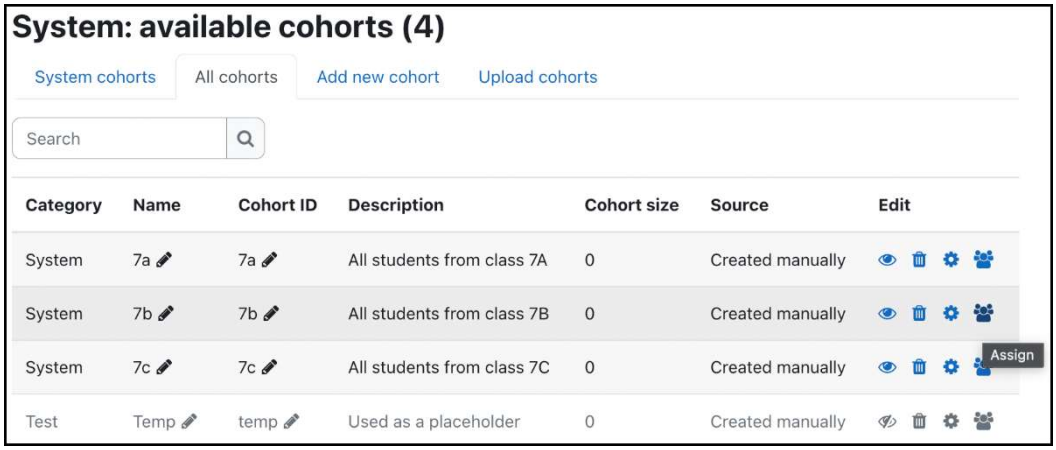
username
✓ idnumber
id

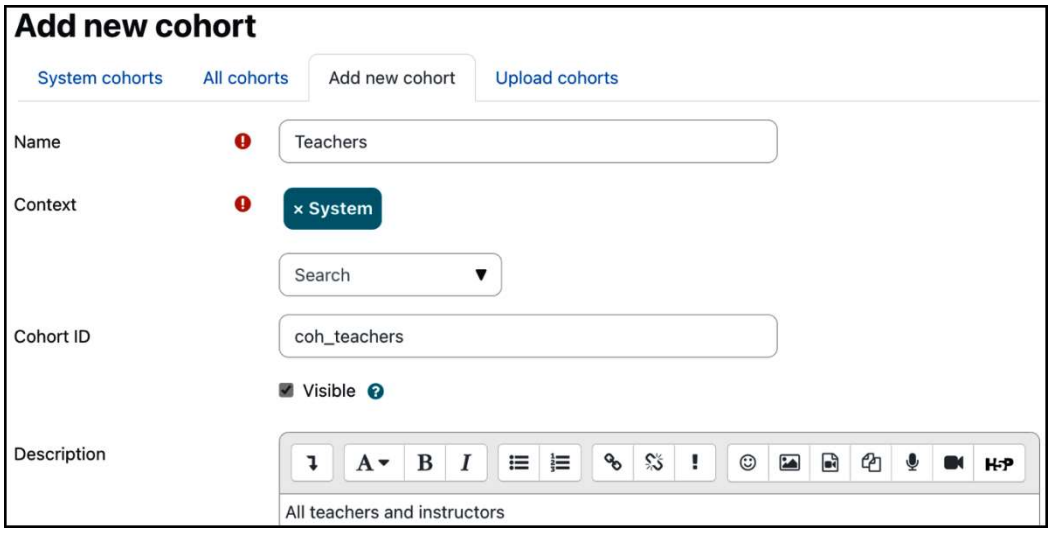
Overwrite existing user pictures?

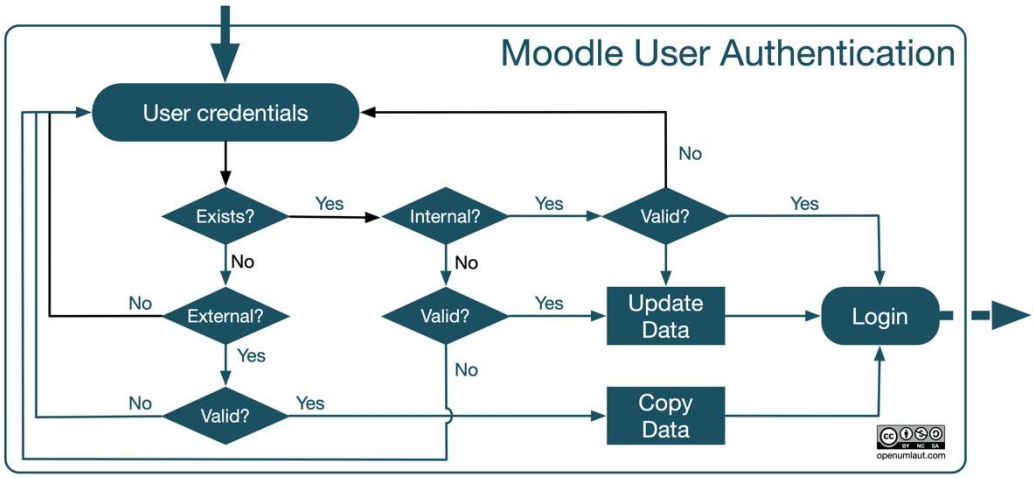
Yes

Upload user pictures




System: available cohorts (4)
System cohorts
All cohorts
Add new cohort
Upload cohorts
Search
Category
Name
Cohort ID
Description
Cohort size
Source
Edit
System
7a
7a
All students from class 7A
0
Created manually
System
7b
7b
All students from class 7B
0
Created manually
System
7c
7c
All students from class 7C
0
Created manually
Assign
Test
Temp
temp
Used as a placeholder
0
Created manually

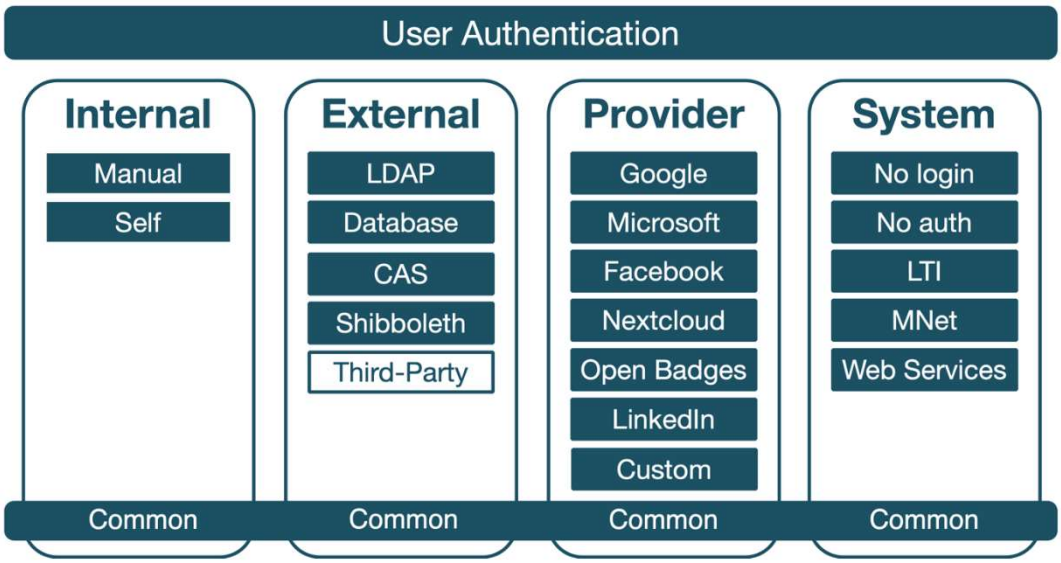

Add new cohort
System cohorts
All cohorts
Add new cohort
Upload cohorts
Name
Teachers
Context
× System
Search
Cohort ID
coh_teachers
Visible
Description
All teachers and instructors


Moodle User Authentication
User credentials
Exists?
Yes
Internal?
Yes
Valid?
Yes
No
No
No
External?
Valid?
Yes
Update Data
Login
Yes
No
No
Valid?
Yes
Copy Data
openumlaut.com

Manage authentication

Available authentication plugins

Name	Users	Enable	Up/Down	Settings	Test settings	Uninstall
Manual accounts	274			Settings		
No login	0					
Email-based self-registration	2			Settings		
OAuth 2	30			Settings		
LDAP server	12			Settings	Test settings	
CAS server (SSO)	0			Settings	Test settings	Uninstall
External database	0			Settings	Test settings	Uninstall
LTI	0					
MNet authentication	0			Settings	Test settings	
No authentication	0			Settings		Uninstall
Shibboleth	0			Settings	Test settings	Uninstall
Web services authentication	0					



Manual accounts

Password expiry settings

This method removes any way for users to create their own accounts. All accounts must be manually created by the admin user.

Enable password expiry
auth_manual | expiration
No Default: No

Allow passwords to expire after a specified time.

Password duration
auth_manual | expirationtime
30 days Default: 30 days

Length of time for which a password is valid.

Notification threshold
auth_manual | expiration_warning
Never Default: Never

Number of days before password expiry that a notification is issued.

Lock user fields

You can lock user data fields. This is useful for sites where the user data is maintained by the administrators manually by editing user records or uploading using the 'Upload users' facility. If you are locking fields that are required by Moodle, make sure that you provide that data when creating user accounts or the accounts will be unusable.

Consider setting the lock mode to 'Unlocked if empty' to avoid this problem.

Lock value (First name)
auth_manual | field_lock_firstname
Unlocked
✓ Unlocked if empty
Locked
Default: Unlocked

Lock value (Surname)
auth_manual | field_lock_lastname
Unlocked Default: Unlocked

Lock value (Email address)
auth_manual | field_lock_email
Locked Default: Unlocked

Lock value (City/town)
auth_manual | field_lock_city
Unlocked

New account

Username

ab

The password must have at least 8 characters, at least 1 digit(s), at least 1 lower case letter(s), at least 1 upper case letter(s), at least 1 special character(s) such as as *, -, or #

Password

••••••••••••••••••••••

Email address

packt@openumlaut.com

Email (again)

packt@openumlaut.com

First name

Alex

Last name

Büchner

City/town

Heidelberg

Country

Germany

Security question

I'm not a robot

reCAPTCHA
Privacy - Terms

Site policy agreement

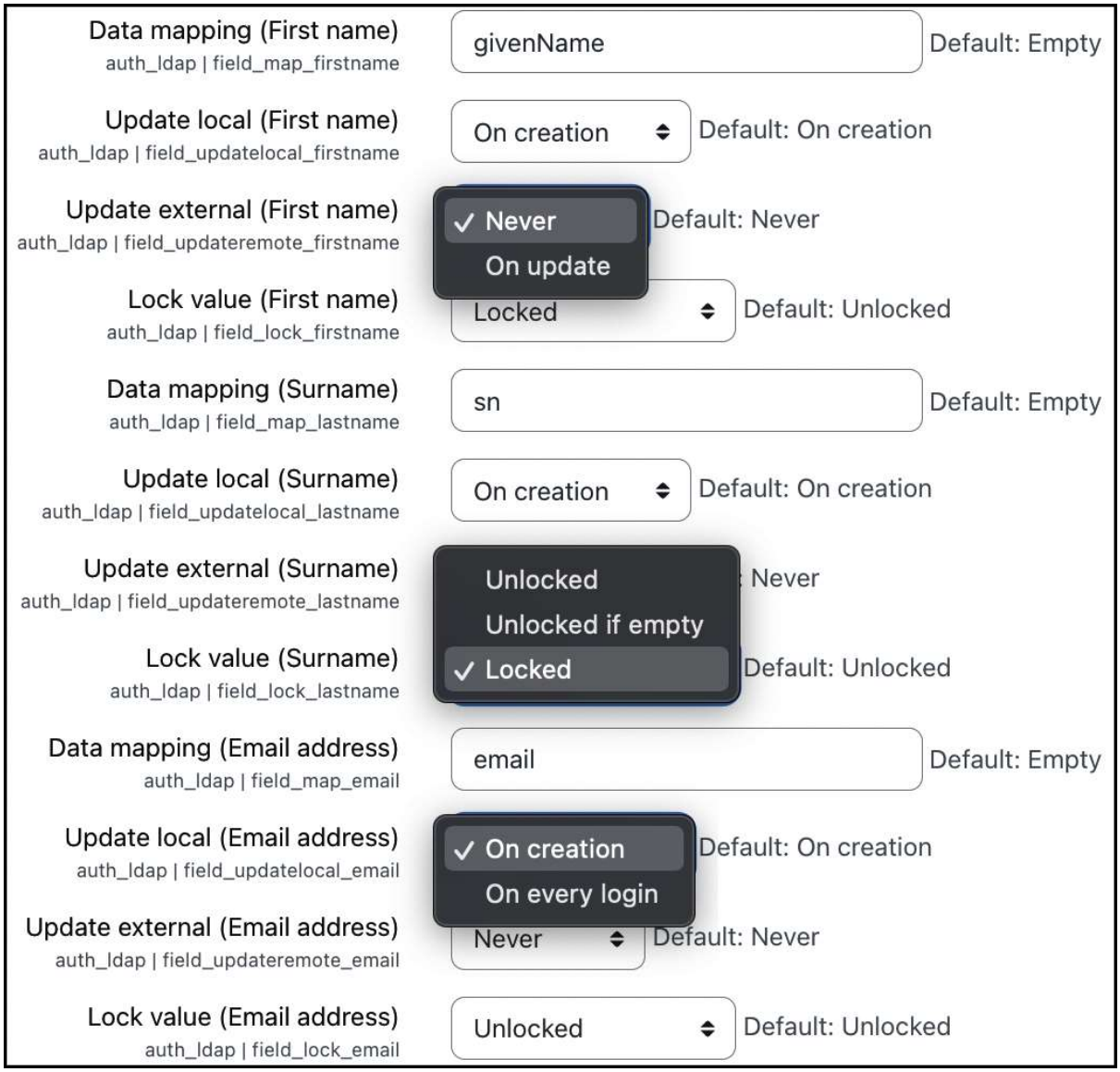
Link to site policy agreement

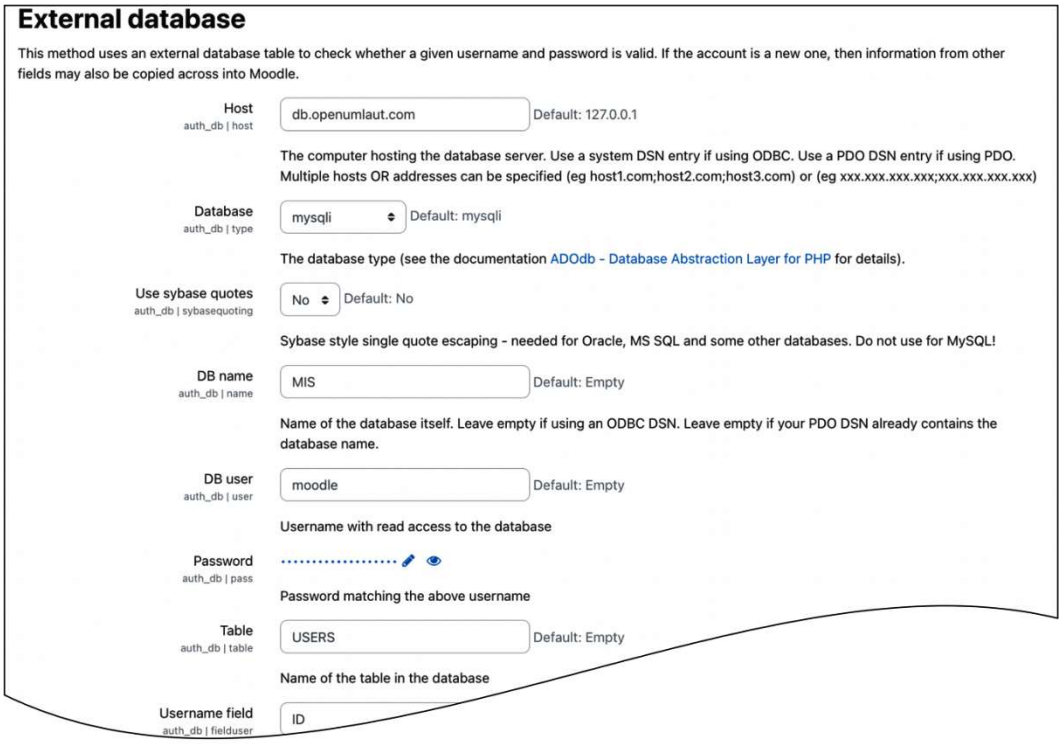
I understand and agree

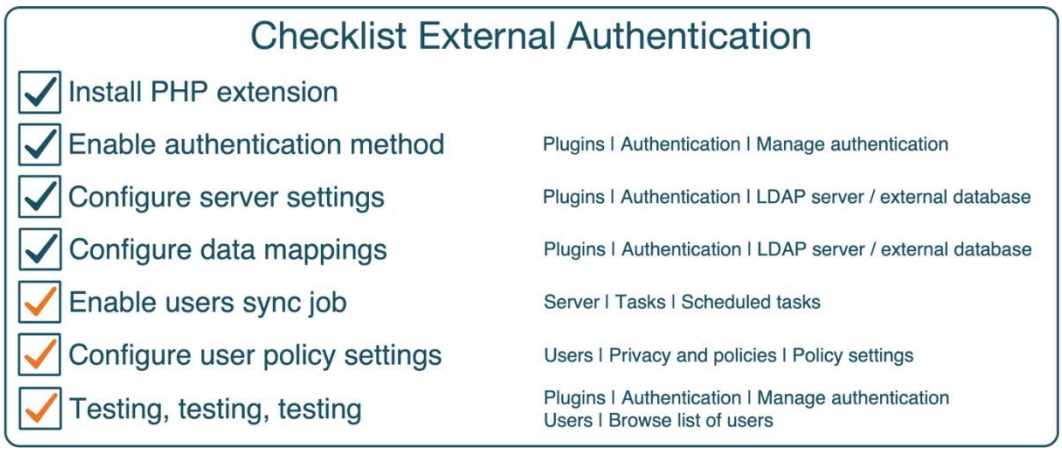
Create my new account | Cancel

Checklist Self-Registration

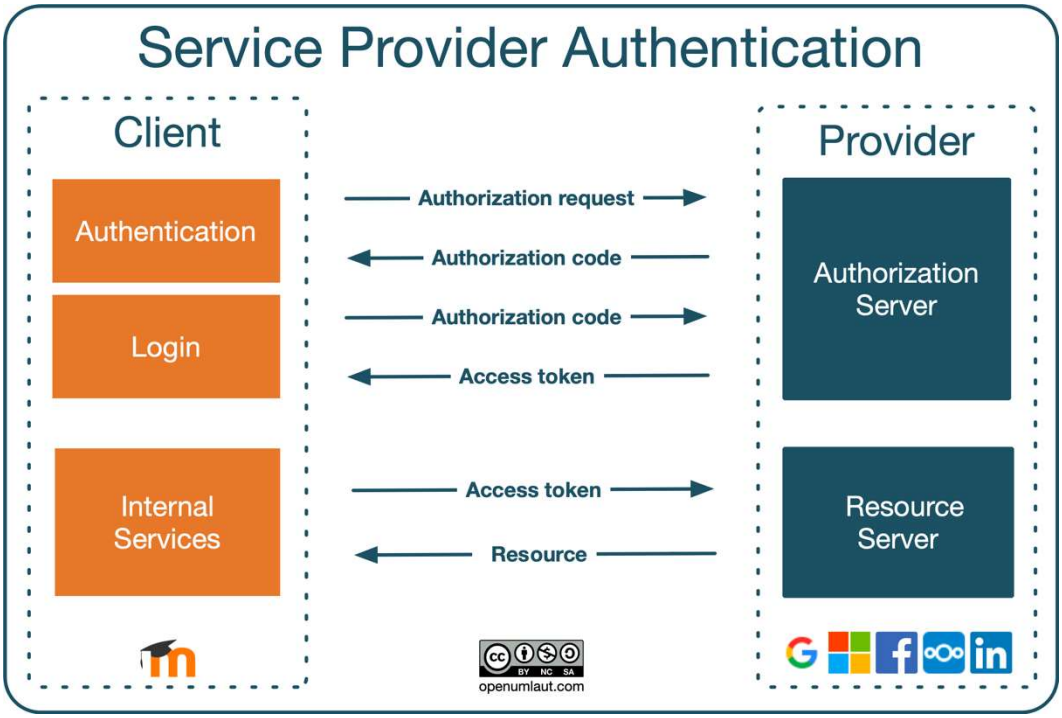
☑ Enable self-registration	Plugins I Authentication I Manage authentication
☑ Configure user-defined profile fields	Plugins I Authentication I Email-based self registration
☑ Configure locked fields	Users I User profile fields
☑ Restrict email domains	Plugins I Authentication I Manage authentication
☑ Enable and configure reCAPTCHA	Plugins I Authentication I Email-based self-registration Plugins I Authentication I Manage authentication
☑ Configure user policy settings	Users I Privacy and policies I Policy settings
☑ Testing, testing, testing	Users I Browse list of users

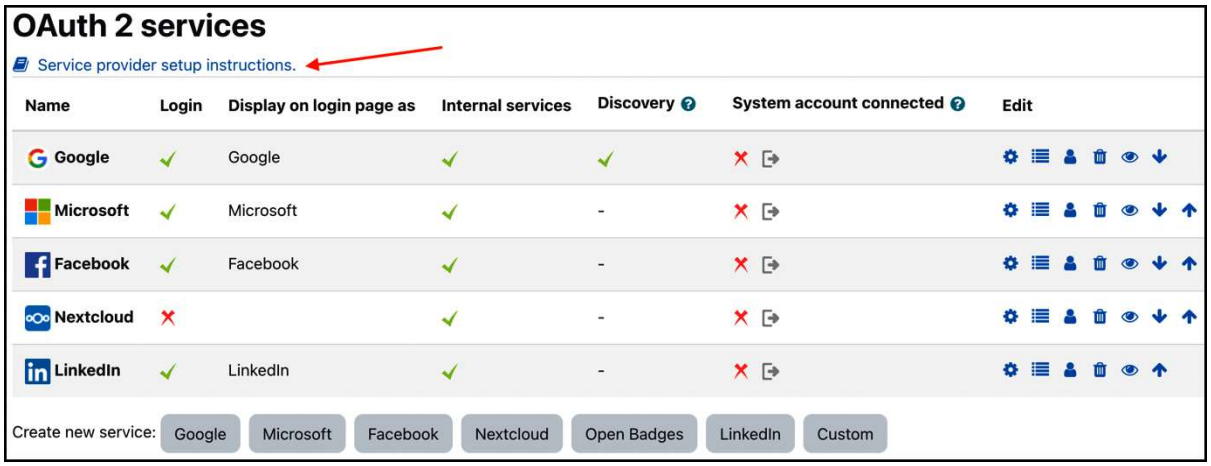


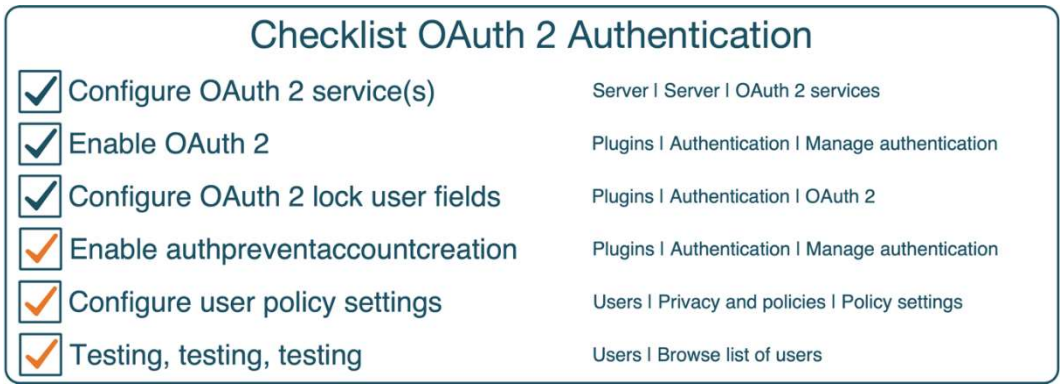

External database
This method uses an external database table to check whether a given username and password is valid. If the account is a new one, then information from other fields may also be copied across into Moodle.
Host
auth_db | host
db.openumlaut.com
Default: 127.0.0.1
The computer hosting the database server. Use a system DSN entry if using ODBC. Use a PDO DSN entry if using PDO. Multiple hosts OR addresses can be specified (eg host1.com;host2.com;host3.com) or (eg xxx.xxx.xxx.xxx;xxx.xxx.xxx.xxx)
Database
auth_db | type
mysqli
Default: mysqli
The database type (see the documentation ADOdb - Database Abstraction Layer for PHP for details).
Use sybase quotes
auth_db | sybasequoting
No
Default: No
Sybase style single quote escaping - needed for Oracle, MS SQL and some other databases. Do not use for MySQL!
DB name
auth_db | name
MIS
Default: Empty
Name of the database itself. Leave empty if using an ODBC DSN. Leave empty if your PDO DSN already contains the database name.
DB user
auth_db | user
moodle
Default: Empty
Username with read access to the database
Password
auth_db | pass
Password matching the above username
Table
auth_db | table
USERS
Default: Empty
Name of the table in the database
Username field
auth_db | fielduser
ID


Checklist External Authentication
Install PHP extension
Enable authentication method
Plugins I Authentication I Manage authentication
Configure server settings
Plugins I Authentication I LDAP server / external database
Configure data mappings
Plugins I Authentication I LDAP server / external database
Enable users sync job
Server I Tasks I Scheduled tasks
Configure user policy settings
Users I Privacy and policies I Policy settings
Testing, testing, testing
Plugins I Authentication I Manage authentication
Users I Browse list of users

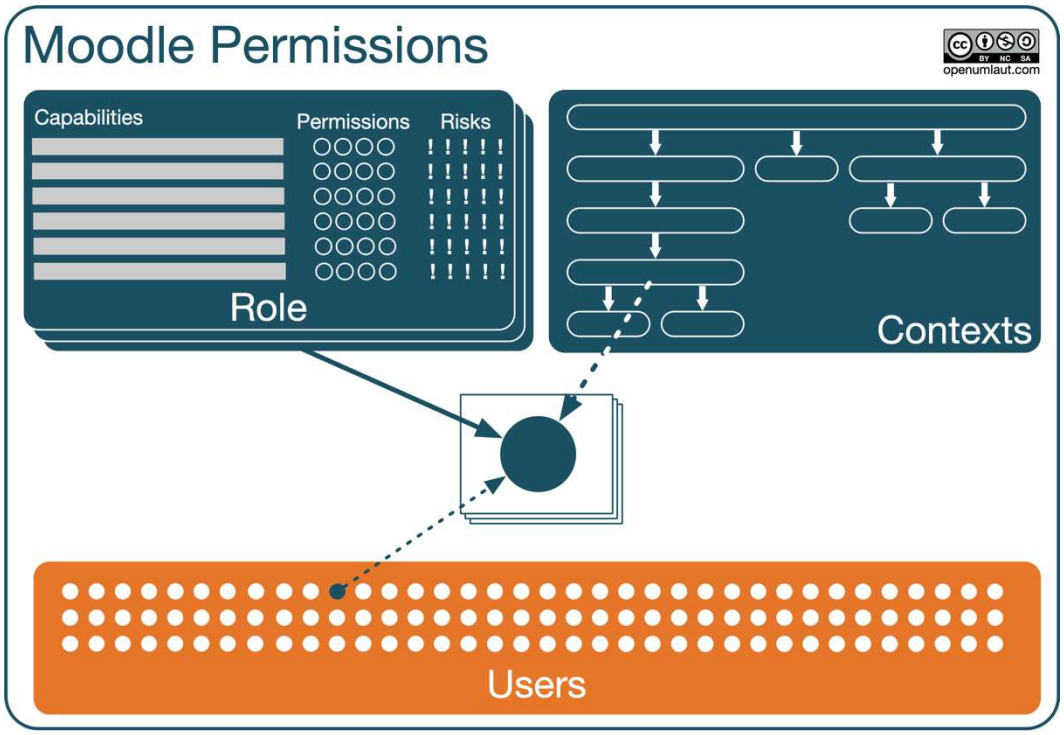

Log in using your account on:
Google
Microsoft
Facebook
LinkedIn


Service Provider Authentication
Client
Authentication
Login
Internal Services
Authorization request
Authorization code
Authorization code
Access token
Access token
Resource
Provider
Authorization Server
Resource Server
openumlaut.com

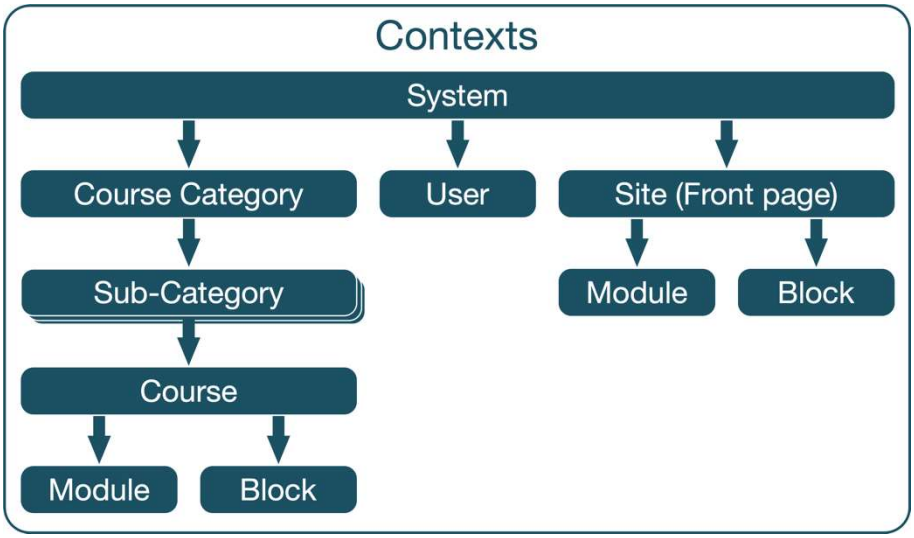

OAuth 2 services
Service provider setup instructions.
Name
Login
Display on login page as
Internal services
Discovery
System account connected
Edit
Google
Google
Microsoft
Microsoft
Facebook
Facebook
Nextcloud
LinkedIn
LinkedIn
Create new service:
Google
Microsoft
Facebook
Nextcloud
Open Badges
LinkedIn
Custom

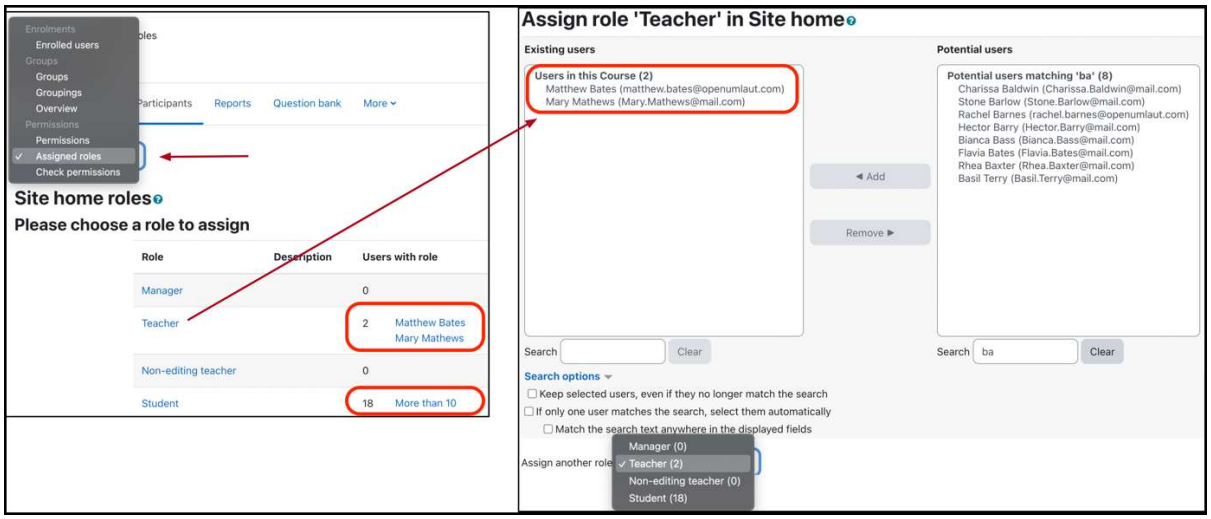

Checklist OAuth 2 Authentication
Configure OAuth 2 service(s)
Server I Server I OAuth 2 services
Enable OAuth 2
Plugins I Authentication I Manage authentication
Configure OAuth 2 lock user fields
Plugins I Authentication I OAuth 2
Enable authpreventaccountcreation
Plugins I Authentication I Manage authentication
Configure user policy settings
Users I Privacy and policies I Policy settings
Testing, testing, testing
Users I Browse list of users

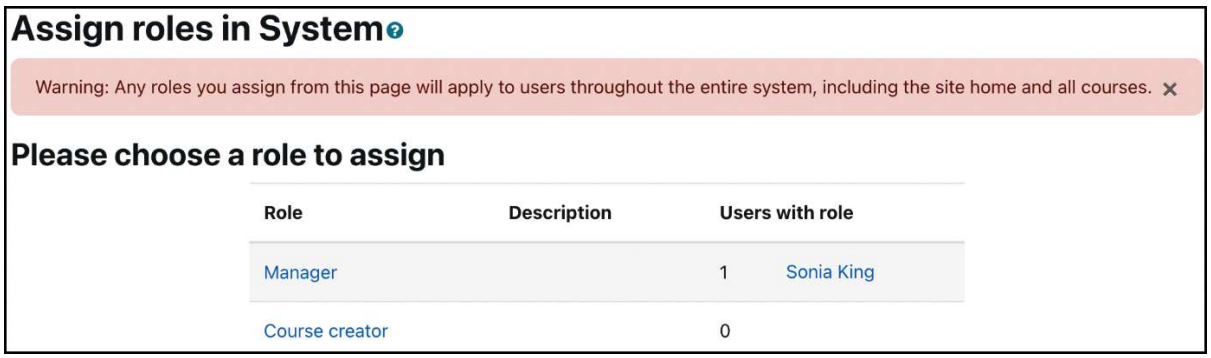
Chapter 6: Managing Permissions, Roles, and Capabilities

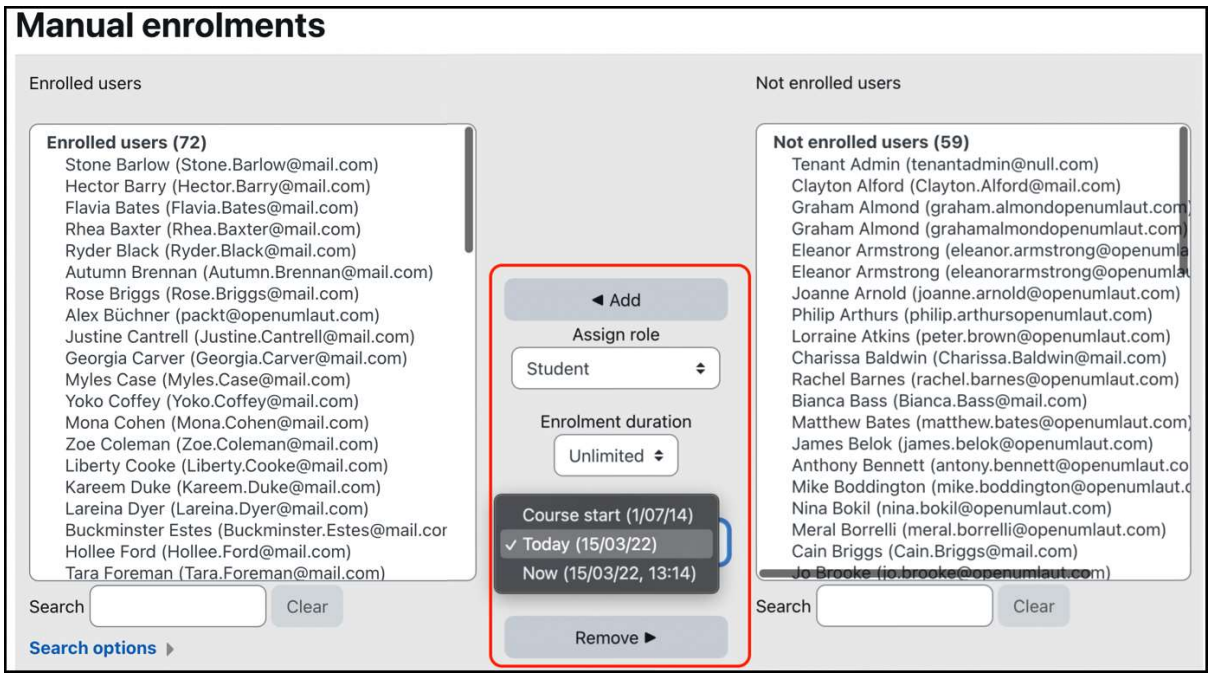


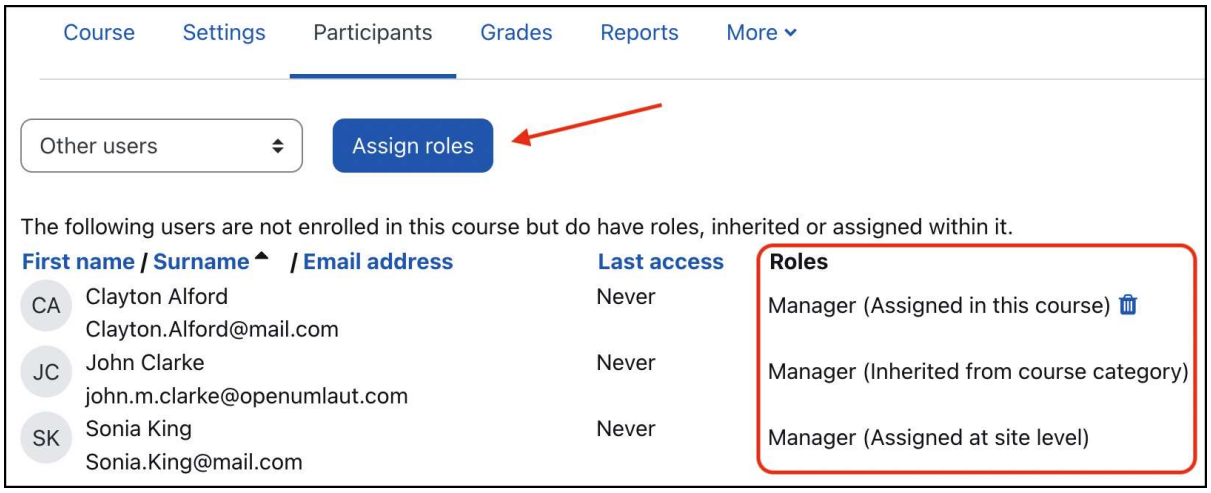
Role	Description	Short name
Manager	Managers can access courses and modify them, but usually do not participate in them.	manager
Course creator	Course creators can create new courses.	coursecreator
Teacher	Teachers can do anything within a course, including changing the activities and grading students.	editingteacher
Non-editing teacher	Non-editing teachers can teach in courses and grade students, but may not alter activities.	teacher
Student	Students generally have fewer privileges within a course.	student
Guest	Guests have minimal privileges and usually can not enter text anywhere.	guest
Authenticated user	All logged in users.	user
Authenticated user on site home	All logged-in users in the site home course.	frontpage

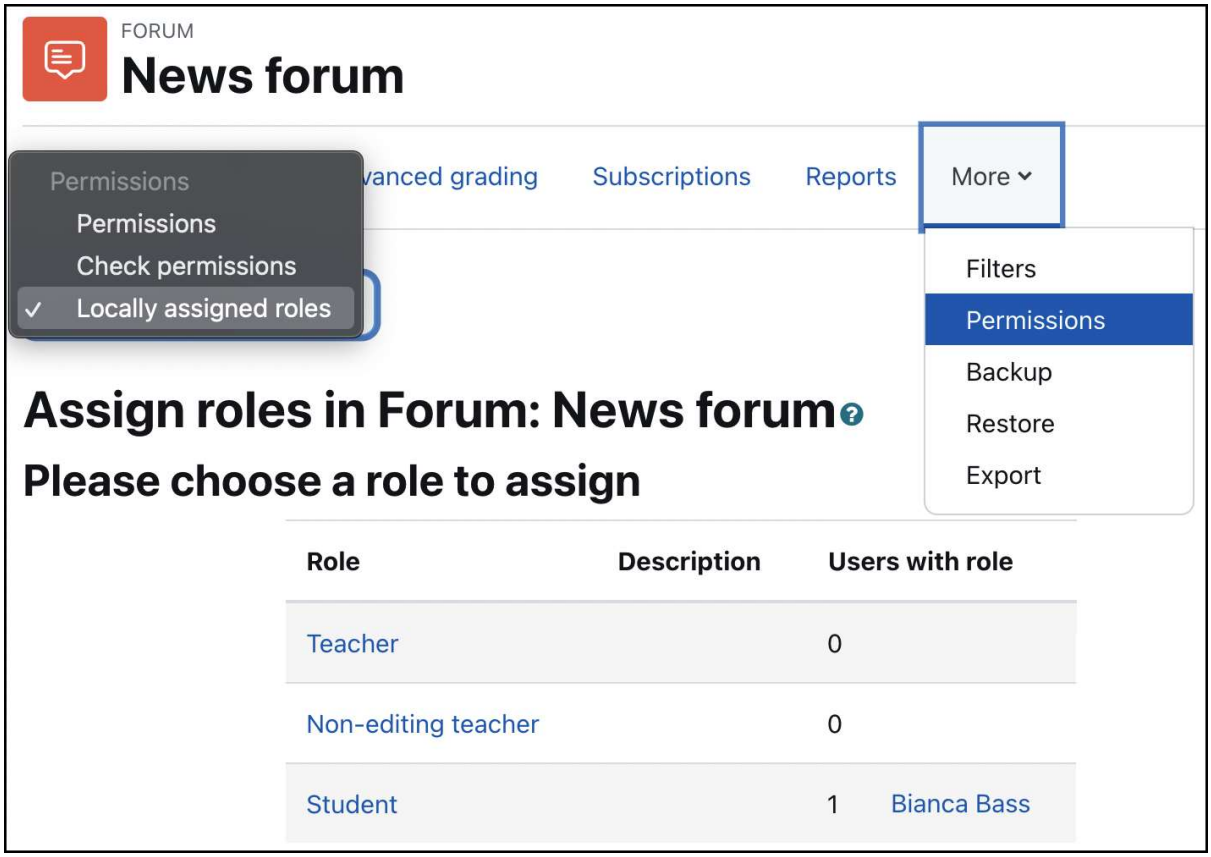

Contexts
System
Course Category
User
Site (Front page)
Sub-Category
Module
Block
Course
Module
Block

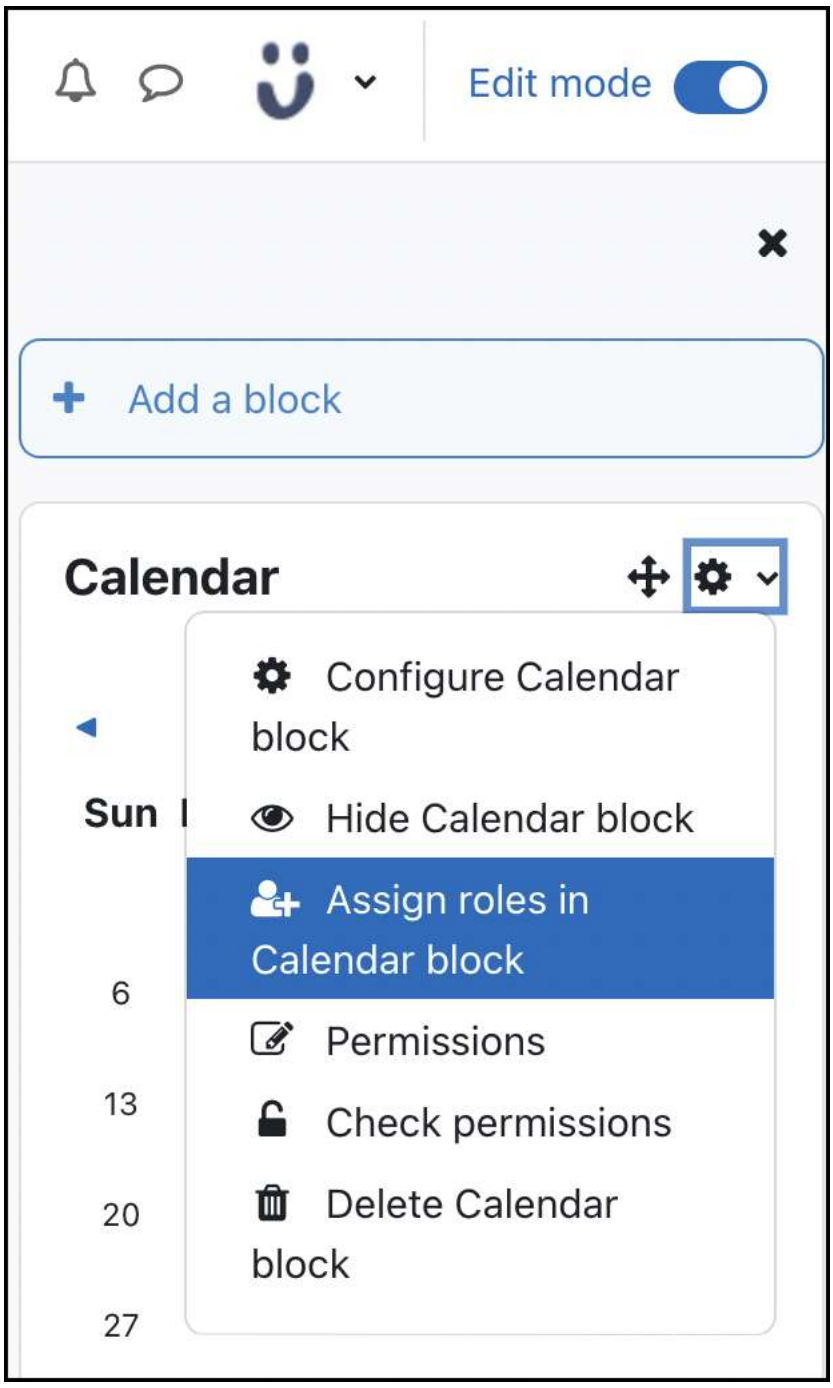

Enrolled users
Groups
Groupings
Overview
Permissions
Assigned roles
Check permissions
Participants
Reports
Question bank
More
Site home roles
Please choose a role to assign
Role
Description
Users with role
Manager
Teacher
2
Matthew Bates
Mary Mathews
Non-editing teacher
Student
18
More than 10
Assign role 'Teacher' in Site home
Existing users
Users in this Course (2)
Matthew Bates (matthew.bates@openumlaut.com)
Mary Mathews (Mary.Mathews@mail.com)
Potential users
Potential users matching 'ba' (8)
Charissa Baldwin (Charissa.Baldwin@mail.com)
Stone Barlow (Stone.Barlow@mail.com)
Rachel Barnes (rachel.barnes@openumlaut.com)
Hector Barry (Hector.Barry@mail.com)
Bianca Bass (Bianca.Bass@mail.com)
Flavia Bates (Flavia.Bates@mail.com)
Rhea Baxter (Rhea.Baxter@mail.com)
Basil Terry (Basil.Terry@mail.com)
Add
Remove
Search
Clear
Search options
Keep selected users, even if they no longer match the search
If only one user matches the search, select them automatically
Match the search text anywhere in the displayed fields
Assign another role
Manager (0)
Teacher (2)
Non-editing teacher (0)
Student (18)

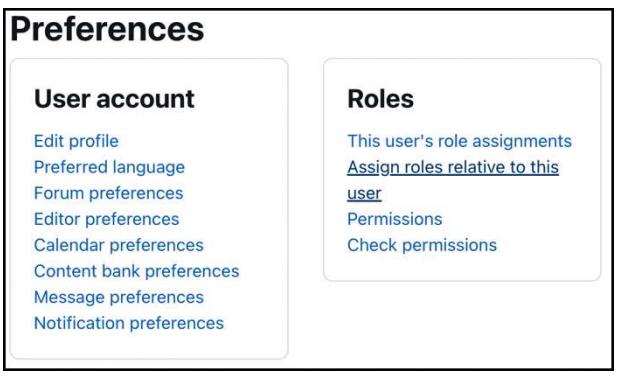

Assign roles in System
Warning: Any roles you assign from this page will apply to users throughout the entire system, including the site home and all courses.
Please choose a role to assign
Role
Description
Users with role
Manager
1
Sonia King
Course creator
0

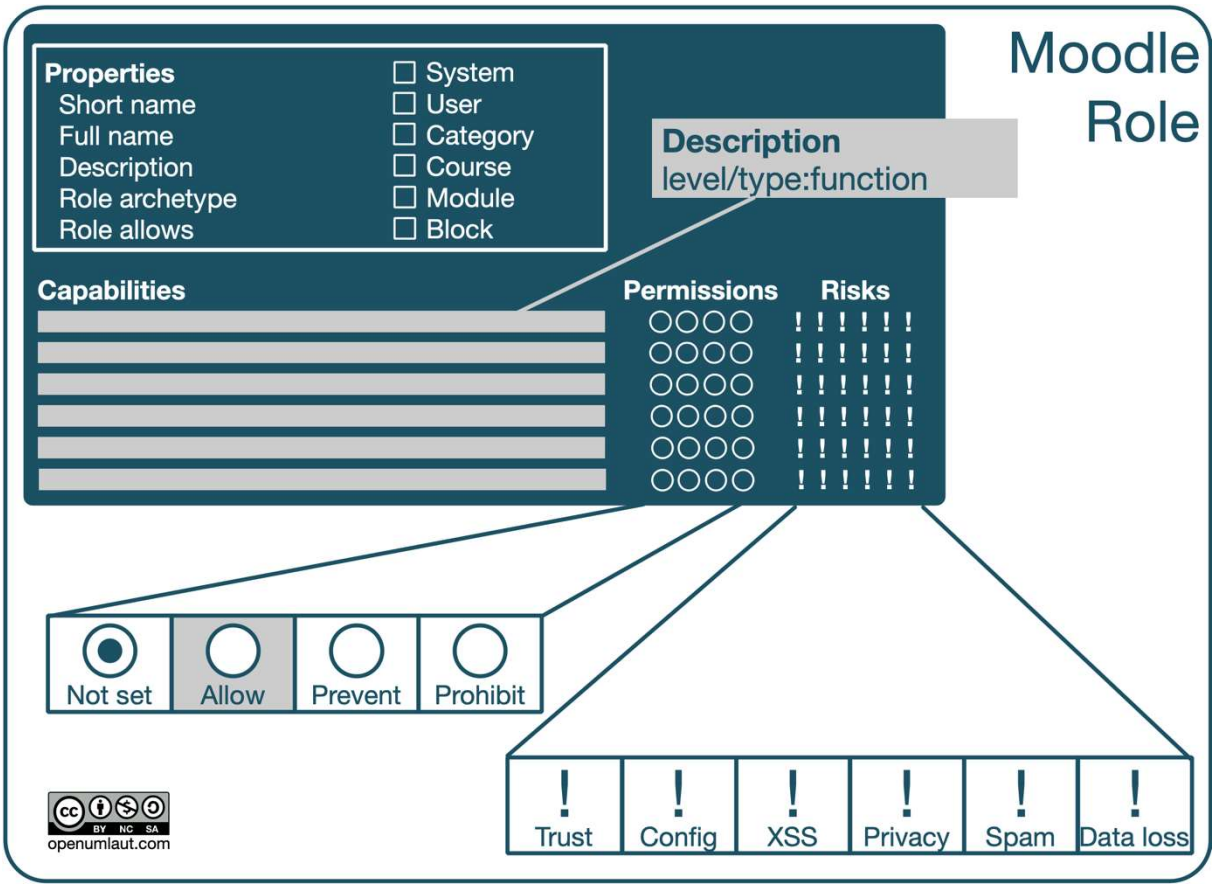

Manual enrolments
Enrolled users
Not enrolled users
Enrolled users (72)
Stone Barlow (Stone.Barlow@mail.com)
Hector Barry (Hector.Barry@mail.com)
Flavia Bates (Flavia.Bates@mail.com)
Rhea Baxter (Rhea.Baxter@mail.com)
Ryder Black (Ryder.Black@mail.com)
Autumn Brennan (Autumn.Brennan@mail.com)
Rose Briggs (Rose.Briggs@mail.com)
Alex Büchner (packt@openumlaut.com)
Justine Cantrell (Justine.Cantrell@mail.com)
Georgia Carver (Georgia.Carver@mail.com)
Myles Case (Myles.Case@mail.com)
Yoko Coffey (Yoko.Coffey@mail.com)
Mona Cohen (Mona.Cohen@mail.com)
Zoe Coleman (Zoe.Coleman@mail.com)
Liberty Cooke (Liberty.Cooke@mail.com)
Kareem Duke (Kareem.Duke@mail.com)
Lareina Dyer (Lareina.Dyer@mail.com)
Buckminster Estes (Buckminster.Estes@mail.cor
Hollee Ford (Hollee.Ford@mail.com)
Tara Foreman (Tara.Foreman@mail.com)
Search
Clear
Search options
◄ Add
Assign role
Student
Enrolment duration
Unlimited
Course start (1/07/14)
Today (15/03/22)
Now (15/03/22, 13:14)
Remove ►
Not enrolled users (59)
Tenant Admin (tenantadmin@null.com)
Clayton Alford (Clayton.Alford@mail.com)
Graham Almond (graham.almondopenumlaut.com)
Graham Almond (grahamalmondopenumlaut.com)
Eleanor Armstrong (eleanor.armstrong@openuml
Eleanor Armstrong (eleanorarmstrong@openuml
Joanne Arnold (joanne.arnold@openumlaut.com)
Philip Arthurs (philip.arthursopenumlaut.com)
Lorraine Atkins (peter.brown@openumlaut.com)
Charissa Baldwin (Charissa.Baldwin@mail.com)
Rachel Barnes (rachel.barnes@openumlaut.com)
Bianca Bass (Bianca.Bass@mail.com)
Matthew Bates (matthew.bates@openumlaut.com)
James Belok (james.belok@openumlaut.com)
Anthony Bennett (antony.bennett@openumlaut.co
Mike Boddington (mike.boddington@openumlaut.
Nina Bokil (nina.bokil@openumlaut.com)
Meral Borrelli (meral.borrelli@openumlaut.com)
Cain Briggs (Cain.Briggs@mail.com)
Jo Brooke (jo.brooke@openumlaut.com)
Search
Clear

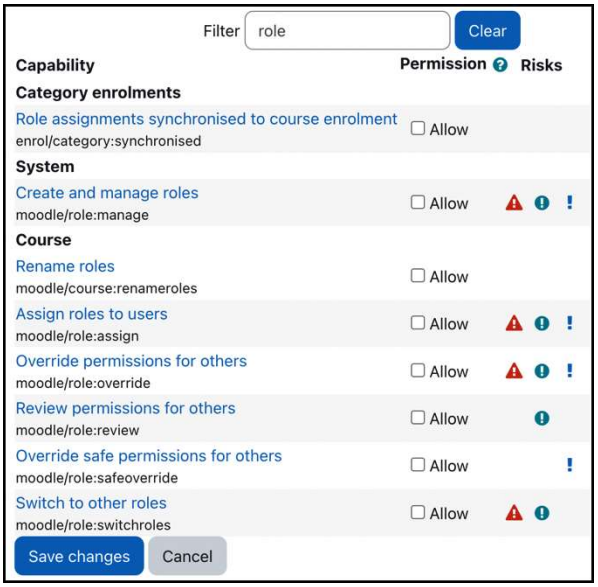

Course
Settings
Participants
Grades
Reports
More
Other users
Assign roles
The following users are not enrolled in this course but do have roles, inherited or assigned within it.
First name / Surname / Email address
Last access
Roles
CA
Clayton Alford
Clayton.Alford@mail.com
Never
Manager (Assigned in this course)
JC
John Clarke
john.m.clarke@openumlaut.com
Never
Manager (Inherited from course category)
SK
Sonia King
Sonia.King@mail.com
Never
Manager (Assigned at site level)


FORUM
News forum
Permissions
Permissions
Check permissions
Locally assigned roles
vanced grading
Subscriptions
Reports
More
Filters
Permissions
Backup
Restore
Export
Assign roles in Forum: News forum
Please choose a role to assign
Role
Description
Users with role
Teacher
0
Non-editing teacher
0
Student
1
Bianca Bass


Edit mode
Add a block
Calendar
Configure Calendar block
Hide Calendar block
Assign roles in Calendar block
Permissions
Check permissions
Delete Calendar block
Sun
6
13
20
27


Preferences
User account
Edit profile
Preferred language
Forum preferences
Editor preferences
Calendar preferences
Content bank preferences
Message preferences
Notification preferences
Roles
This user's role assignments
Assign roles relative to this user
Permissions
Check permissions

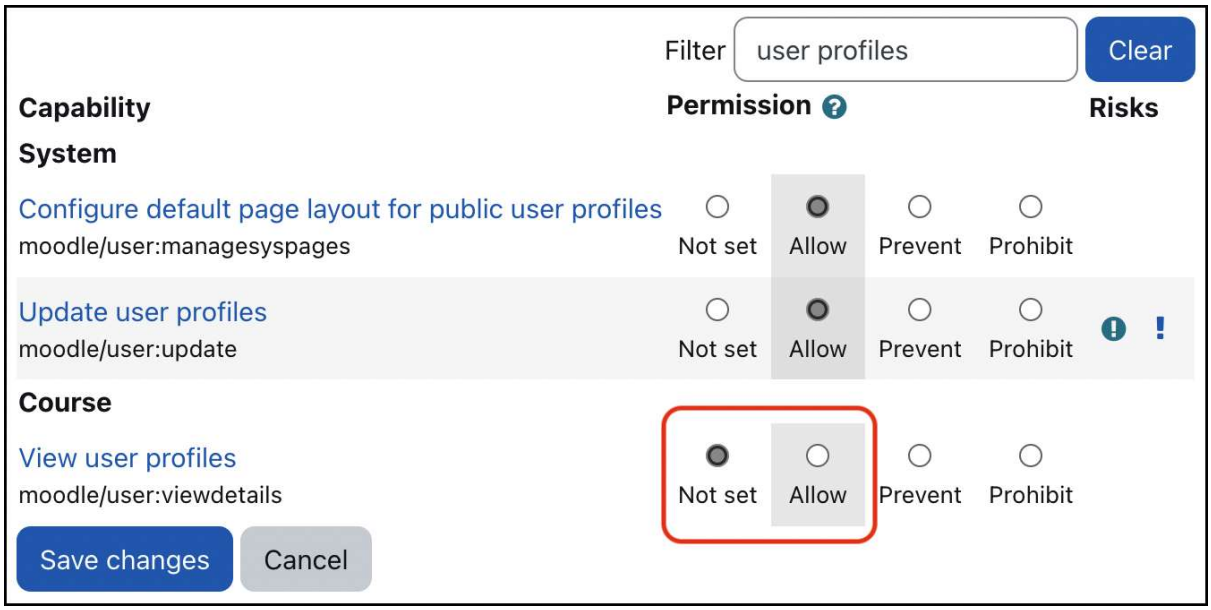

Moodle
Role
Properties
Short name
Full name
Description
Role archetype
Role allows
System
User
Category
Course
Module
Block
Description
level/type:function
Capabilities
Permissions
Risks
Not set
Allow
Prevent
Prohibit
Trust
Config
XSS
Privacy
Spam
Data loss
openumlaut.com

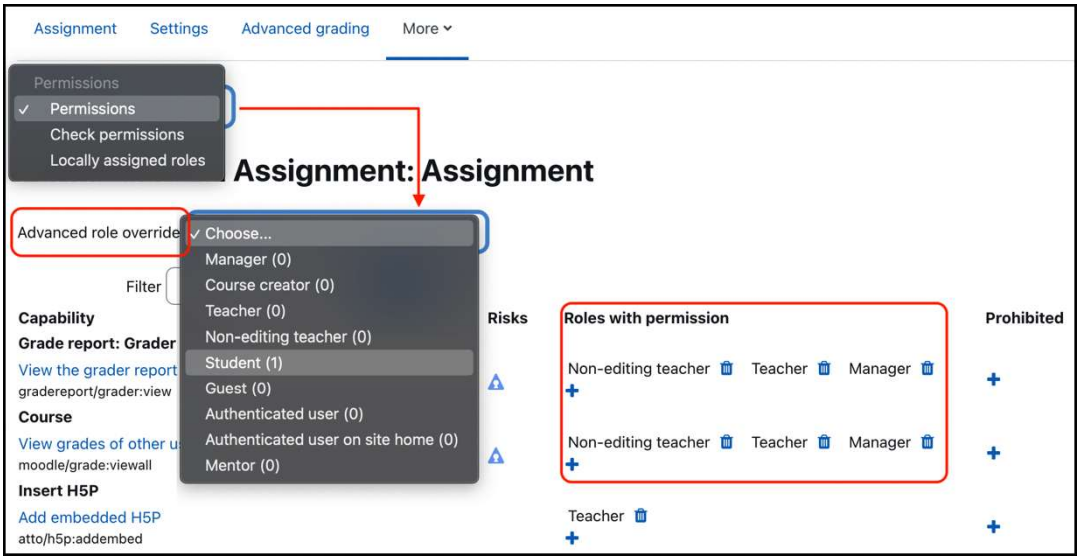

Filter
role
Clear
Capability
Permission
Risks
Category enrolments
Role assignments synchronised to course enrolment
enrol/category:synchronised
Allow
System
Create and manage roles
moodle/role:manage
Allow
Course
Rename roles
moodle/course:renameroles
Allow
Assign roles to users
moodle/role:assign
Allow
Override permissions for others
moodle/role:override
Allow
Review permissions for others
moodle/role:review
Allow
Override safe permissions for others
moodle/role:safeoverride
Allow
Switch to other roles
moodle/role:switchroles
Allow
Save changes
Cancel

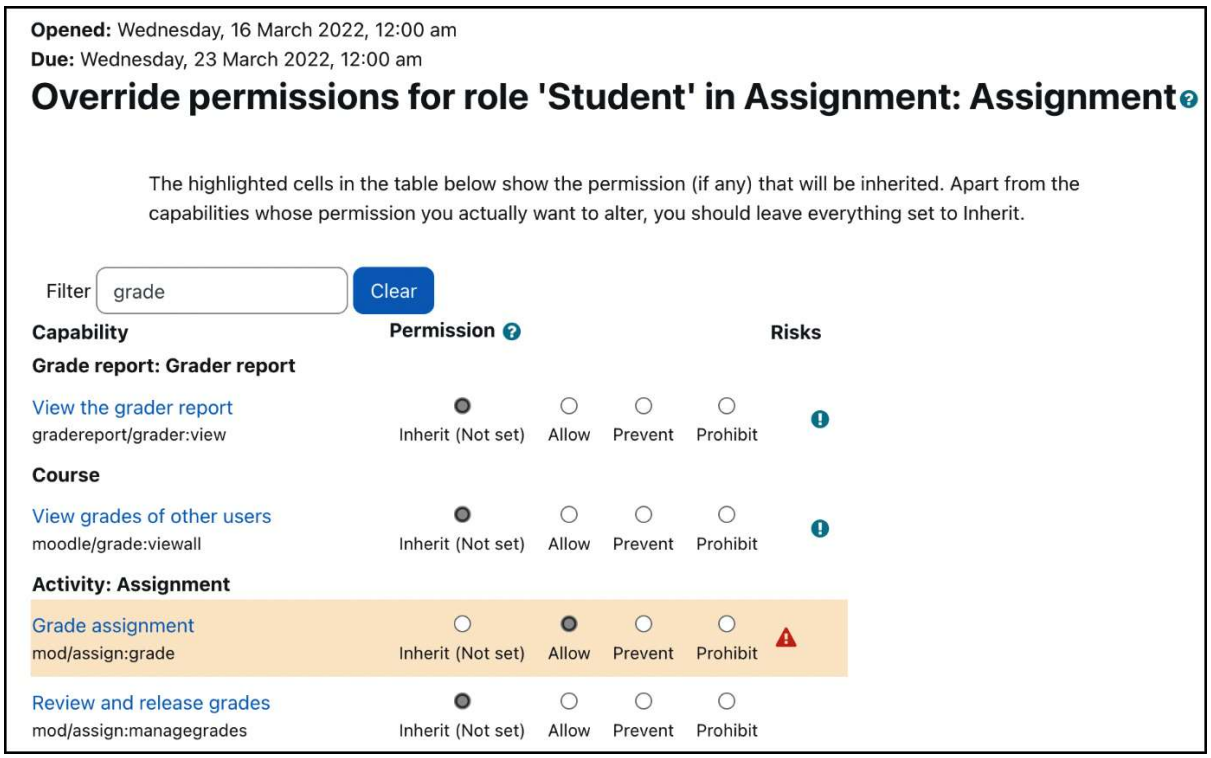
Permission	Description
Not set	All permissions for a new role are set to this value by default. The value in the context where it will be assigned is inherited from the parent context. Moodle searches upward through each context to determine this value until it finds an explicit value (**Allow**, **Prevent**, or **Prohibit**) for this capability; the search terminates when an explicit permission is found. Example: If a role is assigned to a user in a Course context and a capability has a **Not set** value, then the actual permission will be whatever the user has at the category level or, failing to find an explicit permission, at the site level. If no explicit permission is found, then the value in the current context is set to **Prevent**.
Allow	To grant permission for a capability, set the permission to **Allow**. It applies in the context in which the role will be assigned and all contexts below it. Example: When assigned in the **Course** context, students can start new discussions in all forums in that course unless some forum contains an override or a new assignment with a **Prevent** or **Prohibit** value for this capability.
Prevent	To remove permission for a capability, set the permission to **Prevent**. If granted in a higher context (no matter at what level), it will be overridden, and the value can be overridden again in a lower context.
Prohibit	This is the same as the **Prevent** permission, but the value cannot be overridden again at a lower context. The value is rarely needed but useful when an administrator wants to prohibit a type of user from certain functionality throughout the site. The capability is set to **Prohibit** and then assigned in the site context. A situation where this applies is when a user is a lousy student who is not allowed to post to the forums.

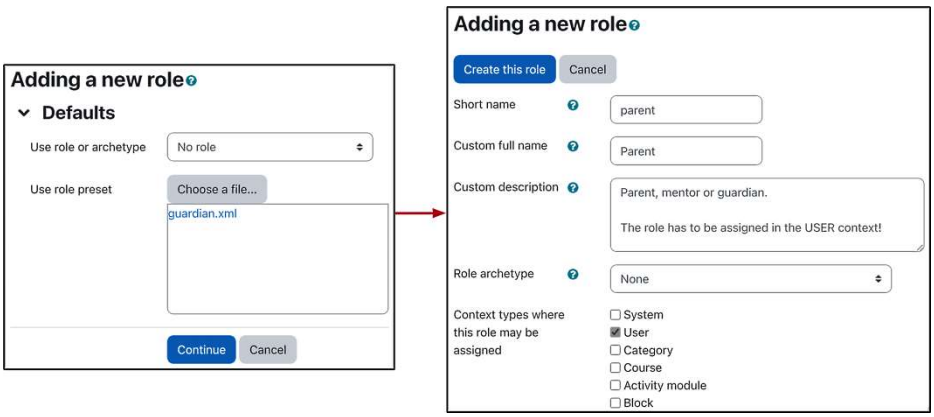
Risk	Icon	Description
XSS		Users can add files and texts that allow cross-site scripting (potentially malicious scripts which are embedded in web pages and executed on the user's computer)
Privacy		Users can gain access to private information of other users
Spam		Users can send spam to site users or others
Data loss		Users can destroy a large amount of content or information






Assignment
Settings
Advanced grading
More
Permissions
Permissions
Check permissions
Locally assigned roles
Assignment: Assignment
Advanced role override
Choose...
Manager (0)
Course creator (0)
Teacher (0)
Non-editing teacher (0)
Student (1)
Guest (0)
Authenticated user (0)
Authenticated user on site home (0)
Mentor (0)
Filter
Capability
Risks
Roles with permission
Prohibited
Grade report: Grader
View the grader report
gradereport/grader:view
Non-editing teacher
Teacher
Manager
Course
View grades of other u
moodle/grade:viewall
Non-editing teacher
Teacher
Manager
Insert H5P
Add embedded H5P
atto/h5p:addembed
Teacher


Opened: Wednesday, 16 March 2022, 12:00 am
Due: Wednesday, 23 March 2022, 12:00 am
Override permissions for role 'Student' in Assignment: Assignment
The highlighted cells in the table below show the permission (if any) that will be inherited. Apart from the capabilities whose permission you actually want to alter, you should leave everything set to Inherit.
Filter
grade
Clear
Capability
Permission
Risks
Grade report: Grader report
View the grader report
gradereport/grader:view
Inherit (Not set)
Allow
Prevent
Prohibit
Course
View grades of other users
moodle/grade:viewall
Inherit (Not set)
Allow
Prevent
Prohibit
Activity: Assignment
Grade assignment
mod/assign:grade
Inherit (Not set)
Allow
Prevent
Prohibit
Review and release grades
mod/assign:managegrades
Inherit (Not set)
Allow
Prevent
Prohibit


Adding a new role
Defaults
Use role or archetype
No role
Use role preset
Choose a file...
guardian.xml
Continue
Cancel
Adding a new role
Create this role
Cancel
Short name
parent
Custom full name
Parent
Custom description
Parent, mentor or guardian.
The role has to be assigned in the USER context!
Role archetype
None
Context types where this role may be assigned
System
User
Category
Course
Activity module
Block

Capability	Permission	Risks
User		
View all learning plans moodle/competency:planview	Allow Default: Not set	
View all user blogs moodle/user:readuserblogs	Allow Default: Not set	
View all user forum posts moodle/user:readuserposts	Allow Default: Not set	
View user full information moodle/user:viewalldetails	Allow Default: Not set	
See user activity reports moodle/user:viewuseractivitiesreport	Allow Default: Not set	
Policies		
Give consent for policies on someone else's behalf tool/policy:acceptbehalf	Allow Default: Not set	
Course		
View user profiles moodle/user:viewdetails	Allow Default: Not set	

First name / Surname	Email address	City/town	Country
Ozzy Harris	ozzy.harris@openumlaut.com	Los Angeles	United States
Kelly Harris	kelly.harris@openumlaut.com	Los Angeles	United States
Jack Harris	jack.harris@openumlaut.com	Los Angeles	United States

Add a new user

Parent access

- Jack Harris
- Kelly Harris

Check permissions in User: Kelly Harris

Roles for user Ozzy Harris

- Parent in User: Kelly Harris
- Authenticated user in System

Permissions for user Ozzy Harris

Capability	Allowed
OAuth 2	
Manage own linked login accounts auth/oauth2:managelinkedlogins	Yes
User	
View and manage own earned badges moodle/badges:manageownbadges	Yes
View public badges in other users' profiles moodle/badges:viewotherbadges	Yes
Delete evidence moodle/competency:evidencedelete	No
Comment on a learning plan moodle/competency:plancomment	No
Comment on own learning plan moodle/competency:plancommentown	Yes
Manage learning plans moodle/competency:planmanage	
Manage draft learning plans moodle/competency:planmanaged	

Permissions in System

	Manager	Course creator	Teacher	Non-editing teacher	Student	Guest	Authenticated user	Authenticated user on site home	Parent
Grade assignment mod/assign:grade	Allow	Not set	Allow	Allow	Not set	Not set	Not set	Not set	Not set

Permissions in Category: Miscellaneous

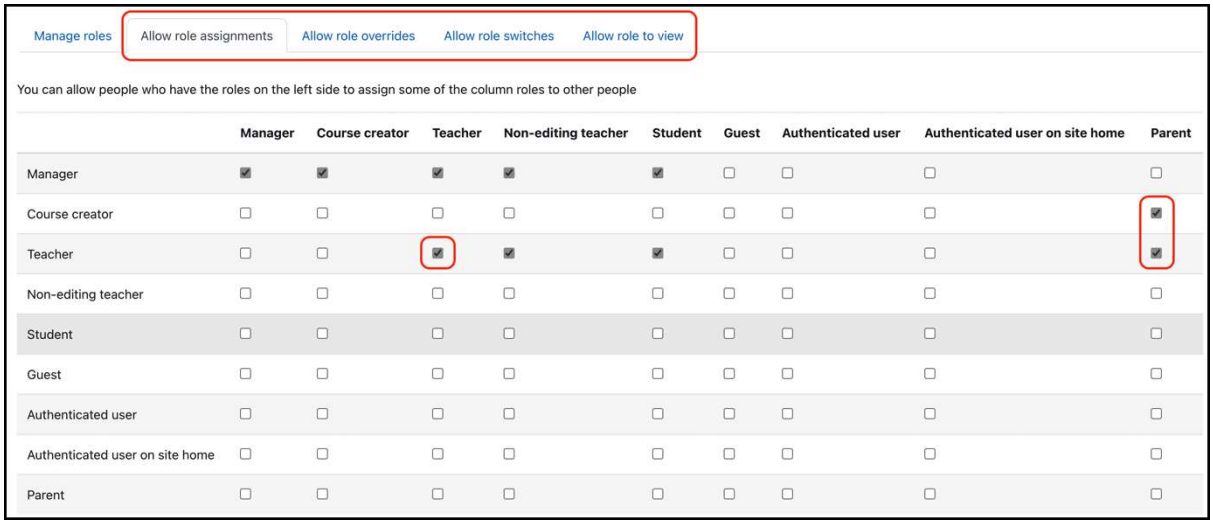
There are no differences to show between selected roles in this context

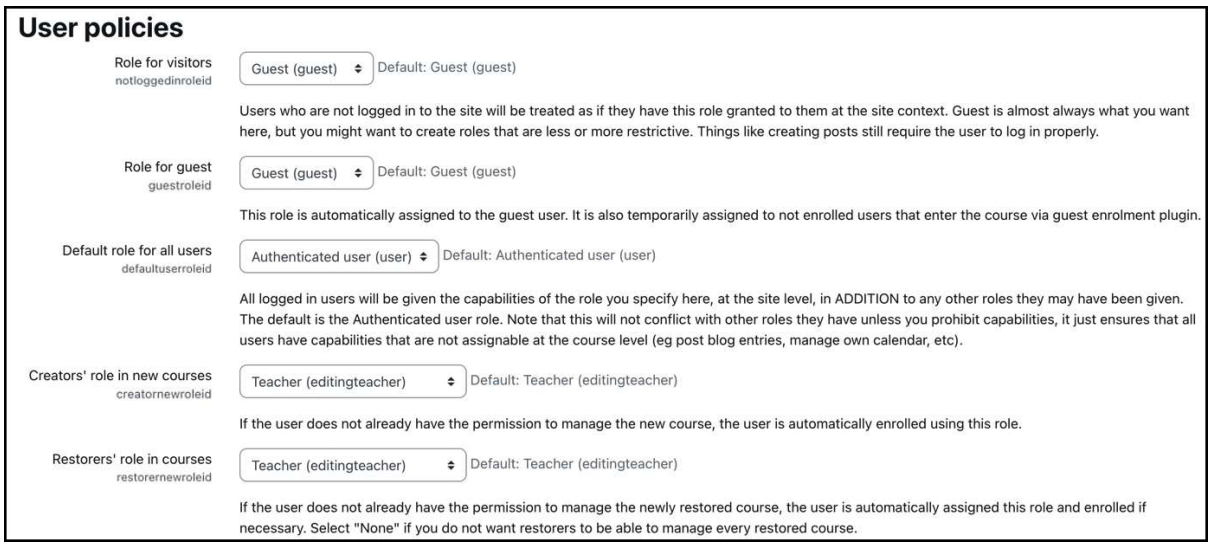
Permissions in Course: Computing Year 1

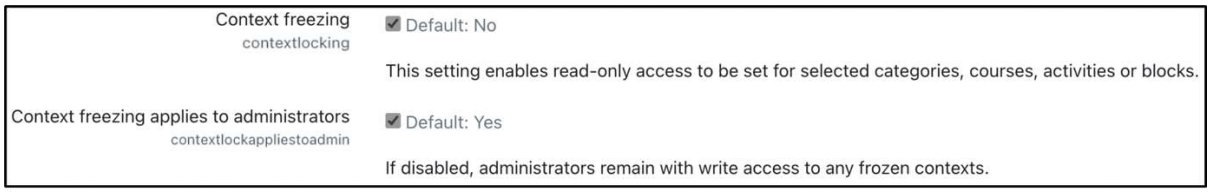
There are no differences to show between selected roles in this context

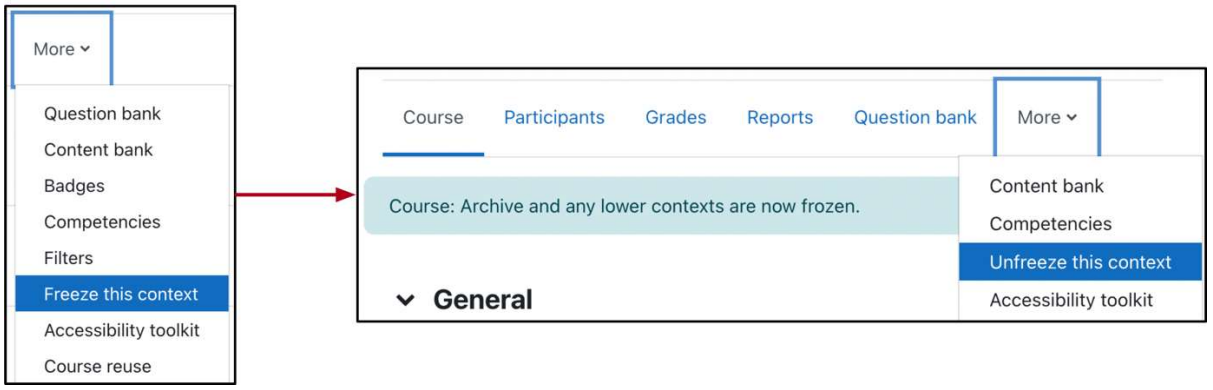
Permissions in Assignment: Assignment

	Manager	Course creator	Teacher	Non-editing teacher	Student	Guest	Authenticated user	Authenticated user on site home	Parent
Grade assignment mod/assign:grade	Inherit	Inherit	Inherit	Inherit	Allow	Inherit	Inherit	Inherit	Inherit

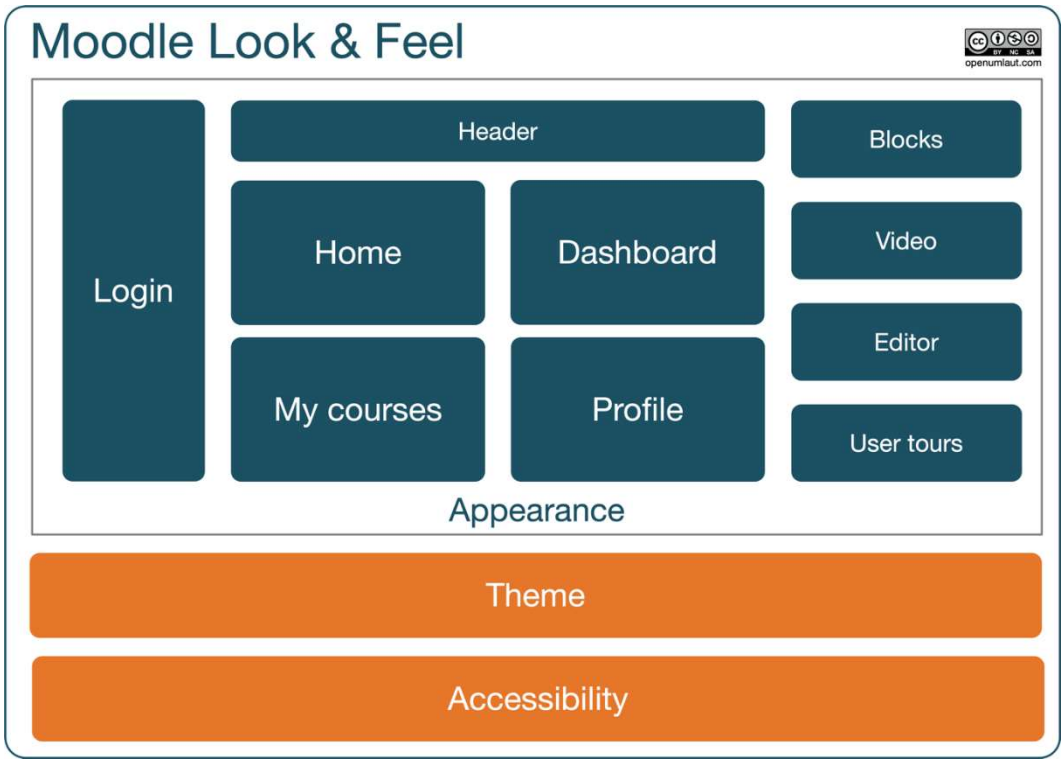

Manage roles
Allow role assignments
Allow role overrides
Allow role switches
Allow role to view
You can allow people who have the roles on the left side to assign some of the column roles to other people
Manager
Course creator
Teacher
Non-editing teacher
Student
Guest
Authenticated user
Authenticated user on site home
Parent

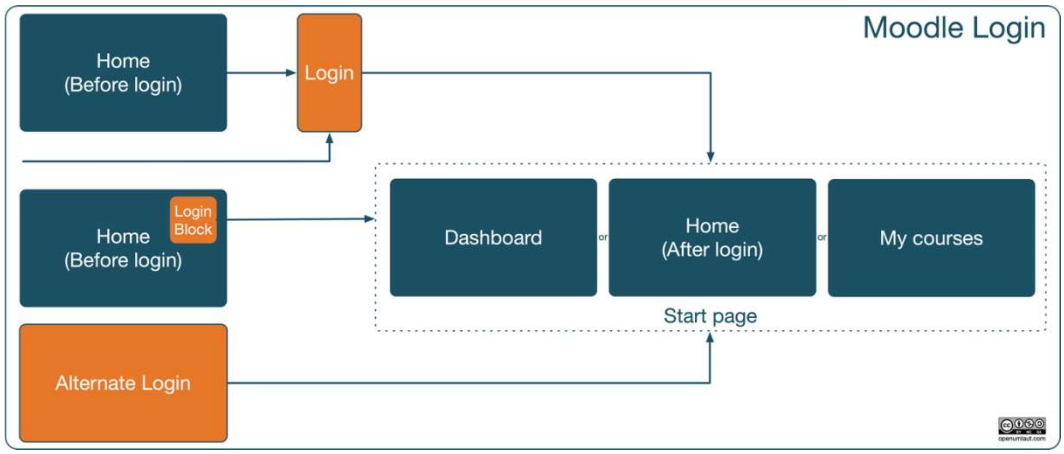

User policies
Role for visitors
notloggedinroleid
Guest (guest)
Default: Guest (guest)
Users who are not logged in to the site will be treated as if they have this role granted to them at the site context. Guest is almost always what you want here, but you might want to create roles that are less or more restrictive. Things like creating posts still require the user to log in properly.
Role for guest
guestroleid
Guest (guest)
Default: Guest (guest)
This role is automatically assigned to the guest user. It is also temporarily assigned to not enrolled users that enter the course via guest enrolment plugin.
Default role for all users
defaultuserroleid
Authenticated user (user)
Default: Authenticated user (user)
All logged in users will be given the capabilities of the role you specify here, at the site level, in ADDITION to any other roles they may have been given. The default is the Authenticated user role. Note that this will not conflict with other roles they have unless you prohibit capabilities, it just ensures that all users have capabilities that are not assignable at the course level (eg post blog entries, manage own calendar, etc).
Creators' role in new courses
creatornewroleid
Teacher (editingteacher)
Default: Teacher (editingteacher)
If the user does not already have the permission to manage the new course, the user is automatically enrolled using this role.
Restorers' role in courses
restorernewroleid
Teacher (editingteacher)
Default: Teacher (editingteacher)
If the user does not already have the permission to manage the newly restored course, the user is automatically assigned this role and enrolled if necessary. Select "None" if you do not want restorers to be able to manage every restored course.

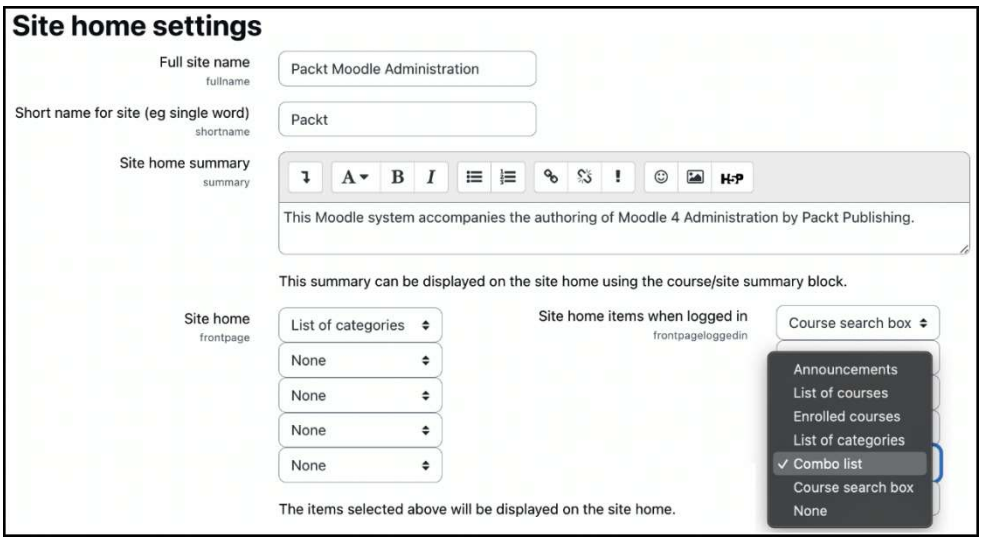

Context freezing
contextlocking
Default: No
This setting enables read-only access to be set for selected categories, courses, activities or blocks.
Context freezing applies to administrators
contextlockappliestoadmin
Default: Yes
If disabled, administrators remain with write access to any frozen contexts.

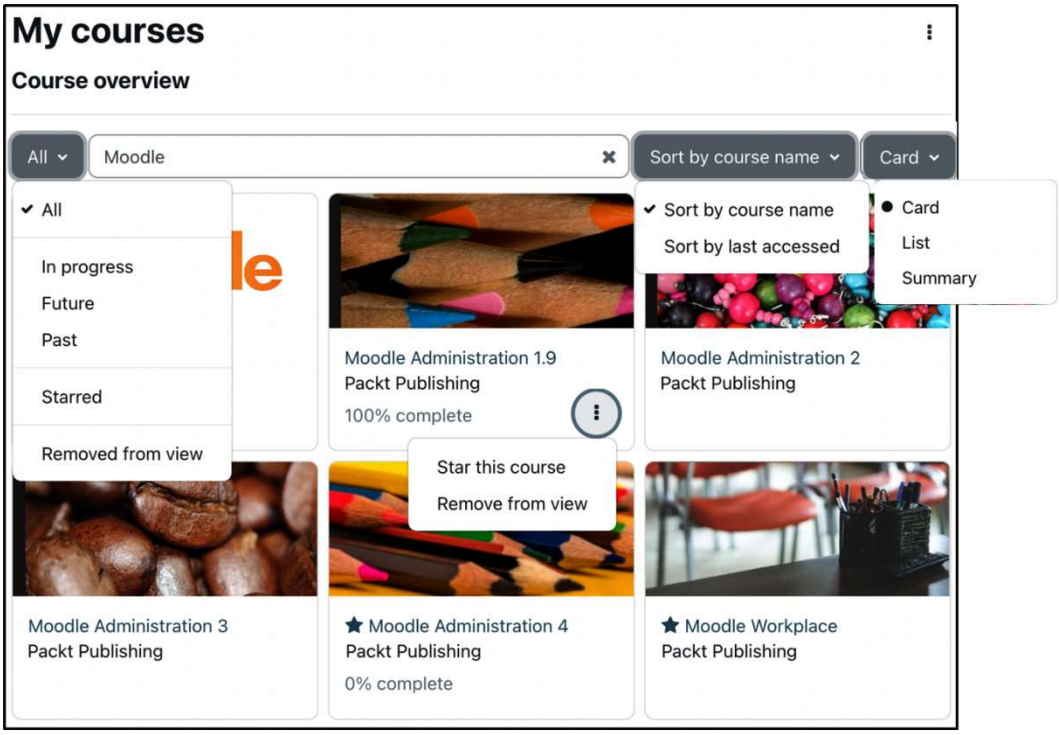

More
Question bank
Content bank
Badges
Competencies
Filters
Freeze this context
Accessibility toolkit
Course reuse
Course
Participants
Grades
Reports
Question bank
More
Course: Archive and any lower contexts are now frozen.
General
Content bank
Competencies
Unfreeze this context
Accessibility toolkit

Chapter 7: Enhancing Moodle's Look and Feel






Site home settings
Full site name
fullname
Packt Moodle Administration
Short name for site (eg single word)
shortname
Packt
Site home summary
summary
This Moodle system accompanies the authoring of Moodle 4 Administration by Packt Publishing.
This summary can be displayed on the site home using the course/site summary block.
Site home
frontpage
List of categories
None
None
None
None
Site home items when logged in
frontpageloggedin
Course search box
Announcements
List of courses
Enrolled courses
List of categories
Combo list
Course search box
None
The items selected above will be displayed on the site home.


My courses
Course overview
All
Moodle
Sort by course name
Card
All
In progress
Future
Past
Starred
Removed from view
Sort by course name
Sort by last accessed
Card
List
Summary
Moodle Administration 1.9
Packt Publishing
100% complete
Moodle Administration 2
Packt Publishing
Star this course
Remove from view
Moodle Administration 3
Packt Publishing
Moodle Administration 4
Packt Publishing
0% complete
Moodle Workplace
Packt Publishing

Course overview

Appearance

Display categories
block_myoverview | displaycategories

☑ Default: Yes

Display the course category on dashboard course items including cards, list items and summary items.

Available layouts
block_myoverview | layouts

☑ Card
☑ List
☑ Summary
Default: Card, List, Summary

Course overview layouts which are available for selection by users. If none are selected, the card layout will be used.

Available filters

Course filters which are available for selection by users. If none are selected, all courses will be displayed.

All (including removed from view)
block_myoverview | displaygroupingallincludinghidden
☐ Default: No

All
block_myoverview | displaygroupingall
☑ Default: Yes

In progress
block_myoverview | displaygroupinginprogress
☑ Default: Yes

Past
block_myoverview | displaygroupingpast
☑ Default: Yes

Future
block_myoverview | displaygroupingfuture
☑ Default: Yes

Custom field
block_myoverview | displaygroupingcustomfield
☑ Default: No

Field to use
block_myoverview | customfiltergrouping
Course type
Default: Choose...

Starred
block_myoverview | displaygroupingfavourites
☑ Default: Yes

Removed from view
block_myoverview | displaygroupinghidden
☑ Default: Yes

Course card colours

Any courses without a course image set in the course settings are displayed on the Dashboard with a patterned course card. The colours used in the pattern may be specified below.

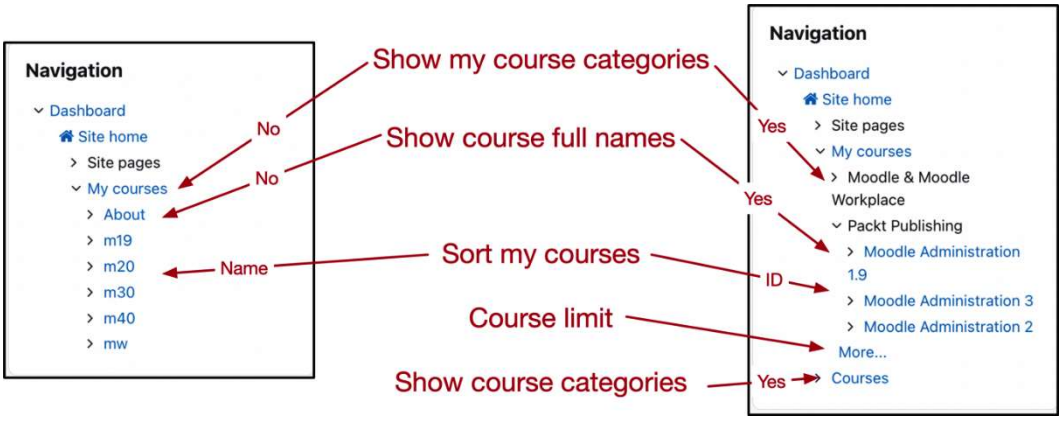
Colour 1
core_admin | coursecolor1

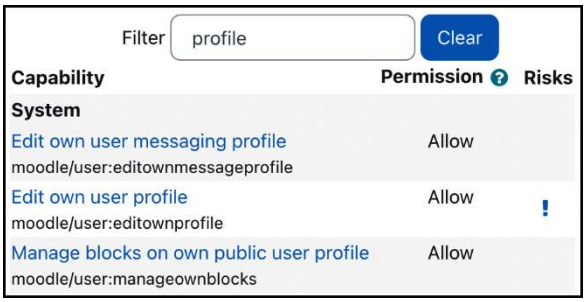


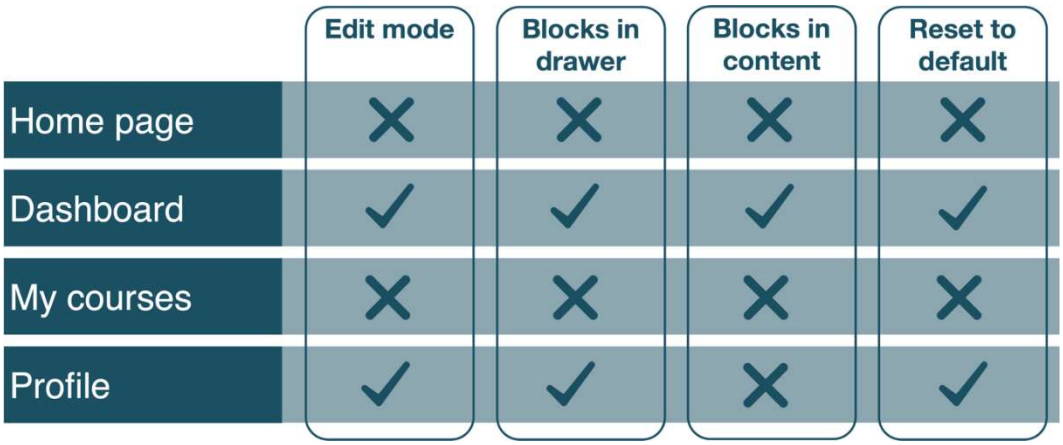
#81ecec
Default: #81ecec

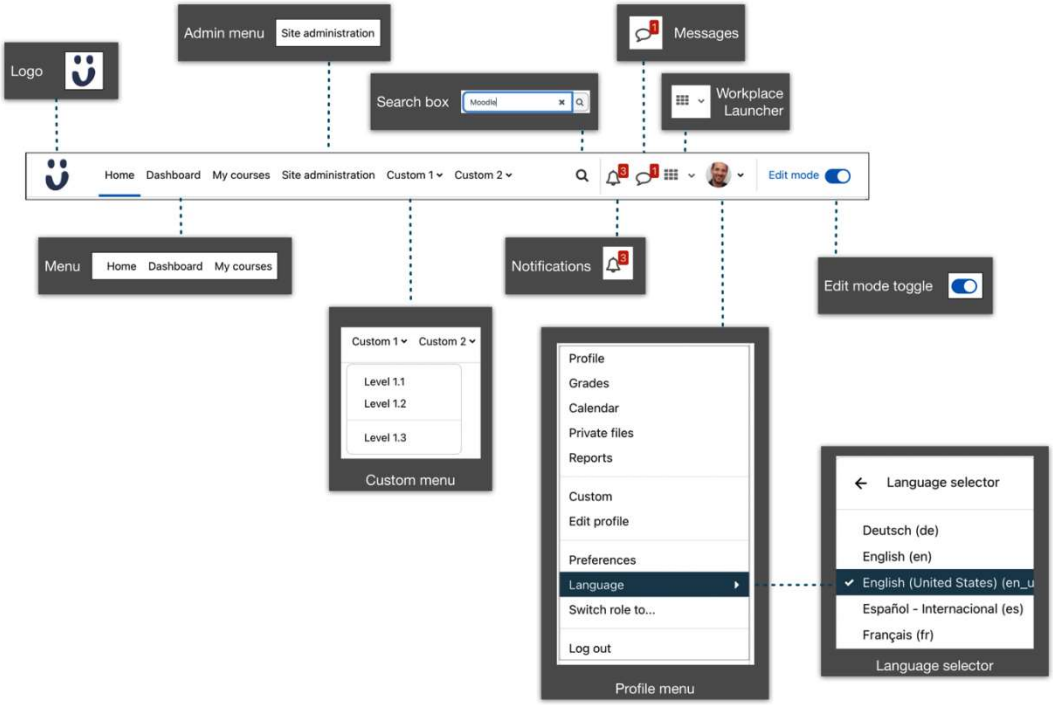
Colour 2
core_admin | coursecolor2

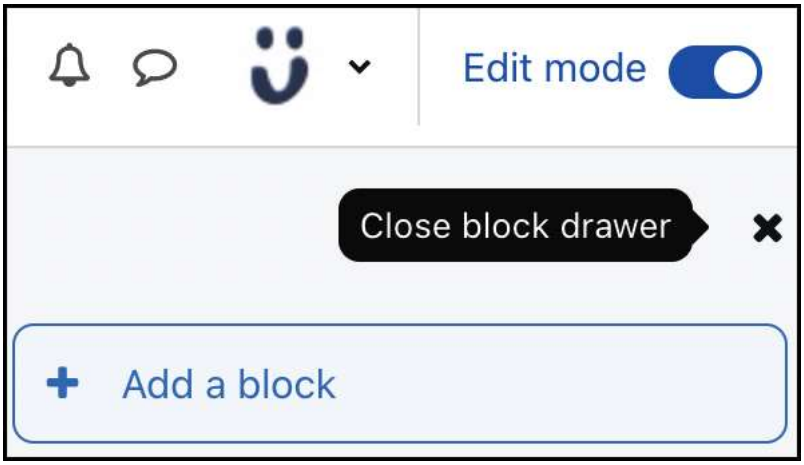



Navigation
Dashboard
Site home
Site pages
My courses
About
m19
m20
m30
m40
mw
No
No
Name
Show my course categories
Show course full names
Sort my courses
Course limit
Show course categories
Navigation
Dashboard
Site home
Site pages
My courses
Moodle & Moodle Workplace
Packt Publishing
Moodle Administration 1.9
Moodle Administration 3
Moodle Administration 2
More...
Courses
Yes
Yes
ID
Yes


Filter
profile
Clear
Capability
Permission
Risks
System
Edit own user messaging profile
moodle/user:editownmessageprofile
Allow
Edit own user profile
moodle/user:editownprofile
Allow
Manage blocks on own public user profile
moodle/user:manageownblocks
Allow


Edit mode
Blocks in drawer
Blocks in content
Reset to default
Home page
Dashboard
My courses
Profile





Block settings

Mentees block title (no title if blank) — Parents

Where this block appears

Original block location — Site home

Page contexts — Display on the site home and any pages added to the site home.

Default region — Right

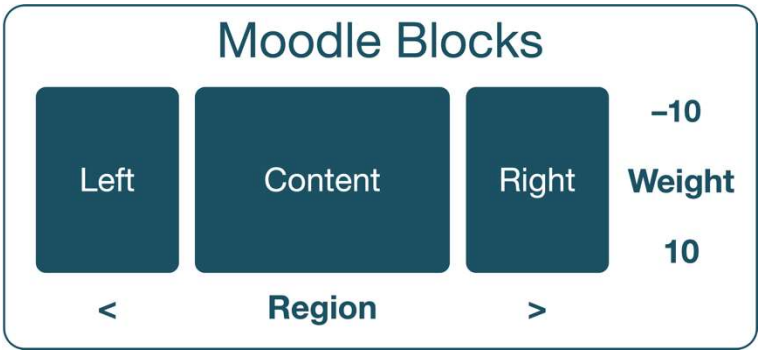
Default weight — 2

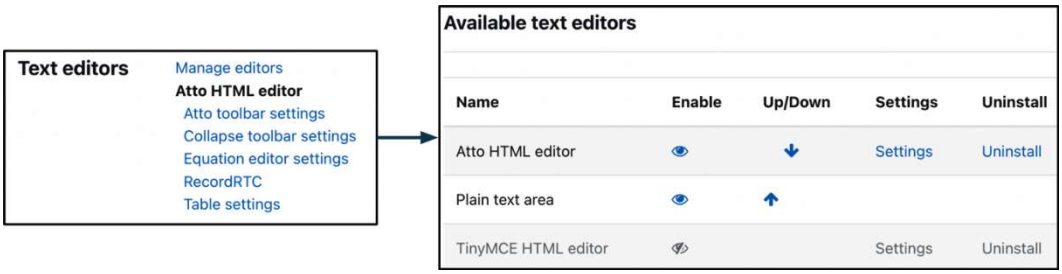
On this page

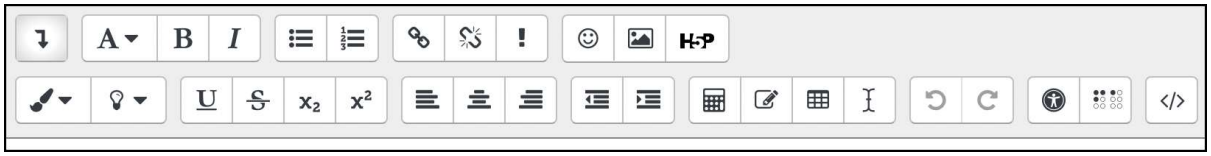
Visible — Yes

Region — Right

Weight — 2



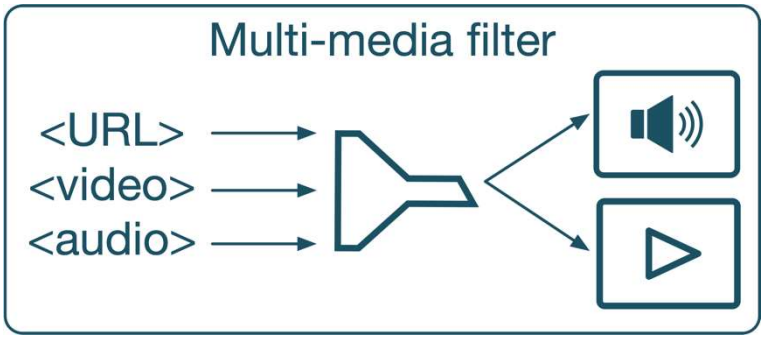




Toolbar config

editor_atto | toolbar

collapse = collapse
style1 = title, bold, italic
list = unorderedlist, orderedlist
links = link, noautolink
files = emoticon, image, media, managefiles, recordrtc, h5p
color = fontcolor, backcolor
style2 = underline, strike, subscript, superscript
align = align
indent = indent
insert = equation, charmap, table, clear
undo = undo
accessibility = accessibilitychecker, accessibilityhelper
other = html



Manage media players

Available players

When players are enabled, media files can be embedded using the multimedia plugins filter (if enabled) or using a file or URL resource. When not enabled, these formats are not embedded and users can download or follow links to these resources.

Where two players support the same format, enabling both increases compatibility across different devices such as mobile phones. It is possible to increase compatibility further by providing multiple files in different formats for a single audio or video clip.

Name	Supports	Version	Enable	Up/Down	Settings	Uninstall
VideoJS player	Video: **.mov**, **.mp4**, **.m4v**, **.ogv**, **.webm** Audio: **.mp3**, **.aac**, **.flac**, **.m4a**, **.oga**, **.ogg**, **.wav** YouTube videos	2021052503			Settings	Uninstall
YouTube		2021052500				Uninstall
Vimeo		2021052500				Uninstall
HTML5 video	Video: **.fmp4**, .mov, .mp4, .m4v, .ogv, .webm	2021052500				Uninstall
HTML5 audio	Audio: .aac, .flac, .mp3, .m4a, .oga, .ogg, .wav	2021052500				Uninstall

RecordRTC

Allowed types
atto_recordrtc | allowedtypes

✓ Audio and video
Audio only
Video only

Default: Audio and video

ons should appear in Atto. In addition to this setting, there are also capabilities which can control access to the buttons to particular users in particular contexts.

Audio bitrate
atto_recordrtc | audiobitrate

128000 Default: 128000

Quality of audio recording (larger number means higher quality)

Video bitrate
atto_recordrtc | videobitrate

2500000 Default: 2500000

Quality of video recording (larger number means higher quality)

Audio time limit in seconds
atto_recordrtc | audiotimelimit

2 minutes Default: 2 minutes

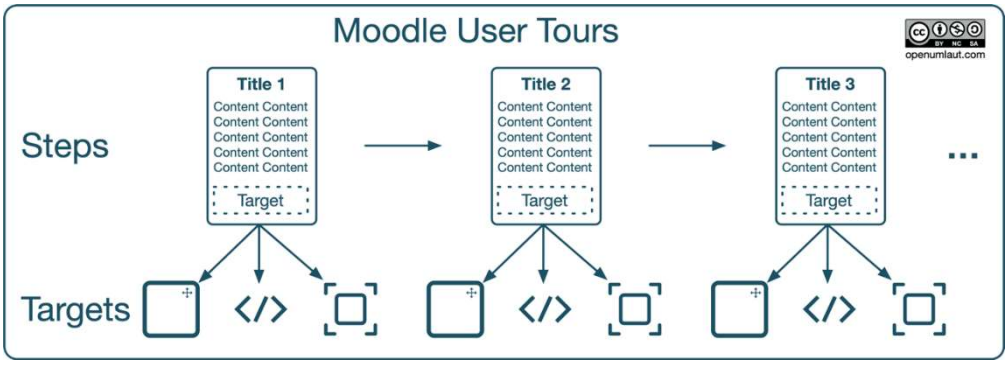
Maximum recording length allowed for the audio clips

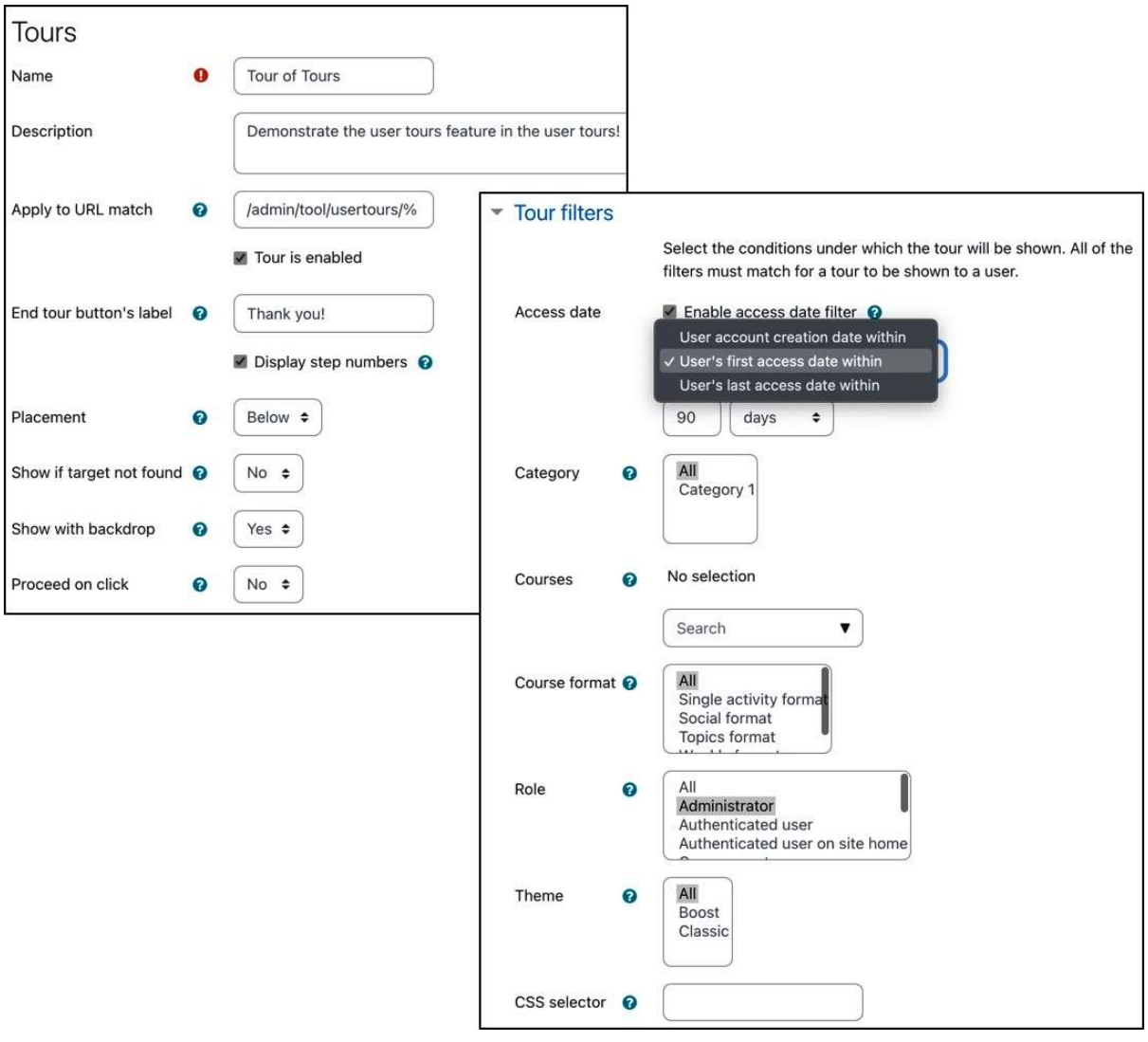
Video time limit in seconds
atto_recordrtc | videotimelimit

2 minutes Default: 2 minutes

Maximum recording length allowed for the video clips

Save changes


Moodle User Tours
openumlaut.com
Steps
Title 1
Content Content
Content Content
Content Content
Content Content
Content Content
Target
Title 2
Content Content
Content Content
Content Content
Content Content
Content Content
Target
Title 3
Content Content
Content Content
Content Content
Content Content
Content Content
Target
...
Targets

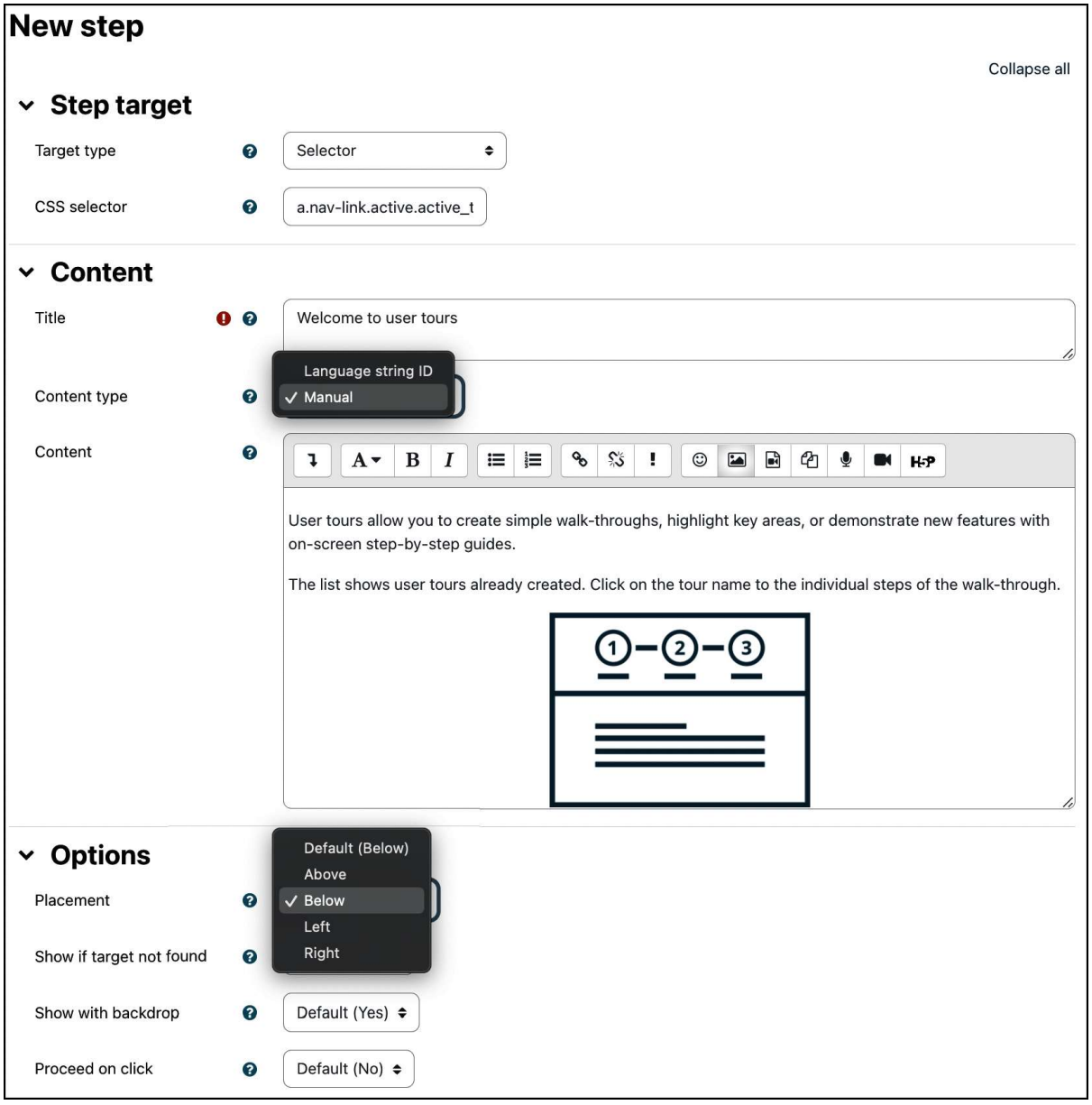

Tours
Name
Tour of Tours
Description
Demonstrate the user tours feature in the user tours!
Apply to URL match
/admin/tool/usertours/%
Tour is enabled
End tour button's label
Thank you!
Display step numbers
Placement
Below
Show if target not found
No
Show with backdrop
Yes
Proceed on click
No
Tour filters
Select the conditions under which the tour will be shown. All of the filters must match for a tour to be shown to a user.
Access date
Enable access date filter
User account creation date within
User's first access date within
User's last access date within
90
days
Category
All
Category 1
Courses
No selection
Search
Course format
All
Single activity format
Social format
Topics format
Role
All
Administrator
Authenticated user
Authenticated user on site home
Theme
All
Boost
Classic
CSS selector

Tour of Tours

This is the 'Tour of Tours' tour. It applies to the path '/admin/tool/usertours/%'.
You can edit the tour defaults and force the tour to be displayed to all users again.

Title	Content	Target	Actions
Welcome to user tours	User tours allow you to create simple walk-throughs, highlight key areas, or demonstrate new features with on-screen step-by-step guides. The list shows user tours already created. Click on the tour name to the individual steps of the walk-through. 	A CSS selector matching 'a.nav-link.active.active_tree_node'	
Adding a tour	To add a new user tour to your Moodle system vou have three options: • **Create a new tour**: Manually create a user tour • **Import a tour**: Load an existing tour from another site • **Tours repository**: Browse the public tours repository, download a tour and import it	Display in middle of page	
Technical termns	There are a couple of technical terms used when working with user tours: • **Step**: A tour comprises of multiple steps • **Matching URL**: Page(s) on which the tour is displayed, including wildcards (%) • **Target**: This is where on the page the step is shown. Target types are Block, CSS Selector, and the Middle of the page	Display in middle of page	

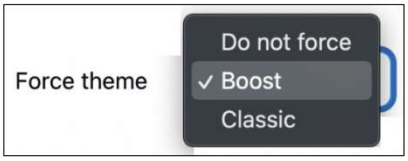
New step

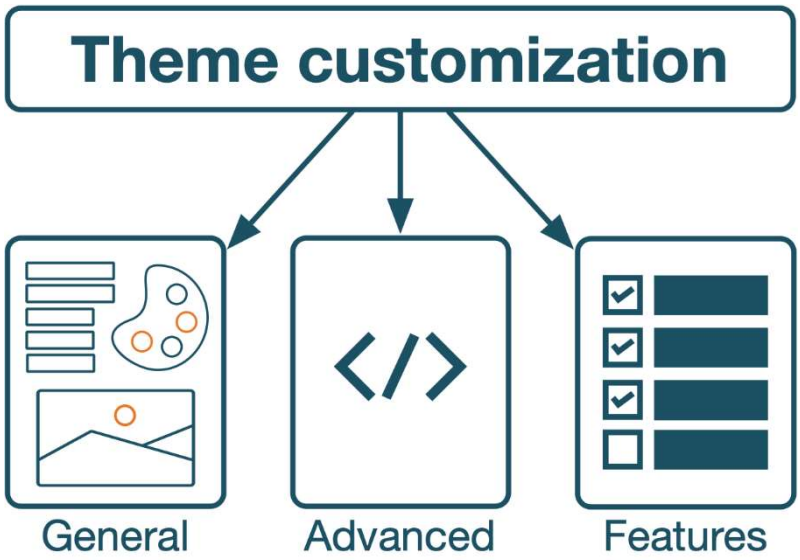


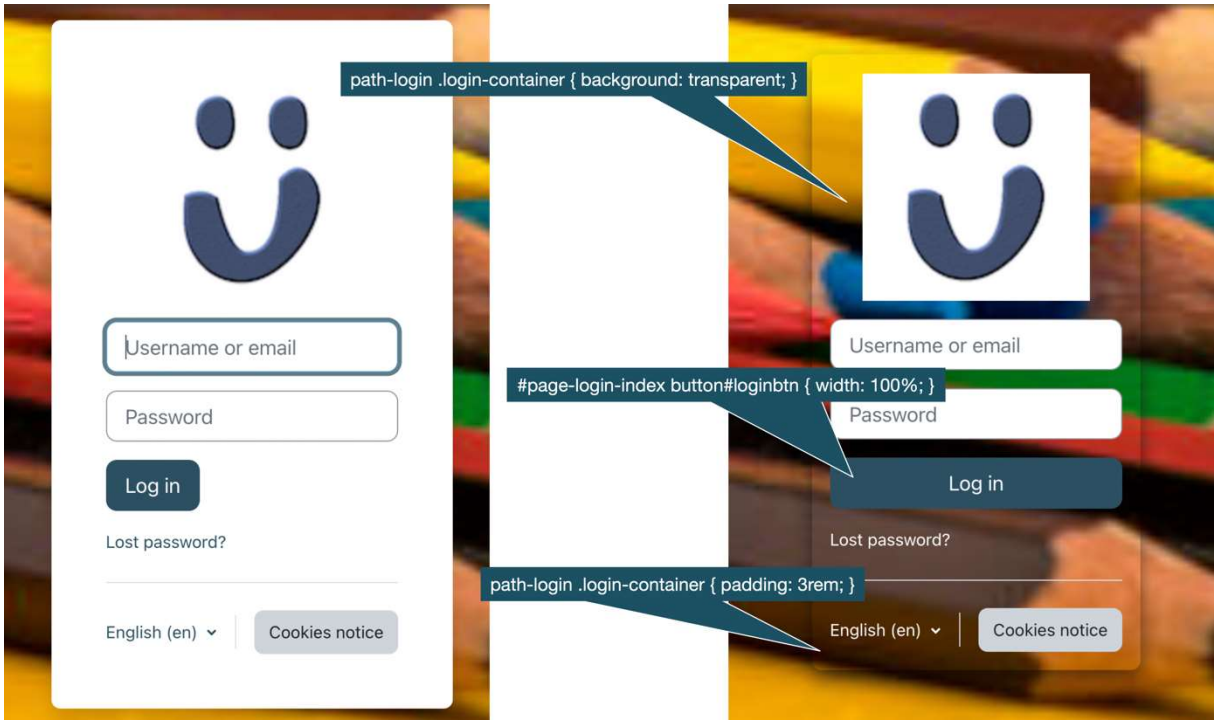
Type	Description	Configuration
Site	Theme is applied throughout the site. Default when you first install Moodle.	Theme selector
User	Personal theme is selected in the user profile and applied throughout the site.	User profile
Cohort	Theme is applied to all cohort members.	Cohort settings
Category	Theme is applied to all courses within the category and all sub-categories.	Category settings
Course	Theme only applies to the course in which it is set.	Course settings
Session	Temporary theme applies until user is logged out. Set via URL (`?theme=x`).	URL
Page	Page themes are set in code. Added for completeness only.	Code

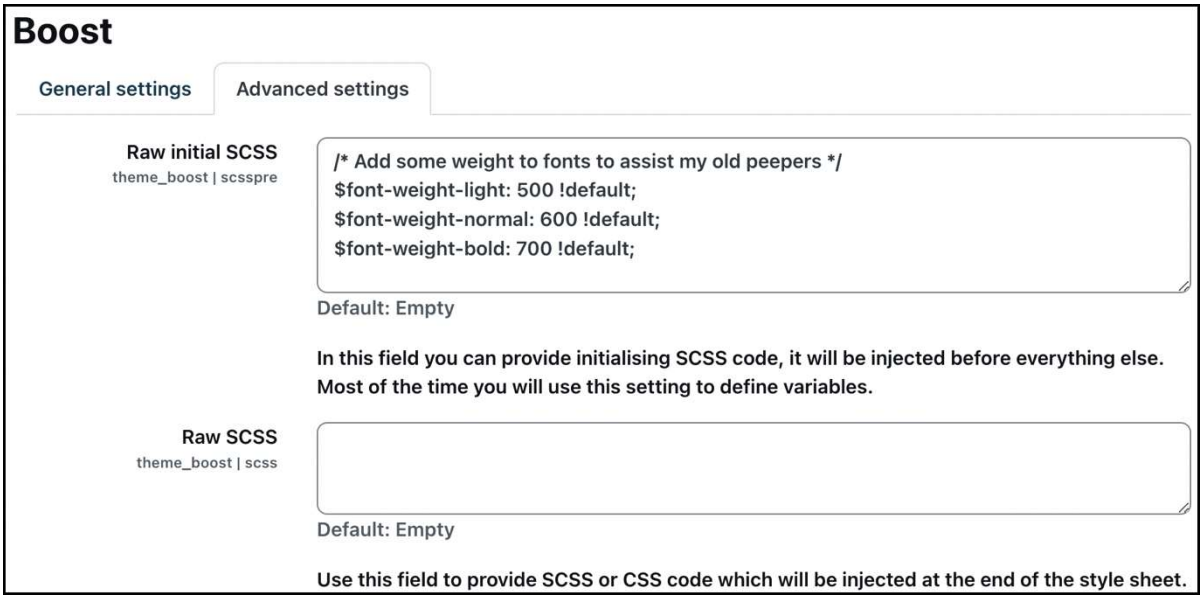


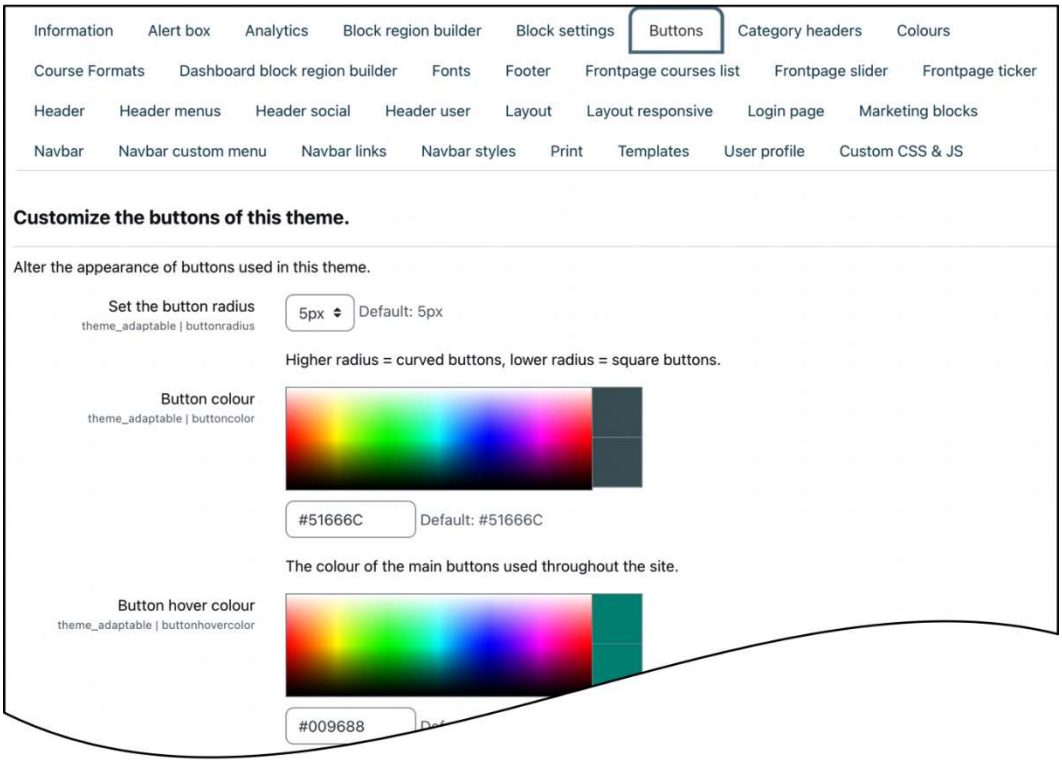


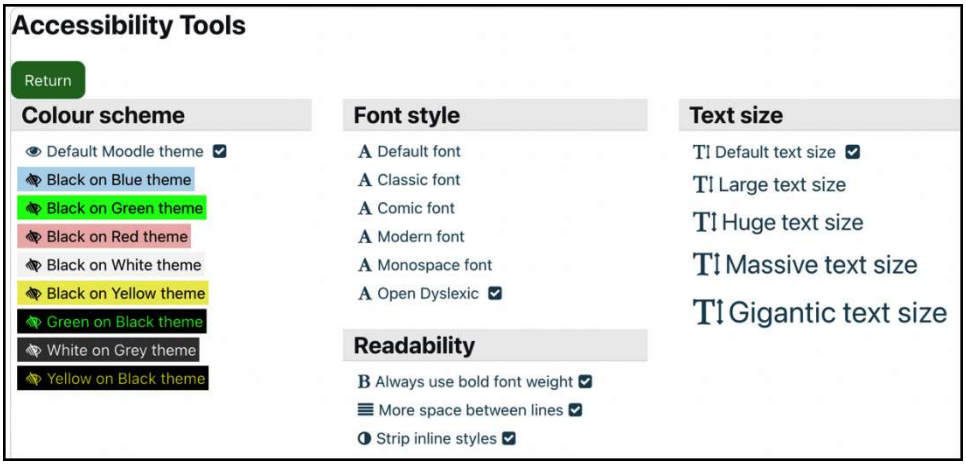


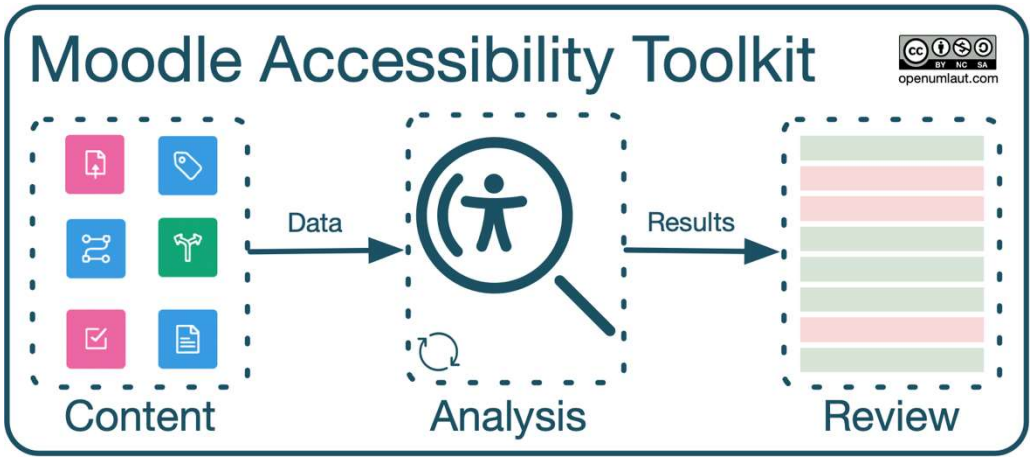

Theme customization
General
Advanced
Features

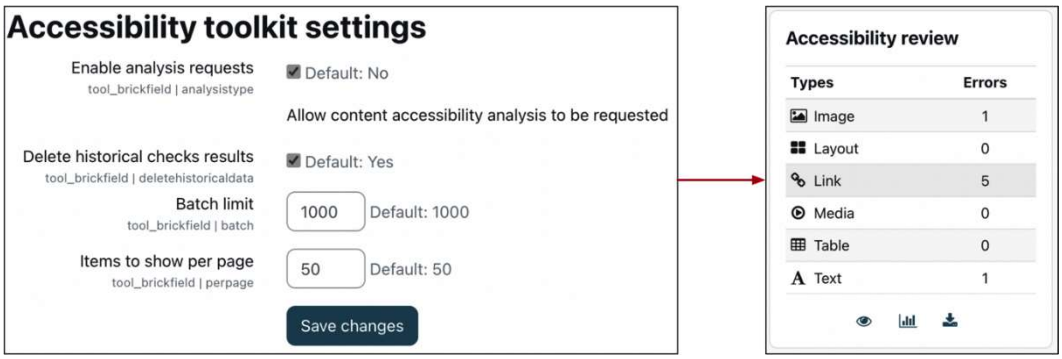

path-login .login-container { background: transparent; }
#page-login-index button#loginbtn { width: 100%; }
path-login .login-container { padding: 3rem; }
Username or email
Password
Log in
Lost password?
English (en)
Cookies notice

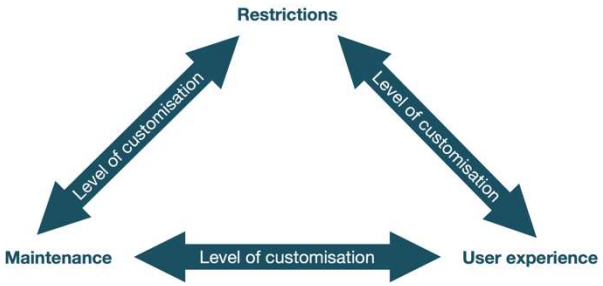

Boost
General settings
Advanced settings
Raw initial SCSS
theme_boost | scsspre
/* Add some weight to fonts to assist my old peepers */
$font-weight-light: 500 !default;
$font-weight-normal: 600 !default;
$font-weight-bold: 700 !default;
Default: Empty
In this field you can provide initialising SCSS code, it will be injected before everything else. Most of the time you will use this setting to define variables.
Raw SCSS
theme_boost | scss
Default: Empty
Use this field to provide SCSS or CSS code which will be injected at the end of the style sheet.


Information
Alert box
Analytics
Block region builder
Block settings
Buttons
Category headers
Colours
Course Formats
Dashboard block region builder
Fonts
Footer
Frontpage courses list
Frontpage slider
Frontpage ticker
Header
Header menus
Header social
Header user
Layout
Layout responsive
Login page
Marketing blocks
Navbar
Navbar custom menu
Navbar links
Navbar styles
Print
Templates
User profile
Custom CSS & JS
Customize the buttons of this theme.
Alter the appearance of buttons used in this theme.
Set the button radius
theme_adaptable | buttonradius
5px
Default: 5px
Higher radius = curved buttons, lower radius = square buttons.
Button colour
theme_adaptable | buttoncolor
#51666C
Default: #51666C
The colour of the main buttons used throughout the site.
Button hover colour
theme_adaptable | buttonhovercolor
#009688

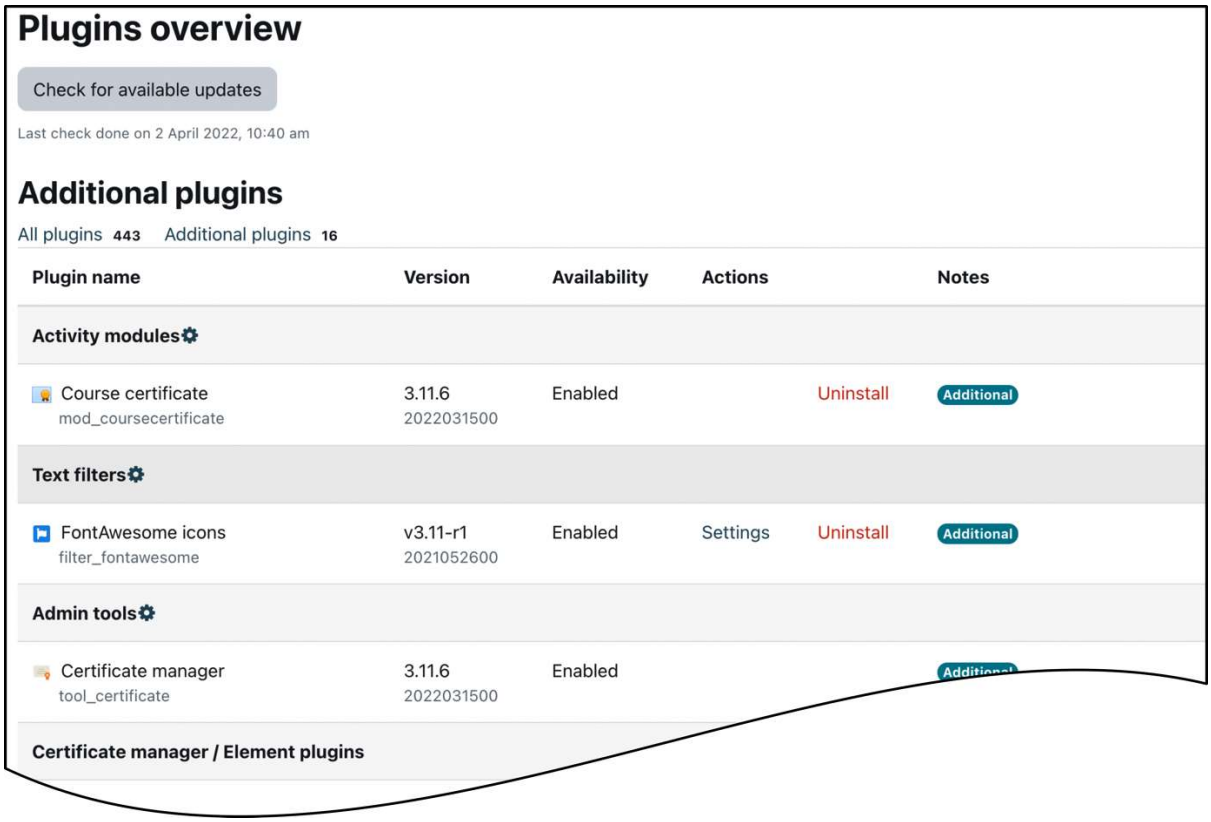

Accessibility Tools
Return
Colour scheme
Default Moodle theme
Black on Blue theme
Black on Green theme
Black on Red theme
Black on White theme
Black on Yellow theme
Green on Black theme
White on Grey theme
Yellow on Black theme
Font style
Default font
Classic font
Comic font
Modern font
Monospace font
Open Dyslexic
Readability
Always use bold font weight
More space between lines
Strip inline styles
Text size
Default text size
Large text size
Huge text size
Massive text size
Gigantic text size

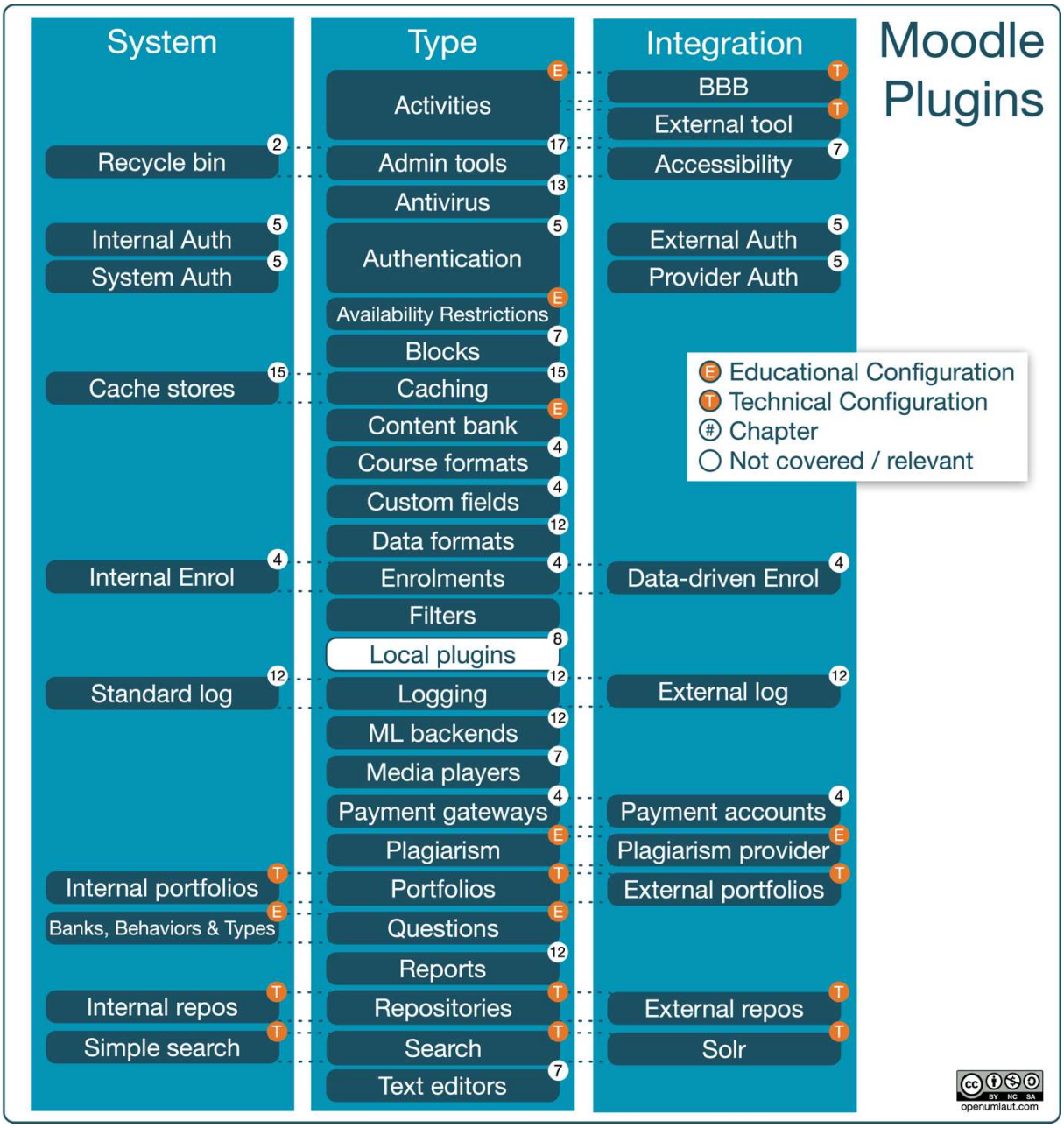

Moodle Accessibility Toolkit
openumlaut.com
Data
Results
Content
Analysis
Review

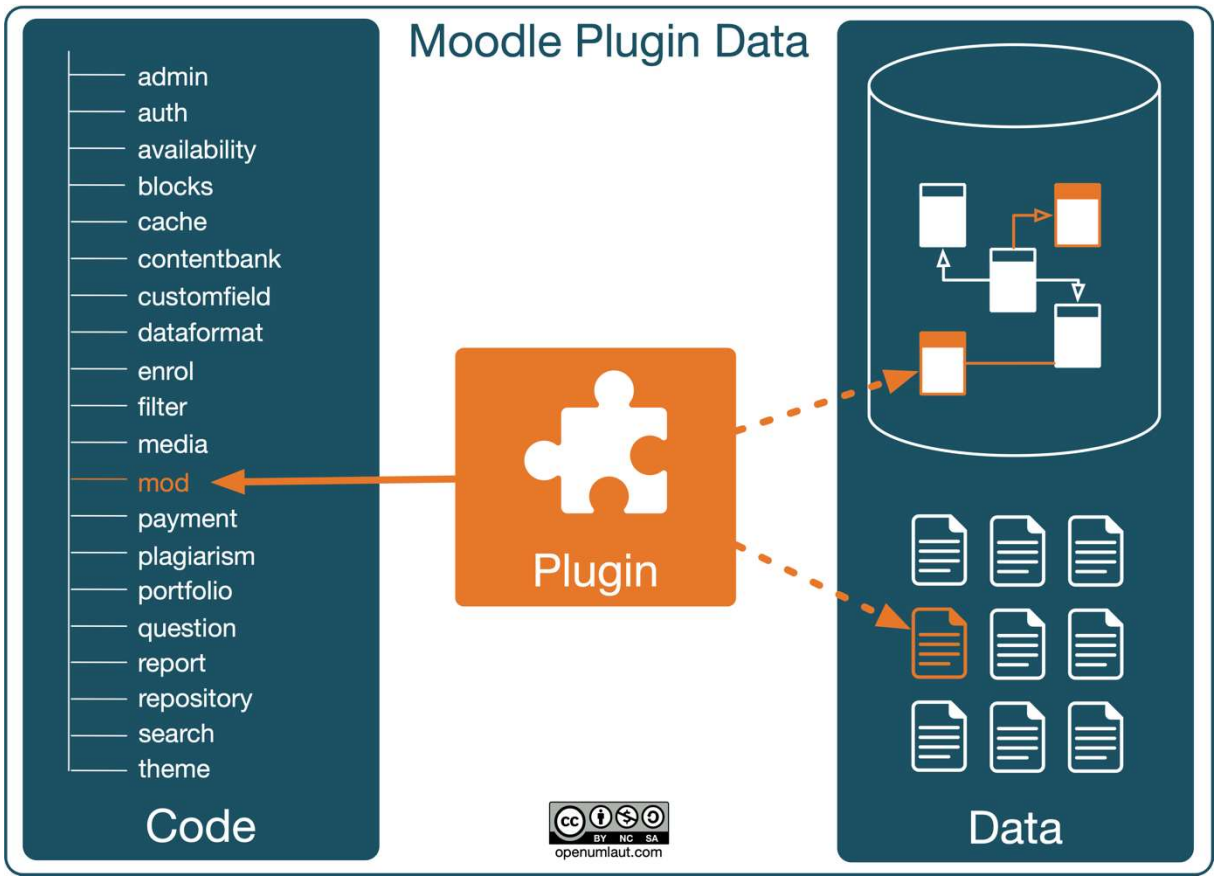

Accessibility toolkit settings
Enable analysis requests
tool_brickfield | analysistype
Default: No
Allow content accessibility analysis to be requested
Delete historical checks results
tool_brickfield | deletehistoricaldata
Default: Yes
Batch limit
tool_brickfield | batch
1000
Default: 1000
Items to show per page
tool_brickfield | perpage
50
Default: 50
Save changes
Accessibility review
Types
Errors
Image 1
Layout 0
Link 5
Media 0
Table 0
Text 1

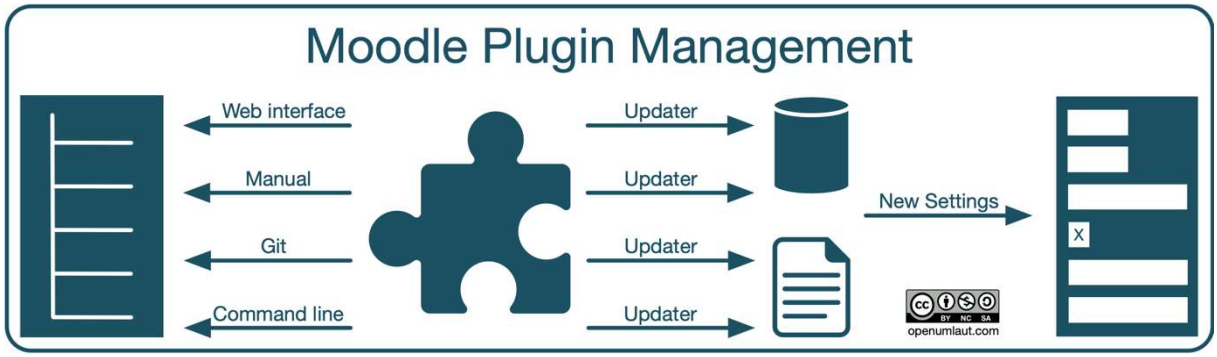

Restrictions
Level of customisation
Level of customisation
Maintenance
Level of customisation
User experience

Chapter 8: Understanding Moodle Plugins




Moodle Plugins
System
Recycle bin 2
Internal Auth 5
System Auth 5
Cache stores 15
Internal Enrol 4
Standard log 12
Internal portfolios T
Banks, Behaviors & Types E
Internal repos T
Simple search T
Type
Activities E
Admin tools 17
Antivirus 13
Authentication 5
Availability Restrictions E
Blocks 7
Caching 15
Content bank E
Course formats 4
Custom fields 4
Data formats 12
Enrolments 4
Filters
Local plugins 8
Logging 12
ML backends 12
Media players 7
Payment gateways 4
Plagiarism E
Portfolios T
Questions E
Reports 12
Repositories T
Search T
Text editors 7
Integration
BBB T
External tool T
Accessibility 7
External Auth 5
Provider Auth 5
Data-driven Enrol 4
External log 12
Payment accounts 4
Plagiarism provider E
External portfolios T
External repos T
Solr T
E Educational Configuration
T Technical Configuration
Chapter
Not covered / relevant
openumlaut.com


Moodle Plugin Data
admin
auth
availability
blocks
cache
contentbank
customfield
dataformat
enrol
filter
media
mod
payment
plagiarism
portfolio
question
report
repository
search
theme
Code
Plugin
Data
openumlaut.com


Moodle Plugin Management
Web interface
Manual
Git
Command line
Updater
Updater
Updater
Updater
New Settings
X
openumlaut.com

Home ▶ Plugins ▶ Activities ▶ Video Time ▶ Description

Video Time

Activities ::: mod_videotime

Release **1.6.1**

Moodle 3.11, 4.0

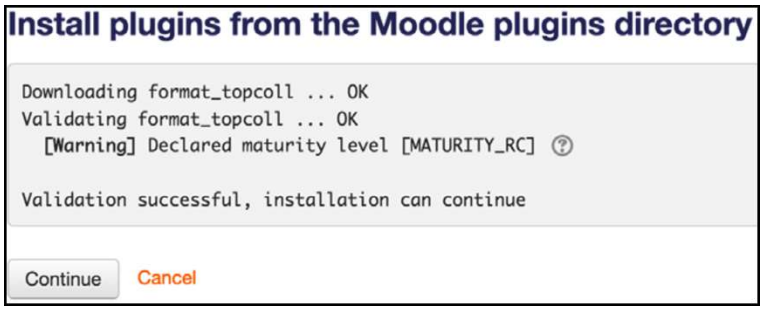
Download

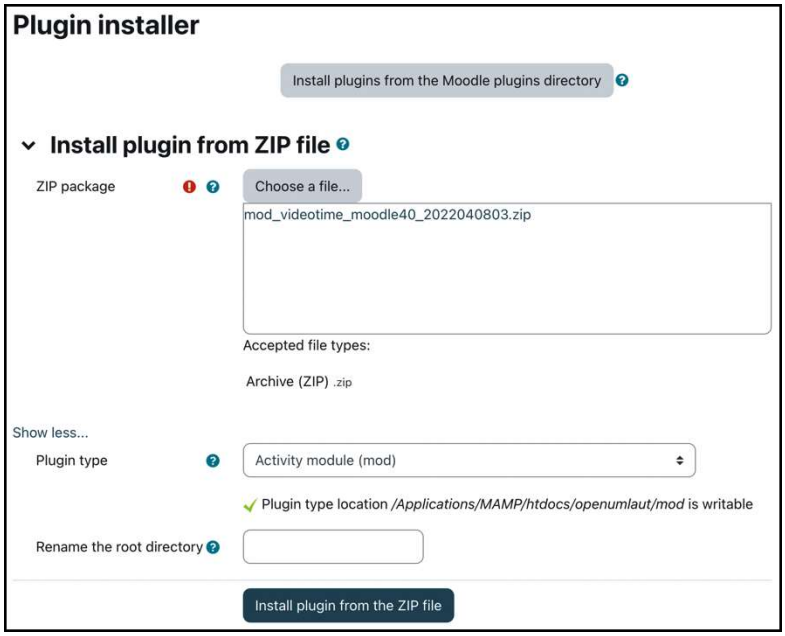
Maintained by Stefan Scholz, bdecent gmbh

code prechecks

Embed videos from Vimeo easily in your course, use activity completion to track videos and much more!

Latest release: 5 months | 1650 sites | 412 downloads | 37 fans





Plugins check

This page displays plugins that may require your attention during the upgrade, such as new plugins to be installed, plugins to be upgraded, missing plugins etc. Additional plugins are displayed if there is an available update for them. It is recommended that you check whether there are more recent versions of plugins available and update their source code before continuing with this Moodle upgrade.

Check for available updates

Last check done on 31 March 2022, 6:26 am

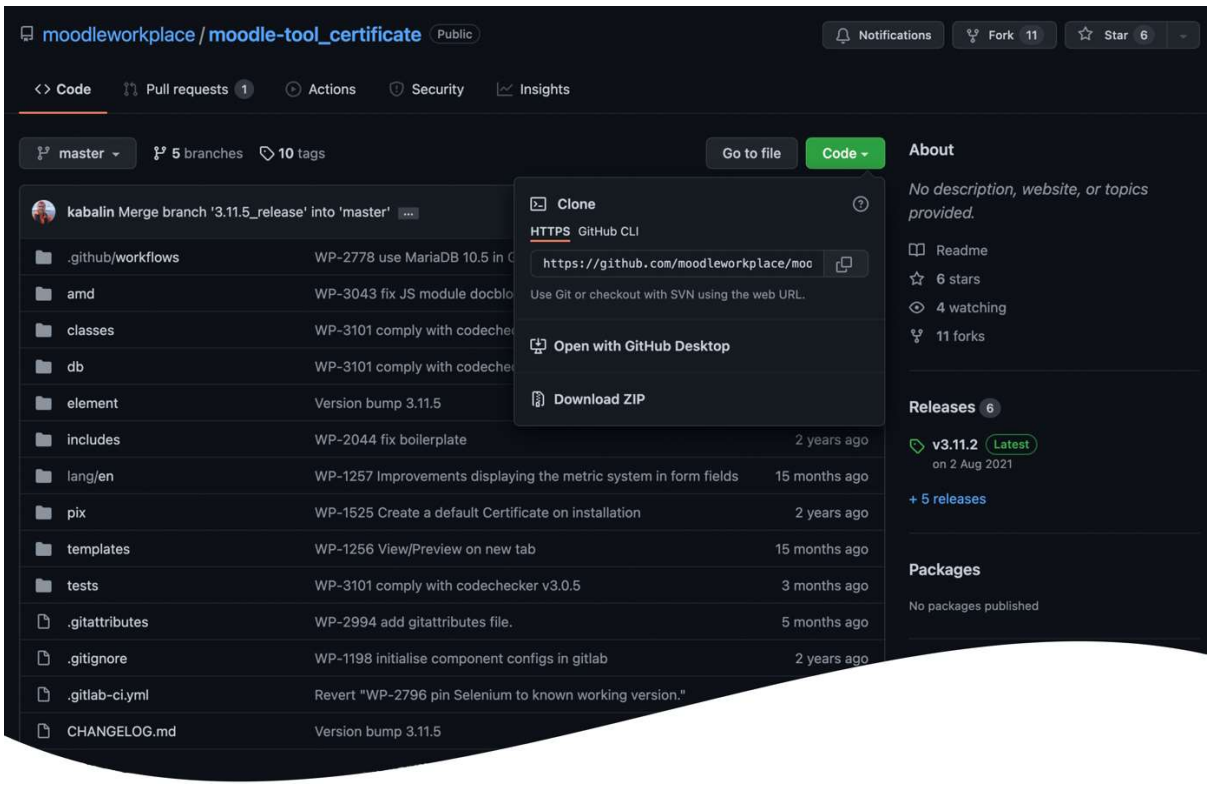
Plugins requiring attention

Cancel new installations (1) | Plugins requiring attention 1 | All plugins 433

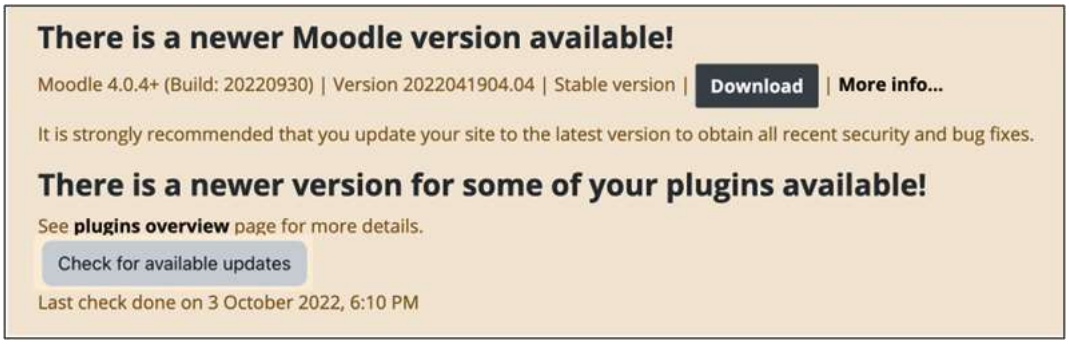
Plugin name / Directory	Current version	New version	Requires	Source / Status
Activity modules				
Zoom meeting /mod/zoom		2022031000	• Moodle 2017051500	Additional To be installed Cancel this installation

Reload

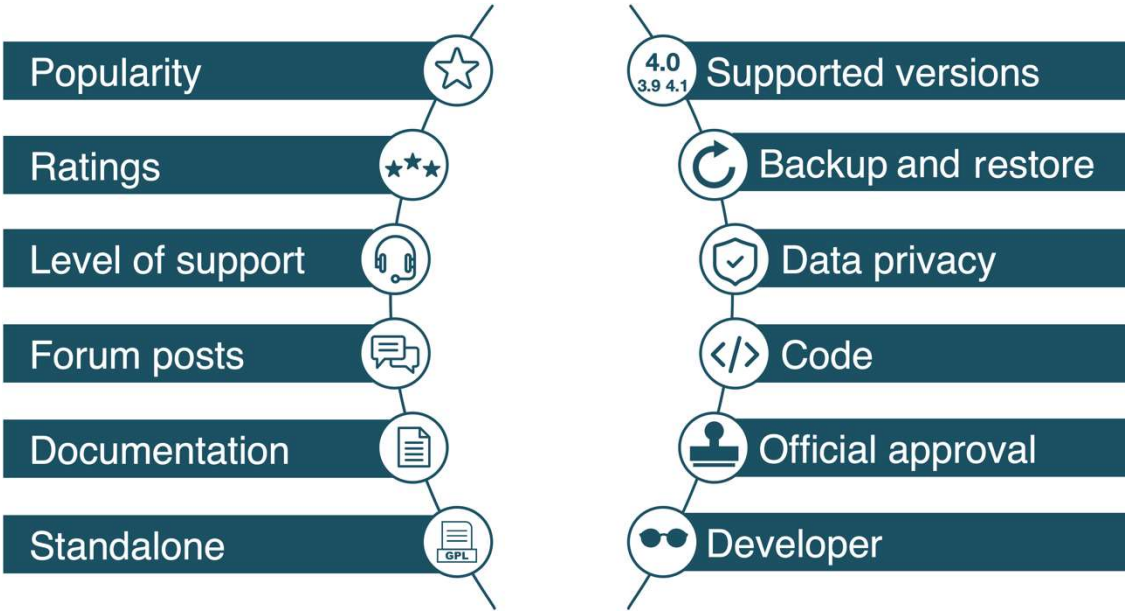
Upgrade Moodle database now



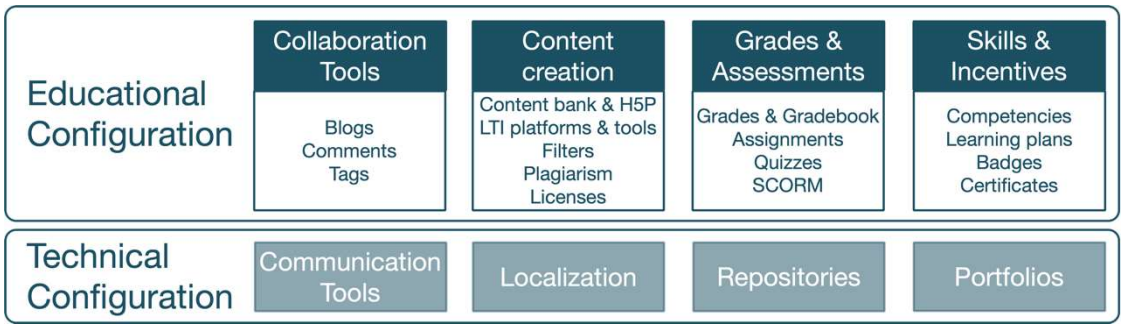

```
root@debian:/var/www/packt/mod# git clone https://github.com/markn86/moodle-mod_certificate.git certificate
Cloning into certificate...
remote: Reusing existing pack: 1979, done.
remote: Total 1979 (delta 0), reused 0 (delta 0)
Receiving objects: 100% (1979/1979), 3.46 MiB | 811 KiB/s, done.
Resolving deltas: 100% (1009/1009), done.
```

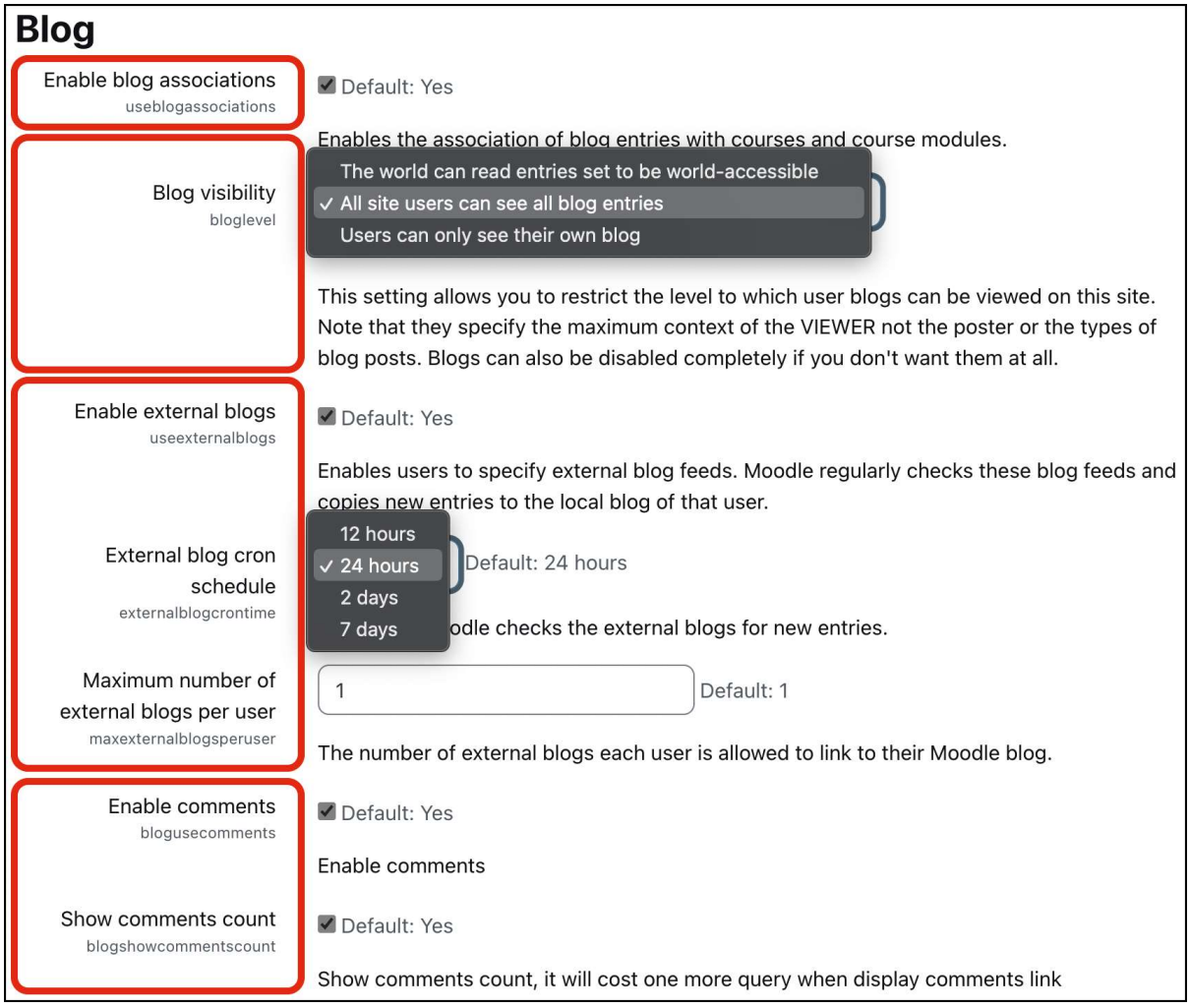


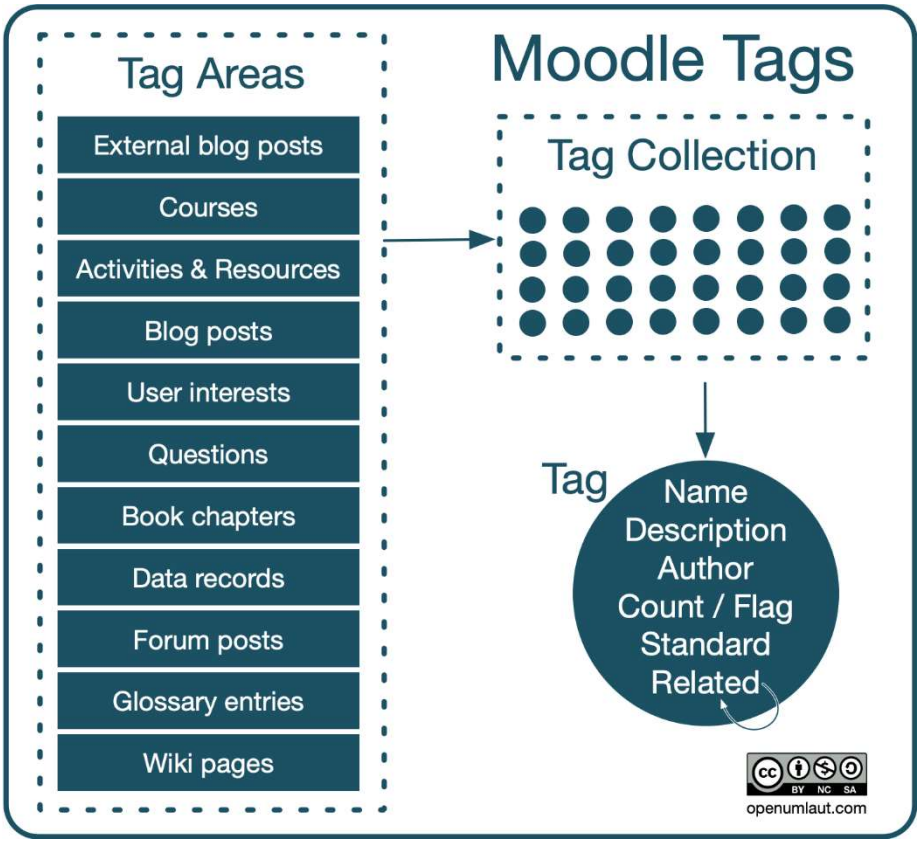
	Plugins from moodle.org	Custom plugins	Management automation	Rollback
Web page (Directory / ZIP)	✓	✗/✓	✗	✗
Manual	✓	✓	✗	✗
Git repository	✓	✓	✓	✓
Command line	✓	✓	✓	✗

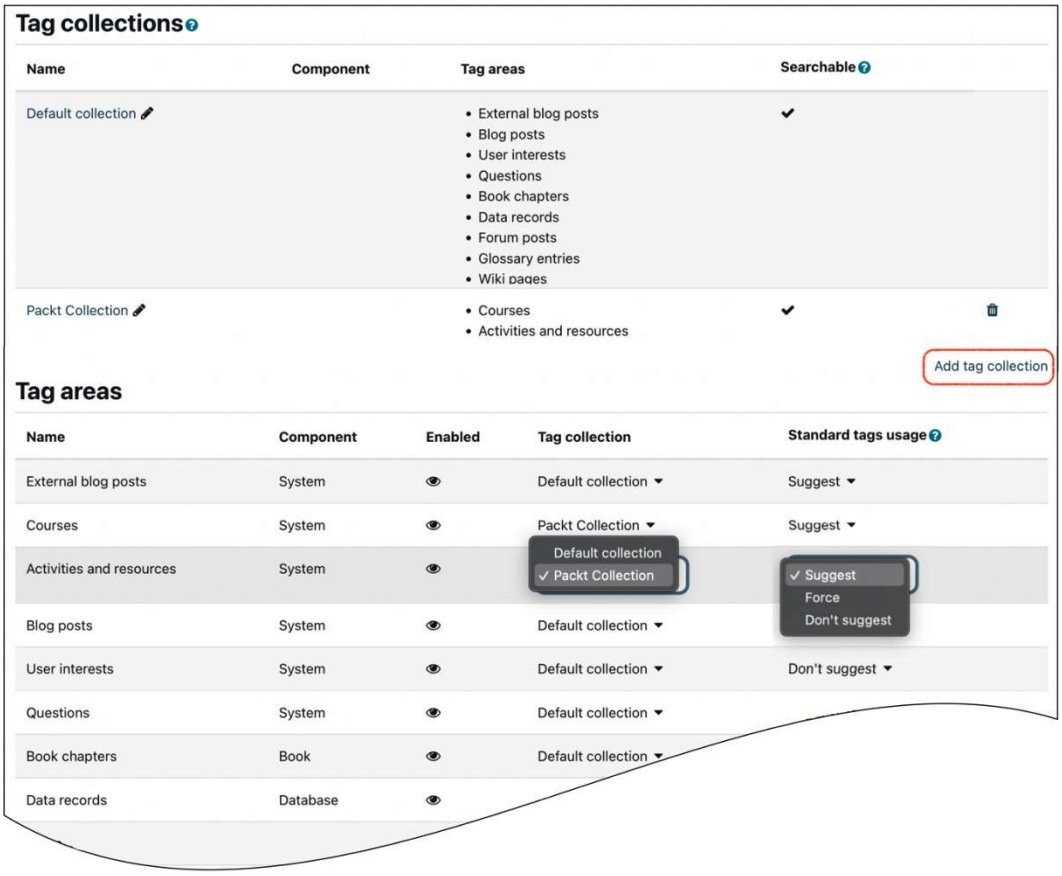


Chapter 9: Configuring Educational Features

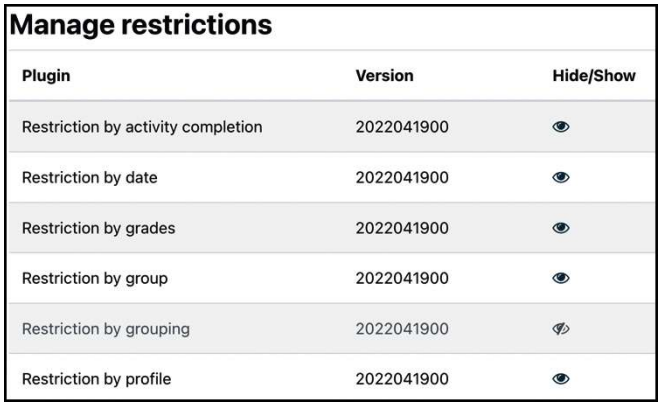


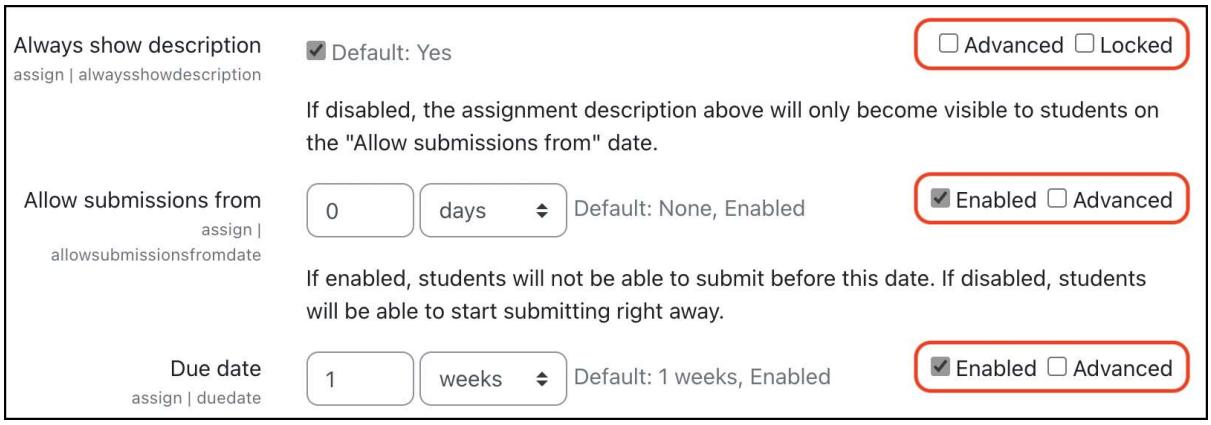


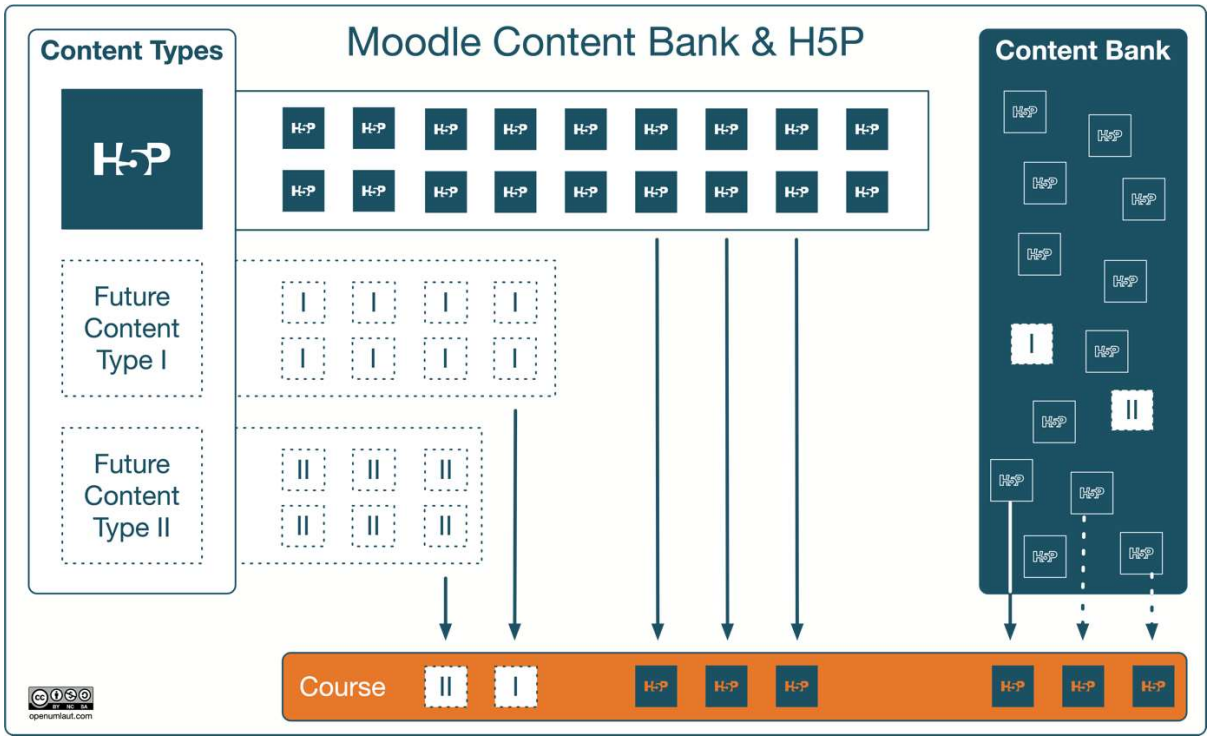

Tag Areas
External blog posts
Courses
Activities & Resources
Blog posts
User interests
Questions
Book chapters
Data records
Forum posts
Glossary entries
Wiki pages
Moodle Tags
Tag Collection
Tag
Name
Description
Author
Count / Flag
Standard
Related
openumlaut.com

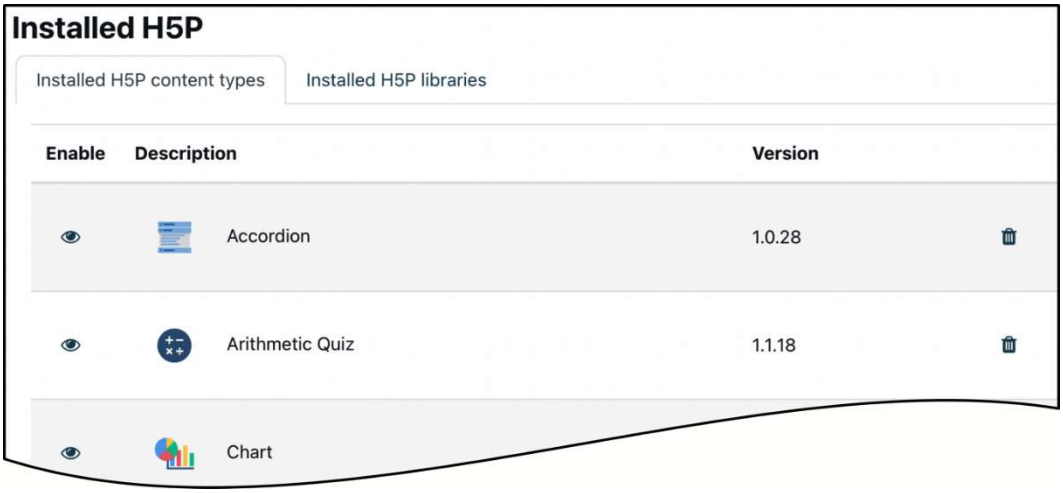

Tag collections
Name
Component
Tag areas
Searchable
Default collection
External blog posts
Blog posts
User interests
Questions
Book chapters
Data records
Forum posts
Glossary entries
Wiki pages
Packt Collection
Courses
Activities and resources
Add tag collection
Tag areas
Name
Component
Enabled
Tag collection
Standard tags usage
External blog posts
System
Default collection
Suggest
Courses
System
Packt Collection
Suggest
Activities and resources
System
Default collection
Packt Collection
Suggest
Force
Don't suggest
Blog posts
System
Default collection
User interests
System
Default collection
Don't suggest
Questions
System
Default collection
Book chapters
Book
Default collection
Data records
Database

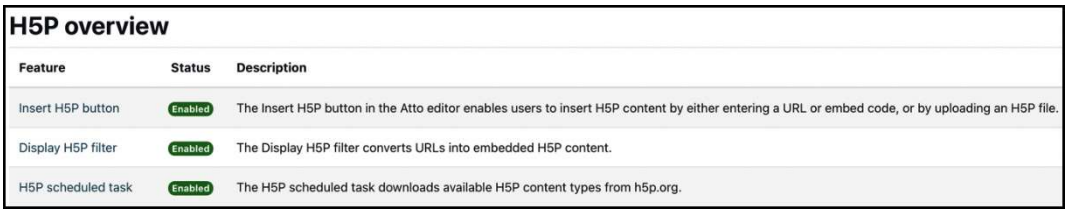

Packt Collection
Search
Reset table preferences
Add standard tags
Select
Tag name
First name / Surname
Count
Flag
Modified
Standard
Moodle
Alex Büchner
4
19 mins 8 secs
Moodle Workplace
Alex Büchner
1
(1)
7 mins 27 secs
Packt
Alex Büchner
1
1 min 19 secs
Delete selected
Combine selected

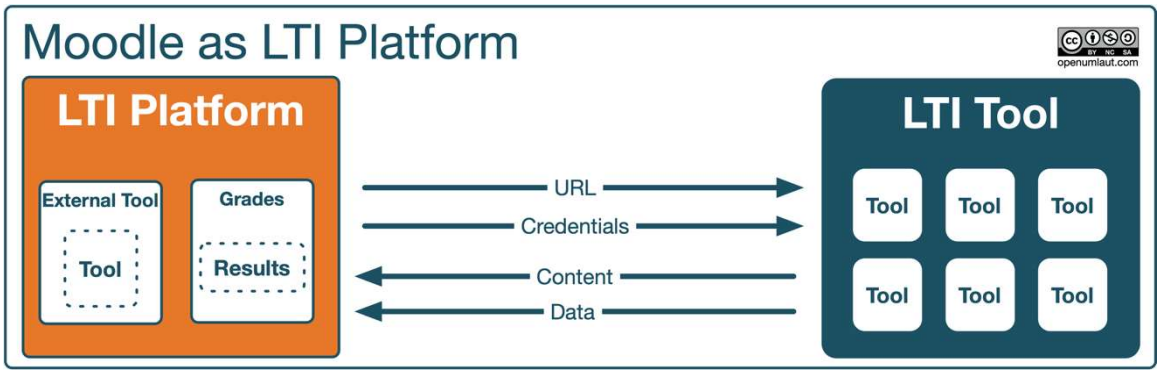

Manage restrictions
Plugin
Version
Hide/Show
Restriction by activity completion
2022041900
Restriction by date
2022041900
Restriction by grades
2022041900
Restriction by group
2022041900
Restriction by grouping
2022041900
Restriction by profile
2022041900


Always show description
assign | alwaysshowdescription
Default: Yes
Advanced
Locked
If disabled, the assignment description above will only become visible to students on the "Allow submissions from" date.
Allow submissions from
assign | allowsubmissionsfromdate
0
days
Default: None, Enabled
Enabled
Advanced
If enabled, students will not be able to submit before this date. If disabled, students will be able to start submitting right away.
Due date
assign | duedate
1
weeks
Default: 1 weeks, Enabled
Enabled
Advanced


Moodle Content Bank & H5P
Content Types
Future Content Type I
Future Content Type II
Content Bank
Course
openumlaut.com


Installed H5P
Installed H5P content types
Installed H5P libraries
Enable
Description
Version
Accordion
1.0.28
Arithmetic Quiz
1.1.18
Chart


H5P overview
Feature
Status
Description
Insert H5P button
Enabled
The Insert H5P button in the Atto editor enables users to insert H5P content by either entering a URL or embed code, or by uploading an H5P file.
Display H5P filter
Enabled
The Display H5P filter converts URLs into embedded H5P content.
H5P scheduled task
Enabled
The H5P scheduled task downloads available H5P content types from h5p.org.



Manage tools

Add tool

Tool URL...

Add LTI Advantage

Add Legacy LTI

Alternatively, you can configure a tool manually.

Manage preconfigured tools

Manage external tool registrations

Tools

First 1 Last

Active

Robotest

More details on robotest.theedtech.dev

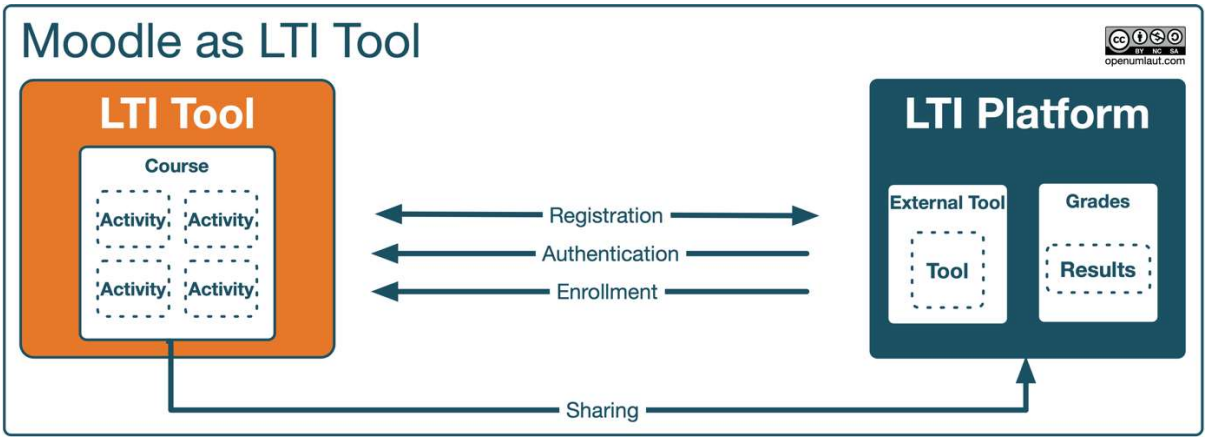
This tool has not yet been used

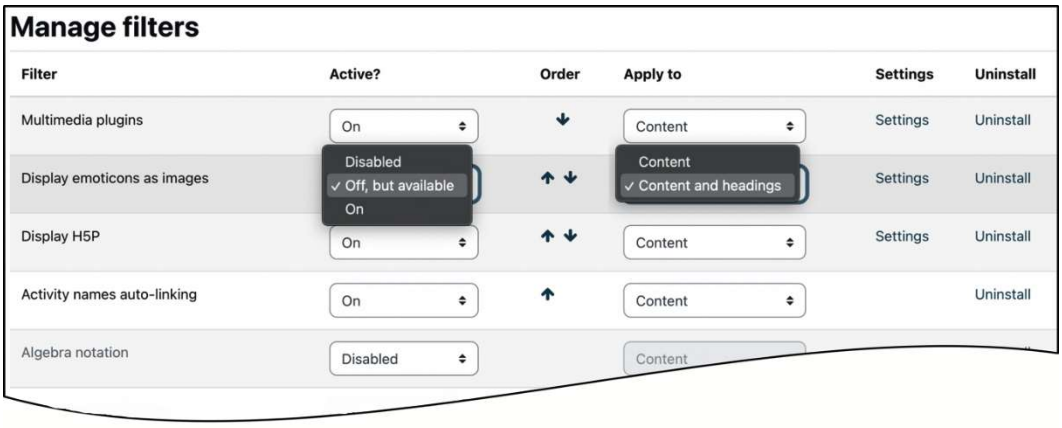
Active

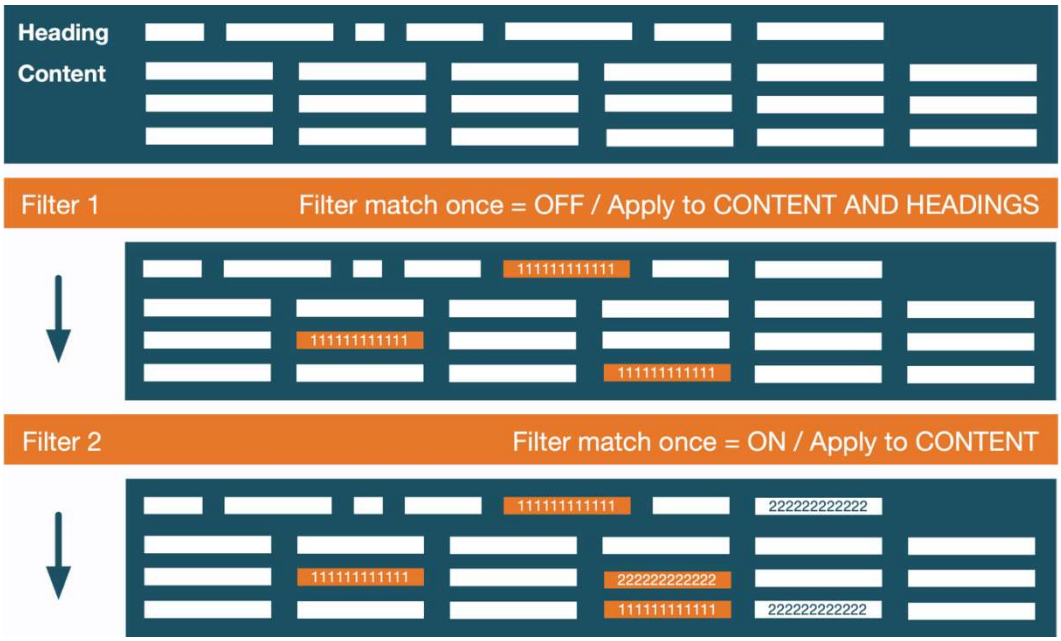
saLTIre

saLTIre tool from the ceLTIc project.

This tool is being used 1 times


Moodle as LTI Tool
openumlaut.com
LTI Tool
Course
Activity
Activity
Activity
Activity
Registration
Authentication
Enrollment
LTI Platform
External Tool
Tool
Grades
Results
Sharing

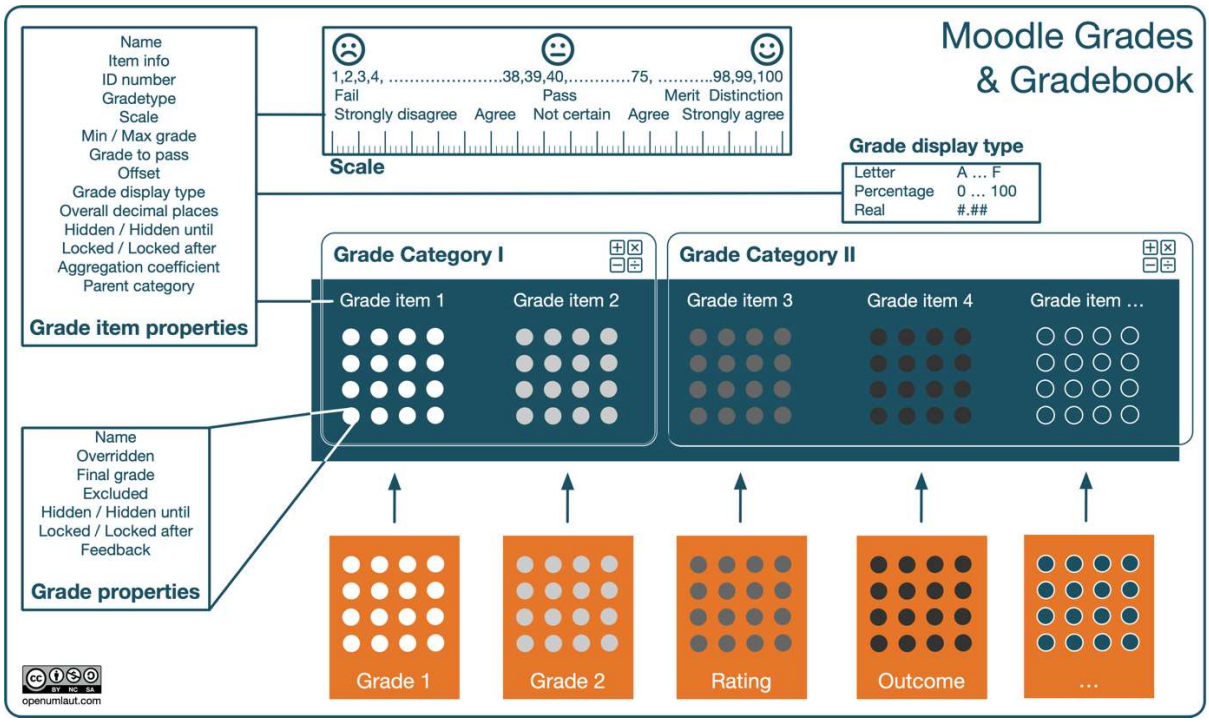

Manage filters
Filter
Active?
Order
Apply to
Settings
Uninstall
Multimedia plugins
On
Content
Settings
Uninstall
Display emoticons as images
Disabled
Off, but available
On
Content
Content and headings
Settings
Uninstall
Display H5P
On
Content
Settings
Uninstall
Activity names auto-linking
On
Content
Uninstall
Algebra notation
Disabled
Content

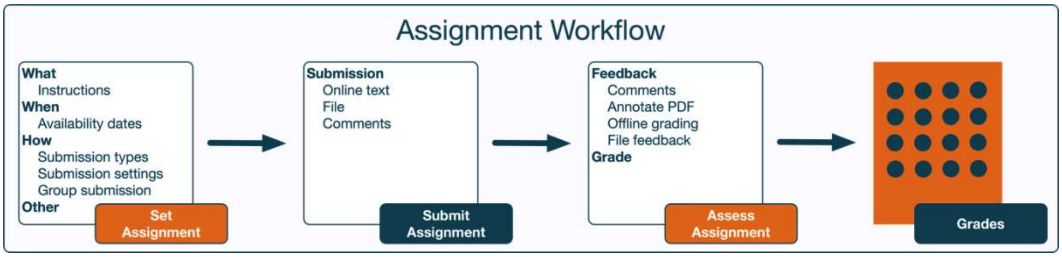

Heading
Content
Filter 1
Filter match once = OFF / Apply to CONTENT AND HEADINGS
111111111111
111111111111
111111111111
Filter 2
Filter match once = ON / Apply to CONTENT
111111111111
222222222222
111111111111
222222222222
111111111111
222222222222

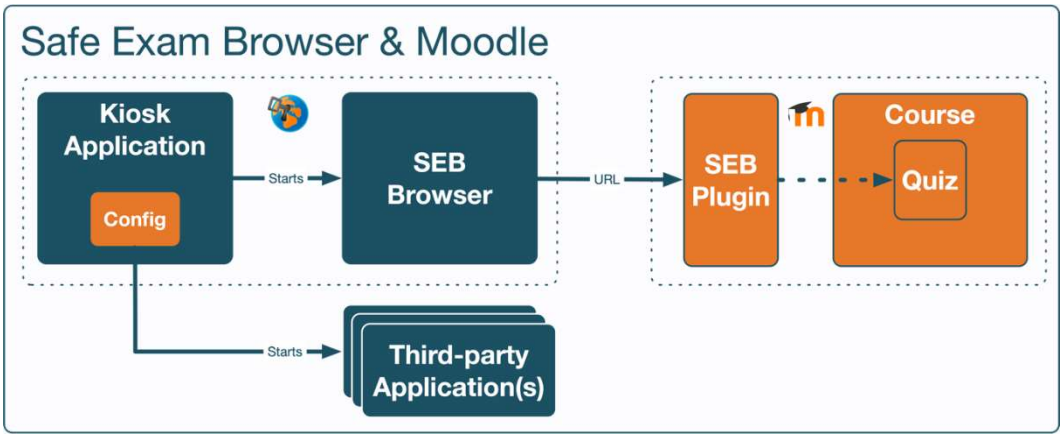
License manager

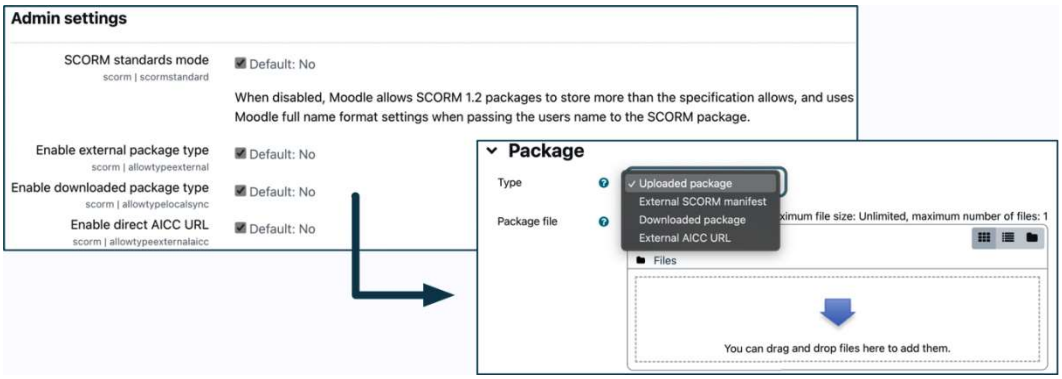
Create license

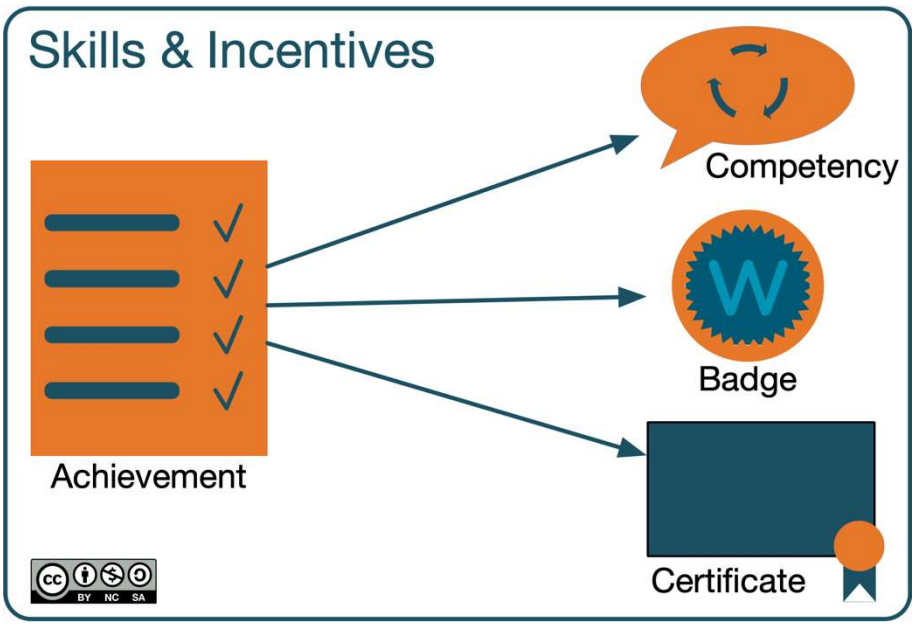
Enable	License	Version	Order	Edit	Delete
👁	License not specified (unknown)	2010033100	↓		
🔒	All rights reserved (allrightsreserved) https://en.wikipedia.org/wiki/All_rights_reserved	2010033100	↑ ↓		
👁	Public domain (public) https://en.wikipedia.org/wiki/Public_domain	2010033100	↑ ↓		
👁	Creative Commons (cc) https://creativecommons.org/licenses/by/3.0/	2010033100	↑ ↓		
👁	Creative Commons - NoDerivs (cc-nd) https://creativecommons.org/licenses/by-nd/3.0/	2010033100	↑ ↓		
👁	Creative Commons - No Commercial NoDerivs (cc-nc-nd) https://creativecommons.org/licenses/by-nc-nd/3.0/	2010033100	↑ ↓		
👁	Creative Commons - No Commercial (cc-nc) https://creativecommons.org/licenses/by-nc/3.0/	2010033100	↑ ↓		
👁	Creative Commons - No Commercial ShareAlike (cc-nc-sa) https://creativecommons.org/licenses/by-nc-sa/3.0/	2010033100	↑ ↓		
👁	Creative Commons - ShareAlike (cc-sa) https://creativecommons.org/licenses/by-sa/3.0/	2010033100	↑		

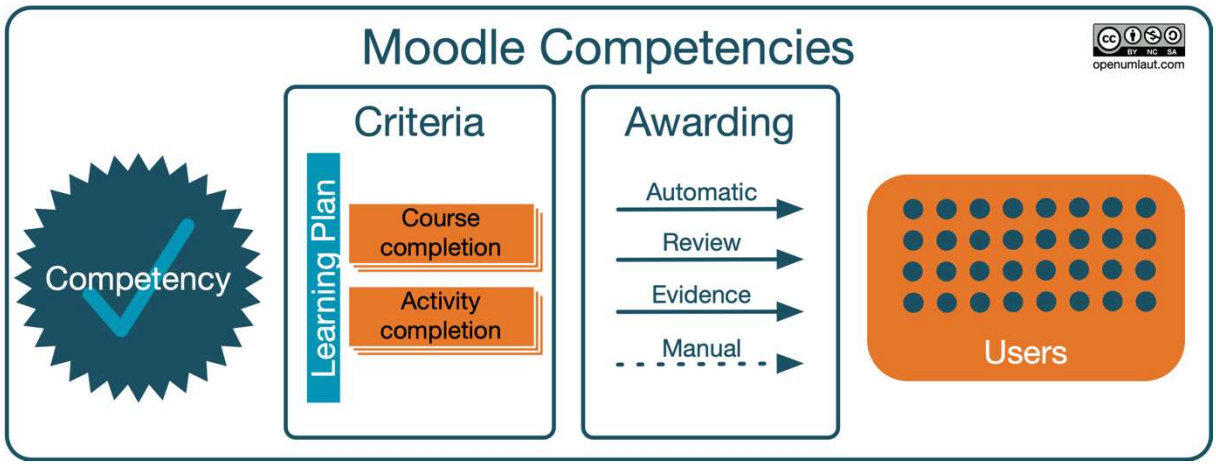





Safe Exam Browser & Moodle
Kiosk Application
Config
Starts
SEB Browser
URL
SEB Plugin
Course
Quiz
Starts
Third-party Application(s)


Admin settings
SCORM standards mode
scorm | scormstandard
Default: No
When disabled, Moodle allows SCORM 1.2 packages to store more than the specification allows, and uses Moodle full name format settings when passing the users name to the SCORM package.
Enable external package type
scorm | allowtypeexternal
Default: No
Enable downloaded package type
scorm | allowtypelocalsync
Default: No
Enable direct AICC URL
scorm | allowtypeexternalaicc
Default: No
Package
Type
Uploaded package
External SCORM manifest
Downloaded package
External AICC URL
Package file
Files
You can drag and drop files here to add them.


Skills & Incentives
Competency
Badge
Achievement
Certificate
BY NC SA



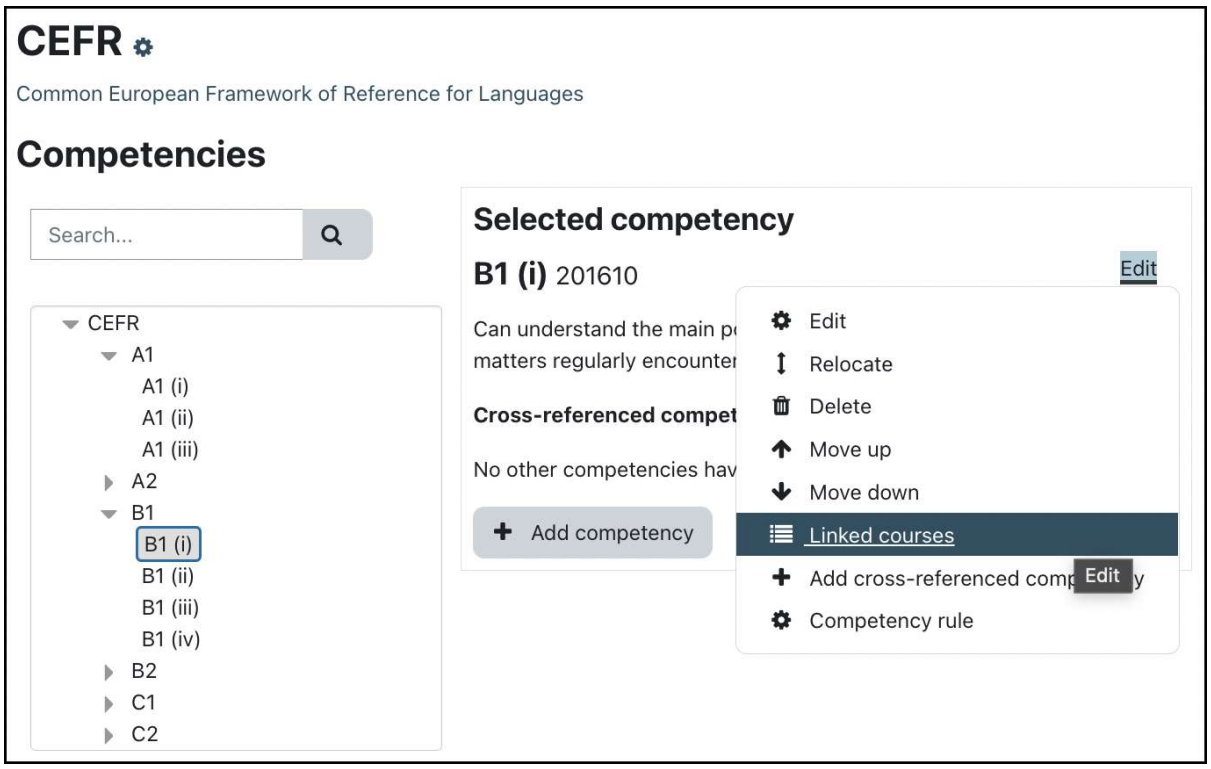
Competency frameworks

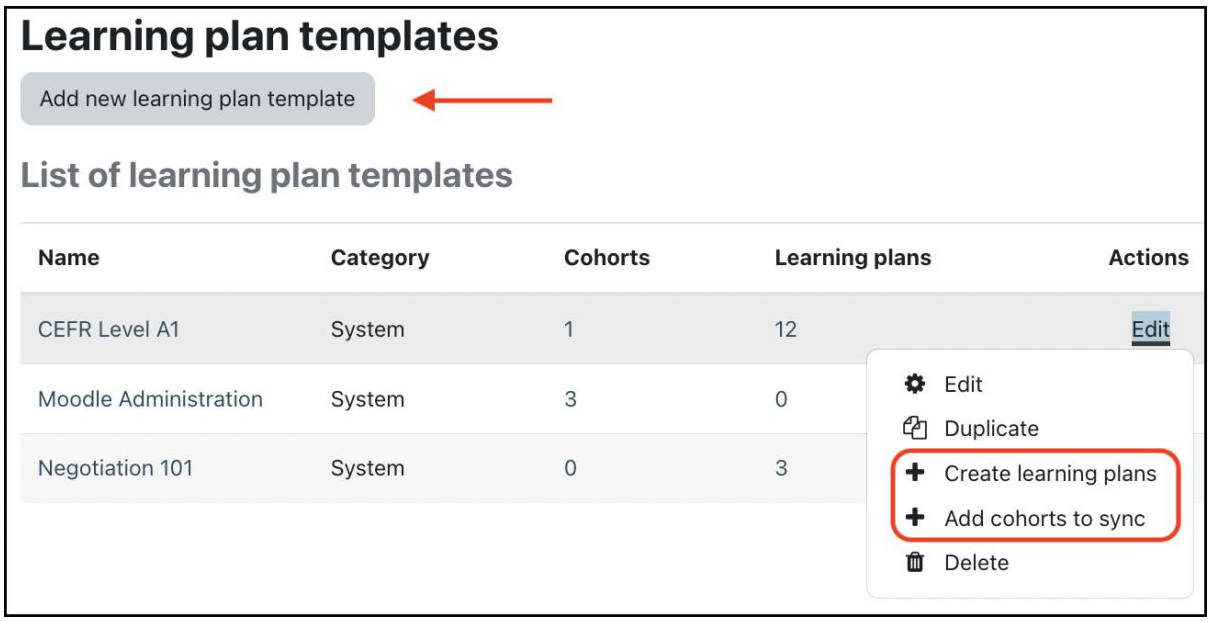
Add new competency framework | Competency frameworks repository

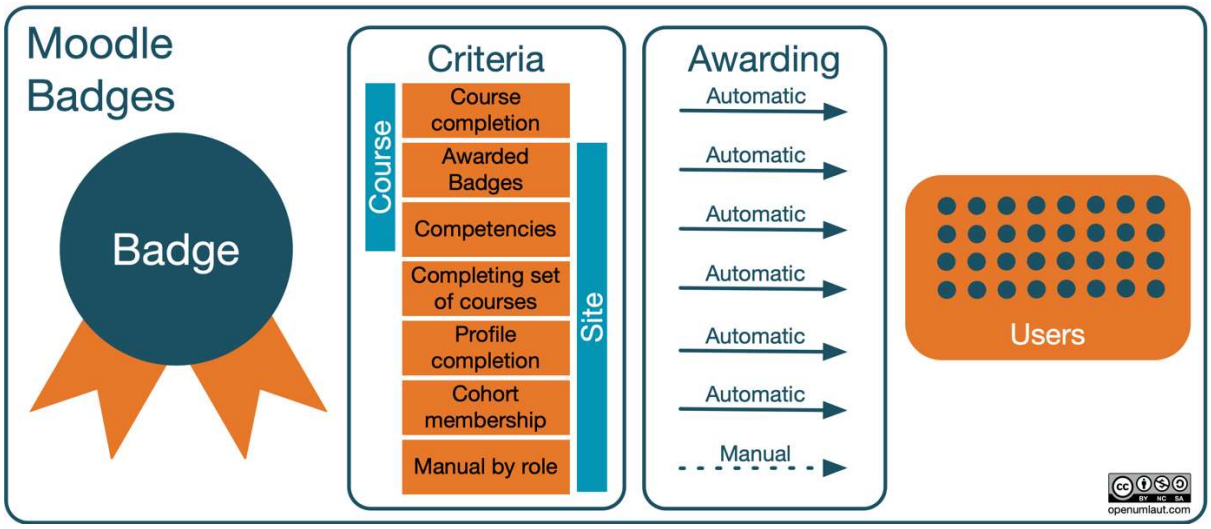
List of competency frameworks

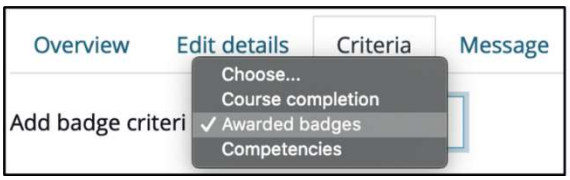
Name	Competencies	Category	Actions
CEFR (2016)	26	System	Edit

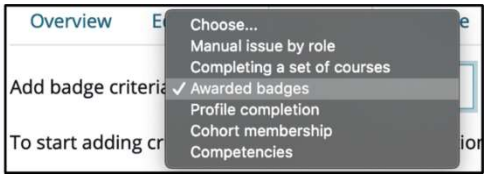
Edit
Duplicate
Delete

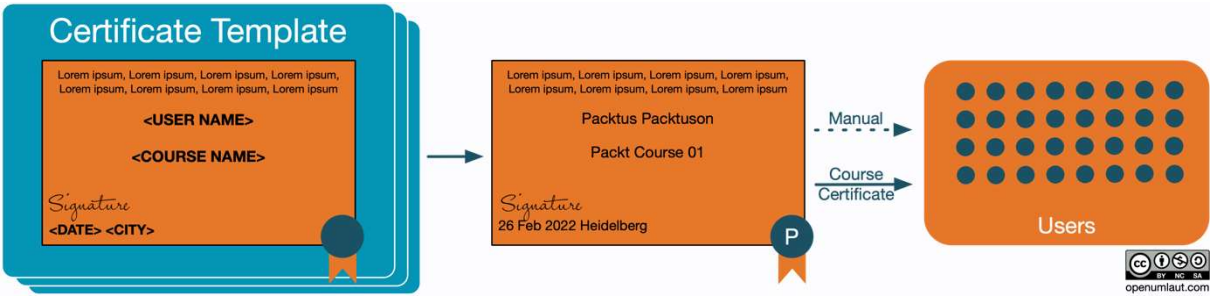

CEFR
Common European Framework of Reference for Languages
Competencies
Search...
CEFR
A1
A1 (i)
A1 (ii)
A1 (iii)
A2
B1
B1 (i)
B1 (ii)
B1 (iii)
B1 (iv)
B2
C1
C2
Selected competency
B1 (i) 201610
Edit
Can understand the main p
matters regularly encounter
Cross-referenced compet
No other competencies hav
Add competency
Edit
Relocate
Delete
Move up
Move down
Linked courses
Add cross-referenced comp
Edit
Competency rule

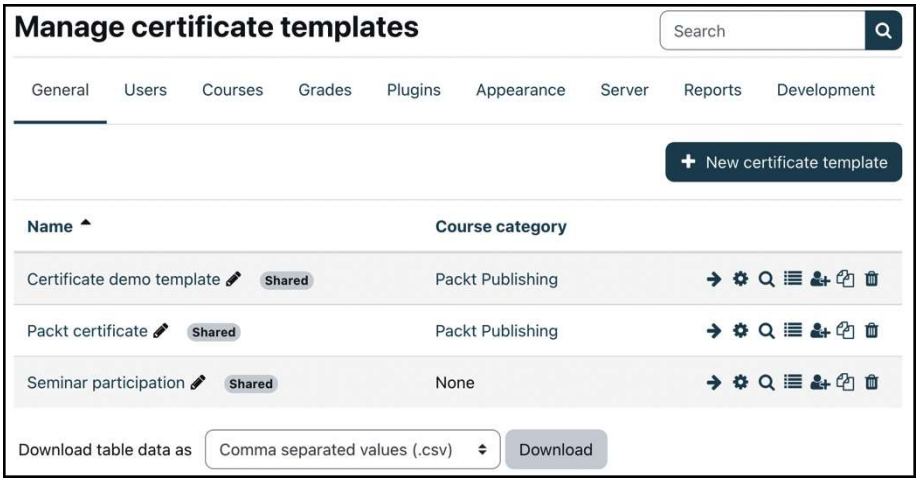

Learning plan templates
Add new learning plan template
List of learning plan templates
Name
Category
Cohorts
Learning plans
Actions
CEFR Level A1
System
1
12
Edit
Moodle Administration
System
3
0
Negotiation 101
System
0
3
Edit
Duplicate
Create learning plans
Add cohorts to sync
Delete

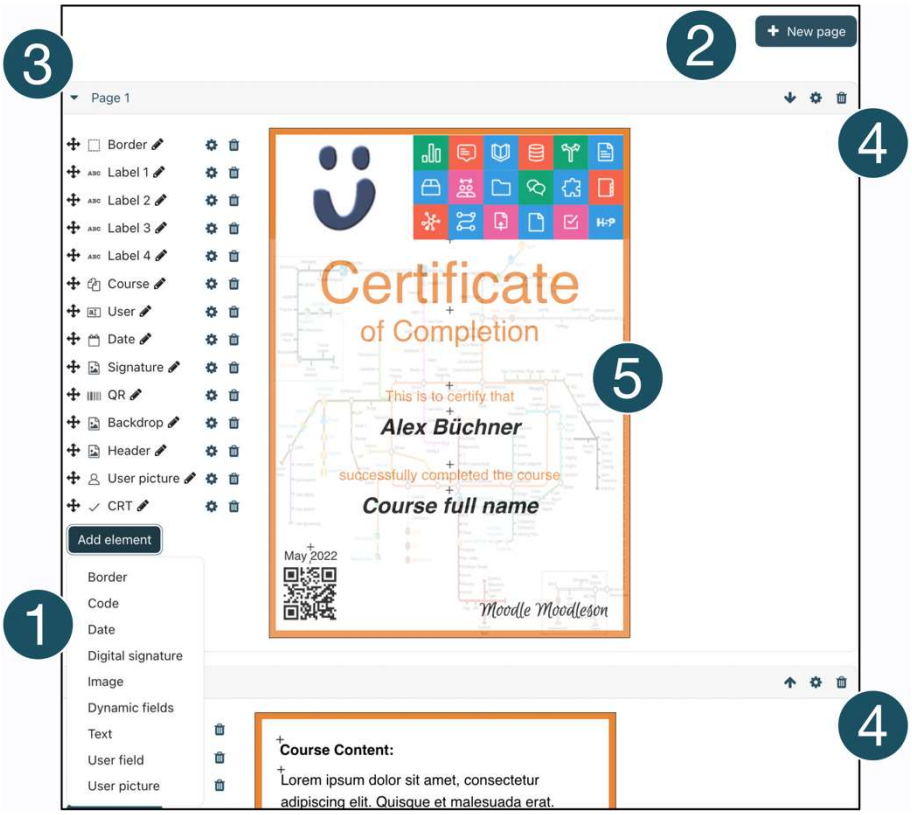

Moodle Badges
Badge
Criteria
Course
Course completion
Awarded Badges
Competencies
Completing set of courses
Profile completion
Cohort membership
Manual by role
Site
Awarding
Automatic
Automatic
Automatic
Automatic
Automatic
Automatic
Manual
Users
openumlaut.com

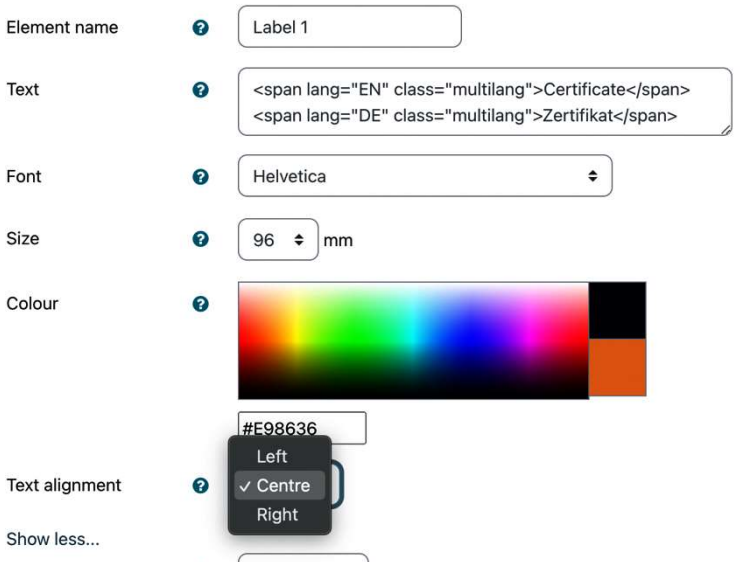

Overview
Edit details
Criteria
Message
Add badge criteri
Choose...
Course completion
Awarded badges
Competencies


Overview
Add badge criteria
To start adding cr
Choose...
Manual issue by role
Completing a set of courses
Awarded badges
Profile completion
Cohort membership
Competencies


Certificate Template
Lorem ipsum, Lorem ipsum, Lorem ipsum, Lorem ipsum, Lorem ipsum, Lorem ipsum, Lorem ipsum, Lorem ipsum
<USER NAME>
<COURSE NAME>
Signature
<DATE> <CITY>
Lorem ipsum, Lorem ipsum, Lorem ipsum, Lorem ipsum, Lorem ipsum, Lorem ipsum, Lorem ipsum, Lorem ipsum
Packtus Packtuson
Packt Course 01
Signature
26 Feb 2022 Heidelberg
P
Manual
Course Certificate
Users
openumlaut.com


Manage certificate templates
Search
General
Users
Courses
Grades
Plugins
Appearance
Server
Reports
Development
New certificate template
Name
Course category
Certificate demo template
Shared
Packt Publishing
Packt certificate
Shared
Packt Publishing
Seminar participation
Shared
None
Download table data as
Comma separated values (.csv)
Download


3
2
New page
Page 1
4
Border
Label 1
Label 2
Label 3
Label 4
Course
User
Date
Signature
QR
Backdrop
Header
User picture
CRT
Add element
Certificate
of Completion
5
This is to certify that
Alex Büchner
successfully completed the course
Course full name
May 2022
Moodle Moodleson
1
Border
Code
Date
Digital signature
Image
Dynamic fields
Text
User field
User picture
4
Course Content:
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Quisque et malesuada erat.


Element name
Label 1
Text
Certificate
Zertifikat
Font
Helvetica
Size
96
mm
Colour
#E98636
Text alignment
Left
Centre
Right
Show less...
Position X
105
mm
Position Y
65
mm
Width
0
mm

Code 1642973257AB

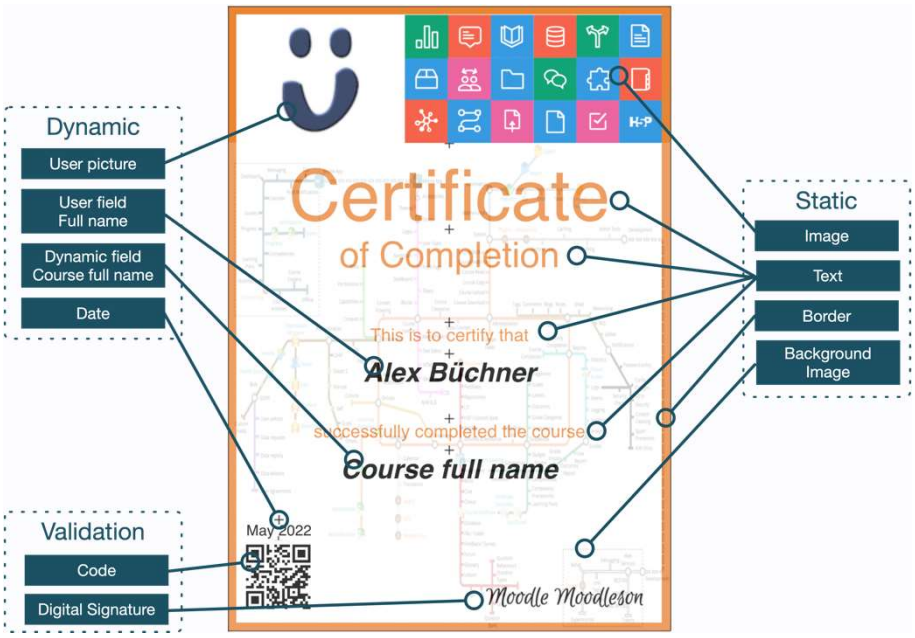
Verify

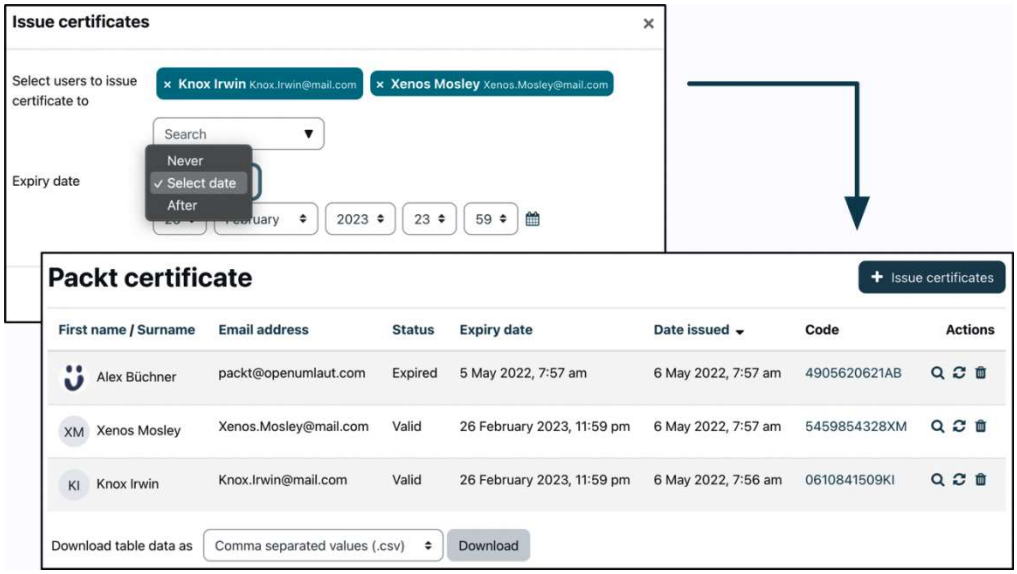
There are required fields in this form marked .

This certificate is valid

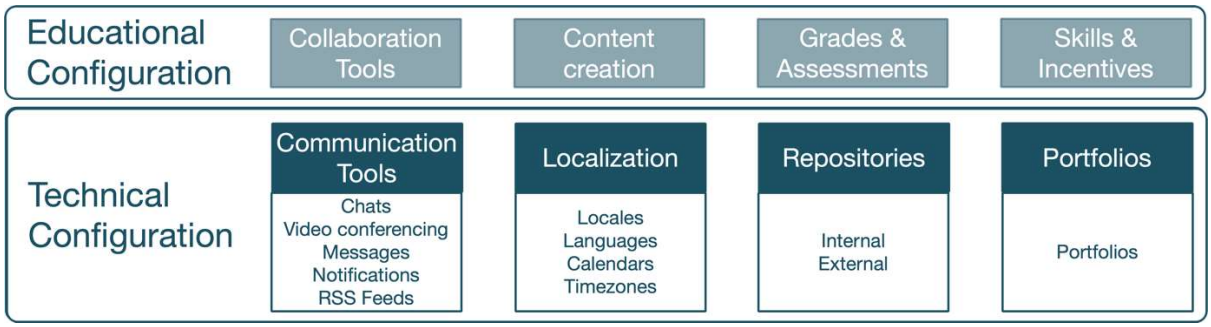
Full name	Alex Büchner
Certificate	Packt certificate
Date issued	6 May 2022, 6:08 am
Expiry date	Never
Status	Valid

View certificate




Issue certificates
Select users to issue certificate to
Knox Irwin Knox.Irwin@mail.com
Xenos Mosley Xenos.Mosley@mail.com
Search
Expiry date
Never
Select date
After
February
2023
23
59
Packt certificate
Issue certificates
First name / Surname
Email address
Status
Expiry date
Date issued
Code
Actions
Alex Büchner
packt@openumlaut.com
Expired
5 May 2022, 7:57 am
6 May 2022, 7:57 am
4905620621AB
XM
Xenos Mosley
Xenos.Mosley@mail.com
Valid
26 February 2023, 11:59 pm
6 May 2022, 7:57 am
5459854328XM
KI
Knox Irwin
Knox.Irwin@mail.com
Valid
26 February 2023, 11:59 pm
6 May 2022, 7:56 am
0610841509KI
Download table data as
Comma separated values (.csv)
Download

Chapter 10: Configuring Technical Features



06:37 Moodle Admin Rookie Moodle Admin Rookie has just entered this chat
06:37 Alex Büchner Alex Büchner has just entered this chat

Tell me about the different **chat methods** in Moodle.

06:38 Moodle Admin Rookie

06:38 Alex Büchner

The chat module works out of the box and without any configuration using **Ajax** (default) or in **Normal** mode. However, both methods create a significant load on the server in large installations or when chat rooms are used intensively.

06:38 Alex Büchner

To rectify this, the activity supports a chat server daemon, which has to be configured. To set up of the daemon navigate to **Plugins | Activity modules | Chat**.

OK, can you tell me more about that chat server demon?

06:38 Moodle Admin Rookie

06:38 Alex Büchner

Daemon, not demon!

06:38 Alex Büchner

To make use of a chat server daemon, you will have to change **Chat method** to—you guessed it—**Chat server daemon**. The daemon, usually called **chatd**, has to run in the background on your Unix system (it does not work on Windows servers). This might either be a PHP script or an executable. The **Refresh userlist** (the interval that's used to update a user list) and **Disconnect timeout** (the time without connection after which a user is treated as disconnected) parameters are common for all chat methods and might have to be adjusted if you experience connection issues.

06:38 Alex Büchner

The chat server daemon-specific settings require a **Server name**, the **Server ip address**, and **Server port** that is used by **chatd**. These can be on the same system as Moodle or, for better performance, on a separate or dedicated server. The Max users parameter specifies the maximum number of users who can use a chat simultaneously.

OK

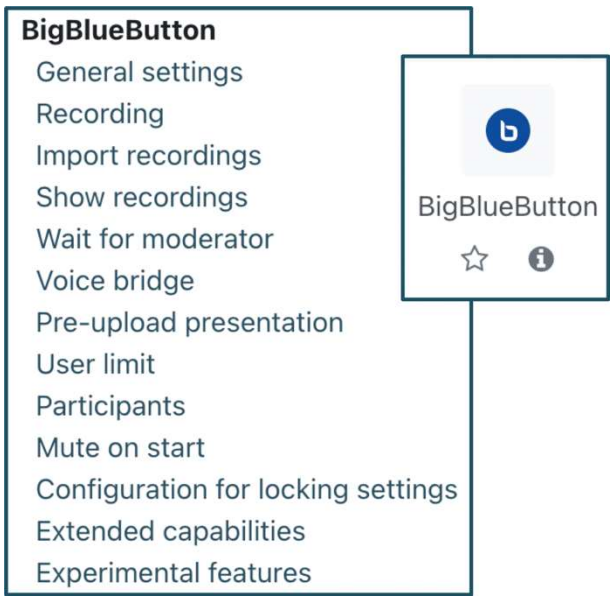
06:39 Moodle Admin Rookie

06:39 Alex Büchner

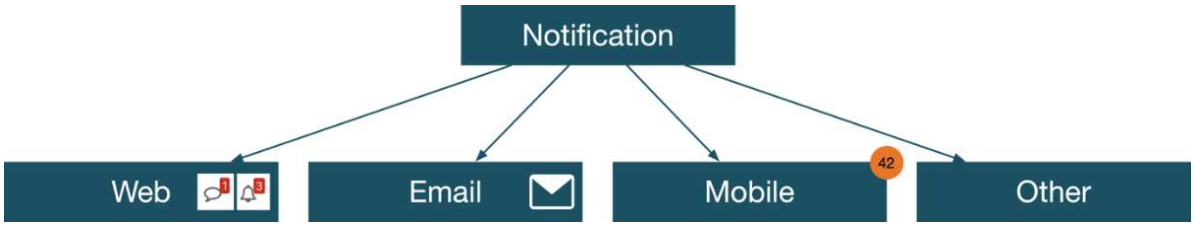
An alternative method to the chat daemon is the use of a stream to update conversations in the **Normal** chat method. However, Apache has to be configured to support this update method.

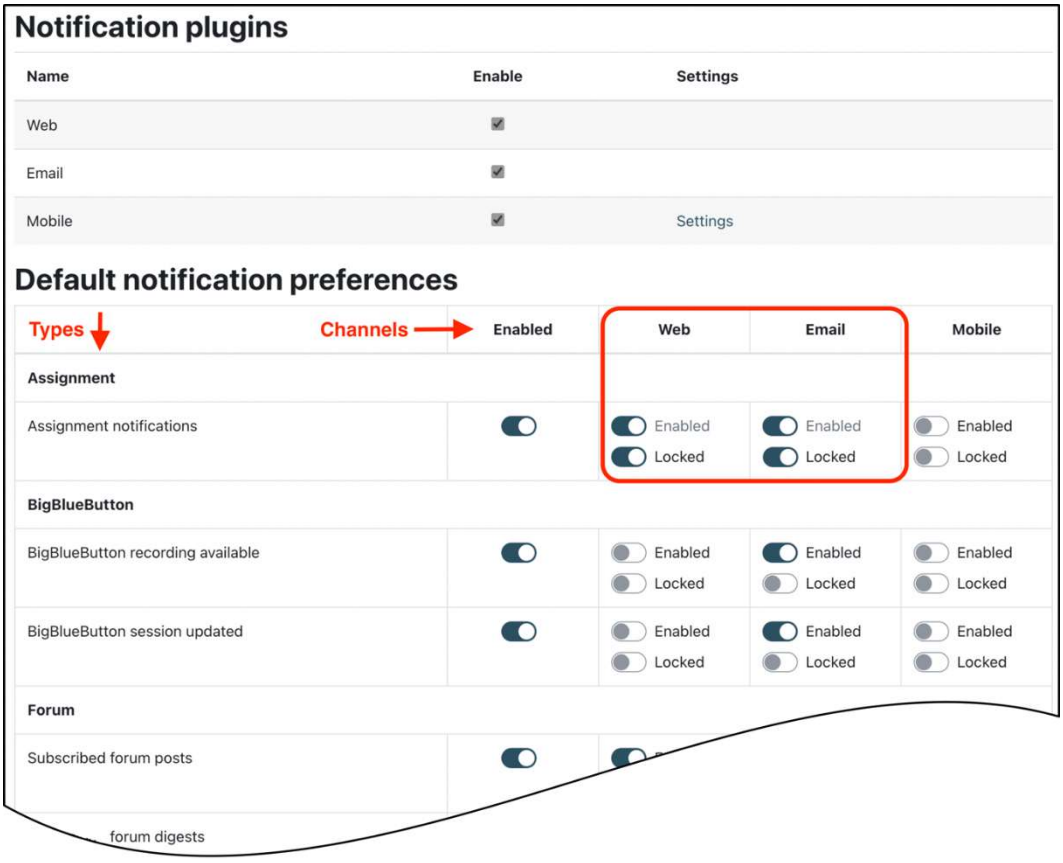
Thank you!

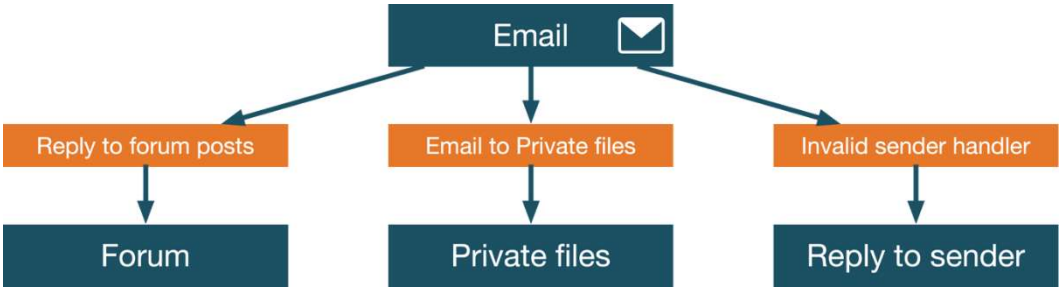
06:39 Moodle Admin Rookie

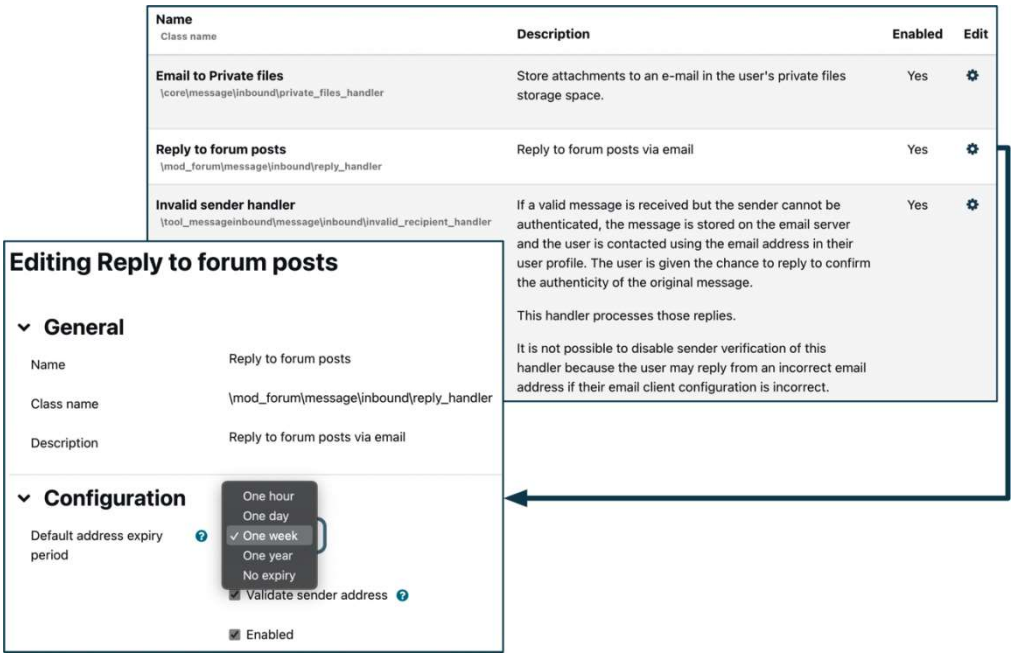


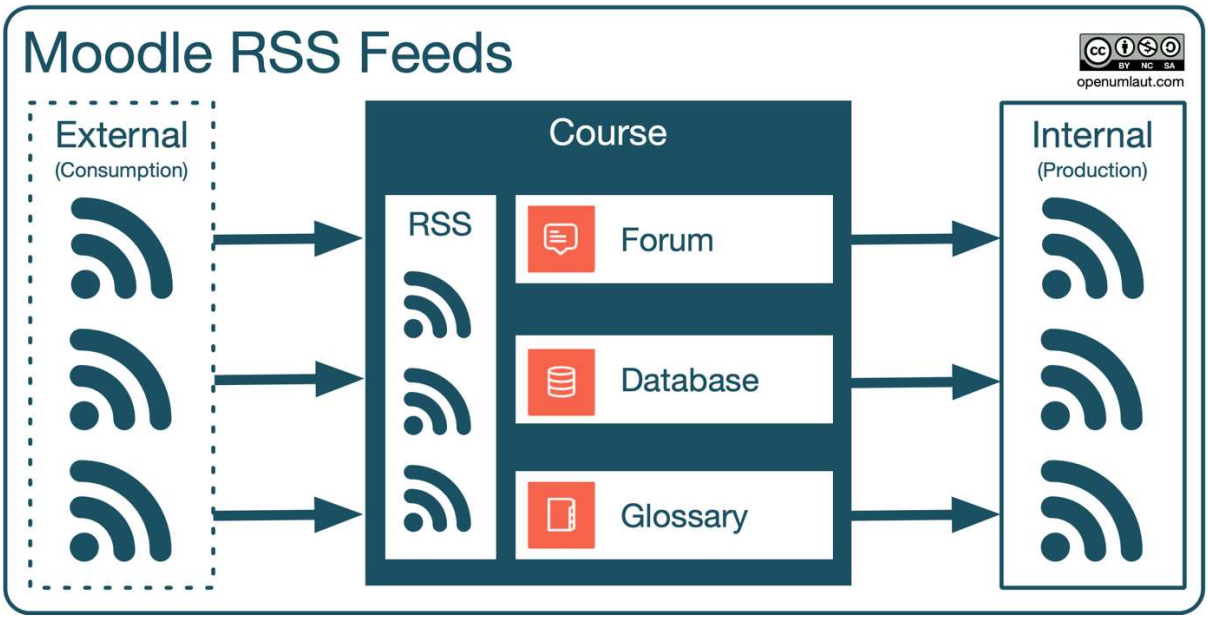
Sender	Receiver	Direction
User	User	Outbound
Activity	User	Outbound
Sytem	User	Outbound
External	Activity	Inbound
External	Private files	Inbound




Notification plugins
Name
Enable
Settings
Web
Email
Mobile
Settings
Default notification preferences
Types
Channels
Enabled
Web
Email
Mobile
Assignment
Assignment notifications
Enabled
Locked
BigBlueButton
BigBlueButton recording available
BigBlueButton session updated
Forum
Subscribed forum posts
forum digests

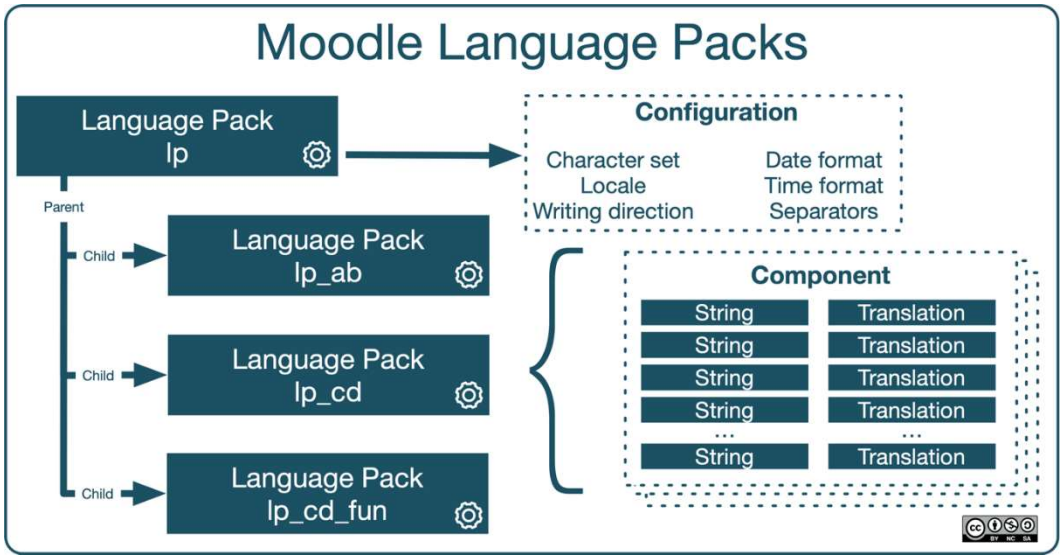

Email
Reply to forum posts
Email to Private files
Invalid sender handler
Forum
Private files
Reply to sender

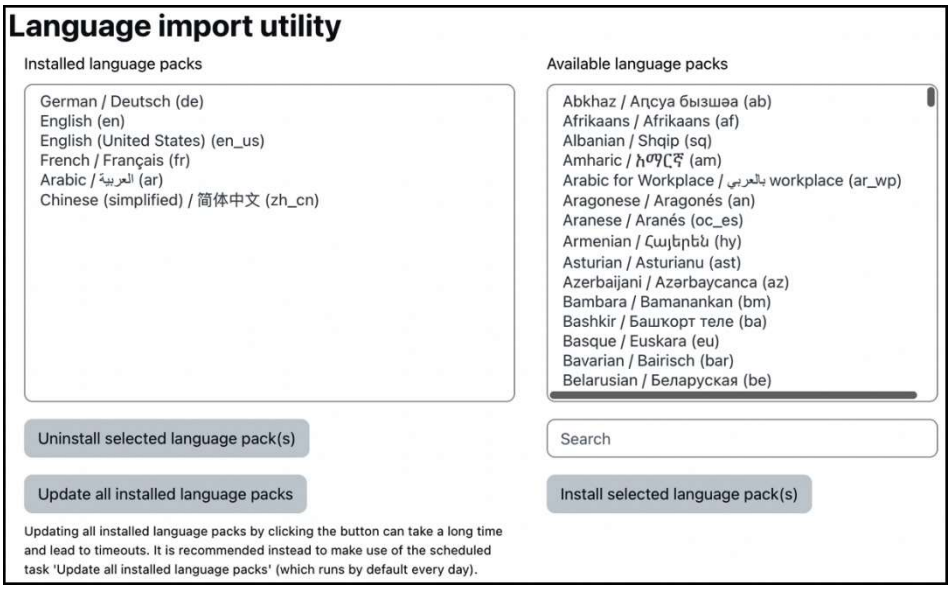

Name
Class name
Description
Enabled
Edit
Email to Private files
\core\message\inbound\private_files_handler
Store attachments to an e-mail in the user's private files storage space.
Yes
Reply to forum posts
\mod_forum\message\inbound\reply_handler
Reply to forum posts via email
Yes
Invalid sender handler
\tool_messageinbound\message\inbound\invalid_recipient_handler
If a valid message is received but the sender cannot be authenticated, the message is stored on the email server and the user is contacted using the email address in their user profile. The user is given the chance to reply to confirm the authenticity of the original message.
This handler processes those replies.
It is not possible to disable sender verification of this handler because the user may reply from an incorrect email address if their email client configuration is incorrect.
Yes
Editing Reply to forum posts
General
Name
Reply to forum posts
Class name
\mod_forum\message\inbound\reply_handler
Description
Reply to forum posts via email
Configuration
Default address expiry period
One hour
One day
One week
One year
No expiry
Validate sender address
Enabled


Moodle RSS Feeds
openumlaut.com
External
(Consumption)
Course
RSS
Forum
Database
Glossary
Internal
(Production)

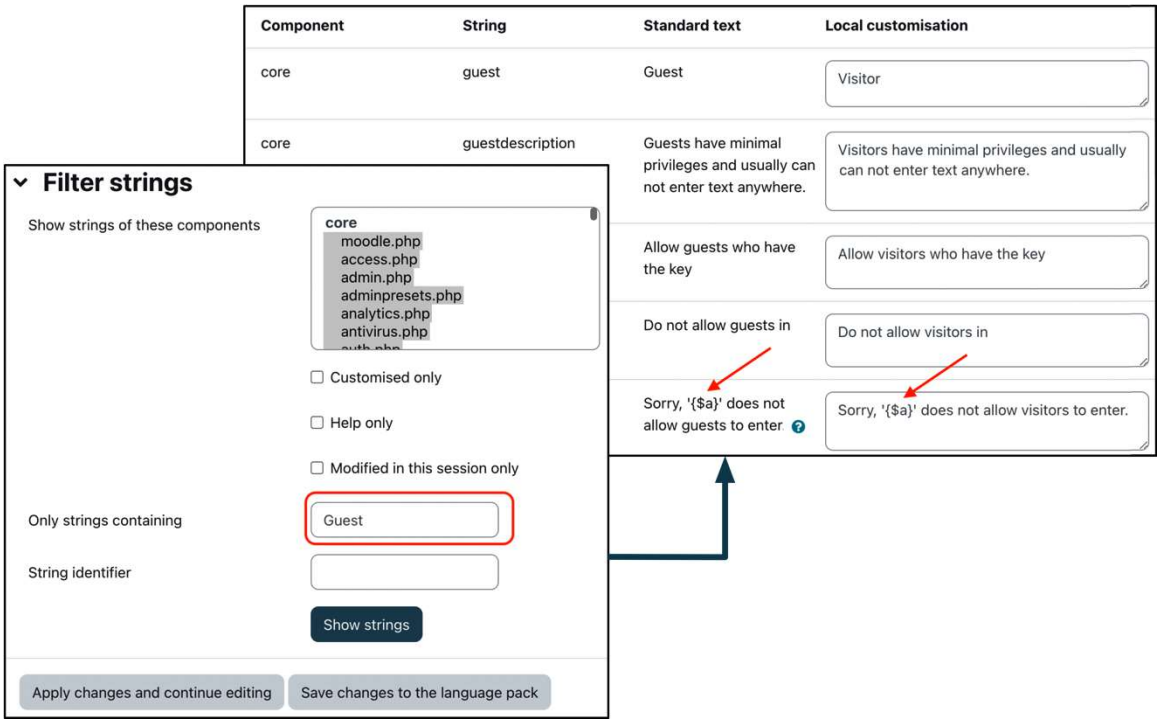

Support contact
Support name
supportname
Alex Büchner
Default: Alex Büchner
The name of the person or other entity providing support via the support form or support page.
Support email
supportemail
support@openumlaut.com
If SMTP is configured on this site and a support page is not set, this email address will receive messages submitted through the support form. If sending fails, the email address will be displayed to logged-in users.
Support page
supportpage
www.openumlaut.com
Default: Empty
A link to this page will be provided for users to contact the site support. If the field is left blank then a link to a support form will be provided instead.
Save changes

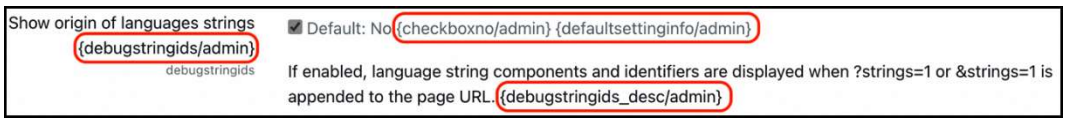

وضع التحرير
الصفحة الرئيسية
لوحة التحكم
مقرراتي الدراسية
إدارة الموقع
بحث
Packt Moodle 4 Administration
عام
المستخدمون
المقررات الدراسية
التقديرات
الملاحق
المظهر
المخدم
التقارير
التطوير

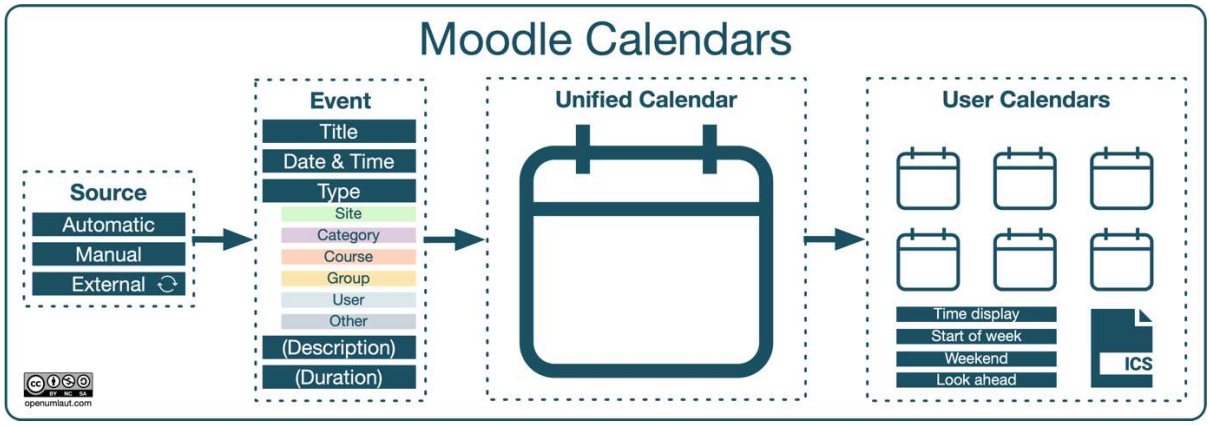

Moodle Language Packs
Language Pack
lp
Parent
Child
Language Pack
lp_ab
Child
Language Pack
lp_cd
Child
Language Pack
lp_cd_fun
Configuration
Character set
Locale
Writing direction
Date format
Time format
Separators
Component
String
Translation
String
Translation
String
Translation
String
Translation
...
...
String
Translation

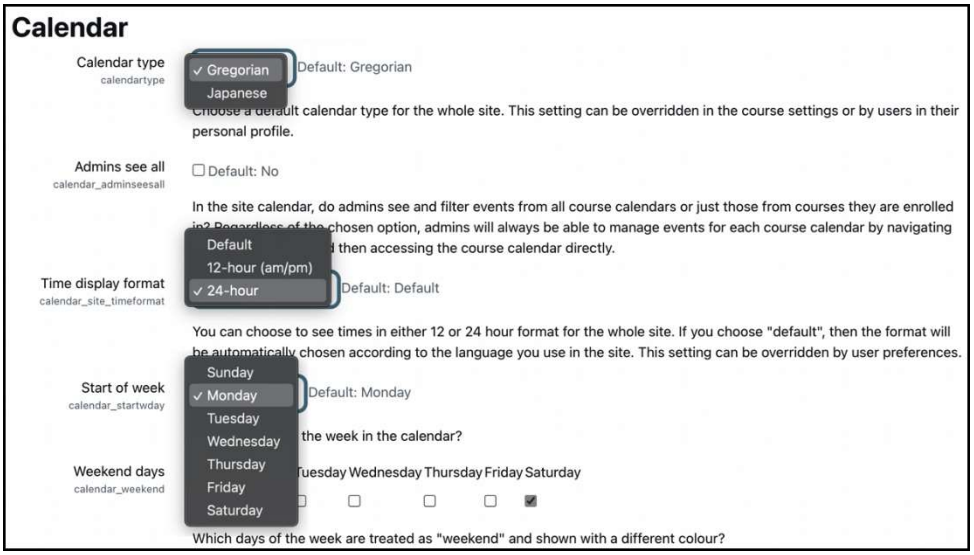

Language import utility
Installed language packs
German / Deutsch (de)
English (en)
English (United States) (en_us)
French / Français (fr)
Arabic / العربية (ar)
Chinese (simplified) / 简体中文 (zh_cn)
Available language packs
Abkhaz / Аҧсуа бызшәа (ab)
Afrikaans / Afrikaans (af)
Albanian / Shqip (sq)
Amharic / አማርኛ (am)
Arabic for Workplace / العربي بالـ workplace (ar_wp)
Aragonese / Aragonés (an)
Aranese / Aranés (oc_es)
Armenian / Հայերեն (hy)
Asturian / Asturianu (ast)
Azerbaijani / Azərbaycanca (az)
Bambara / Bamanankan (bm)
Bashkir / Башкорт теле (ba)
Basque / Euskara (eu)
Bavarian / Bairisch (bar)
Belarusian / Беларуская (be)
Uninstall selected language pack(s)
Search
Update all installed language packs
Install selected language pack(s)
Updating all installed language packs by clicking the button can take a long time and lead to timeouts. It is recommended instead to make use of the scheduled task 'Update all installed language packs' (which runs by default every day).

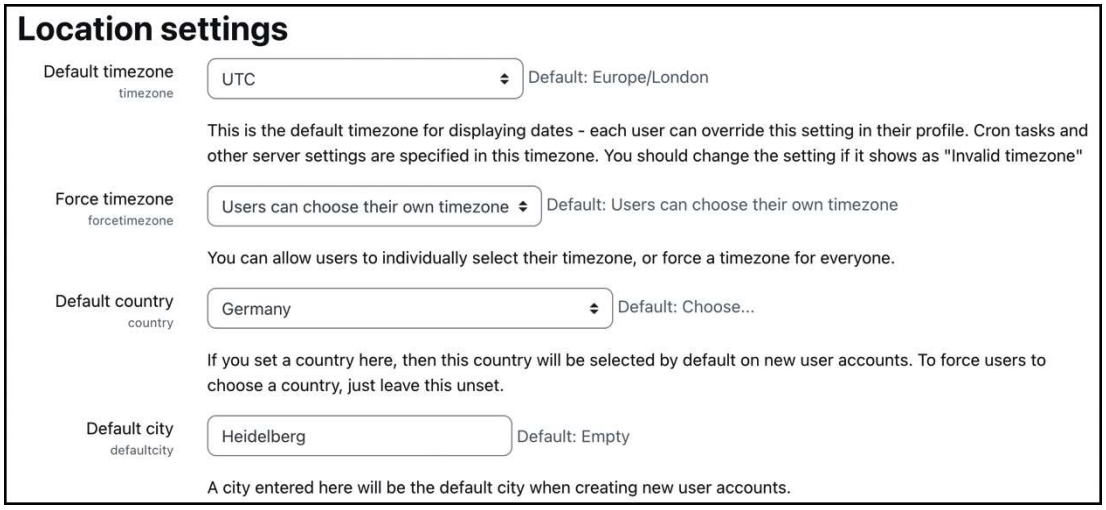

Edit mode
Language selector
Deutsch (de)
English (en)
English (United States) (en_u
Français (fr)
العربية (ar)
简体中文 (zh_cn)

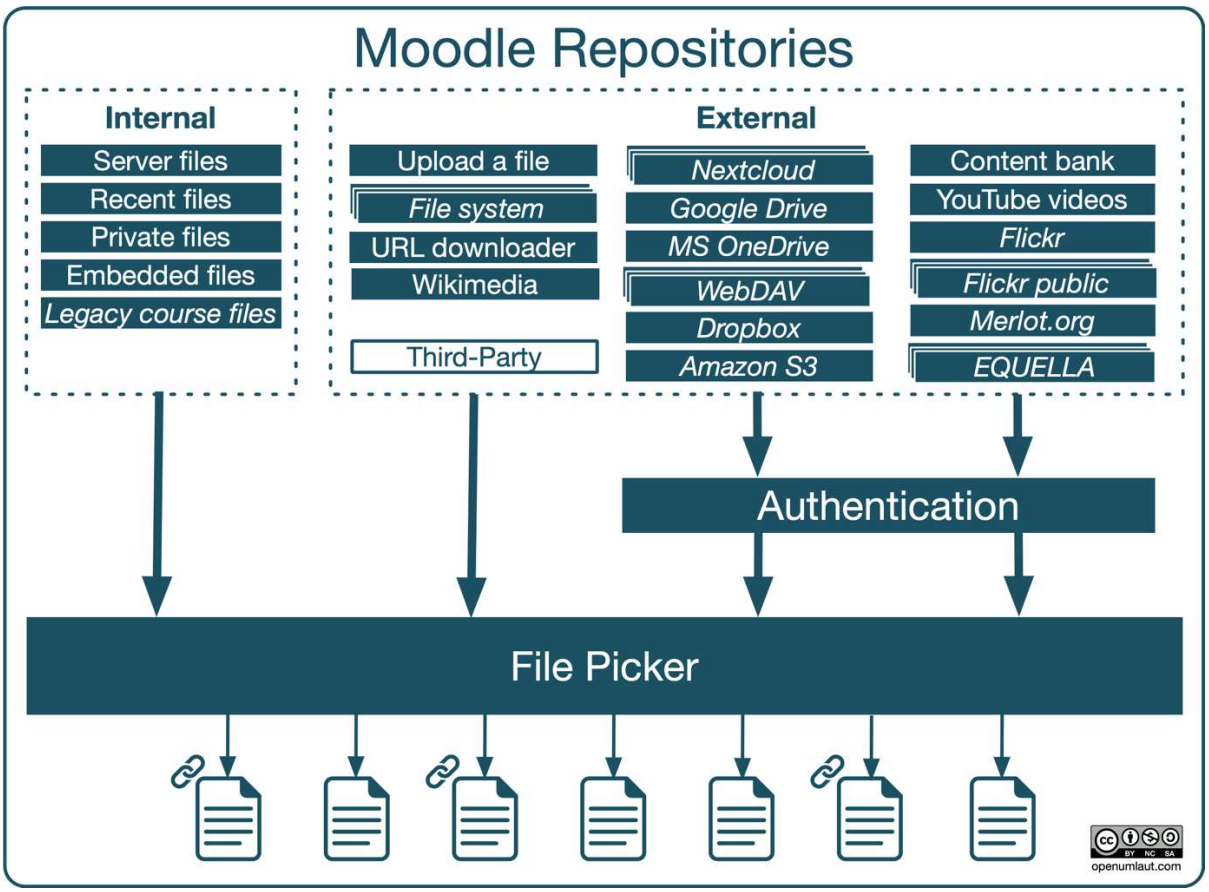

Component
String
Standard text
Local customisation
core
guest
Guest
Visitor
core
guestdescription
Guests have minimal privileges and usually can not enter text anywhere.
Visitors have minimal privileges and usually can not enter text anywhere.
Allow guests who have the key
Allow visitors who have the key
Do not allow guests in
Do not allow visitors in
Sorry, '{$a}' does not allow guests to enter
Sorry, '{$a}' does not allow visitors to enter.
Filter strings
Show strings of these components
core
moodle.php
access.php
admin.php
adminpresets.php
analytics.php
antivirus.php
Customised only
Help only
Modified in this session only
Only strings containing
Guest
String identifier
Show strings
Apply changes and continue editing
Save changes to the language pack

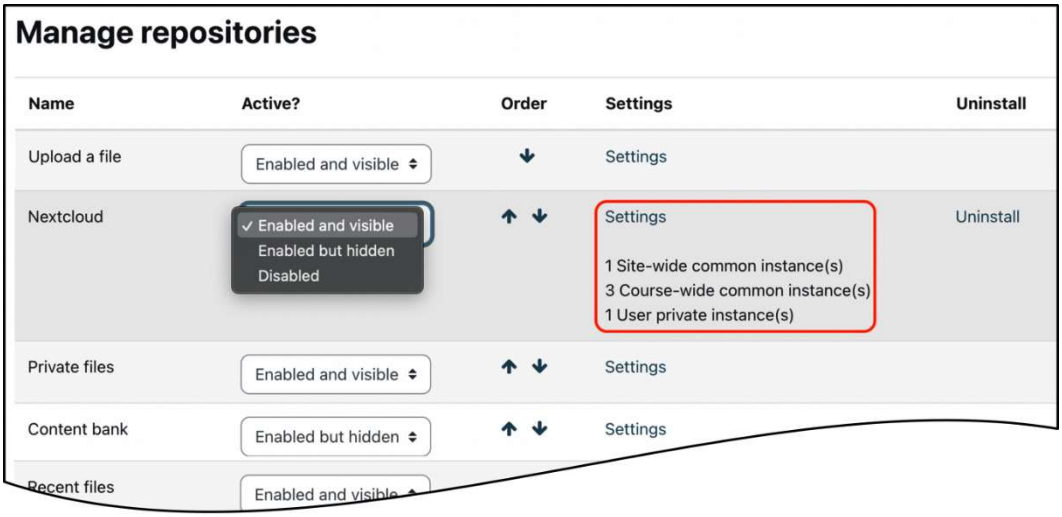

Show origin of languages strings
{debugstringids/admin}
debugstringids
Default: No {checkboxno/admin} {defaultsettinginfo/admin}
If enabled, language string components and identifiers are displayed when ?strings=1 or &strings=1 is appended to the page URL. {debugstringids_desc/admin}


Moodle Calendars
Source
Automatic
Manual
External
Event
Title
Date & Time
Type
Site
Category
Course
Group
User
Other
(Description)
(Duration)
Unified Calendar
User Calendars
Time display
Start of week
Weekend
Look ahead
ICS
openumlaut.com

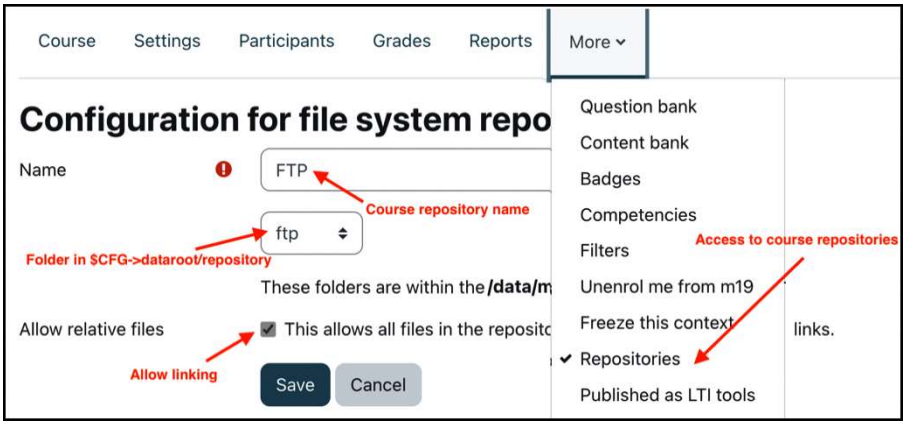

Calendar
Calendar type
calendartype
Gregorian
Japanese
Default: Gregorian
Choose a default calendar type for the whole site. This setting can be overridden in the course settings or by users in their personal profile.
Admins see all
calendar_adminseesall
Default: No
In the site calendar, do admins see and filter events from all course calendars or just those from courses they are enrolled in? Regardless of the chosen option, admins will always be able to manage events for each course calendar by navigating
then accessing the course calendar directly.
Time display format
calendar_site_timeformat
Default
12-hour (am/pm)
24-hour
Default: Default
You can choose to see times in either 12 or 24 hour format for the whole site. If you choose "default", then the format will be automatically chosen according to the language you use in the site. This setting can be overridden by user preferences.
Start of week
calendar_startwday
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Default: Monday
the week in the calendar?
Weekend days
calendar_weekend
Tuesday Wednesday Thursday Friday Saturday
Which days of the week are treated as "weekend" and shown with a different colour?

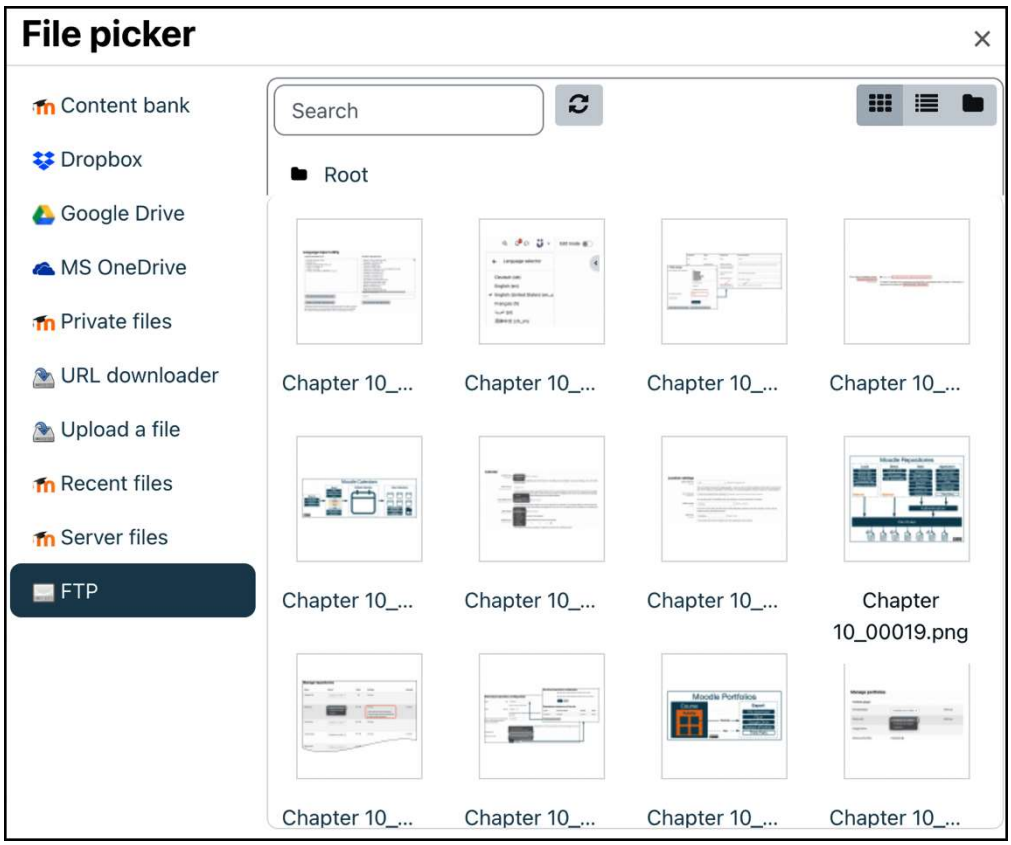

Location settings
Default timezone
timezone
UTC
Default: Europe/London
This is the default timezone for displaying dates - each user can override this setting in their profile. Cron tasks and other server settings are specified in this timezone. You should change the setting if it shows as "Invalid timezone"
Force timezone
forcetimezone
Users can choose their own timezone
Default: Users can choose their own timezone
You can allow users to individually select their timezone, or force a timezone for everyone.
Default country
country
Germany
Default: Choose...
If you set a country here, then this country will be selected by default on new user accounts. To force users to choose a country, just leave this unset.
Default city
defaultcity
Heidelberg
Default: Empty
A city entered here will be the default city when creating new user accounts.

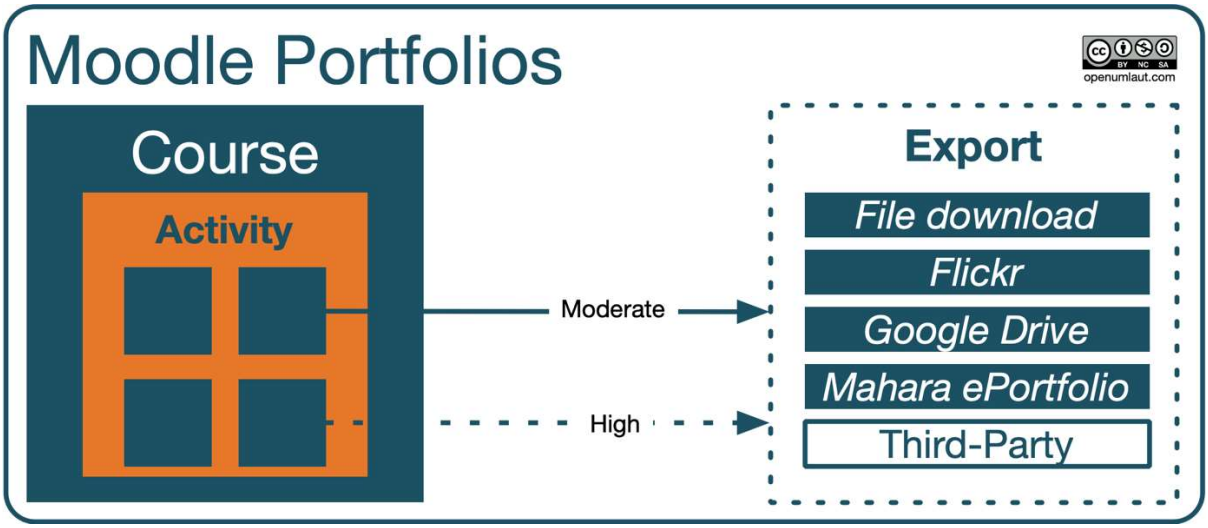

Moodle Repositories
Internal
Server files
Recent files
Private files
Embedded files
Legacy course files
External
Upload a file
File system
URL downloader
Wikimedia
Third-Party
Nextcloud
Google Drive
MS OneDrive
WebDAV
Dropbox
Amazon S3
Content bank
YouTube videos
Flickr
Flickr public
Merlot.org
EQUELLA
Authentication
File Picker
openumlaut.com

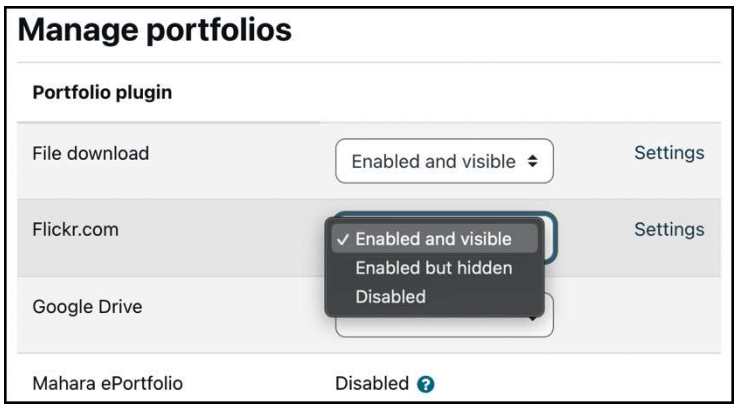

Manage repositories
Name
Active?
Order
Settings
Uninstall
Upload a file
Enabled and visible
Settings
Nextcloud
Enabled and visible
Enabled but hidden
Disabled
Settings
1 Site-wide common instance(s)
3 Course-wide common instance(s)
1 User private instance(s)
Uninstall
Private files
Enabled and visible
Settings
Content bank
Enabled but hidden
Settings
Recent files
Enabled and visible

Plugin	Instances	Authentication	Format	Access to ...
Upload a file	Single	None	All	... files manually uploaded from your local PC or Mac. This will be used a lot by all users.
File system	Single	None	All	... subdirectories in `$CFG->dataroot/repository`.
URL download	Single	None	All	... a file via a URL link. This can be an internal or external web address.
Wikimedia	Single	None	Media	... the Wikimedia Commons platform.
Nextcloud	Multiple	OAuth 2	All	... Nextcloud's universal file access and sync platform.
Google Drive	Single	OAuth 2	All	... users' documents in Google Drive. Additionally, you can configure the default import formats from Google.
MS OneDrive	Single	OAuth 2	All	... users' documents in MS OneDrive.
WebDAV	Multiple	WebDAV	All	... a WebDAV server.
Dropbox	Single	OAuth 2	All	... a single Dropbox folder, not one for each user.
Amazon S3	Single	Access / Secret	All	... the Amazon S3 storage service, including the choice of the geographical region your data will be stored.
Content bank	Single	Internal	H5P	... local H5P content.
YouTube	Single	API key	Video	... the YouTube video platform. Videos will be streamed to Moodle, not copied.
Flickr	Single	API key / Secret	Image	... the personal accounts of Flickr, a photo sharing site. A login required when accessing it the first time.
Flickr public	Multiple	API key	Image	... the public area of the Flickr photo sharing site.
Merlot.org	Single	License key	All	... to MERLOT (Multimedia Education Resource for Learning and Online Teaching).
EQUELLA	Multiple	Secret	All	... the EQUELLA repository.

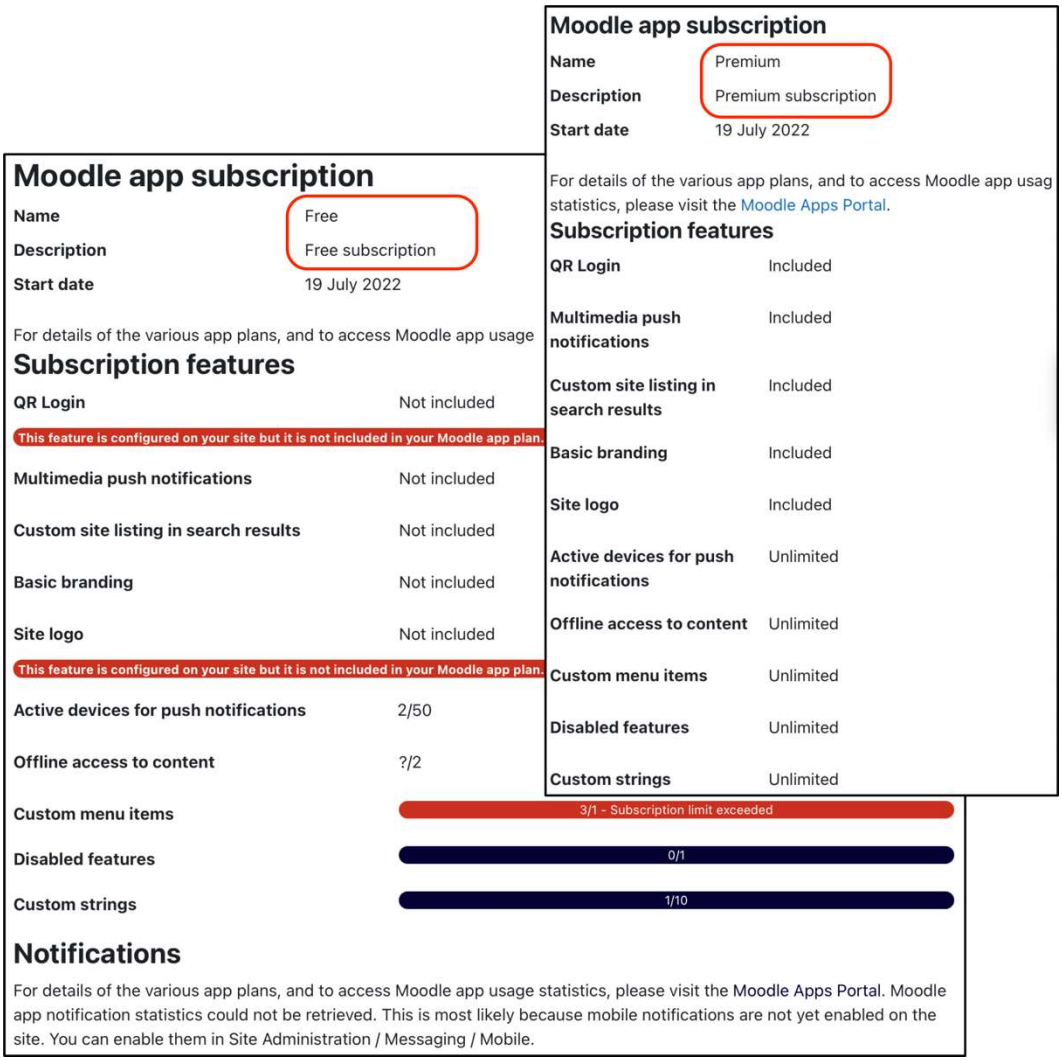


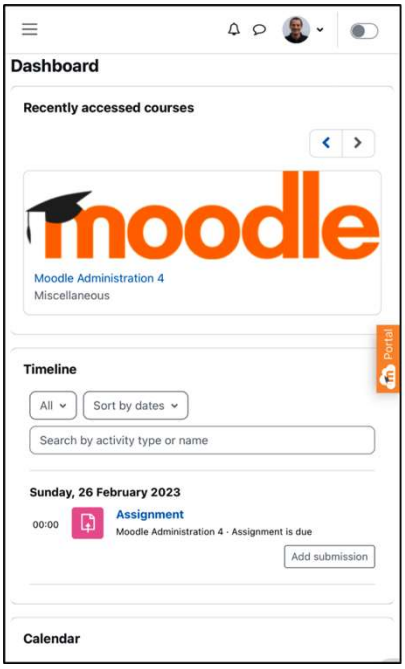

File picker
Content bank
Dropbox
Google Drive
MS OneDrive
Private files
URL downloader
Upload a file
Recent files
Server files
FTP
Search
Root
Chapter 10_...
Chapter 10_...
Chapter 10_...
Chapter 10_...
Chapter 10_...
Chapter 10_...
Chapter 10_...
Chapter 10_00019.png
Chapter 10_...
Chapter 10_...
Chapter 10_...
Chapter 10_...

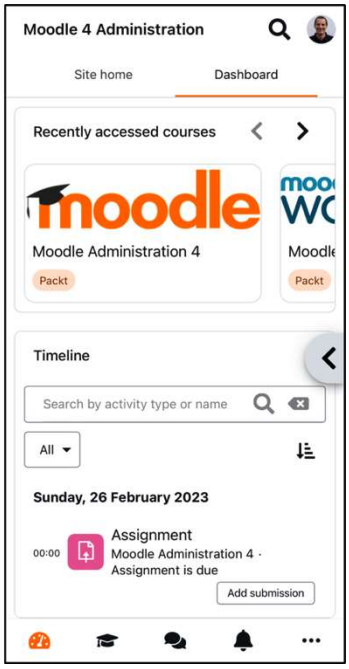

Moodle Portfolios
openumlaut.com
Course
Activity
Moderate
High
Export
File download
Flickr
Google Drive
Mahara ePortfolio
Third-Party

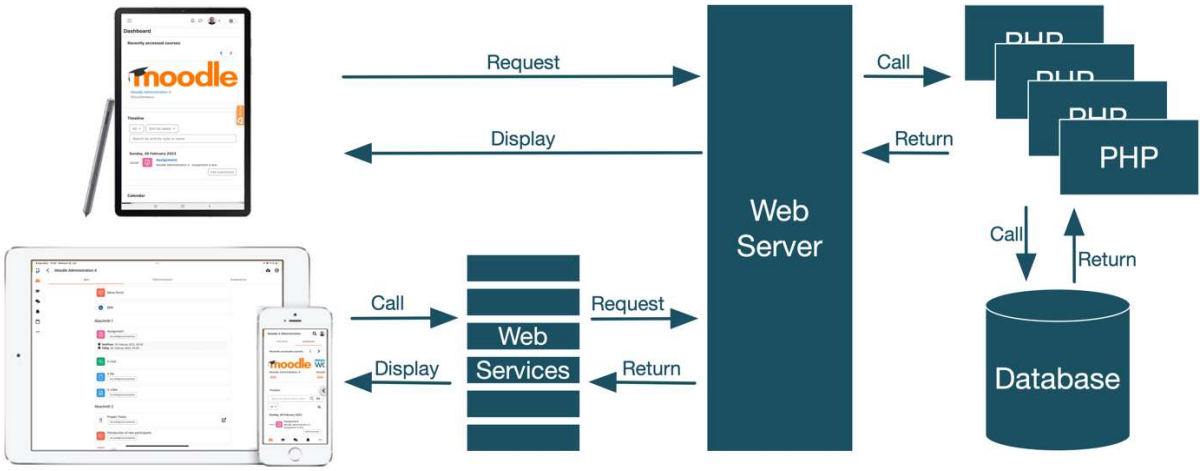

Manage portfolios
Portfolio plugin
File download
Enabled and visible
Settings
Flickr.com
Settings
Enabled and visible
Enabled but hidden
Disabled
Google Drive
Mahara ePortfolio
Disabled

Chapter 11: Enabling Mobile Learning









Enable web services for mobile devices enablemobilewebservice	☑ Default: No Enable mobile service for the official Moodle app or other app requesting it. For more information, read the Moodle documentation

Mobile authentication

Please note that some features may be restricted depending on your Moodle app subscription. For details, visit the **Moodle Apps Portal**. ×

Type of login
tool_mobile | typeoflogin

Via the app
✓ Via a browser window (for SSO plugins)
Via an embedded browser (for SSO plugins)

Default: Via the app

If the site uses a SSO authentication method, then select via a browser window or via an embedded browser. better user experience, though it doesn't work with all SSO plugins.

QR code access
tool_mobile | qrcodetype

Access via QR code disabled
QR code with site URL
✓ QR code with automatic login

Default: QR code with automatic login

A QR code can be provided for mobile app users to scan. This can be used to fill in the site URL, or where the site is secured using HTTPS, to automatically log the user in without having to enter their username and password.

QR authentication key duration
tool_mobile | qrkeyttl

10 minutes Default: 10 minutes

The length of time for which a QR code for automatic login is valid.

URL scheme
tool_mobile | forcedurlscheme

moodlemobile Default: moodlemobile

If you want to allow only your custom branded app to be opened via a browser window, then specify its URL scheme here. If you want to allow only the official app, then set the default value. Leave the field empty if you want to allow any app.

Minimum app version required
tool_mobile | minimumversion

Default: Empty

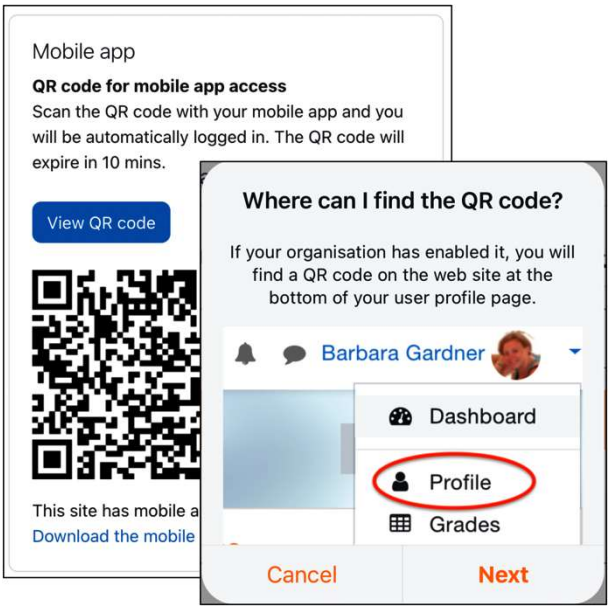
If an app version is specified (3.8.0 or higher), any users using an older app version will be prompted to upgrade their app before being allowed access to the site.

Minimum time between auto-login requests
tool_mobile | autologinmintimebetweenreq

6 minutes Default: 6 minutes

The minimum time between auto-login requests from the mobile app. If app users are frequently asked to enter their credentials when viewing content embedded from the site, then set a lower value.

Save changes



Mobile features

Disabled features
tool_mobile | disabledfeatures

Main menu
Site home
Dashboard
My courses
Messages
Notifications
Calendar
Blog
Tags
Scan QR code

Default: None

Select here the features you want to disable in the Mobile app for your site. Please note that some features listed here could be already disabled via other site settings. You will have to log out and log in again in the app to see the changes.

Custom menu items
tool_mobile | custommenuitems

```
Seminars|reportbuilder/view.php?id=2|inappbrowser|en|people-outline
Badges|badges/mybadges.php|app|en|trophy-outline
Certificates|/admin/tool/certificate/my.php|inappbrowser|en|document-text-outline
Zertifikate|/admin/tool/certificate/my.php|inappbrowser|de|document-text-outline
```

Default: Empty

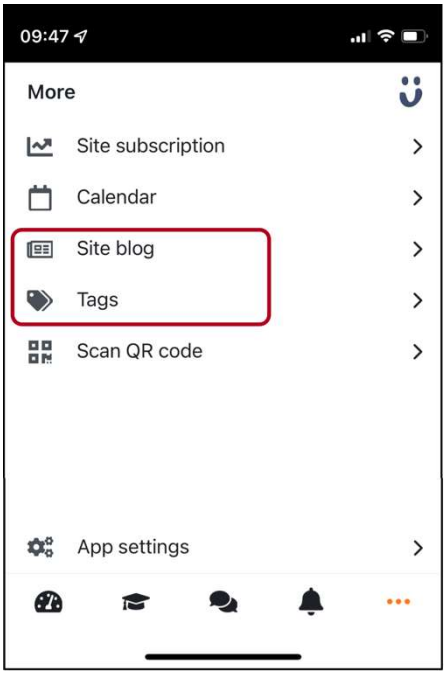
File type exclusion list
tool_mobile | filetypeexclusionlist

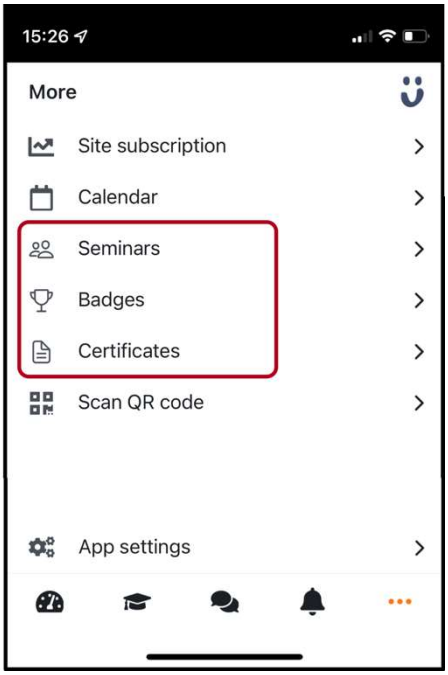
Manage file types

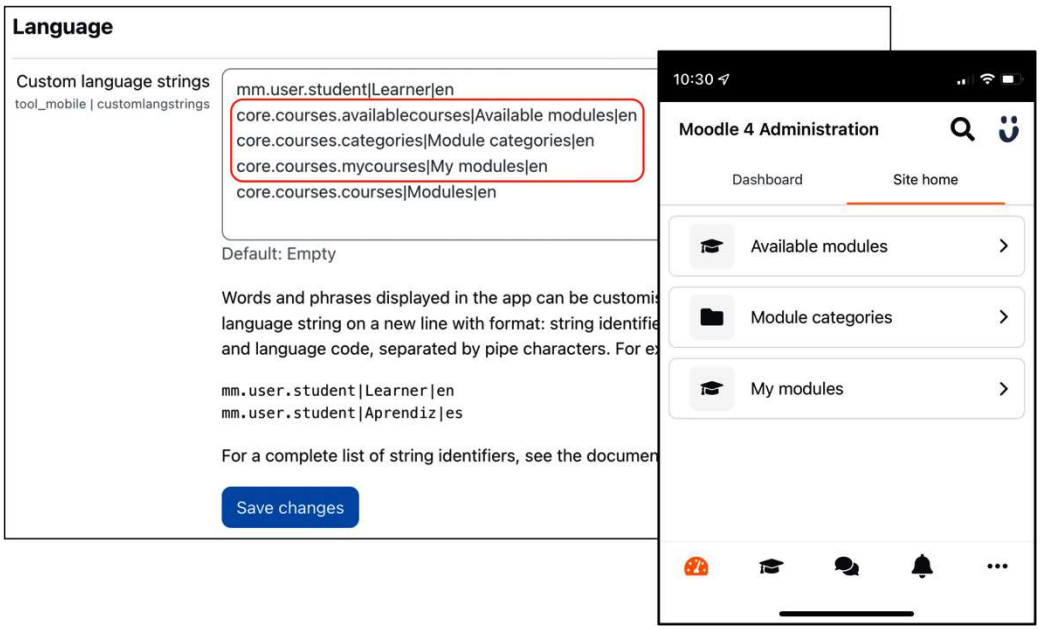
× .docx (application/vnd.openxmlformats-officedocument.wordprocessingml.document)

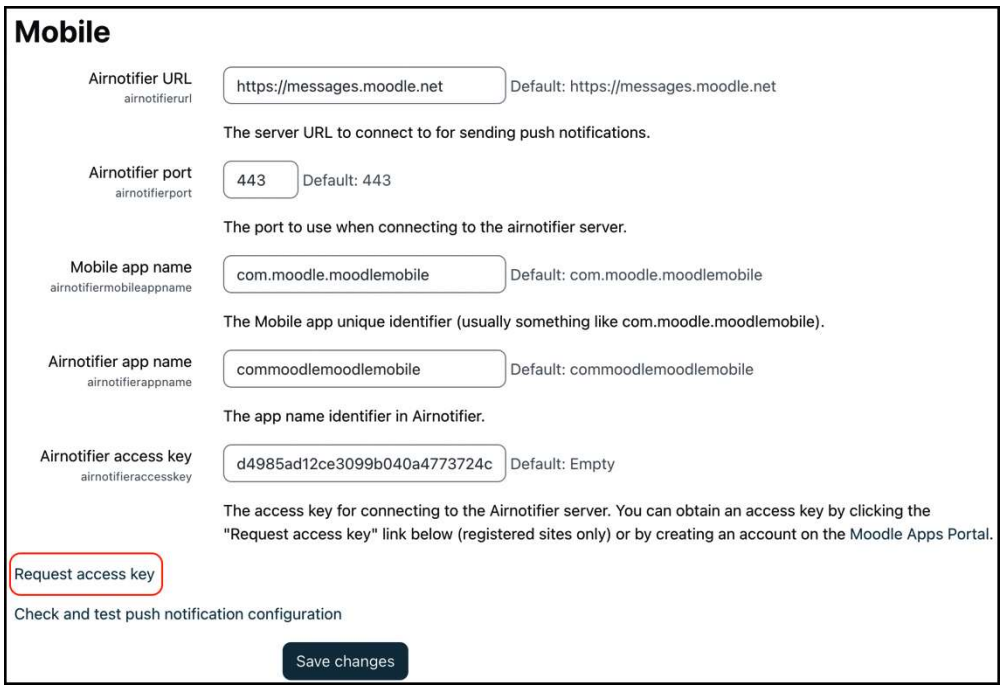
Mobile file type exclusion list

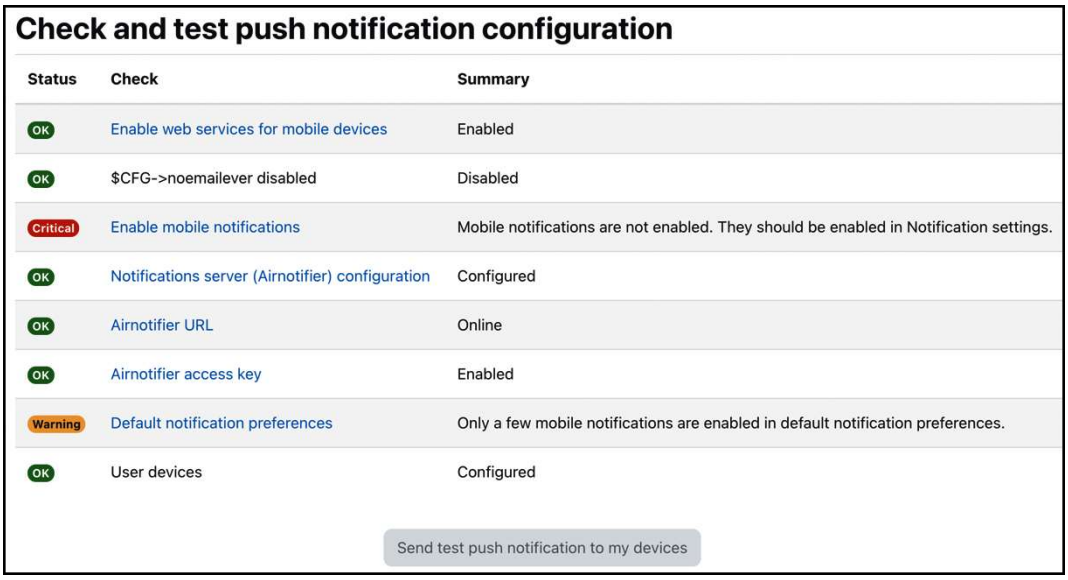
Default: None


09:47
More
Site subscription
Calendar
Site blog
Tags
Scan QR code
App settings

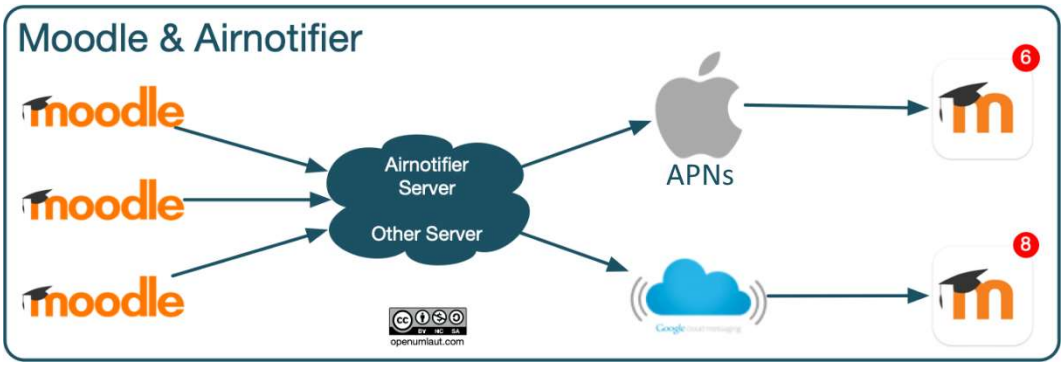

15:26
More
Site subscription
Calendar
Seminars
Badges
Certificates
Scan QR code
App settings

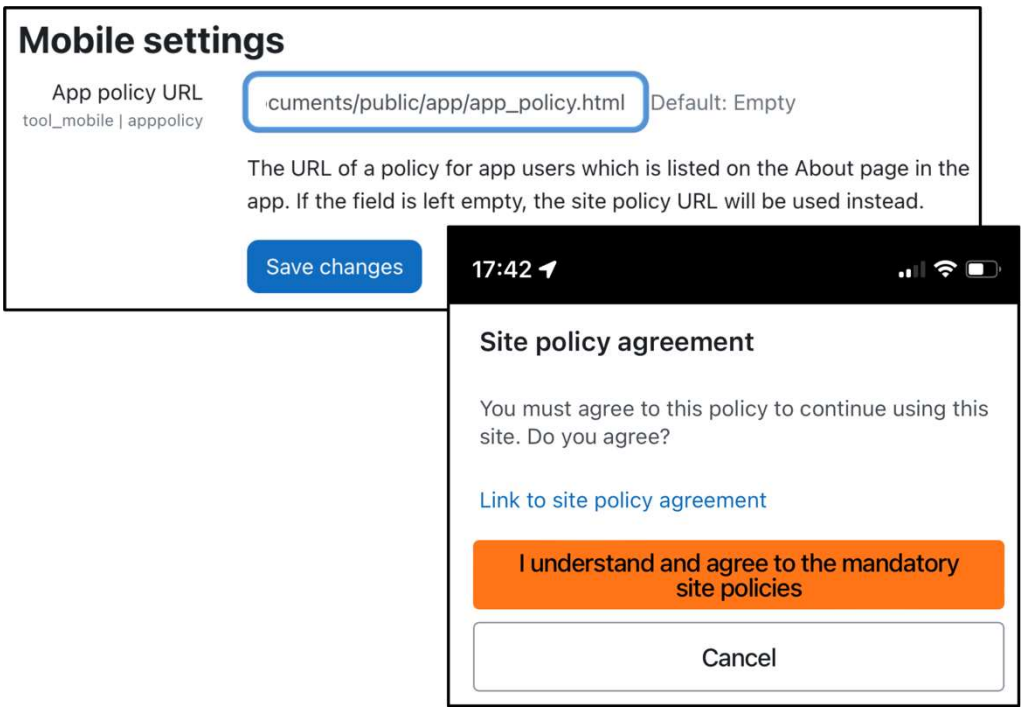

Language
Custom language strings
tool_mobile | customlangstrings
mm.user.student|Learner|en
core.courses.availablecourses|Available modules|en
core.courses.categories|Module categories|en
core.courses.mycourses|My modules|en
core.courses.courses|Modules|en
Default: Empty
Words and phrases displayed in the app can be customis
language string on a new line with format: string identifie
and language code, separated by pipe characters. For ex
mm.user.student|Learner|en
mm.user.student|Aprendiz|es
For a complete list of string identifiers, see the documen
Save changes
10:30
Moodle 4 Administration
Dashboard
Site home
Available modules
Module categories
My modules

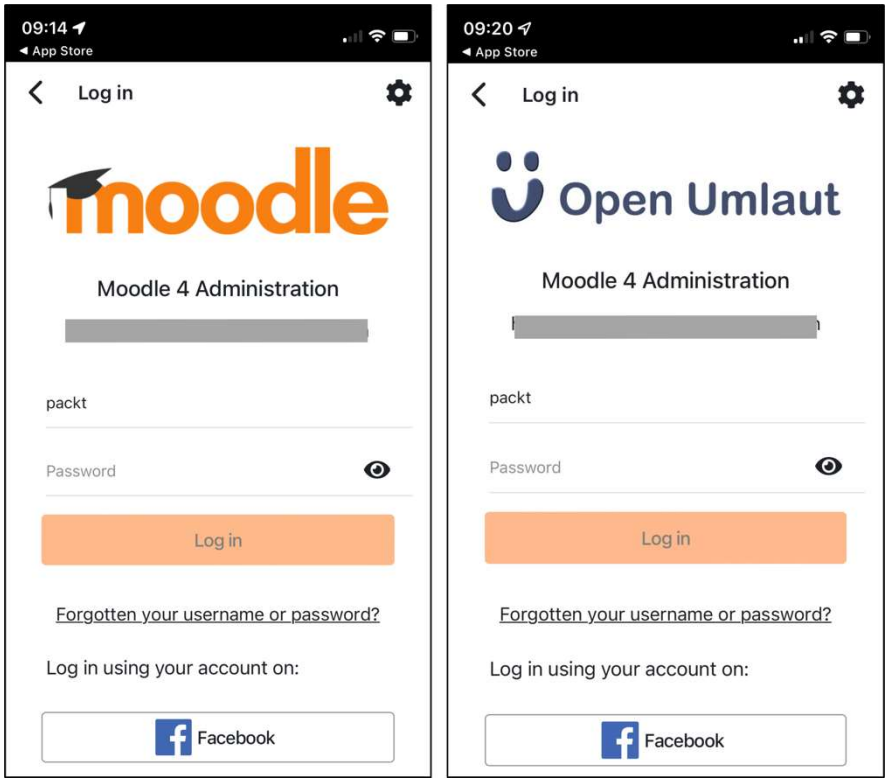

Mobile
Airnotifier URL
airnotifierurl
https://messages.moodle.net
Default: https://messages.moodle.net
The server URL to connect to for sending push notifications.
Airnotifier port
airnotifierport
443
Default: 443
The port to use when connecting to the airnotifier server.
Mobile app name
airnotifiermobileappname
com.moodle.moodlemobile
Default: com.moodle.moodlemobile
The Mobile app unique identifier (usually something like com.moodle.moodlemobile).
Airnotifier app name
airnotifierappname
commoodlemoodlemobile
Default: commoodlemoodlemobile
The app name identifier in Airnotifier.
Airnotifier access key
airnotifieraccesskey
d4985ad12ce3099b040a4773724c
Default: Empty
The access key for connecting to the Airnotifier server. You can obtain an access key by clicking the "Request access key" link below (registered sites only) or by creating an account on the Moodle Apps Portal.
Request access key
Check and test push notification configuration
Save changes


Check and test push notification configuration
Status
Check
Summary
OK
Enable web services for mobile devices
Enabled
OK
$CFG->noemailever disabled
Disabled
Critical
Enable mobile notifications
Mobile notifications are not enabled. They should be enabled in Notification settings.
OK
Notifications server (Airnotifier) configuration
Configured
OK
Airnotifier URL
Online
OK
Airnotifier access key
Enabled
Warning
Default notification preferences
Only a few mobile notifications are enabled in default notification preferences.
OK
User devices
Configured
Send test push notification to my devices


Push Notification Test
now
This is a test message send at:
Tuesday, 19 July 2022, 9:07 AM


Moodle & Airnotifier
moodle
moodle
moodle
Airnotifier Server
Other Server
APNs
6
8
openumiaut.com


Mobile settings
App policy URL
tool_mobile | apppolicy
cuments/public/app/app_policy.html
Default: Empty
The URL of a policy for app users which is listed on the About page in the app. If the field is left empty, the site policy URL will be used instead.
Save changes
17:42
Site policy agreement
You must agree to this policy to continue using this site. Do you agree?
Link to site policy agreement
I understand and agree to the mandatory site policies
Cancel



Mobile appearance

CSS
mobilecssurl

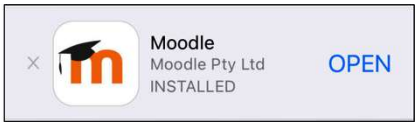
ut.com/openumlaut/theme/packt.css Default: Empty

A CSS file to customise your mobile app interface.

Branded Moodle app

Alternatively, get a Branded Moodle app with your own custom branding.





App Banners

Enable App Banners
tool_mobile | enablesmartappbanners

☑ Default: No

If enabled, a banner promoting the mobile app will be displayed when accessing the site using a mobile browser.

iOS app's unique identifier
tool_mobile | iosappid

633359593 Default: 633359593

This setting may be left as default unless you have a custom iOS app.

Android app's unique identifier
tool_mobile | androidappid

com.moodle.moodlemobile Default: com.moodle.moodlemobile

This setting may be left as default unless you have a custom Android app.

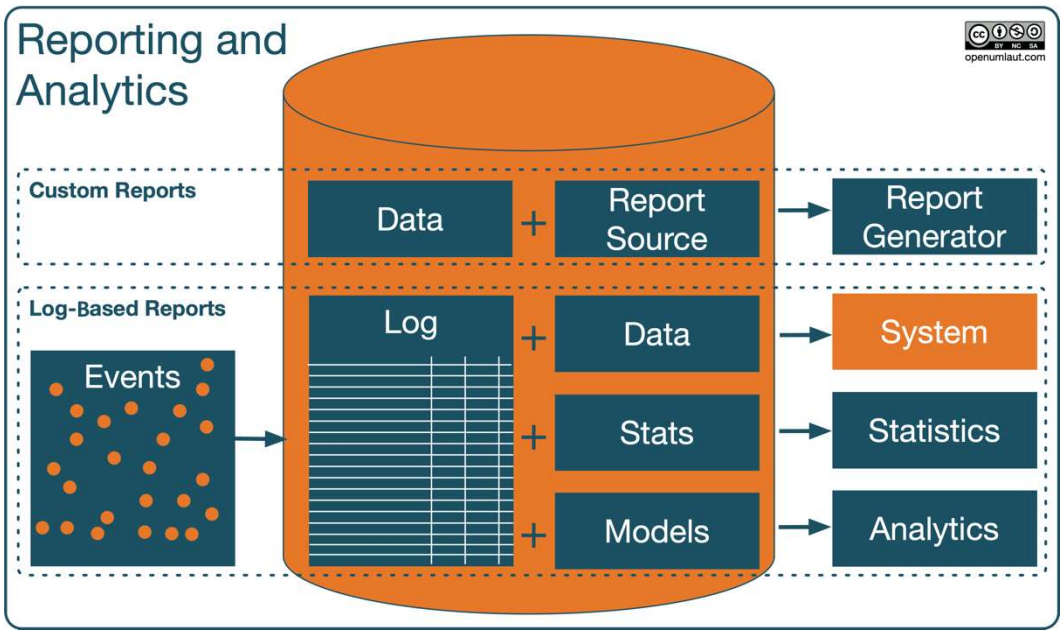
App download page
tool_mobile | setuplink

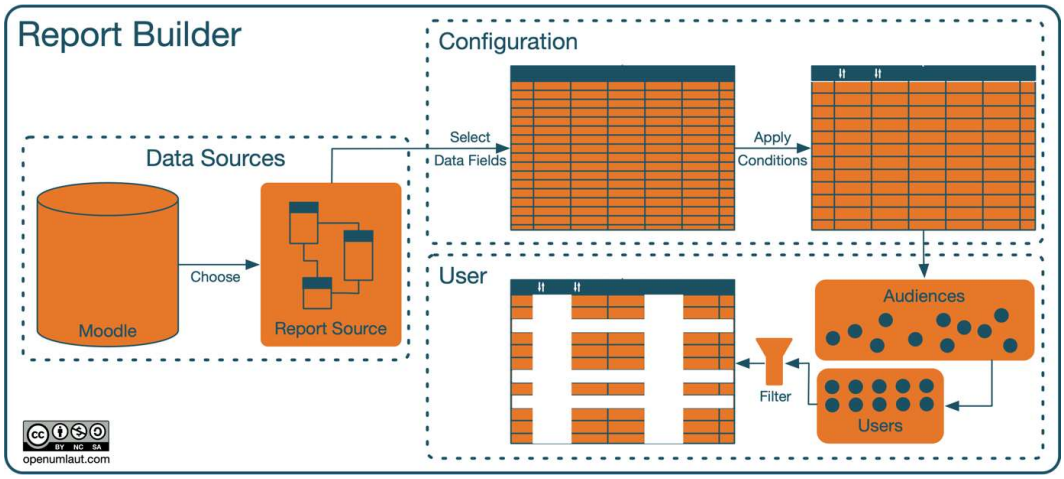
https://download.moodle.org/mobile
Default: https://download.moodle.org/mobile

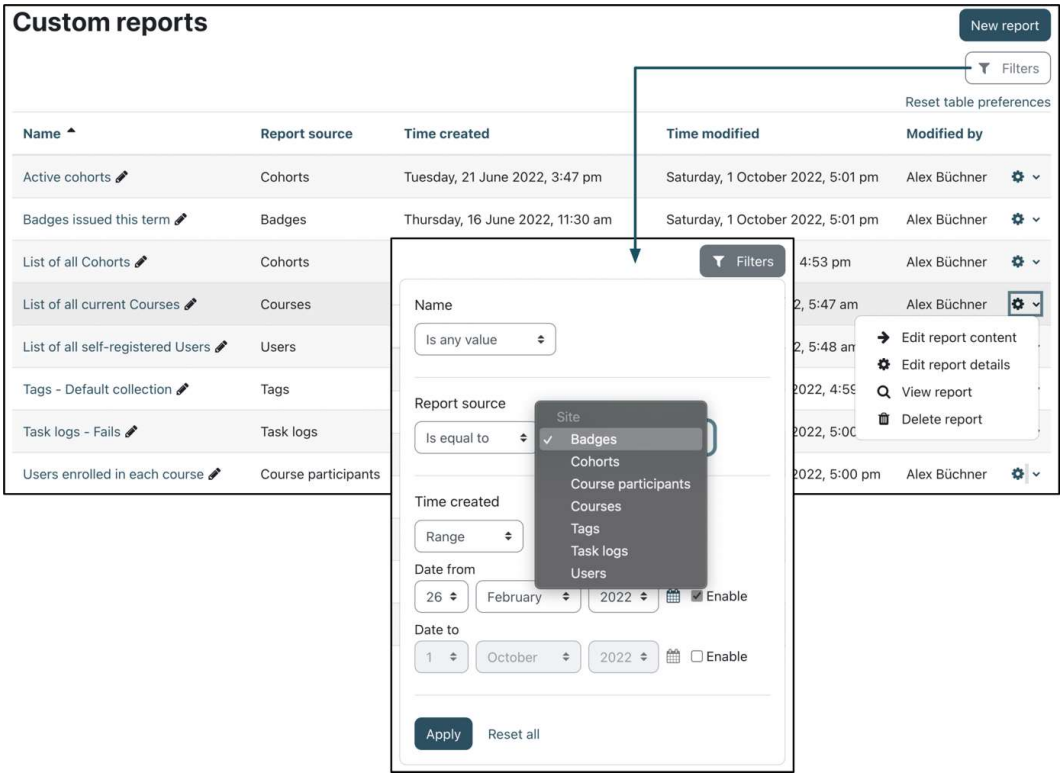
URL of page with options to download the mobile app from the App Store and Google Play. The app download page link is displayed in the page footer and in a user's profile. Leave blank to not display a link.

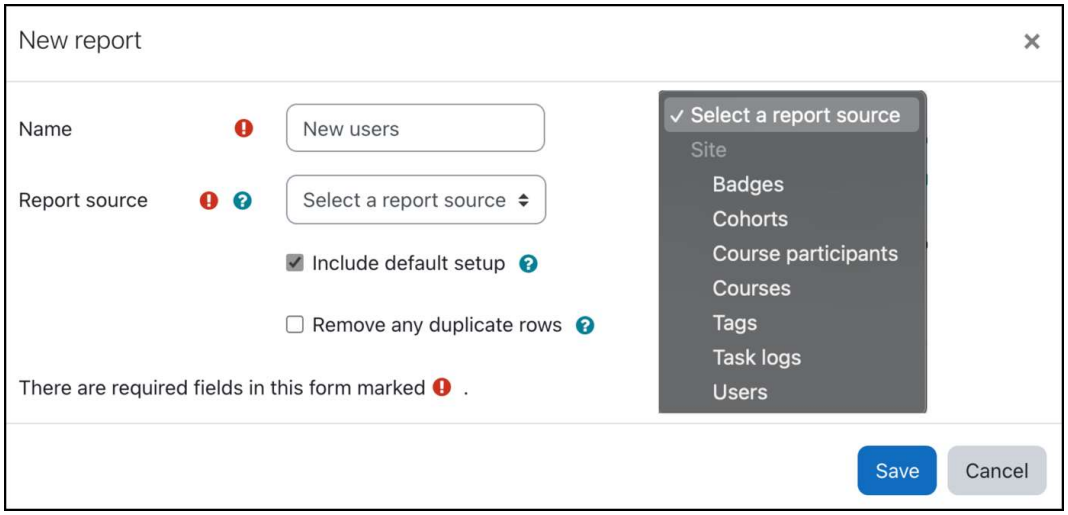
Save changes

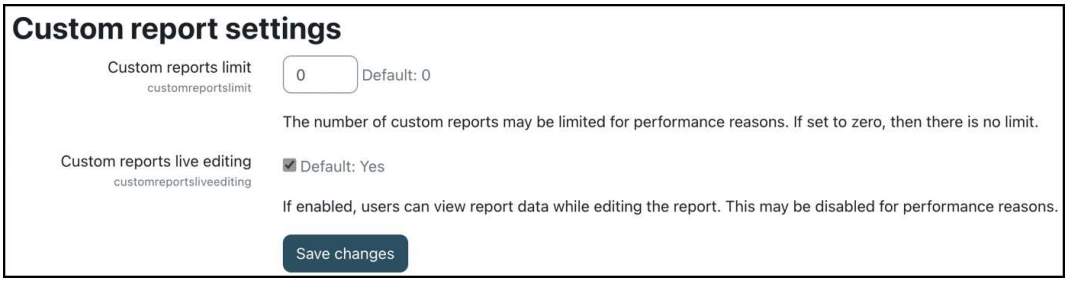
Chapter 12: Gaining Insights through Moodle Reporting and Analytics

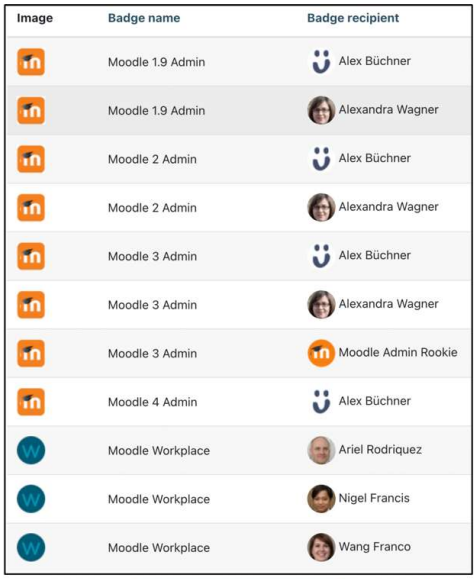


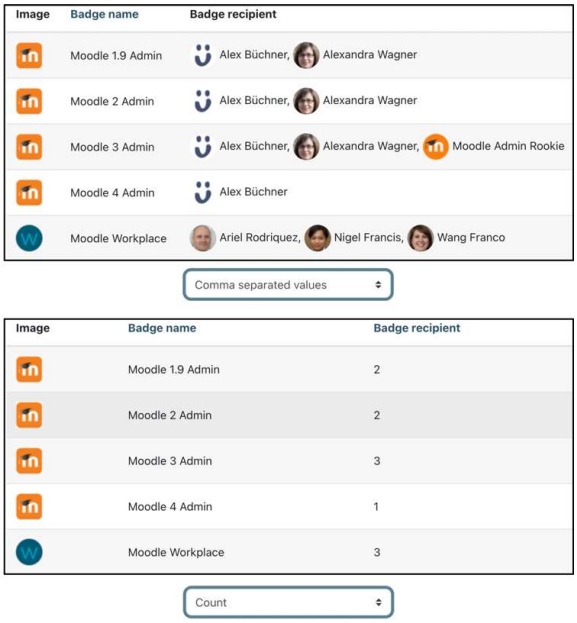



Custom reports
New report
Filters
Reset table preferences
Name
Report source
Time created
Time modified
Modified by
Active cohorts
Cohorts
Tuesday, 21 June 2022, 3:47 pm
Saturday, 1 October 2022, 5:01 pm
Alex Büchner
Badges issued this term
Badges
Thursday, 16 June 2022, 11:30 am
Saturday, 1 October 2022, 5:01 pm
Alex Büchner
List of all Cohorts
Cohorts
4:53 pm
Alex Büchner
List of all current Courses
Courses
2, 5:47 am
Alex Büchner
List of all self-registered Users
Users
2, 5:48 am
Tags - Default collection
Tags
2022, 4:59
Task logs - Fails
Task logs
2022, 5:00
Users enrolled in each course
Course participants
2022, 5:00 pm
Alex Büchner
Edit report content
Edit report details
View report
Delete report
Filters
Name
Is any value
Report source
Is equal to
Site
Badges
Cohorts
Course participants
Courses
Tags
Task logs
Users
Time created
Range
Date from
26
February
2022
Enable
Date to
1
October
2022
Enable
Apply
Reset all

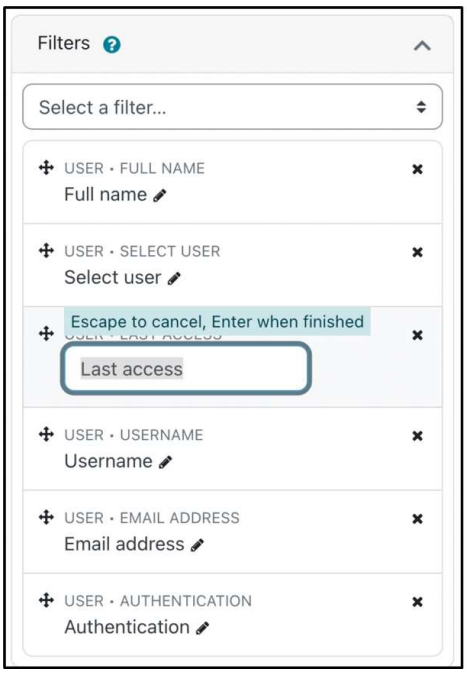

New report
Name
New users
Report source
Select a report source
Include default setup
Remove any duplicate rows
There are required fields in this form marked .
Select a report source
Site
Badges
Cohorts
Course participants
Courses
Tags
Task logs
Users
Save
Cancel

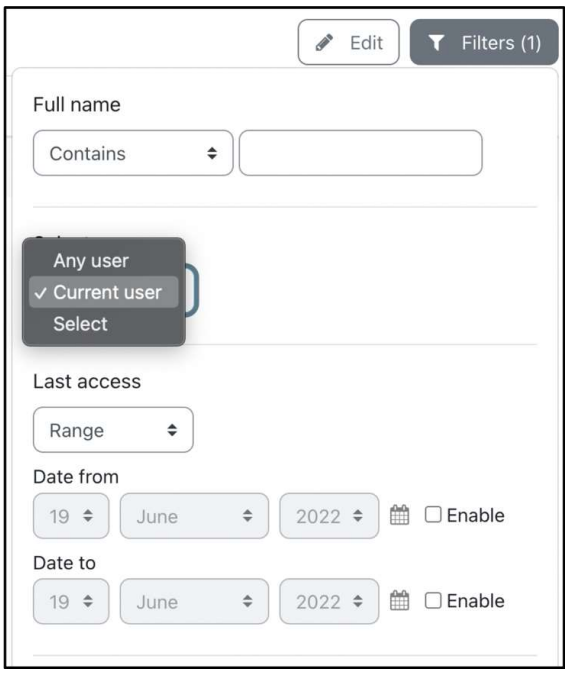

Custom report settings
Custom reports limit
customreportslimit
0
Default: 0
The number of custom reports may be limited for performance reasons. If set to zero, then there is no limit.
Custom reports live editing
customreportsliveediting
Default: Yes
If enabled, users can view report data while editing the report. This may be disabled for performance reasons.
Save changes

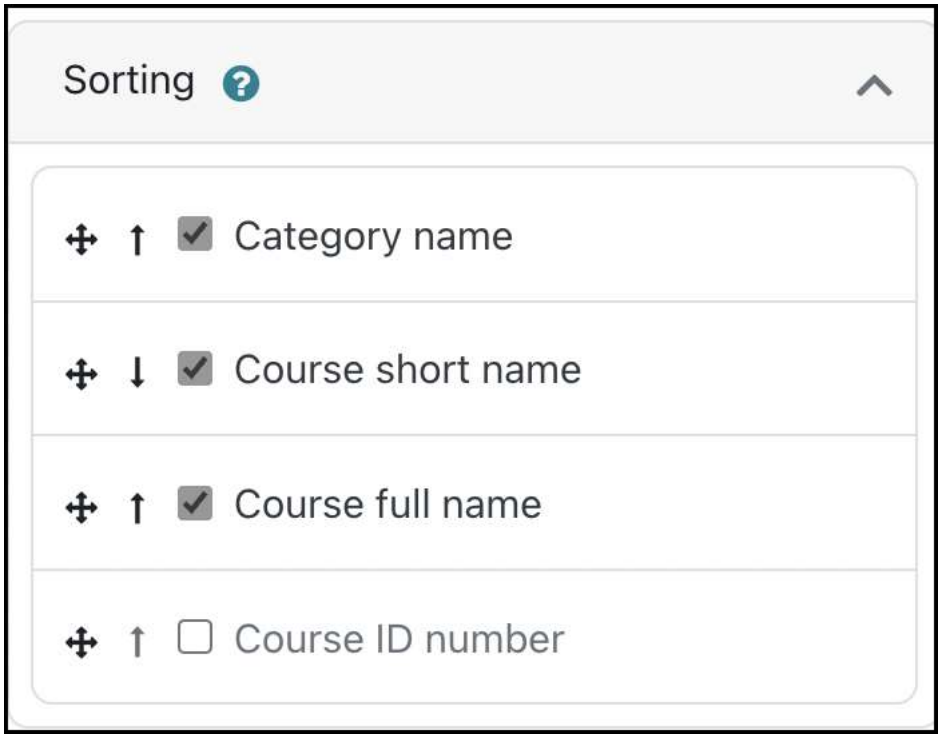


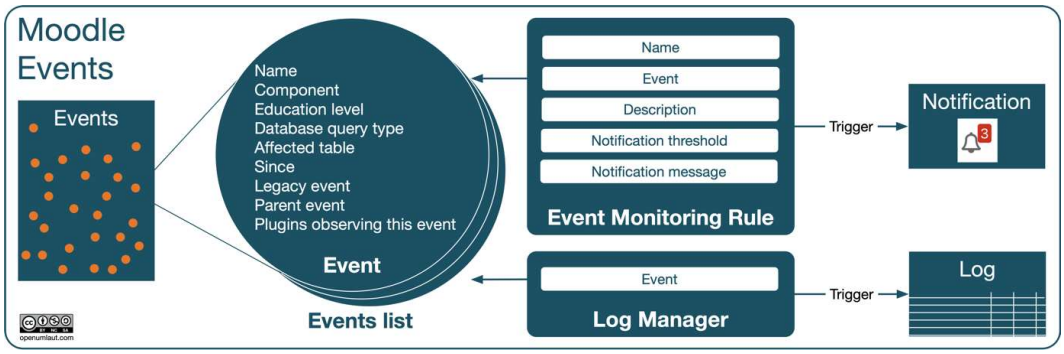


Aggregation Method	Description	SQL Function
Average	Average of all (numeric) values	AVG()
Count	Number of values in column	COUNT()
Count distinct	Number of unique values in column	COUNT DISTINCT()
Comma separate values	List of data points, separated by comma	GROUP_CONCAT()
Comma separate distinct values	List of unique data points, separated by comma	GROUP_CONCAT(DISTINCT)
Maximum	Biggest (numeric) value in column	MAX()
Minimum	Smallest (numeric) value in column	MIN()
Percentage	Ratio of (numeric) values in percent	AVG()
Sum	Sum of all (numeric) values in column	SUM()

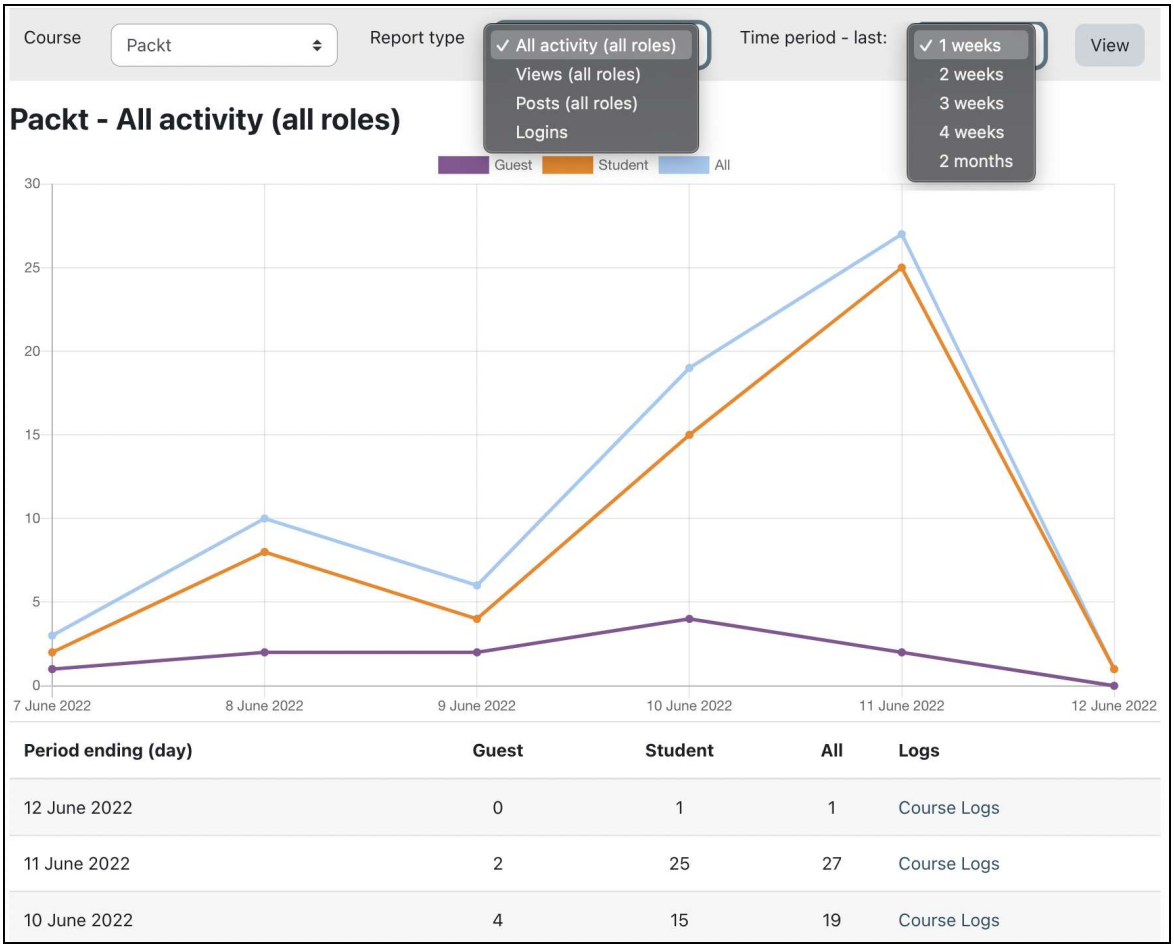




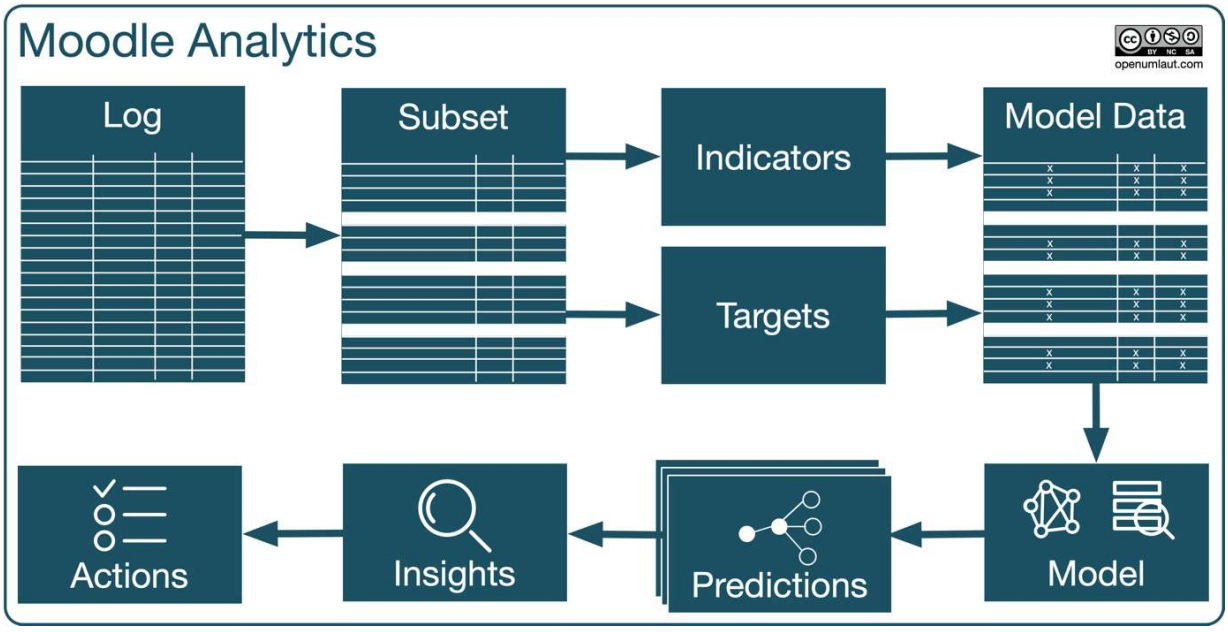

Sorting
Category name
Course short name
Course full name
Course ID number

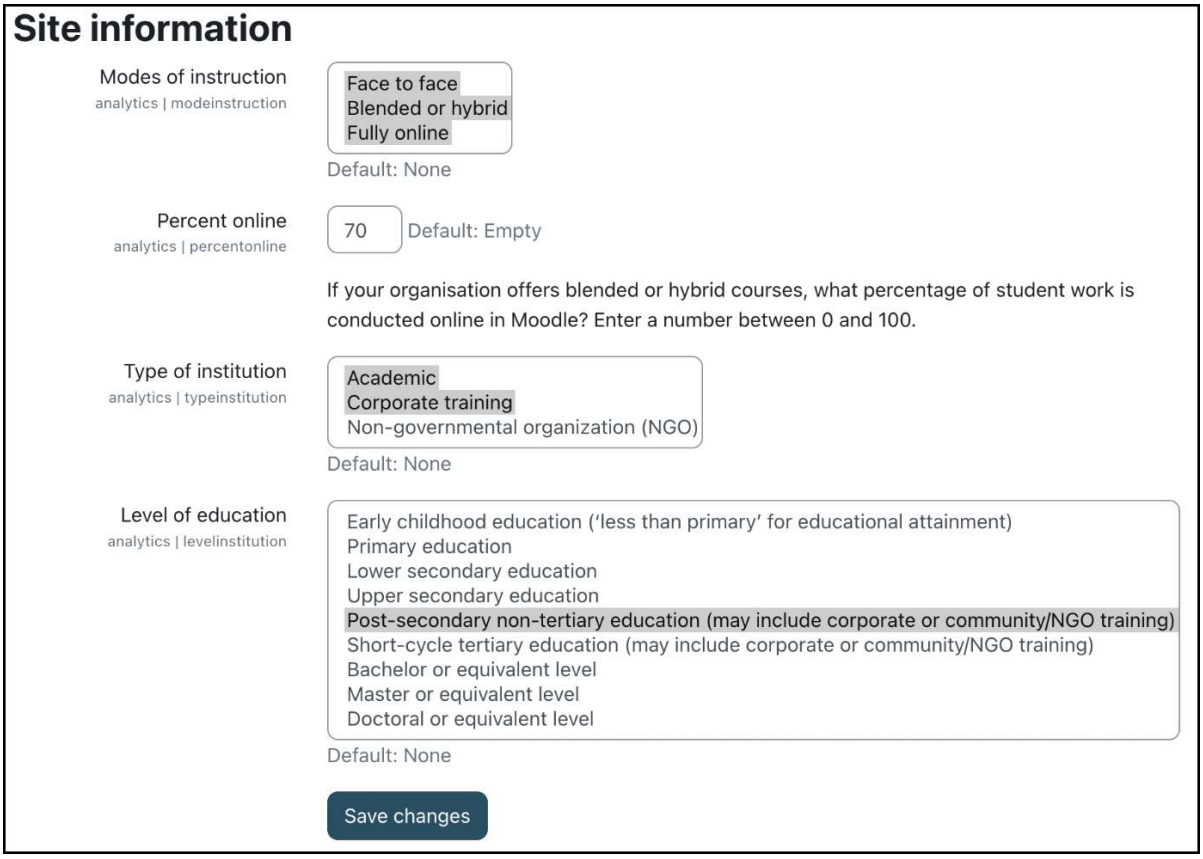

Moodle Events
Events
Name
Component
Education level
Database query type
Affected table
Since
Legacy event
Parent event
Plugins observing this event
Event
Events list
Name
Event
Description
Notification threshold
Notification message
Event Monitoring Rule
Trigger
Notification
Event
Log Manager
Trigger
Log

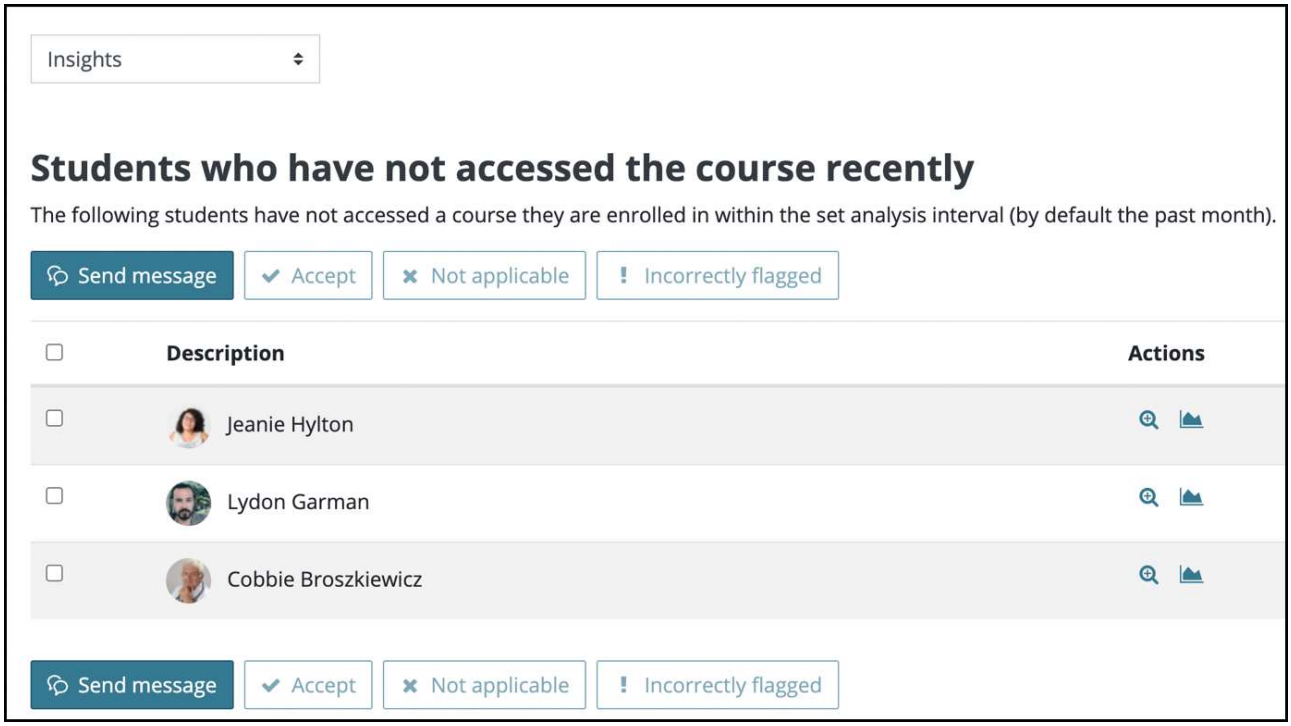


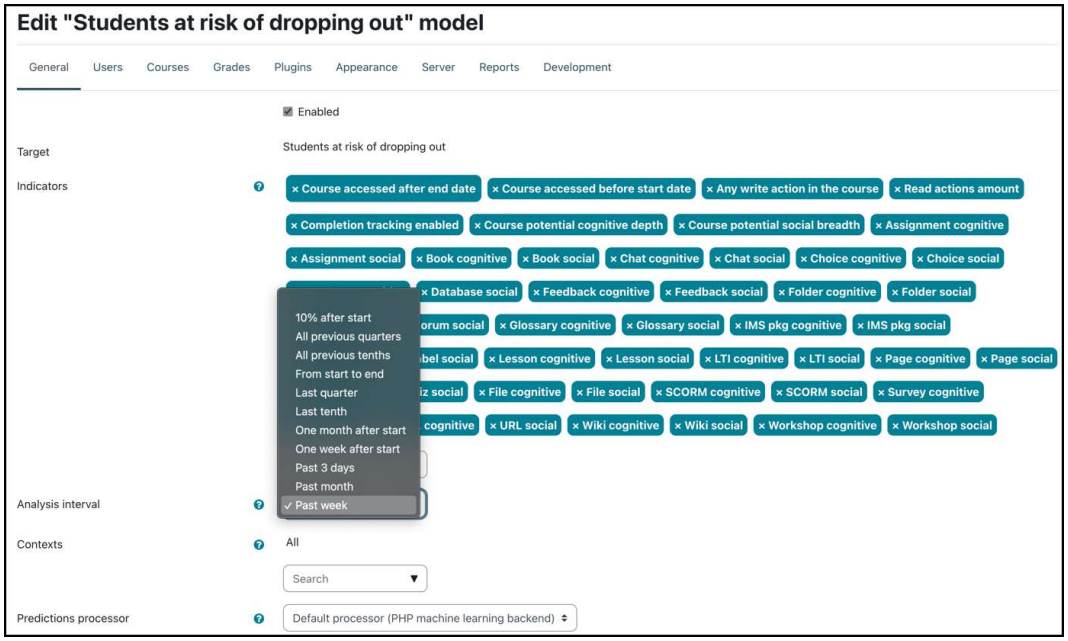


Period ending (day)	Guest	Student	All	Logs
12 June 2022	0	1	1	Course Logs
11 June 2022	2	25	27	Course Logs
10 June 2022	4	15	19	Course Logs

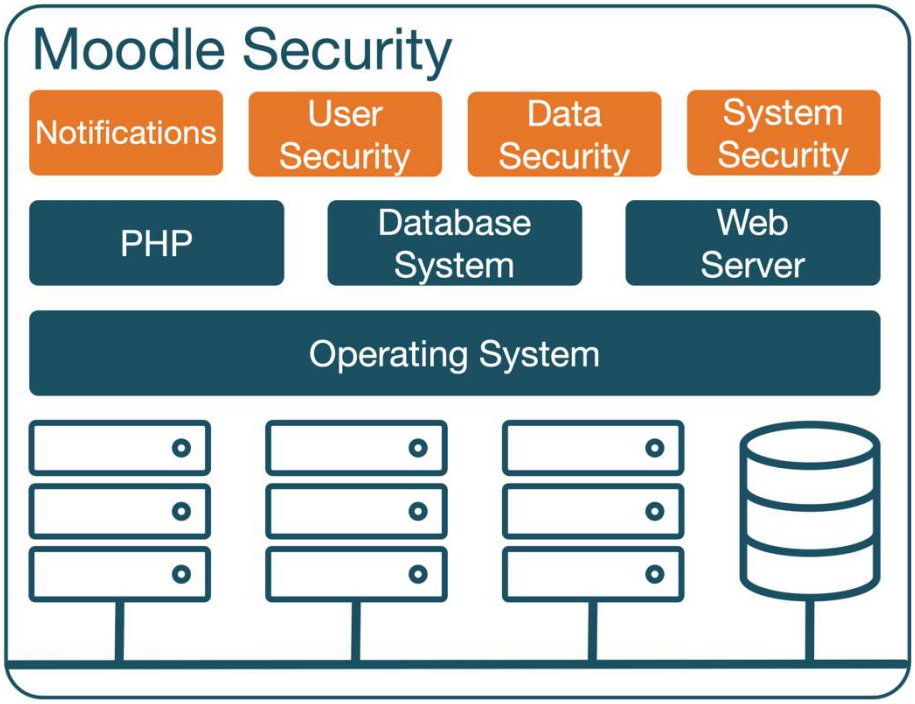


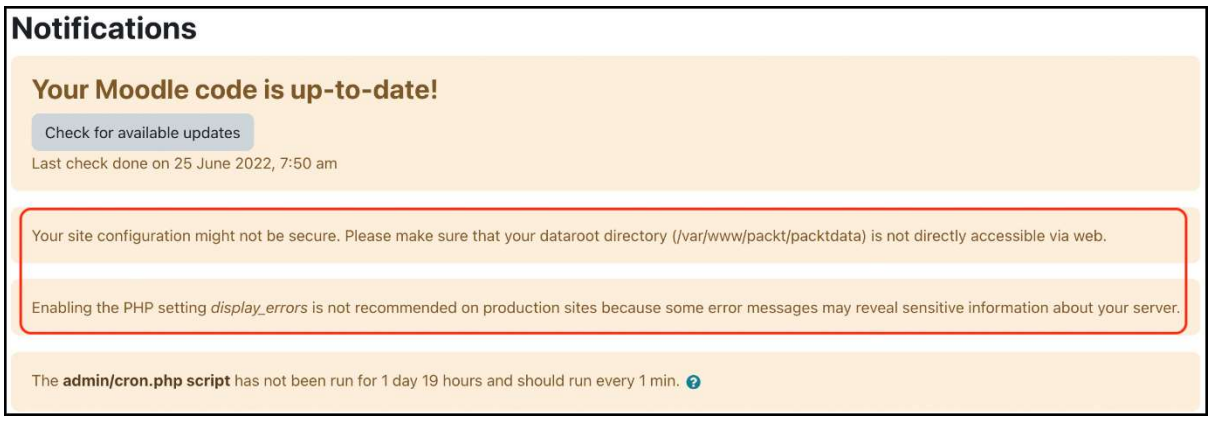

Site information
Modes of instruction
analytics | modeinstruction
Face to face
Blended or hybrid
Fully online
Default: None
Percent online
analytics | percentonline
70
Default: Empty
If your organisation offers blended or hybrid courses, what percentage of student work is conducted online in Moodle? Enter a number between 0 and 100.
Type of institution
analytics | typeinstitution
Academic
Corporate training
Non-governmental organization (NGO)
Default: None
Level of education
analytics | levelinstitution
Early childhood education ('less than primary' for educational attainment)
Primary education
Lower secondary education
Upper secondary education
Post-secondary non-tertiary education (may include corporate or community/NGO training)
Short-cycle tertiary education (may include corporate or community/NGO training)
Bachelor or equivalent level
Master or equivalent level
Doctoral or equivalent level
Default: None
Save changes

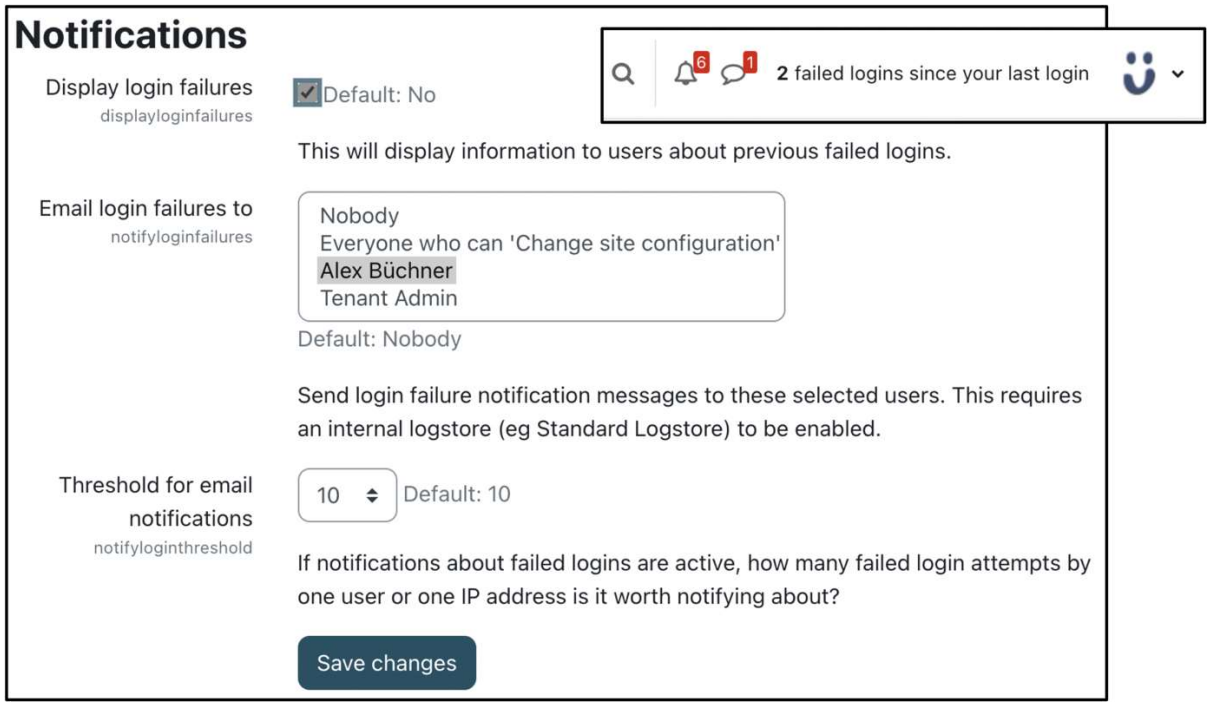

Insights
Students who have not accessed the course recently
The following students have not accessed a course they are enrolled in within the set analysis interval (by default the past month).
Send message
Accept
Not applicable
Incorrectly flagged
Description
Actions
Jeanie Hylton
Lydon Garman
Cobbie Broszkiewicz
Send message
Accept
Not applicable
Incorrectly flagged

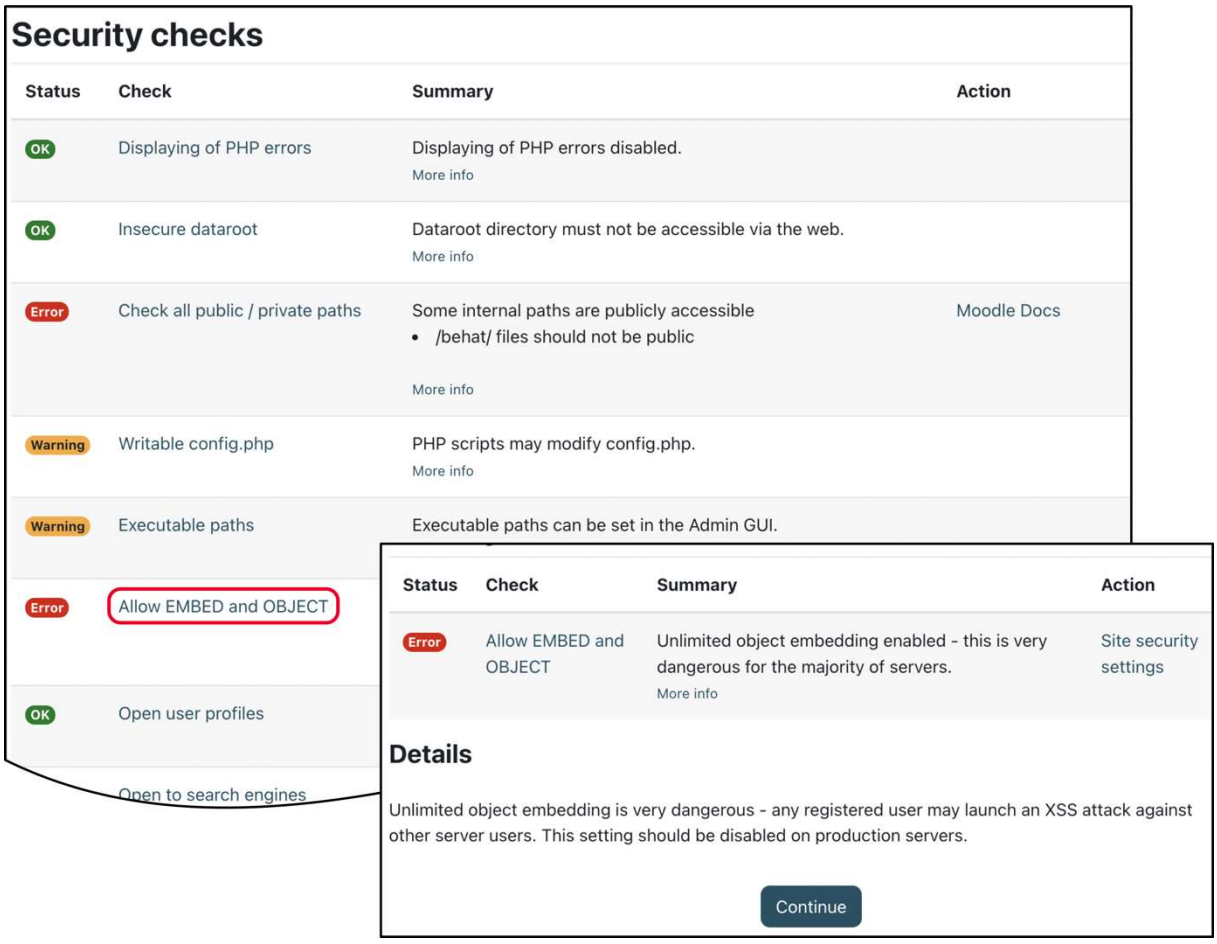

Edit "Students at risk of dropping out" model
General
Users
Courses
Grades
Plugins
Appearance
Server
Reports
Development
Enabled
Target
Students at risk of dropping out
Indicators
× Course accessed after end date
× Course accessed before start date
× Any write action in the course
× Read actions amount
× Completion tracking enabled
× Course potential cognitive depth
× Course potential social breadth
× Assignment cognitive
× Assignment social
× Book cognitive
× Book social
× Chat cognitive
× Chat social
× Choice cognitive
× Choice social
× Database social
× Feedback cognitive
× Feedback social
× Folder cognitive
× Folder social
× Glossary cognitive
× Glossary social
× IMS pkg cognitive
× IMS pkg social
× Lesson cognitive
× Lesson social
× LTI cognitive
× LTI social
× Page cognitive
× Page social
× File cognitive
× File social
× SCORM cognitive
× SCORM social
× Survey cognitive
× URL social
× Wiki cognitive
× Wiki social
× Workshop cognitive
× Workshop social
10% after start
All previous quarters
All previous tenths
From start to end
Last quarter
Last tenth
One month after start
One week after start
Past 3 days
Past month
Past week
Analysis interval
Contexts
All
Search
Predictions processor
Default processor (PHP machine learning backend)

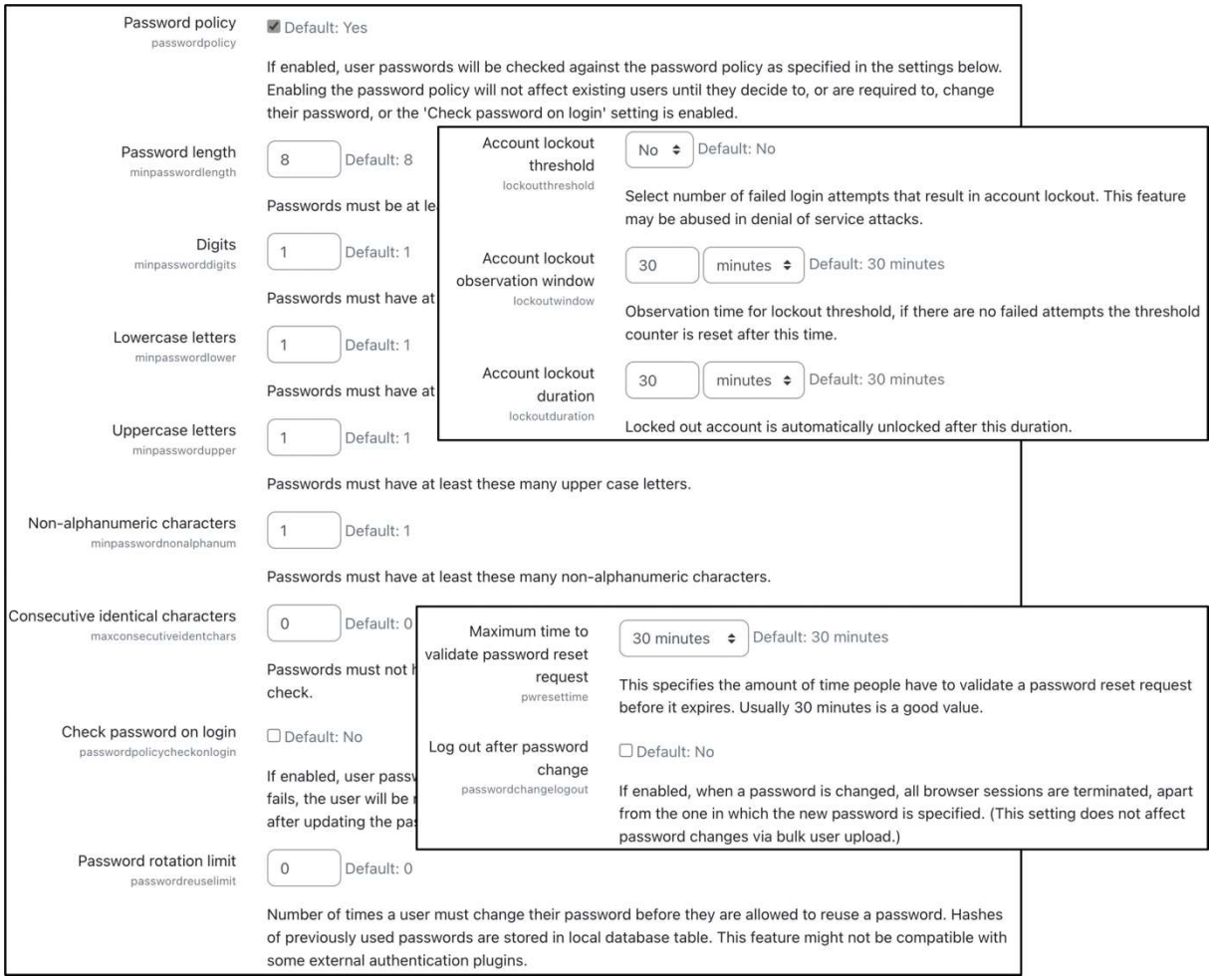
Chapter 13: Ensuring Moodle Security






Notifications
Display login failures
displayloginfailures
Default: No
2 failed logins since your last login
This will display information to users about previous failed logins.
Email login failures to
notifyloginfailures
Nobody
Everyone who can 'Change site configuration'
Alex Büchner
Tenant Admin
Default: Nobody
Send login failure notification messages to these selected users. This requires an internal logstore (eg Standard Logstore) to be enabled.
Threshold for email notifications
notifyloginthreshold
10
Default: 10
If notifications about failed logins are active, how many failed login attempts by one user or one IP address is it worth notifying about?
Save changes


Security checks
Status
Check
Summary
Action
OK
Displaying of PHP errors
Displaying of PHP errors disabled.
More info
OK
Insecure dataroot
Dataroot directory must not be accessible via the web.
More info
Error
Check all public / private paths
Some internal paths are publicly accessible
/behat/ files should not be public
More info
Moodle Docs
Warning
Writable config.php
PHP scripts may modify config.php.
More info
Warning
Executable paths
Executable paths can be set in the Admin GUI.
Error
Allow EMBED and OBJECT
OK
Open user profiles
Open to search engines
Status
Check
Summary
Action
Error
Allow EMBED and OBJECT
Unlimited object embedding enabled - this is very dangerous for the majority of servers.
More info
Site security settings
Details
Unlimited object embedding is very dangerous - any registered user may launch an XSS attack against other server users. This setting should be disabled on production servers.
Continue



Autodetect common spam patterns

Results of searching user profiles containing:<img, fuck, casino, porn, xxx, cialis, viagra, poker, warcraft

...

	User	Description	Operation
1	Bad Boy • Heidelberg • DE • bad.boy@[redacted]	**From forum post:** **fucktangular** describes a situation that was complicated and messy in multiple unpleasant and difficult ways.	Delete user Ignore

Delete all these user accounts

Allow EMBED and OBJECT tags
allowobjectembed

☐ Default: No

As a default security measure, normal users are not allowed to embed multimedia (like Flash) within texts using explicit EMBED and OBJECT tags in their HTML (although it can still be done safely using the mediaplugins filter). If you wish to allow these tags then enable this option.

Enable trusted content
enabletrusttext

☐ Default: No

By default Moodle will always thoroughly clean text that comes from users to remove any possible bad scripts, media etc that could be a security risk. The Trusted Content system is a way of giving particular users that you trust the ability to include these advanced features in their content without interference. To enable this system, you need to first enable this setting, and then grant the Trusted Content permission to a specific Moodle role. Texts created or uploaded by such users will be marked as trusted and will not be cleaned before display.

Manage antivirus plugins

Available antivirus plugins

Name	Enable	Up/Down	Settings	Uninstall
ClamAV antivirus	👁		Settings	

Please choose the antivirus plugins you wish to use and arrange them in order of being applied.
Changes in table above are saved automatically.

Common antivirus settings

Antivirus alert notification email
antivirus | notifyemail

Default: Empty

The email address for notifications of when a virus is detected. If left blank, then all site administrators will be sent notifications.

Notification level
antivirus | notifylevel

✓ Detected threats and scanner errors
Detected threats only

Default: Detected threats and scanner errors

Threshold for status check
antivirus | threshold

20 minutes Default: 20 minutes

How far back to check against previous results for errors etc. as reported in System status.

Enable quarantine
antivirus | enablequarantine

☐ Default: No

If enabled, any files which are detected as viruses will be placed in a quarantine folder ([dataroot]/antivirus_quarantine) for later inspection. The upload into Moodle will fail. If you have any file system level virus scanning in place, the quarantine folder should be excluded from the antivirus check to avoid detecting the quarantined files.

Maximum quarantine time
antivirus | quarantinetime

4 weeks Default: 4 weeks

Quarantined files older than the specified period will be removed.

Save changes

Cron execution via command line only
cronclionly

☑ Default: Yes

Running the cron from a web browser can expose privileged information to anonymous users. Thus it is recommended to only run the cron from the command line or set a cron password for remote access.

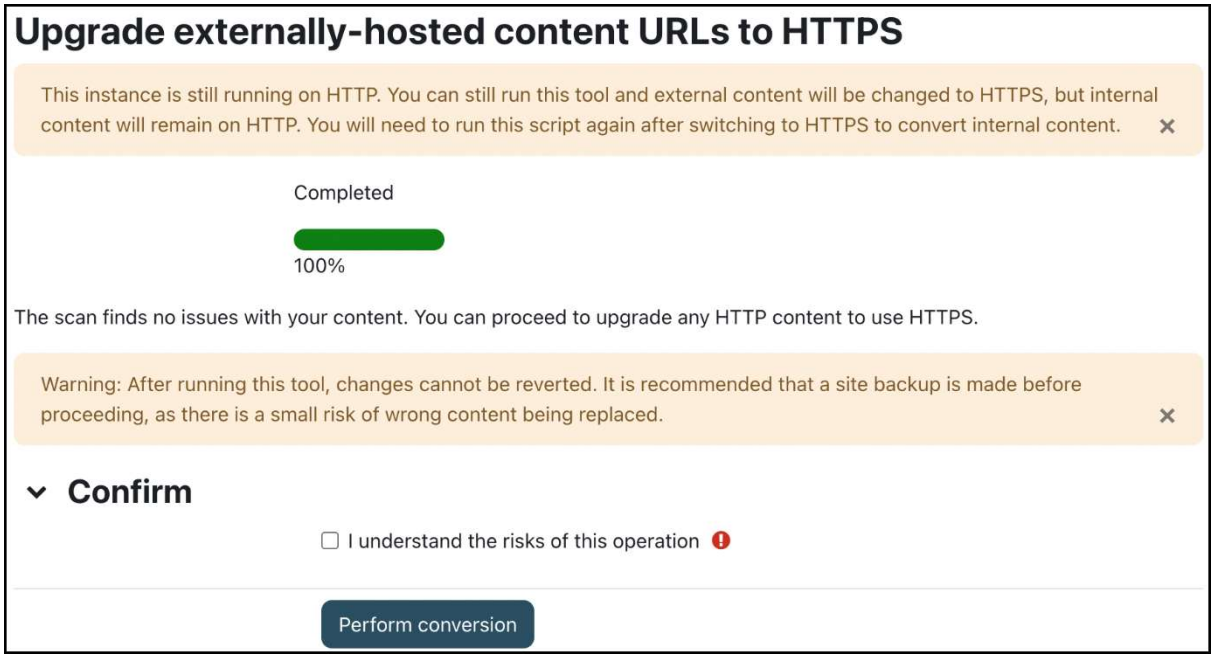
Cron password for remote access
cronremotepassword

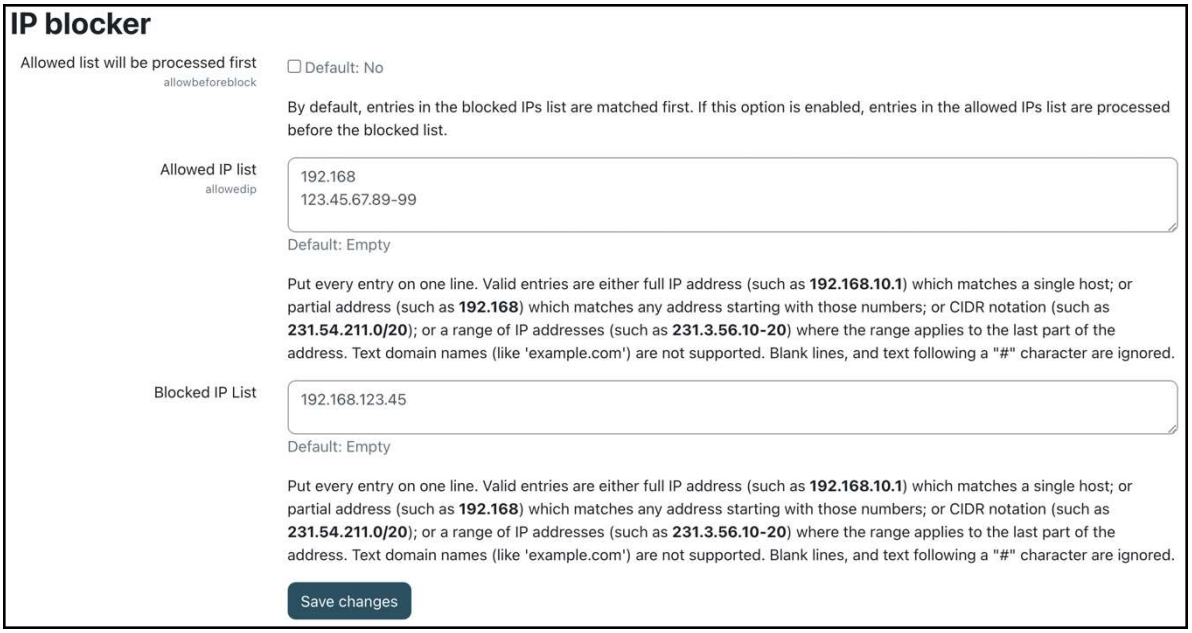
••••••••••••••• ✎ 👁

This means that the cron.php script cannot be run from a web browser without supplying the password using the following form of URL:

```
https://site.example.com/admin/cron.php?password=opensesame
```

If this is left empty, no password is required.


Upgrade externally-hosted content URLs to HTTPS
This instance is still running on HTTP. You can still run this tool and external content will be changed to HTTPS, but internal content will remain on HTTP. You will need to run this script again after switching to HTTPS to convert internal content.
Completed
100%
The scan finds no issues with your content. You can proceed to upgrade any HTTP content to use HTTPS.
Warning: After running this tool, changes cannot be reverted. It is recommended that a site backup is made before proceeding, as there is a small risk of wrong content being replaced.
Confirm
I understand the risks of this operation
Perform conversion

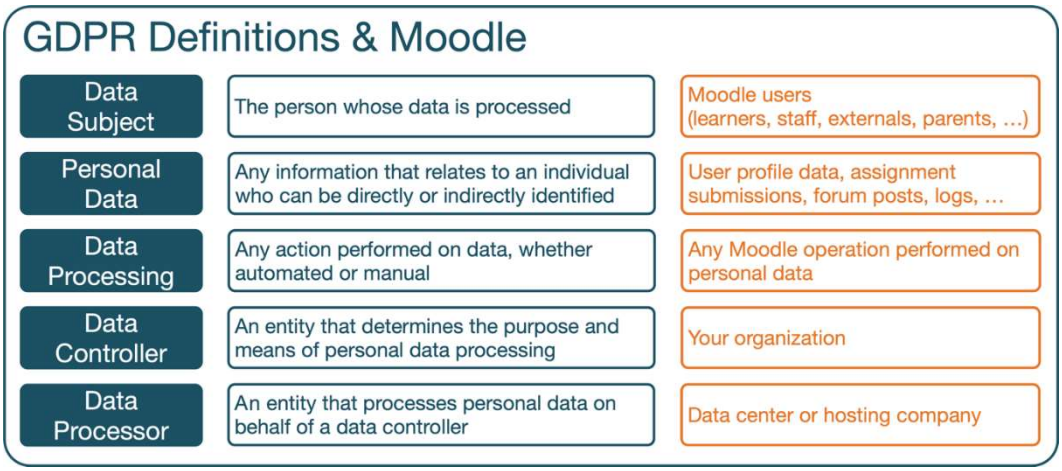

IP blocker
Allowed list will be processed first
allowbeforeblock
Default: No
By default, entries in the blocked IPs list are matched first. If this option is enabled, entries in the allowed IPs list are processed before the blocked list.
Allowed IP list
allowedip
192.168
123.45.67.89-99
Default: Empty
Put every entry on one line. Valid entries are either full IP address (such as 192.168.10.1) which matches a single host; or partial address (such as 192.168) which matches any address starting with those numbers; or CIDR notation (such as 231.54.211.0/20); or a range of IP addresses (such as 231.3.56.10-20) where the range applies to the last part of the address. Text domain names (like 'example.com') are not supported. Blank lines, and text following a "#" character are ignored.
Blocked IP List
192.168.123.45
Default: Empty
Put every entry on one line. Valid entries are either full IP address (such as 192.168.10.1) which matches a single host; or partial address (such as 192.168) which matches any address starting with those numbers; or CIDR notation (such as 231.54.211.0/20); or a range of IP addresses (such as 231.3.56.10-20) where the range applies to the last part of the address. Text domain names (like 'example.com') are not supported. Blank lines, and text following a "#" character are ignored.
Save changes

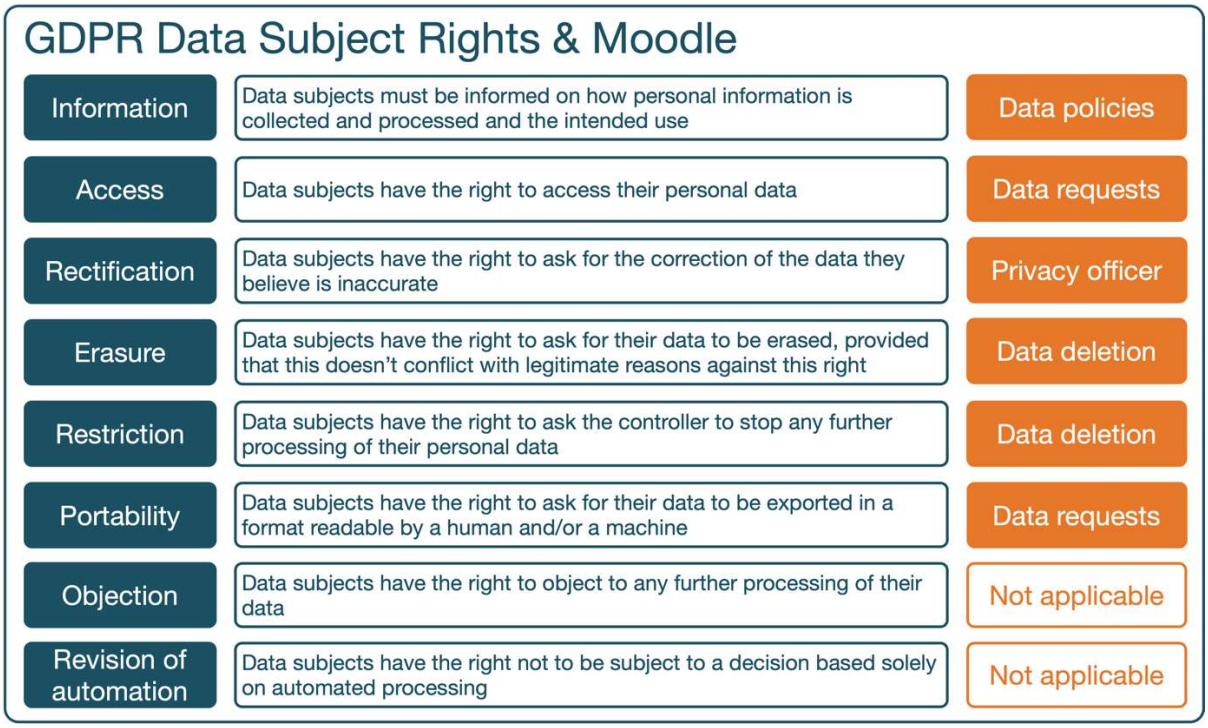
Moodle Security Best Practices

☑ Perform regular updates & security patches	Chapter 1
☑ Have a disaster recovery plan	Courses I Backups & Chapter 16
☑ Only install trusted plugins you need	Plugins I Plugins overview
☑ Follow the principle of 'least privilege'	Users I Permissions & Chapter 6
☑ Use strong passwords	General I Security I Site security settings
☑ Use HTTPS!	General I Security I HTTP security
☑ Configure security notifications	General I Security I Notifications moodle.org/security
☑ Run regular security audits	Reports I Security checks

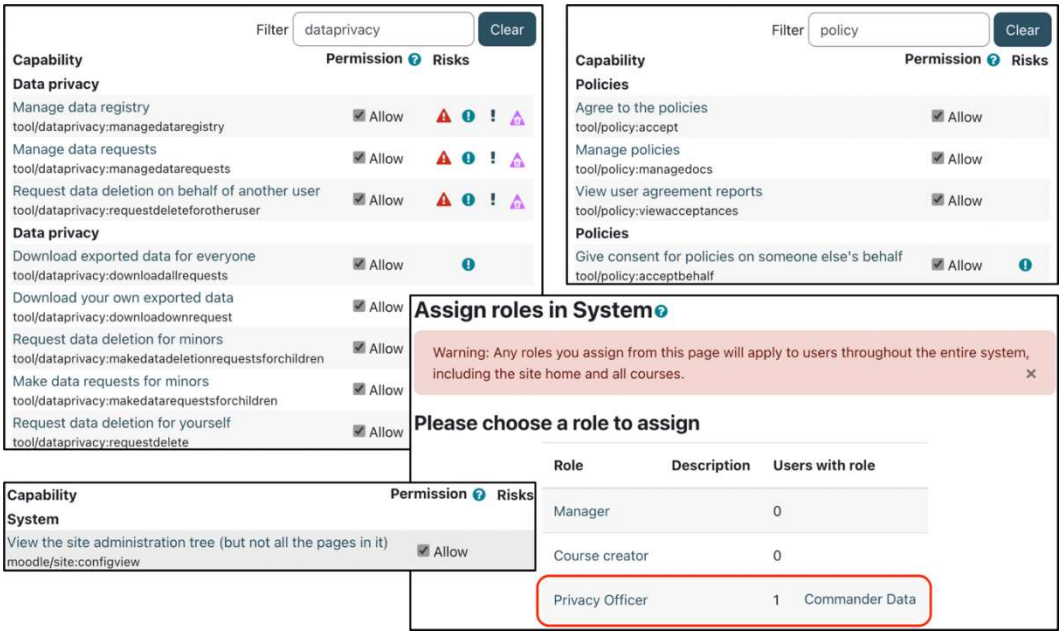
Be prepared for the worst!

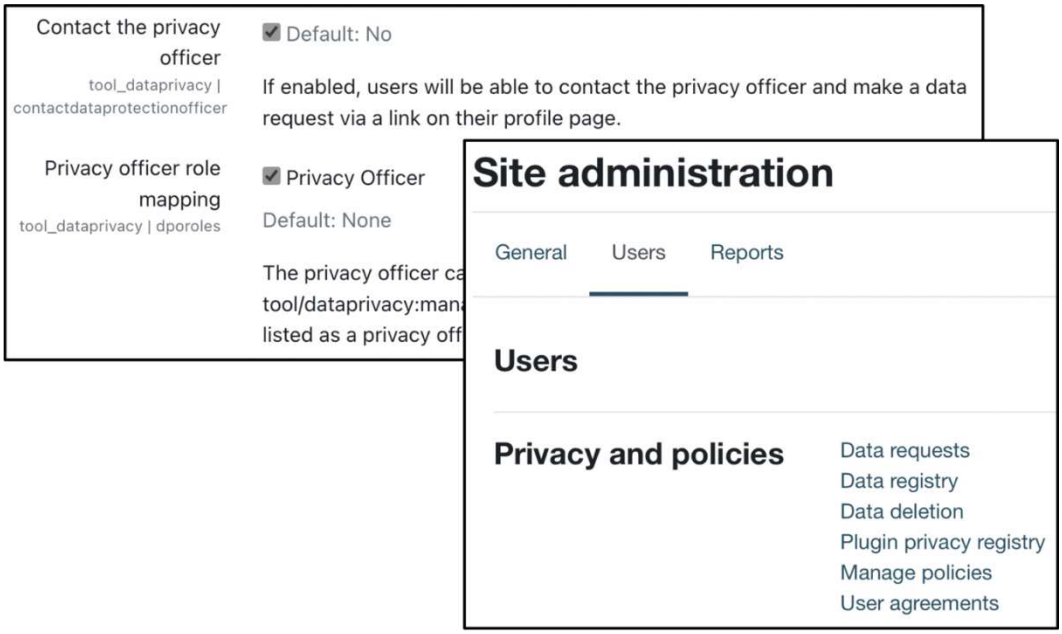
Chapter 14: Complying with Data Protection Regulations

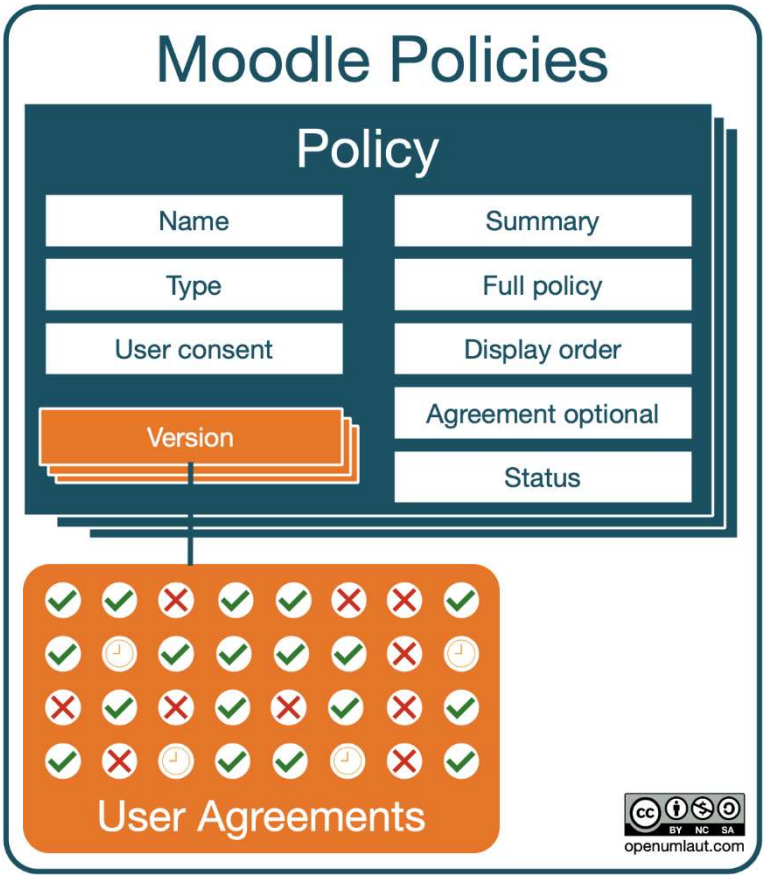


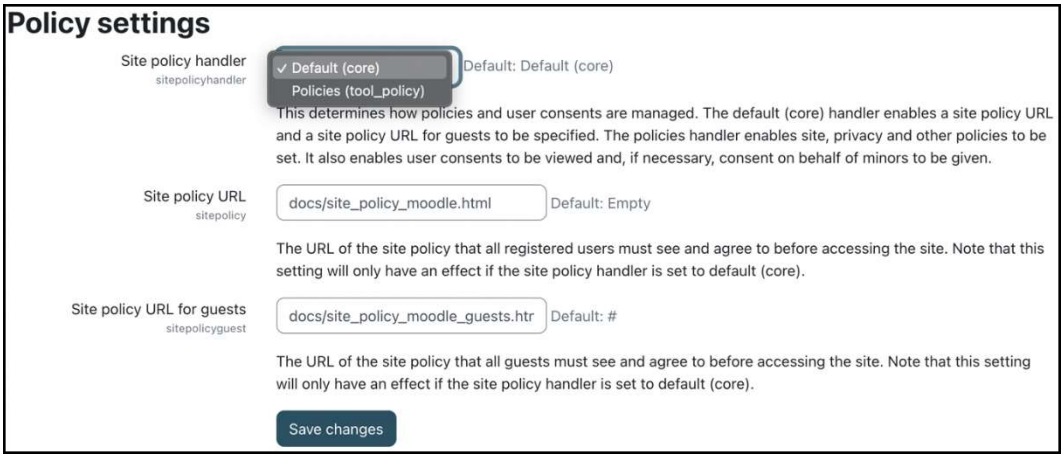



Privacy and policies
Contact the privacy officer
Data requests
Export all of my personal data
Delete my account
Data retention summary
Policies and agreements


Filter dataprivacy Clear
Capability Permission Risks
Data privacy
Manage data registry tool/dataprivacy:managedataregistry Allow
Manage data requests tool/dataprivacy:managedatarequests Allow
Request data deletion on behalf of another user tool/dataprivacy:requestdeleteforotheruser Allow
Data privacy
Download exported data for everyone tool/dataprivacy:downloadallrequests Allow
Download your own exported data tool/dataprivacy:downloadownrequest Allow
Request data deletion for minors tool/dataprivacy:makedatadeletionrequestsforchildren Allow
Make data requests for minors tool/dataprivacy:makedatarequestsforchildren Allow
Request data deletion for yourself tool/dataprivacy:requestdelete Allow
Filter policy Clear
Capability Permission Risks
Policies
Agree to the policies tool/policy:accept Allow
Manage policies tool/policy:managedocs Allow
View user agreement reports tool/policy:viewacceptances Allow
Policies
Give consent for policies on someone else's behalf tool/policy:acceptbehalf Allow
Capability Permission Risks
System
View the site administration tree (but not all the pages in it) moodle/site:configview Allow
Assign roles in System
Warning: Any roles you assign from this page will apply to users throughout the entire system, including the site home and all courses.
Please choose a role to assign
Role Description Users with role
Manager 0
Course creator 0
Privacy Officer 1 Commander Data


Contact the privacy officer
tool_dataprivacy | contactdataprotectionofficer
Default: No
If enabled, users will be able to contact the privacy officer and make a data request via a link on their profile page.
Privacy officer role mapping
tool_dataprivacy | dporoles
Privacy Officer
Default: None
Site administration
General
Users
Reports
Users
Privacy and policies
Data requests
Data registry
Data deletion
Plugin privacy registry
Manage policies
User agreements


Moodle Policies
Policy
Name
Summary
Type
Full policy
User consent
Display order
Agreement optional
Version
Status
User Agreements
openumlaut.com


Policy settings
Site policy handler
sitepolicyhandler
Default (core)
Policies (tool_policy)
Default: Default (core)
This determines how policies and user consents are managed. The default (core) handler enables a site policy URL and a site policy URL for guests to be specified. The policies handler enables site, privacy and other policies to be set. It also enables user consents to be viewed and, if necessary, consent on behalf of minors to be given.
Site policy URL
sitepolicy
docs/site_policy_moodle.html
Default: Empty
The URL of the site policy that all registered users must see and agree to before accessing the site. Note that this setting will only have an effect if the site policy handler is set to default (core).
Site policy URL for guests
sitepolicyguest
docs/site_policy_moodle_guests.htr
Default: #
The URL of the site policy that all guests must see and agree to before accessing the site. Note that this setting will only have an effect if the site policy handler is set to default (core).
Save changes


Policies and agreements
New policy
Name
Policy status
Version
Agreements
Moodle privacy notice
Site policy, All users, Compulsory
Active
26 February 2022
30 June 2022, 11:31 am
2 of 132 (2%)
Actions
Moodle cookies policy
Site policy, All users, Compulsory
Draft
26 February 2022
30 June 2022, 11:30 am
View
Edit
Set status to "Active"
Delete
Third-party privacy
Site policy, All users, Optional
Draft
26 February 2022
30 June 2022, 11:32 am

Editing policy

Name: Moodle cookies policy

Type: Site policy
- ✓ Site policy
- Privacy policy
- Third parties policy
- Other policy

User consent: All users
- ✓ All users
- Authenticated users
- Guests

Version: 26 February 2022

Summary:

Moodle cookies policy version 1 (26 February 2022)

Full policy:

COOKIES POLICY

Effective: 26 February 2022

We use cookies on this site and all affiliated websites (collectively the "Site").

Our Cookies Policy explains what cookies are, how we use cookies, how third-parties we partner with may use cookies on the Site, and your choices regarding cookies. Please read this Cookies Policy in conjunction with our Privacy Notice, which sets out additional details on how we use personally identifiable information and your various rights.

WHAT ARE COOKIES

Cookies are small pieces of text sent by your web browser by a website you visit. A cookie file is stored in your web browser and

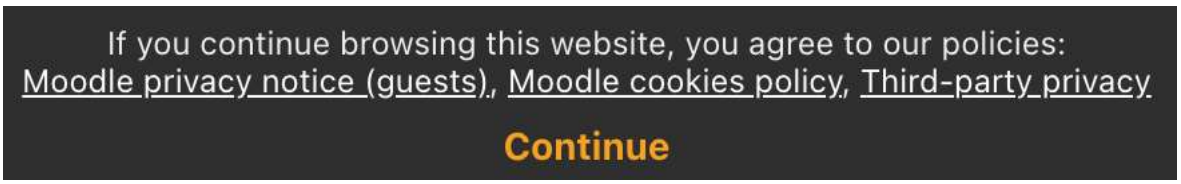
Show policy before showing other policies: No

Agreement optional: No

Policy status:
- ○ Active
- ◉ Draft

A policy with 'Active' status requires users to give their consent, either when they first log in, or in the case of existing users when they next log in.

Save | Cancel



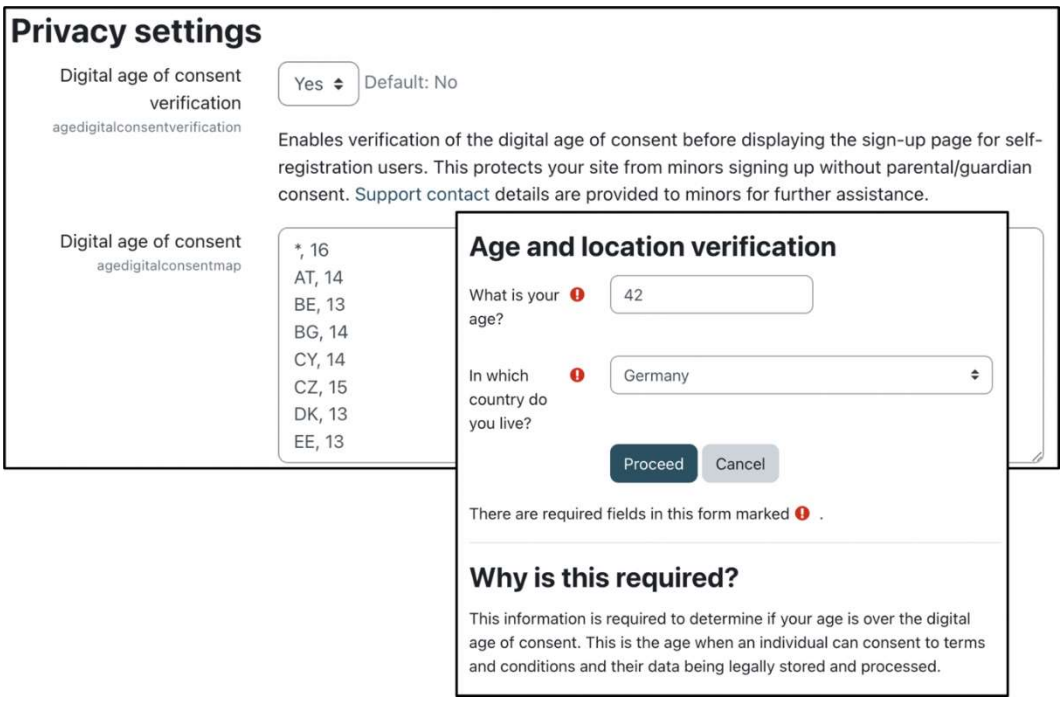
CD

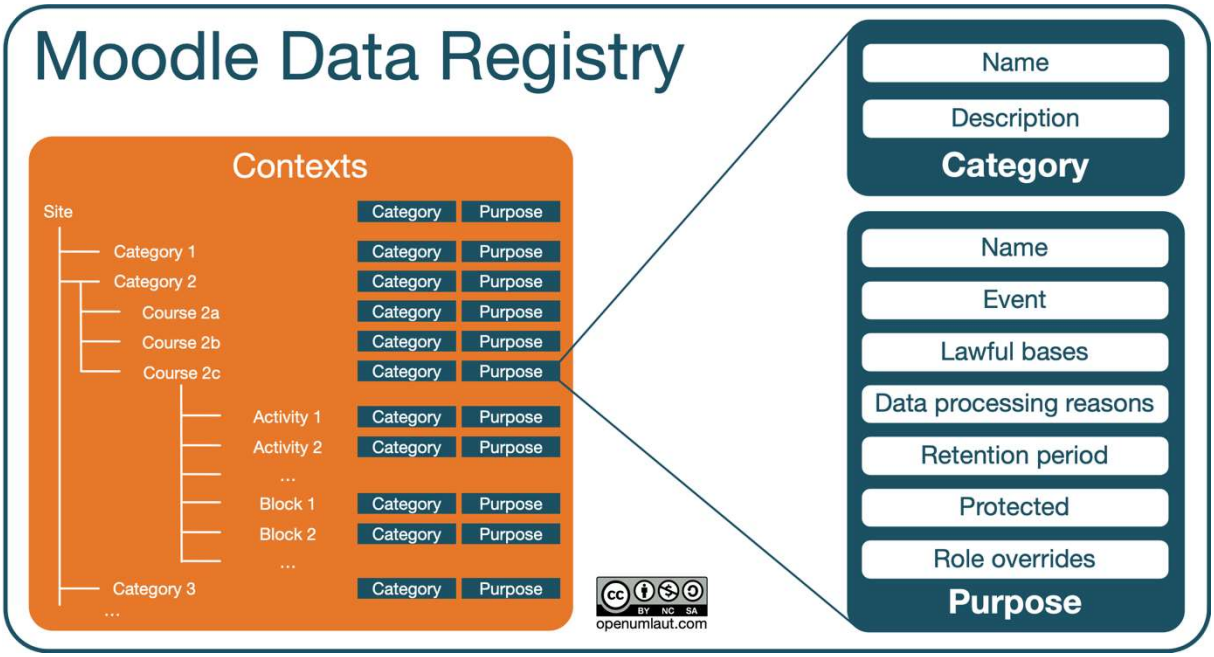
Commander Data

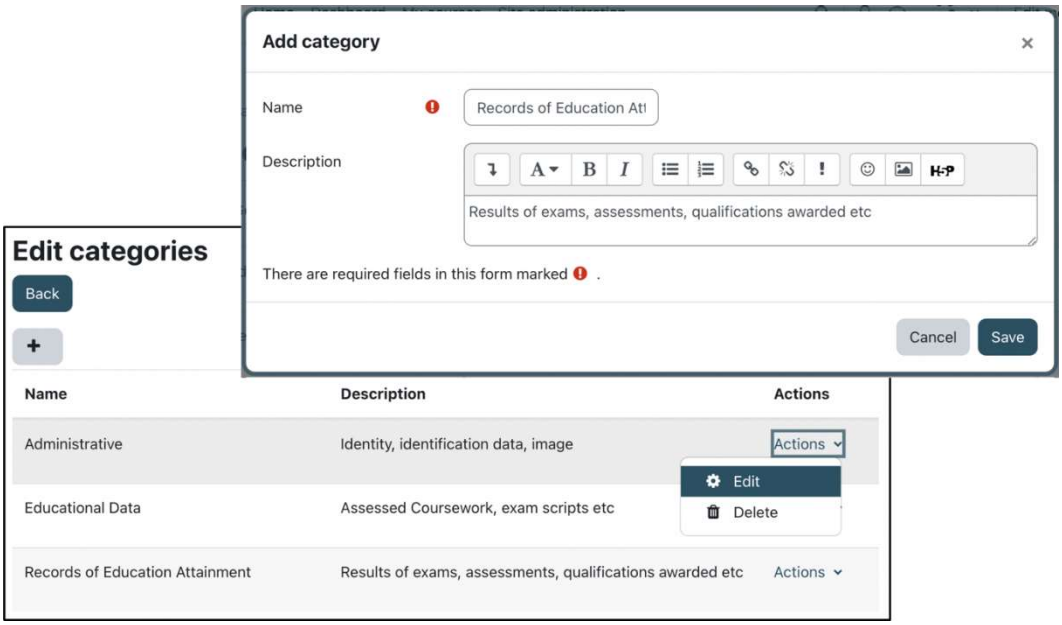
Message

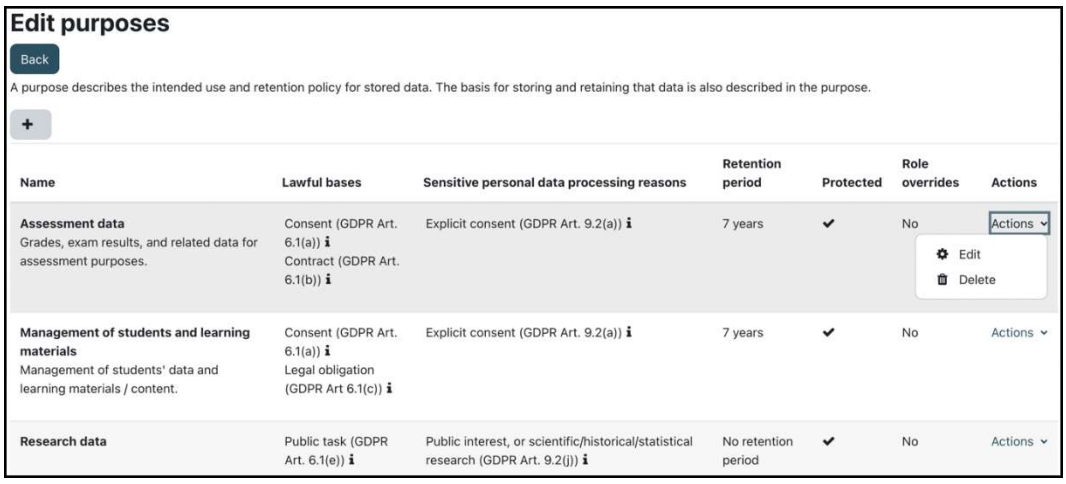
Policies and agreements

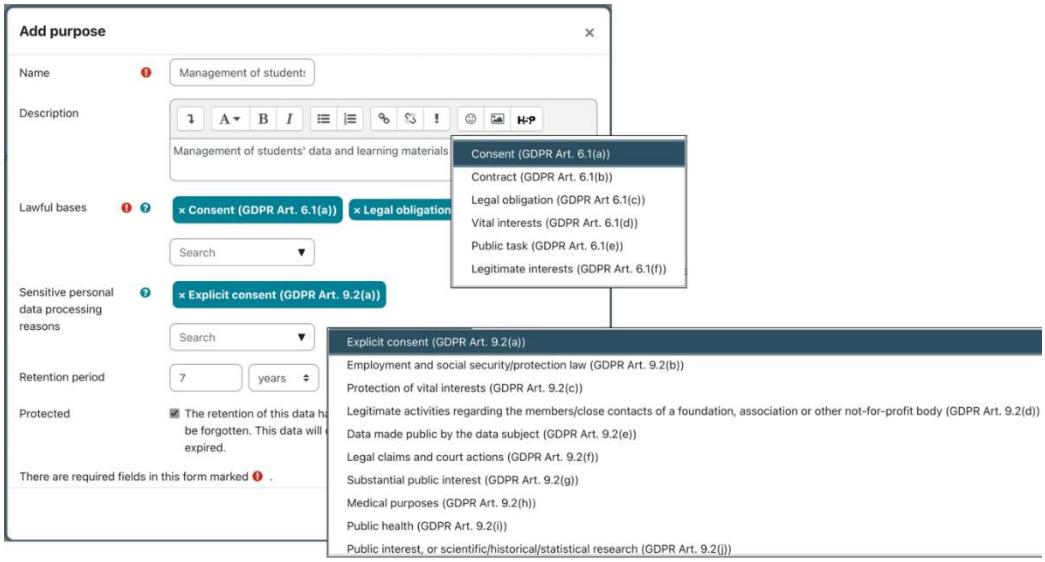
Name	Version	Response	Date	Respondent	Remarks
Moodle privacy notice	Version 1.2 (10 June 2022) - v2 Active	✔ Accepted Withdraw	1 July 2022, 11:28 am		
Moodle cookies policy	Version 1.2 (26 February 2022) - v3 Active	✔ Accepted Withdraw	1 July 2022, 11:28 am		
↳ Moodle cookies policy	Version 1.2 (26 February 2022) - v2	✔ Accepted Withdraw	1 July 2022, 10:51 am		
↳ Moodle cookies policy	26 February 2022	✔ Accepted Withdraw	30 June 2022, 9:45 am		
Third-party privacy	26 February 2022 Active Optional	✖ Declined Accept	1 July 2022, 10:51 am		

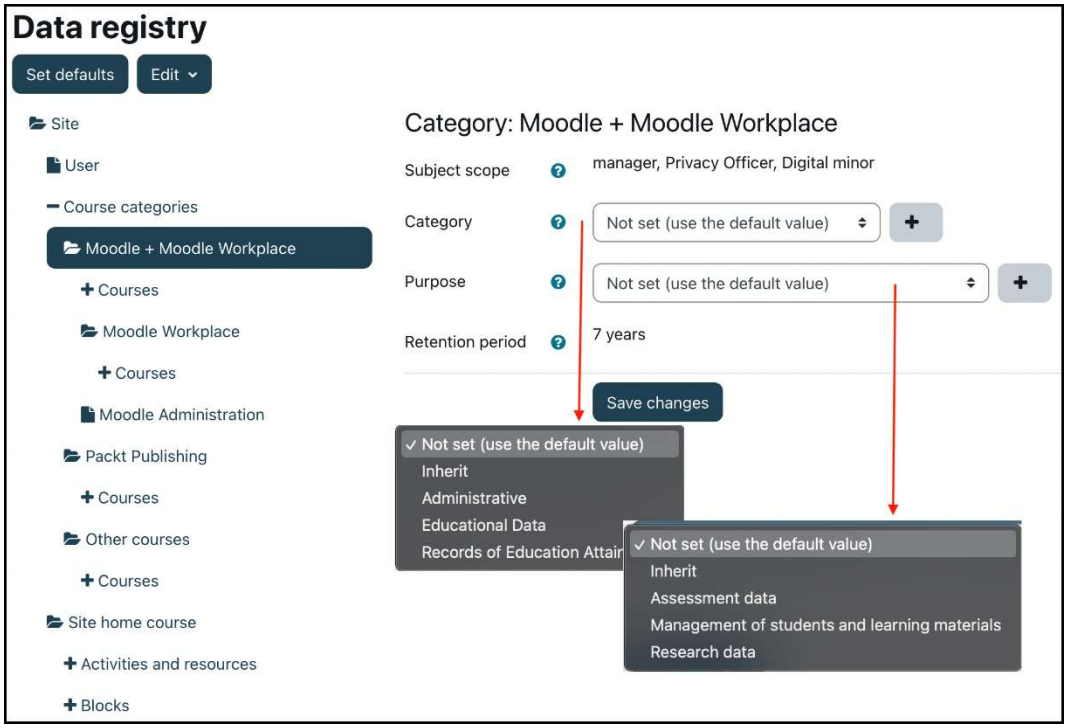



Moodle Data Registry
Contexts
Site
Category 1
Category 2
Course 2a
Course 2b
Course 2c
Activity 1
Activity 2
Block 1
Block 2
Category 3
Category
Purpose
openumlaut.com
Name
Description
Category
Name
Event
Lawful bases
Data processing reasons
Retention period
Protected
Role overrides
Purpose


Add category
Name
Records of Education At
Description
Results of exams, assessments, qualifications awarded etc
There are required fields in this form marked .
Cancel
Save
Edit categories
Back
Name
Description
Actions
Administrative
Identity, identification data, image
Actions
Edit
Delete
Educational Data
Assessed Coursework, exam scripts etc
Records of Education Attainment
Results of exams, assessments, qualifications awarded etc
Actions

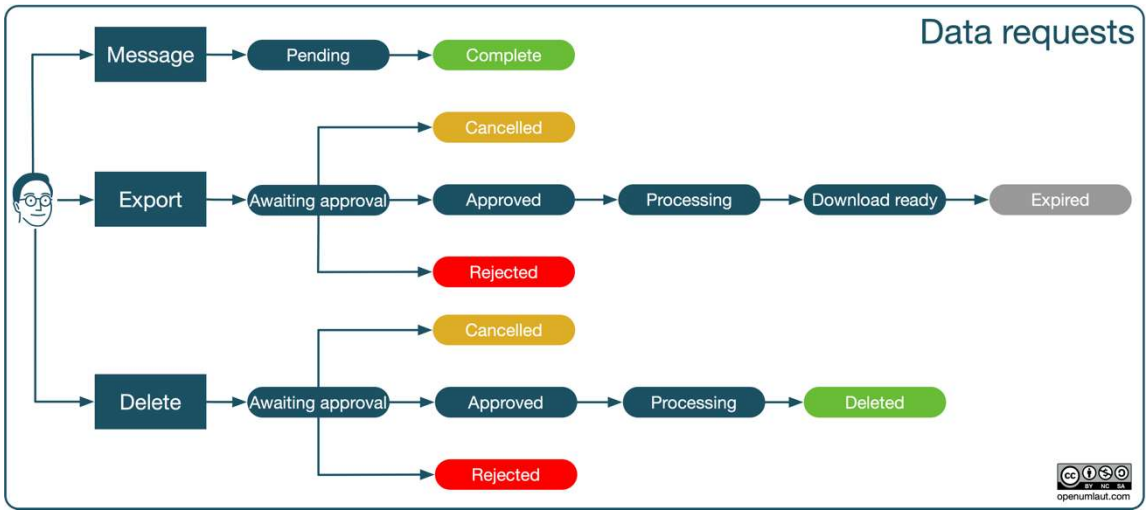

Edit purposes
Back
A purpose describes the intended use and retention policy for stored data. The basis for storing and retaining that data is also described in the purpose.
Name
Lawful bases
Sensitive personal data processing reasons
Retention period
Protected
Role overrides
Actions
Assessment data
Grades, exam results, and related data for assessment purposes.
Consent (GDPR Art. 6.1(a))
Contract (GDPR Art. 6.1(b))
Explicit consent (GDPR Art. 9.2(a))
7 years
No
Actions
Edit
Delete
Management of students and learning materials
Management of students' data and learning materials / content.
Consent (GDPR Art. 6.1(a))
Legal obligation (GDPR Art 6.1(c))
Explicit consent (GDPR Art. 9.2(a))
7 years
No
Actions
Research data
Public task (GDPR Art. 6.1(e))
Public interest, or scientific/historical/statistical research (GDPR Art. 9.2(j))
No retention period
No
Actions

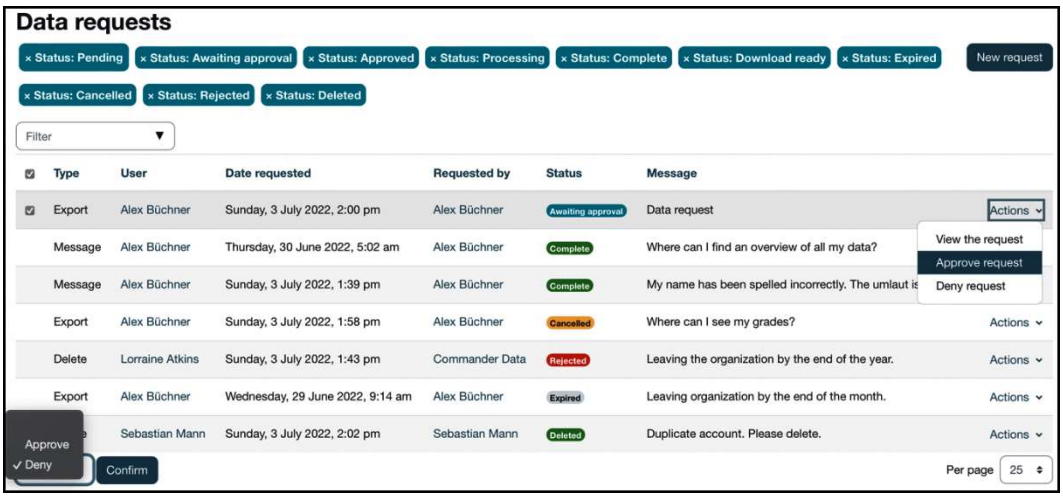


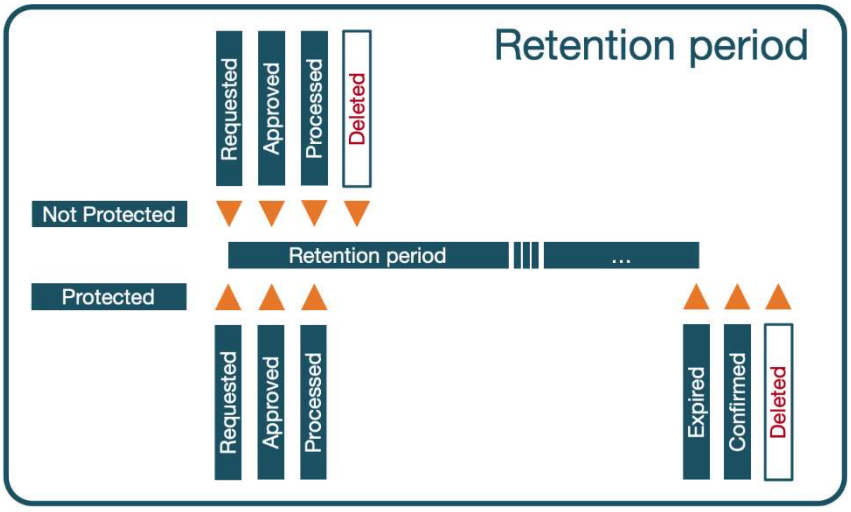


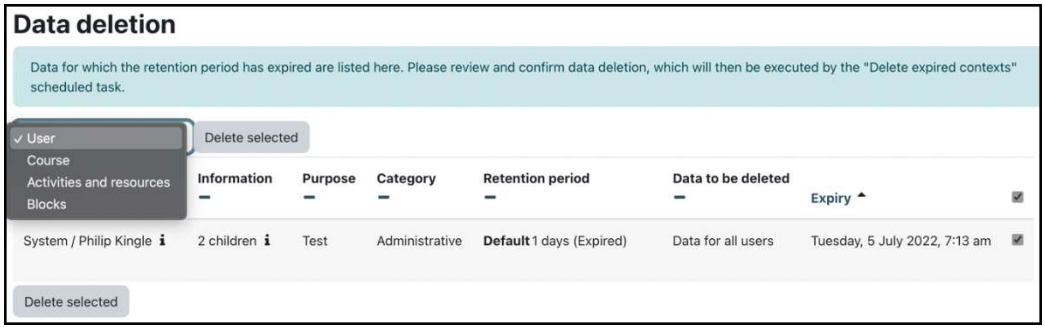
Awards

Privacy friendly


Data requests
Message
Pending
Complete
Export
Cancelled
Awaiting approval
Approved
Processing
Download ready
Expired
Rejected
Delete
Cancelled
Awaiting approval
Approved
Processing
Deleted
Rejected
openumlaut.com


Data requests
× Status: Pending
× Status: Awaiting approval
× Status: Approved
× Status: Processing
× Status: Complete
× Status: Download ready
× Status: Expired
New request
× Status: Cancelled
× Status: Rejected
× Status: Deleted
Filter
Type
User
Date requested
Requested by
Status
Message
Export
Alex Büchner
Sunday, 3 July 2022, 2:00 pm
Alex Büchner
Awaiting approval
Data request
Actions
View the request
Approve request
Deny request
Message
Alex Büchner
Thursday, 30 June 2022, 5:02 am
Alex Büchner
Complete
Where can I find an overview of all my data?
Message
Alex Büchner
Sunday, 3 July 2022, 1:39 pm
Alex Büchner
Complete
My name has been spelled incorrectly. The umlaut is
Export
Alex Büchner
Sunday, 3 July 2022, 1:58 pm
Alex Büchner
Cancelled
Where can I see my grades?
Actions
Delete
Lorraine Atkins
Sunday, 3 July 2022, 1:43 pm
Commander Data
Rejected
Leaving the organization by the end of the year.
Actions
Export
Alex Büchner
Wednesday, 29 June 2022, 9:14 am
Alex Büchner
Expired
Leaving organization by the end of the month.
Actions
Sebastian Mann
Sunday, 3 July 2022, 2:02 pm
Sebastian Mann
Deleted
Duplicate account. Please delete.
Actions
Approve
Deny
Confirm
Per page
25


Retention period
Requested
Approved
Processed
Deleted
Not Protected
Retention period
...
Protected
Requested
Approved
Processed
Expired
Confirmed
Deleted



Consider courses without end date as active

tool_dataprivacy | requireallenddatesforuserdeletion

Default: Yes

When calculating user expiry, several factors are considered:

- the user's last login time is compared against the retention period for users; and
- whether the user is actively enrolled in any courses.

When checking the active enrolment in a course, if the course has no end date then this setting is used to determine whether that course is considered active or not.

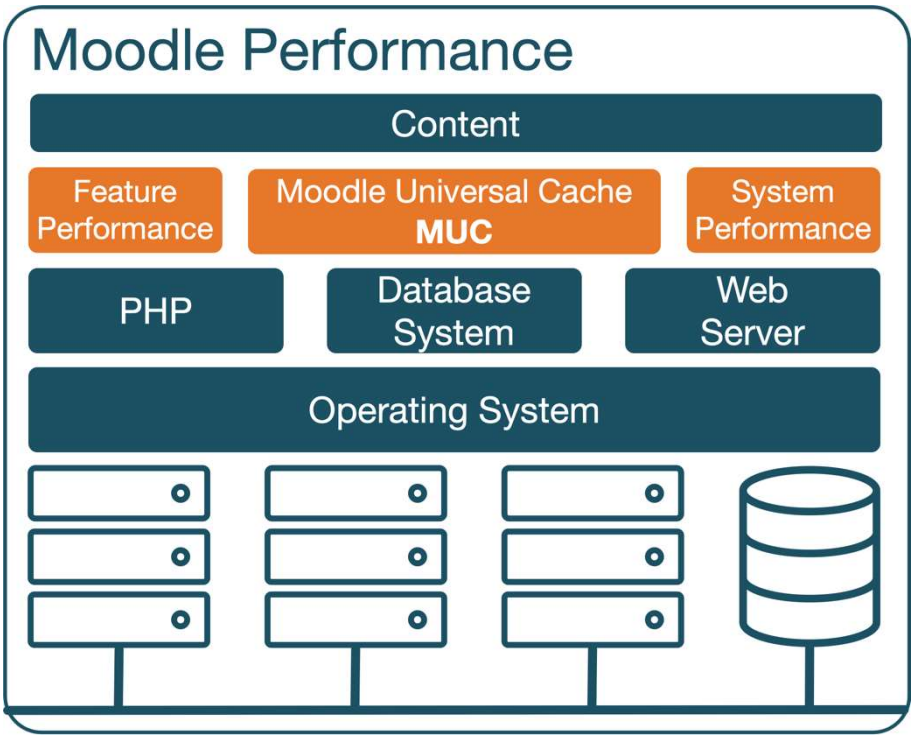
If the course has no end date, and this setting is enabled, then the user cannot be deleted.

Moodle Privacy Checklist

☑ Does GDPR apply to your Moodle site?	Hosted in EU or Any user is an individual from an EU member state
☑ Designate data privacy officer(s)	Create privacy officer role Users I Privacy and policies I Privacy settings
☑ Create policies	Users I Privacy and policies I Policy settings Users I Privacy and policies I Manage policies
☑ Do you have minors on your Moodle site?	Users I Privacy and policies I Privacy settings Configure roles with tool/policy:accept capability
☑ Monitor user agreements	Users I Privacy and policies I User agreements
☑ Configure data registry	Users I Privacy and policies I Data registry
☑ Only install privacy-friendly plugins	Users I Privacy and policies I Plugin privacy registry https://moodle.org/plugins/?q=award:privacy
☑ Manage data requests	Users I Privacy and policies I Data requests

Collaborate with a legal expert during the entire process

Chapter 15: Optimizing Moodle Performance



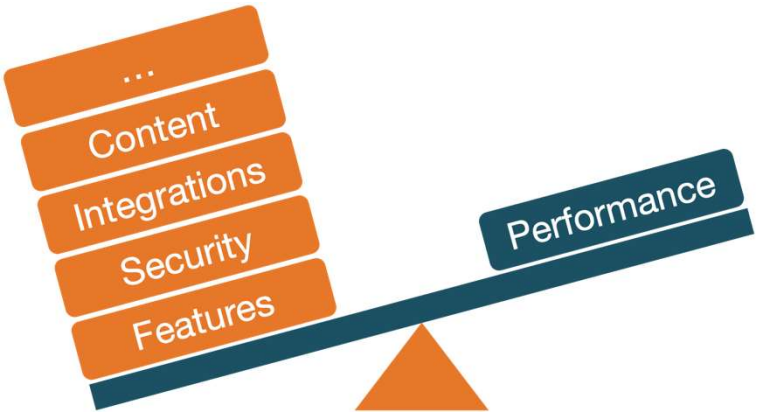
Environment

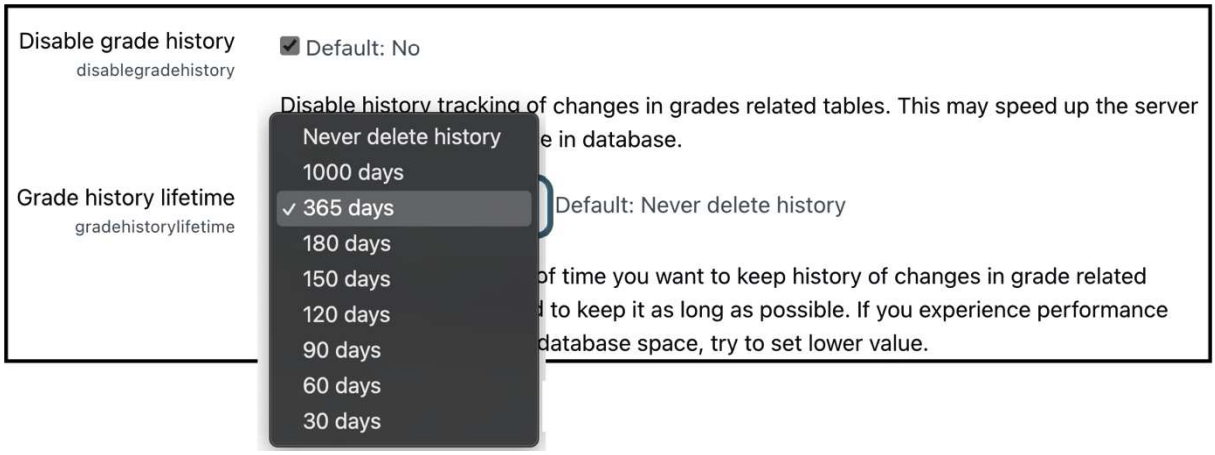
Check how your server suits current and future installation requirements

Moodle version 4.0 upwards

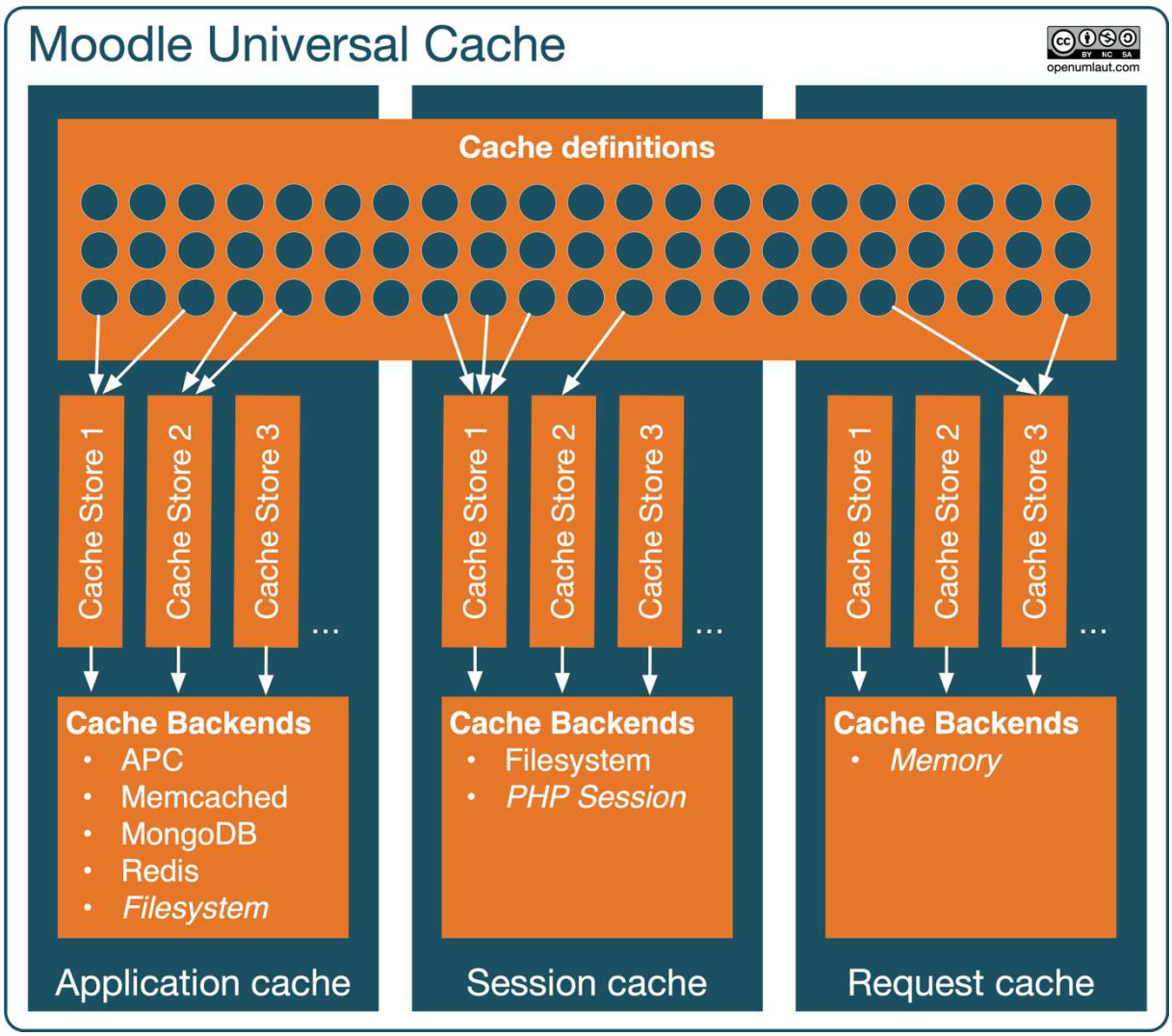
Server checks

Name	Information	Report	Plugin	Status
php_setting	opcache.enable	PHP setting should be changed. PHP opcode caching improves performance and lowers memory requirements, OPcache extension is recommended and fully supported.		Check

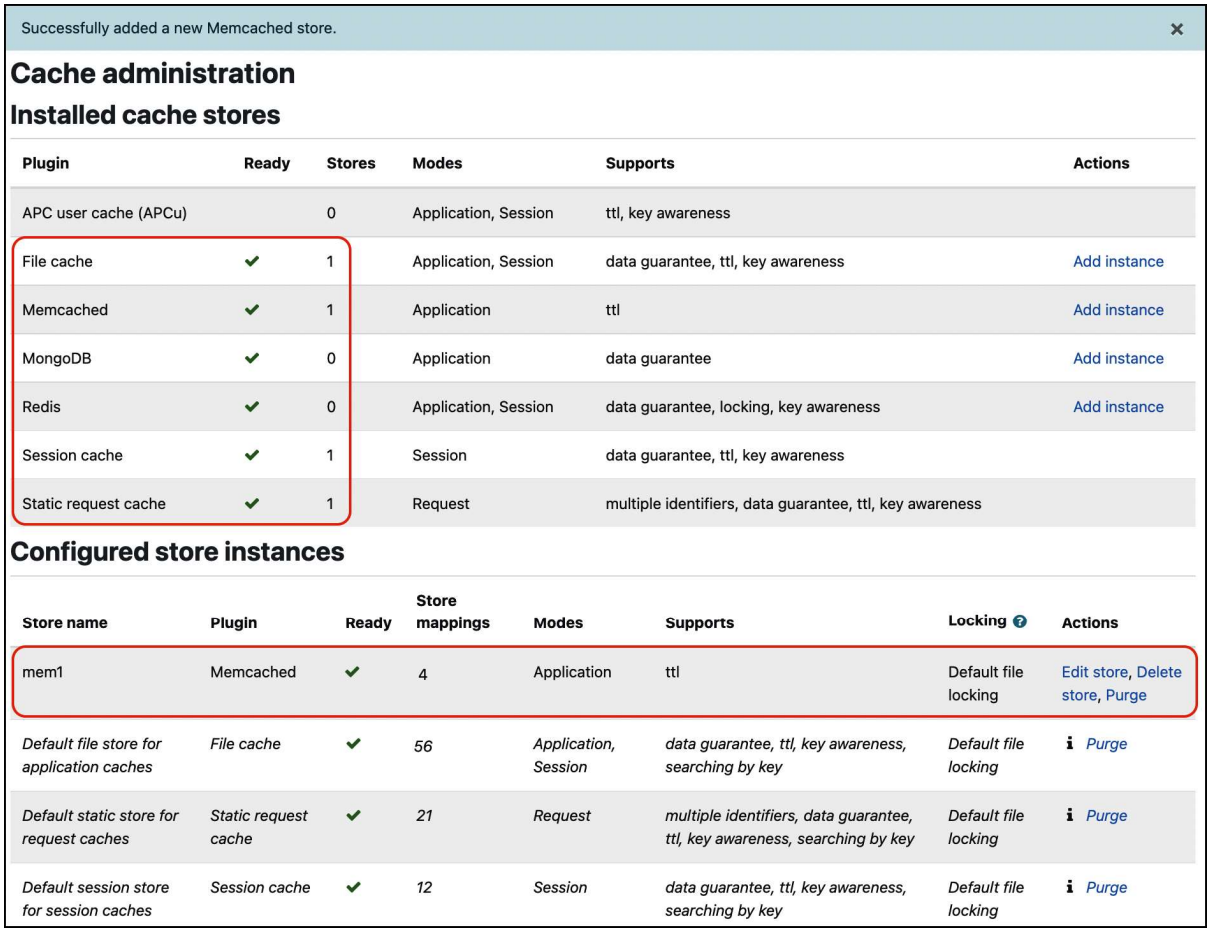


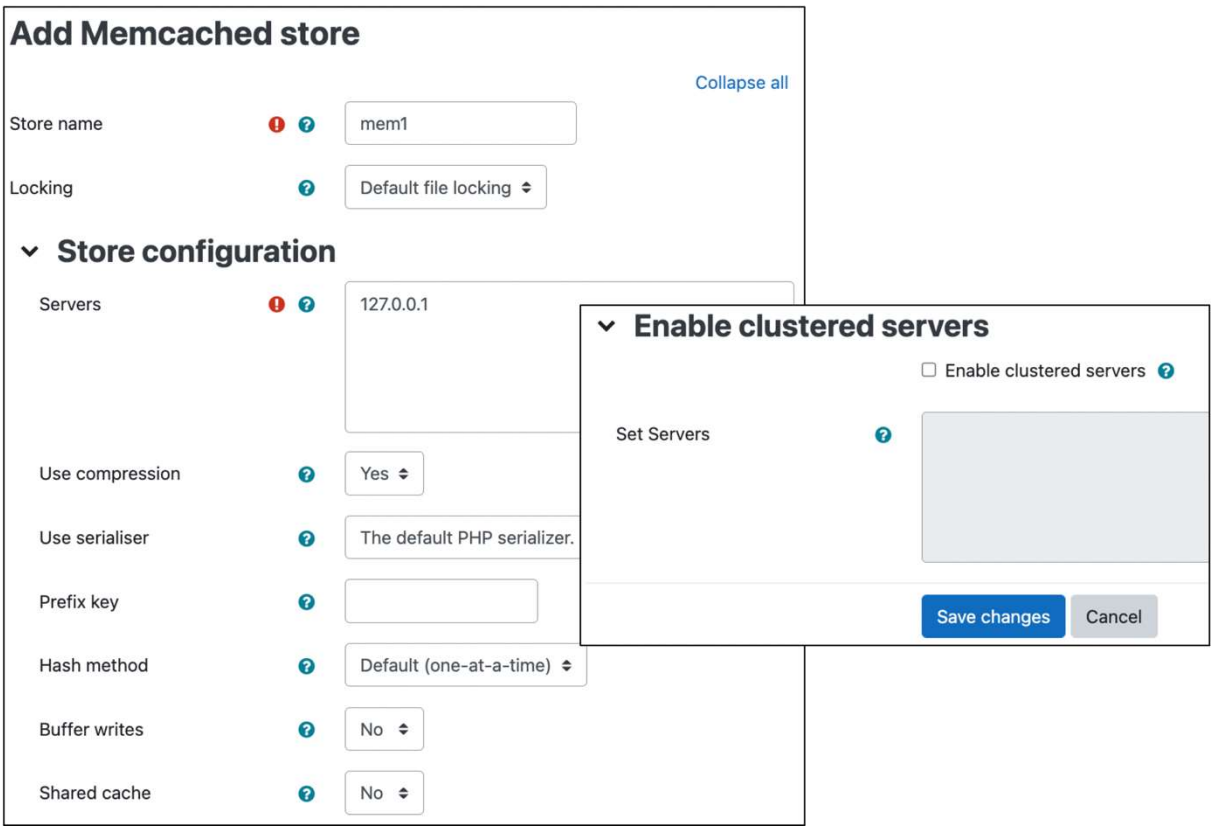

Disable grade history
disablegradehistory
Default: No
Disable history tracking of changes in grades related tables. This may speed up the server
e in database.
Grade history lifetime
gradehistorylifetime
Never delete history
1000 days
365 days
180 days
150 days
120 days
90 days
60 days
30 days
Default: Never delete history
of time you want to keep history of changes in grade related
to keep it as long as possible. If you experience performance
database space, try to set lower value.


AJAX Method
Normal Method
Server Daemon
Refresh user list
Disconnect timeout
Refresh room
Update method
Max users



	Application Cache	Session Cache	Request Cache
Lifetime	Persistent	Session	Request
Applicable to	All users	User	User
Performance impact	High	Medium	Low
Default cache store	Filesystem	PHP session	Memory


Successfully added a new Memcached store.
Cache administration
Installed cache stores
Plugin | Ready | Stores | Modes | Supports | Actions
APC user cache (APCu) | | 0 | Application, Session | ttl, key awareness |
File cache | ✔ | 1 | Application, Session | data guarantee, ttl, key awareness | Add instance
Memcached | ✔ | 1 | Application | ttl | Add instance
MongoDB | ✔ | 0 | Application | data guarantee | Add instance
Redis | ✔ | 0 | Application, Session | data guarantee, locking, key awareness | Add instance
Session cache | ✔ | 1 | Session | data guarantee, ttl, key awareness |
Static request cache | ✔ | 1 | Request | multiple identifiers, data guarantee, ttl, key awareness |
Configured store instances
Store name | Plugin | Ready | Store mappings | Modes | Supports | Locking | Actions
mem1 | Memcached | ✔ | 4 | Application | ttl | Default file locking | Edit store, Delete store, Purge
Default file store for application caches | File cache | ✔ | 56 | Application, Session | data guarantee, ttl, key awareness, searching by key | Default file locking | Purge
Default static store for request caches | Static request cache | ✔ | 21 | Request | multiple identifiers, data guarantee, ttl, key awareness, searching by key | Default file locking | Purge
Default session store for session caches | Session cache | ✔ | 12 | Session | data guarantee, ttl, key awareness, searching by key | Default file locking | Purge


Add Memcached store
Collapse all
Store name
mem1
Locking
Default file locking
Store configuration
Servers
127.0.0.1
Use compression
Yes
Use serialiser
The default PHP serializer.
Prefix key
Hash method
Default (one-at-a-time)
Buffer writes
No
Shared cache
No
Enable clustered servers
Enable clustered servers
Set Servers
Save changes
Cancel

Known cache definitions

Definition	Mode	Component	Area	Store mappings	Sharing	Can use local store	Actions
Accumulated information about modules and sections for each course	Application	core	coursemodinfo	Default file store for application caches	Site identifier	Yes	Edit mappings, Edit sharing, Purge
Activity completion status	Application	core	completion	Default file store for application caches	Site identifier	No	Edit mappings, Edit sharing, Purge
Allowed content bank course categories for current user	Session	core	contentbank_allowed_categories	Default session store for session caches	Site identifier	No	Edit mappings, Purge
Allowed content bank courses for current user	Session	core	contentbank_allowed_courses	Default session store for session caches	Site identifier	No	Edit mappings, Purge
Allowed extensions and its supporter plugins in a content bank context	Request	core	contentbank_context_extensions	Default static store for request caches	Site identifier	No	Edit mappings, Purge

Cache store performance reporting - 100000 unique requests per operation.

Test with 1, 10, 100, 500, 1000, 5000, 10000, 50000, 100000 requests

Store requests when used as an application cache.

Plugin	Result	Set	Get - Hit	Get - Miss	Delete
APC user cache (APCu)	Invalid plugin	-	-	-	-
File cache	Tested	13.9968	3.4031	0.4103	2.5716
Memcached					
MongoDB					
Redis					
Session cache					
Static request cache					

Store requests when used as a session cache.

Plugin	Result	Set	Get - Hit	Get - Miss	Delete
APC user cache (APCu)	Invalid plugin	-	-	-	-
File cache	Tested	17.5921	3.4271	0.4053	2.6069
Memcached	Untestable	-	-	-	-
Session cache	Tested	0.1593	0.0227	0.0119	0.0734
					-

Store requests when used as a request cache.

Plugin	Result	Set	Get - Hit	Get - Miss	Delete
APC user cache (APCu)	Invalid plugin	-	-	-	-
File cache	Unsupported mode	-	-	-	-
Static request cache	Tested	0.0872	0.0281	0.0167	0.0777

Purge caches

Moodle can cache themes, javascript, language strings, filtered text, rss feeds and many other pieces of calculated data. Purging these caches will delete that data from the server and force browsers to refetch data, so that you can be sure you are seeing the most up-to-date values produced by the current code. There is no danger in purging caches, but your site may appear slower for a while until the server and clients calculate new information and cache it.

Purge all caches

Purge selected caches

☐ Themes ☐ Language strings ☐ JavaScript ☐ Templates
☐ Text filters ☑ All MUC caches ☐ All file and miscellaneous caches

Purge selected caches

Session handling

Use database for session information
dbsessions

☐ Default: No

If enabled, this setting will use the database to store information about current sessions. Note that changing this setting now will log out all current users (including you). If you are using MySQL please make sure that 'max_allowed_packet' in my.cnf (or my.ini) is at least 4M. Other session drivers can be configured directly in config.php, see config-dist.php for more information. This option disappears if you specify session driver in config.php file.

Timeout
sessiontimeout

2 hours Default: 8 hours

If people logged in to this site are idle for a long time (without loading pages) then they are automatically logged out (their session is ended). This variable specifies how long this time should be.

Timeout Warning
sessiontimeoutwarning

20 minutes Default: 20 minutes

If people logged in to this site are idle for a long time (without loading pages) then they are warned about their session is about to end. This variable specifies how long this time should be.

Cookie prefix
sessioncookie

packt Default: Empty

This setting customises the name of the cookie used for Moodle sessions. This is optional, and only useful to avoid cookies being confused when there is more than one copy of Moodle running within the same web site.

Cookie path
sessioncookiepath

/openumlaut/ Default: Empty

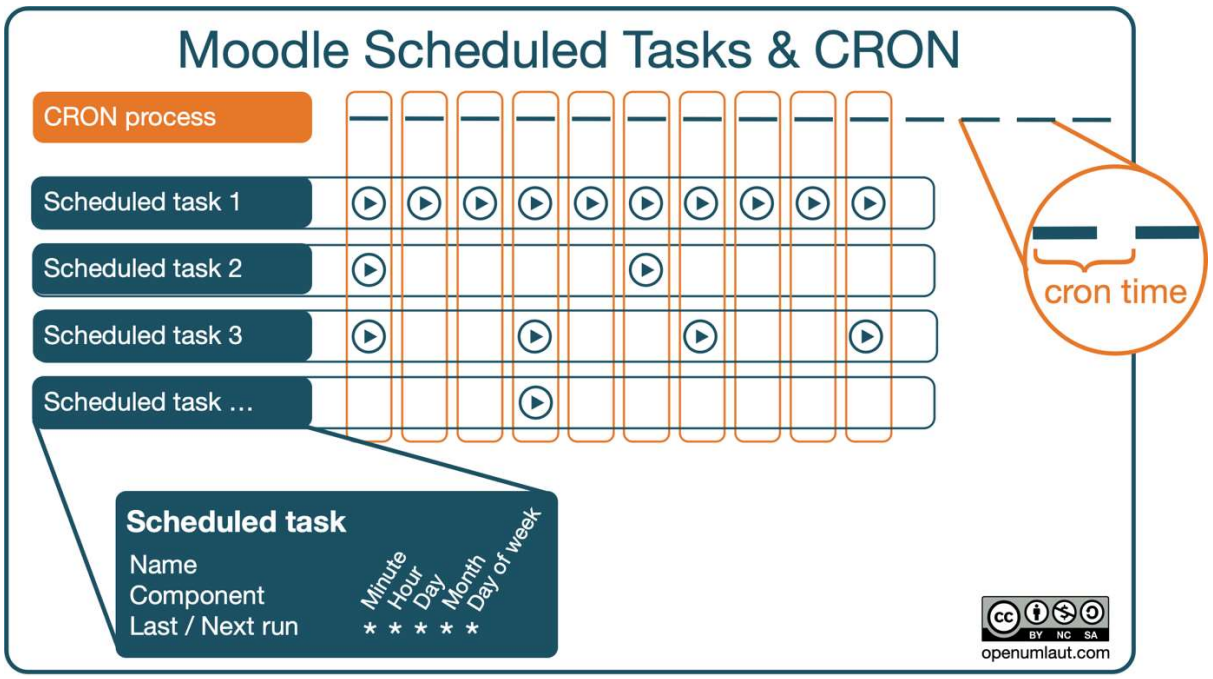
If you need to change where browsers send the Moodle cookies, you can change this setting to specify a subdirectory of your web site. Otherwise the default '/' should be fine.

Cookie domain
sessioncookiedomain

Default: Empty

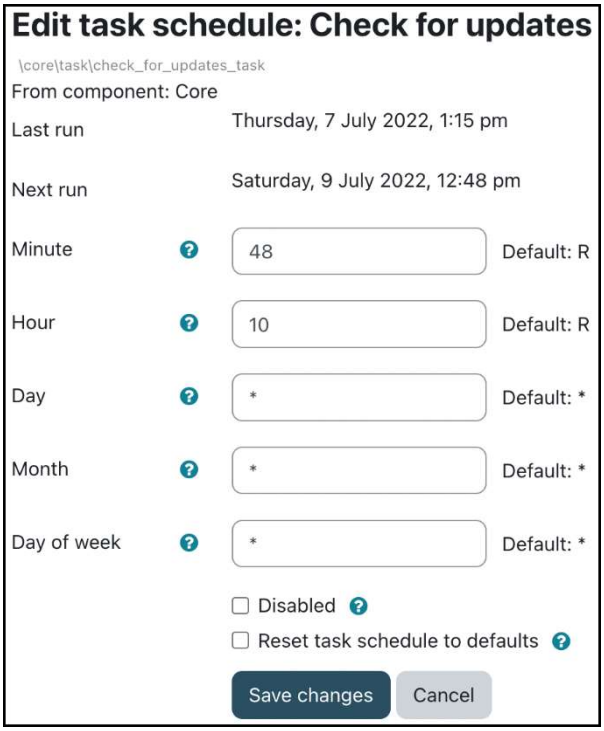
This allows you to change the domain that the Moodle cookies are available from. This is useful for Moodle customisations (e.g. authentication or enrolment plugins) that need to share Moodle session information with a web application on another subdomain. **WARNING: it is strongly recommended to leave this setting at the default (empty) - an incorrect value will prevent all logins to the site.**

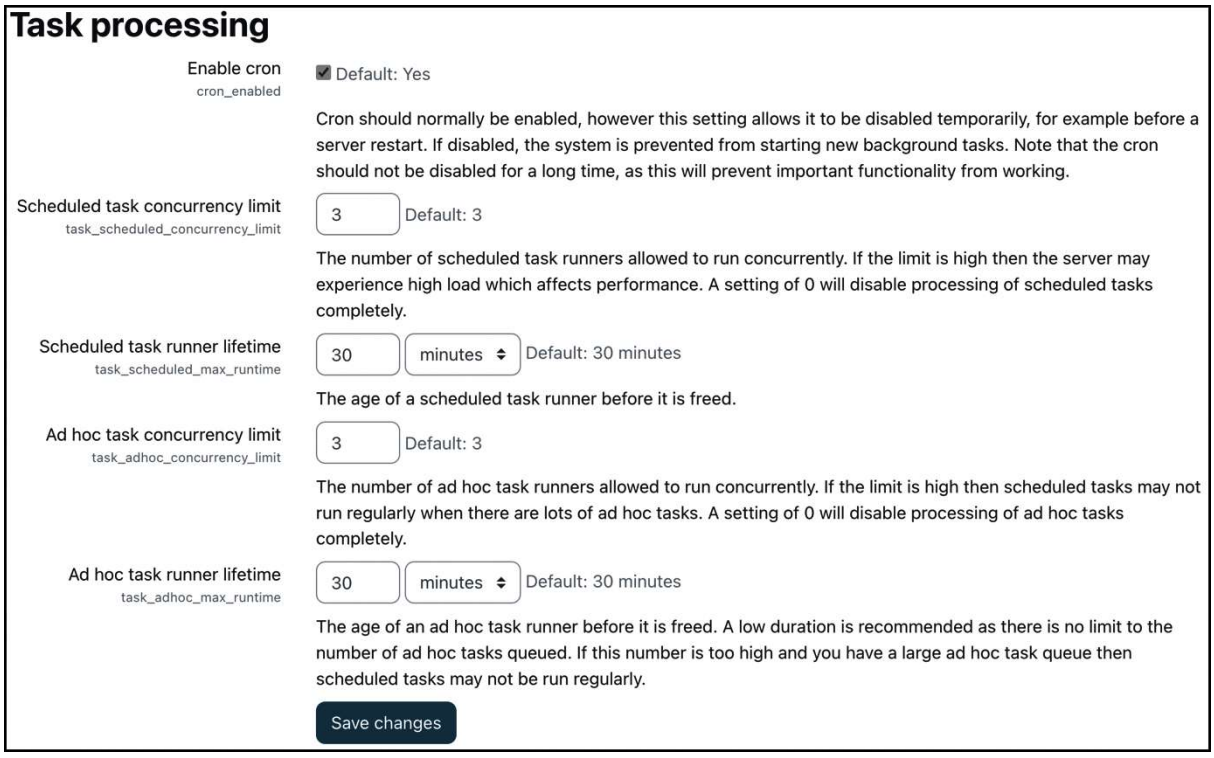
Save changes

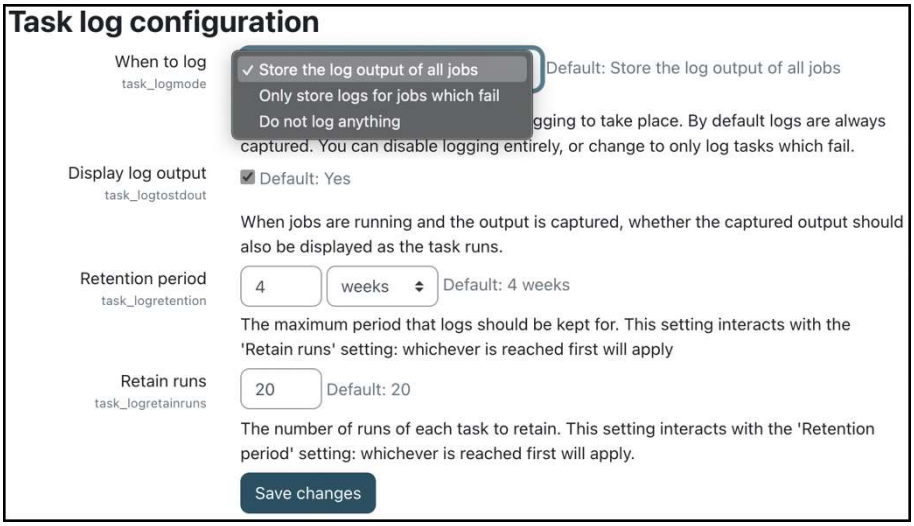


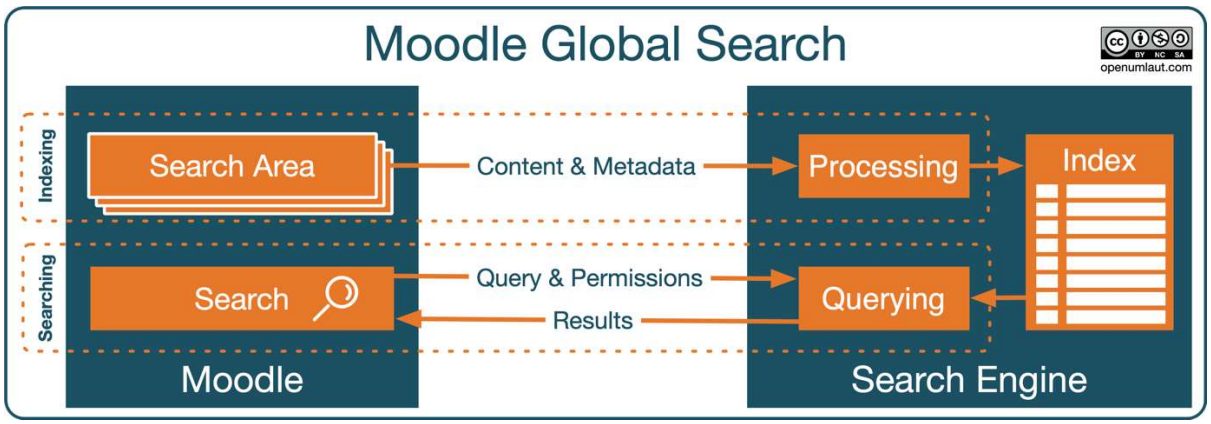
Scheduled tasks

Name	Component	Edit	Logs	Last run	Next run	Minute	Hour	Day	Day of week	Month	Fail delay	Default
CAS users sync job \auth_cas\task\sync_task	CAS server (SSO) Disabled auth_cas			Never	Plugin disabled	0	0	*	*	*	0	Yes
Unused H5P files cleanup \core\task\h5p_clean_orphaned_records_task	Core			Never Run now	ASAP	* Default: R	* Default: 0	*	*	*	86400 Clear	No
Download available H5P content types from h5p.org \core\task\h5p_get_content_types_task	Core			Saturday, 28 May 2022, 6:13 pm Run now	Task disabled	31	10	1	*	*	60 Clear	No
Legacy cron processing for plugins \core\task\legacy_plugin_cron_task	Core			Thursday, 7 July 2022, 1:15 pm Run now	ASAP	*	*	*	*	*	0	Yes
Process bulk caching \tool_brickfield\task\bulk_process_caches	Accessibility toolkit tool_brickfield			Thursday, 7 July 2022, 1:15 pm Run now	ASAP	*/1 Default: */5	*	*	*	*	0	No
Process bulk batch accessibility checking \tool_brickfield\task\bulk_process_courses	Accessibility toolkit tool_brickfield			Thursday, 7 July 2022, 1:15 pm Run now	ASAP	*/1 Default: */5	*	*	*	*	0	No
Task to check for any invalid checkids \tool_brickfield\task\checkid_validation	Accessibility toolkit tool_brickfield			Thursday, 7 July 2022, 1:15 pm Run now	ASAP	01 Default: 05	9	*	*	*	0	No
Process content analysis requests \tool_brickfield\task\process_analysis_requests	Accessibility toolkit tool_brickfield			Thursday, 7 July 2022, 1:15 pm Run now	ASAP	*/1 Default: */5	*	*	*	*	0	No


Edit task schedule: Check for updates
\core\task\check_for_updates_task
From component: Core
Last run
Thursday, 7 July 2022, 1:15 pm
Next run
Saturday, 9 July 2022, 12:48 pm
Minute
48
Default: R
Hour
10
Default: R
Day
*
Default: *
Month
*
Default: *
Day of week
*
Default: *
Disabled
Reset task schedule to defaults
Save changes
Cancel


Task processing
Enable cron
cron_enabled
Default: Yes
Cron should normally be enabled, however this setting allows it to be disabled temporarily, for example before a server restart. If disabled, the system is prevented from starting new background tasks. Note that the cron should not be disabled for a long time, as this will prevent important functionality from working.
Scheduled task concurrency limit
task_scheduled_concurrency_limit
3
Default: 3
The number of scheduled task runners allowed to run concurrently. If the limit is high then the server may experience high load which affects performance. A setting of 0 will disable processing of scheduled tasks completely.
Scheduled task runner lifetime
task_scheduled_max_runtime
30
minutes
Default: 30 minutes
The age of a scheduled task runner before it is freed.
Ad hoc task concurrency limit
task_adhoc_concurrency_limit
3
Default: 3
The number of ad hoc task runners allowed to run concurrently. If the limit is high then scheduled tasks may not run regularly when there are lots of ad hoc tasks. A setting of 0 will disable processing of ad hoc tasks completely.
Ad hoc task runner lifetime
task_adhoc_max_runtime
30
minutes
Default: 30 minutes
The age of an ad hoc task runner before it is freed. A low duration is recommended as there is no limit to the number of ad hoc tasks queued. If this number is too high and you have a large ad hoc task queue then scheduled tasks may not be run regularly.
Save changes


Task log configuration
When to log
task_logmode
Store the log output of all jobs
Only store logs for jobs which fail
Do not log anything
Default: Store the log output of all jobs
gging to take place. By default logs are always
captured. You can disable logging entirely, or change to only log tasks which fail.
Display log output
task_logtostdout
Default: Yes
When jobs are running and the output is captured, whether the captured output should
also be displayed as the task runs.
Retention period
task_logretention
4
weeks
Default: 4 weeks
The maximum period that logs should be kept for. This setting interacts with the
'Retain runs' setting: whichever is reached first will apply
Retain runs
task_logretainruns
20
Default: 20
The number of runs of each task to retain. This setting interacts with the 'Retention
period' setting: whichever is reached first will apply.
Save changes


Moodle Global Search
openumlaut.com
Indexing
Search Area
Content & Metadata
Processing
Index
Searching
Search
Query & Permissions
Results
Querying
Moodle
Search Engine

Manage global search

Search setup

The following steps help you to set up Moodle global search.

Step	Status
1. Select search engine	Solr
2. Enable search areas	Yes
3. Setup search engine	Yes
4. Index data	Yes
5. Enable global search	Yes
6. Used for site home course search	No

Search engine



System paths

Path to PHP CLI
pathtophp
/usr/bin/php
✓ Default: Empty

Path to PHP CLI. Probably something like /usr/bin/php. If you enter this, cron scripts can be executed from admin web interface.

Path to du
pathtodu
/usr/bin/du
✓ Default: Empty

Path to du. Probably something like /usr/bin/du. If you enter this, pages that display directory contents will run much faster for directories with a lot of files.

3.601214 secs | RAM: 9.9 MB | RAM peak: 18.0 MB

Included 793 files
Pieces of content filtered: 1
DB reads/writes: 2042/0
Load average: 3.33

Contexts for which filters were loaded: 2
Strings filtered: 35
DB queries time: 0.25692 secs
Session (core\session\file): 6.7 KB

Filters created: 8
get_string calls: 1405
ticks: 360 user: 315sys: 11 cuser: 0 csys: 0

Mode	Cache item	Static	H	M	Primary store	H	M	S	I/O
App	core/capabilities	** static accel. **	532	1	default_application	1	0	0	156.8 KB
Ses	core/coursecat				default_session	2	0	1	-
Req	core/coursecatrecords				default_request	2	2	2	-
App	core/coursecattree	** static accel. **	0	2	default_application	2	0	0	0.3 KB
App	core/coursecompletion	** static accel. **	0	2	default_application	2	0	0	1.0 KB
App	core/coursemodinfo				default_application	1	0	0	1.2 KB
App	core/databasemeta	** static accel. **	4	11	default_application	11	0	0	45.0 KB
App	core/eventinvalidation	** static accel. **	1	2	default_application	2	1	0	0.1 KB
App	core/fontawesomeiconmapping	** static accel. **	0	1	default_application	1	0	0	22.0 KB
App	core/htmlpurifier				default_application	1	0	0	0.3 KB
App	core/langmenu	** static accel. **	5	1	default_application	1	0	0	0.3 KB
App	core/license				default_application	1	0	0	2.9 KB
App	core/message_processors_enabled	** static accel. **	0	1	default_application	1	0	0	0.0 KB
App	core/plugin_functions	** static accel. **	0	17	default_application	17	0	0	2.6 KB
App	core/plugin_manager				default_application	3	0	0	86.7 KB
Req	core/repositories				default_request	0	20	40	-
App	core/string	** static accel. **	1228	487	default_application	487	0	0	4564.9 KB
App	core/yuimodules				default_application	3	0	0	16.2 KB
App	tool_mobile/plugininfo	** static accel. **	0	1	default_application	1	0	0	5.7 KB
App	tool_usertours/tourdata	** static accel. **	0	1	default_application	1	0	0	3.8 KB

Store name	Cache store	H	M	S	I/O
** static accel. **		1770	527	0	-
default_application	cachestore_file	536	1	0	4909.6 KB
default_request	cachestore_static	2	22	42	-
default_session	cachestore_session	2	0	1	-
Total		2310	550	43	4909.6 KB

Profiling

Enable profiling
profilingenabled

☑ Default: No

If you enable this setting, then profiling will be available in this site and you will be able to define its behavior by configuring the next options.

Profile these
profilingincluded

/index.php, /mod/*/view.php

Default: Empty

List of (comma or newline separated, absolute skipping wwwroot, callable) URLs that will be automatically profiled. Examples: /index.php, /course/view.php. Also accepts the * wildchar at any position. Examples: /mod/forum/*, /mod/*/view.php.

Exclude profiling
profilingexcluded

Profiling runs

[Import]

URL	Date	Execution time	CPU time	Function calls	Memory used	Comment
/mod/forum/view.php	11 Jul 2022, 13:10	999.841 ms	955.958 ms	139819	8761.672 KB	
/mod/forum/view.php	11 Jul 2022, 13:10	1012.329 ms	963.126 ms	139827	8761.828 KB	
/mod/forum/view.php	11 Jul 2022, 13:10	1007.753 ms	973.422 ms	139560	8758.586 KB	
/mod/forum/view.php	11 Jul 2022, 13:09	1246.752 ms	1133.049 ms	154488	9446.352 KB	
/index.php	11 Jul 2022, 13:09	1001.941 ms	954.340 ms	106460	8554.750 KB	

Make JMeter test plan

This tool creates a JMeter test plan file along with the user credentials file.

This test plan is designed to work along with https://github.com/moodlehq/moodle-performance-comparison, which makes easier to run the test plan in a specific Moodle environment, gathers information about the runs and compares the results, so you will need to download it and use it's test_runner.sh script or follow the installation and usage instructions.

You need to set a password for the course users in config.php (e.g. $CFG->tool_generator_users_password = 'moodle';). There is no default value for this password to prevent unintended usages of the tool. You need to use the update passwords option in case your course users have other passwords or they were generated by tool_generator but without setting a $CFG->tool_generator_users_password value.

It is part of tool_generator so it works well with the courses generated by the courses and the site generators, it can also be used with any course that contains, at least:

- Enough enrolled users (depends on the test plan size you select) with the password reset to 'moodle'
- A page module instance
- A forum module instance with at least one discussion and one reply

You might want to consider your servers capacity when running large test plans as the amount to load generated by JMeter can be specially big. The ramp up period has been adjusted according to the number of threads (users) to reduce this kind of issues but the load is still huge.

Do not run the test plan on a live r so is not dangerous by itself, but you should **NEVER** run this test plan in a prod

Size of course

- XS (1 users, 5 loops and 1 rampup period)
- S (30 users, 5 loops and 6 rampup period)
- M (100 users, 5 loops and 40 rampup period)
- L (1000 users, 6 loops and 100 rampup period)
- ✓ XL (5000 users, 6 loops and 500 rampup period)
- XXL (10000 users, 7 loops and 800 rampup period)

Test target course

× Performance

Search

☐ Update course users password

Create test plan

Make test course

This tool creates standard test courses that include many sections, activities, and files.

This is intended to provide a standardised measure for checking the reliability and performance of various system components (such as backup and restore).

This test is important because there have been many cases previously where, faced with real-life use cases (e.g. a course with 1,000 activities), the system does not work.

Courses created using this feature can occupy a large amount of database and filesystem space (tens of gigabytes). You will need to delete the courses (and wait for various cleanup runs) to release this space again.

Do not use this feature on a erver. (To avoid accidental use, this feature is disabled unless you have also



Size of course

Course short name

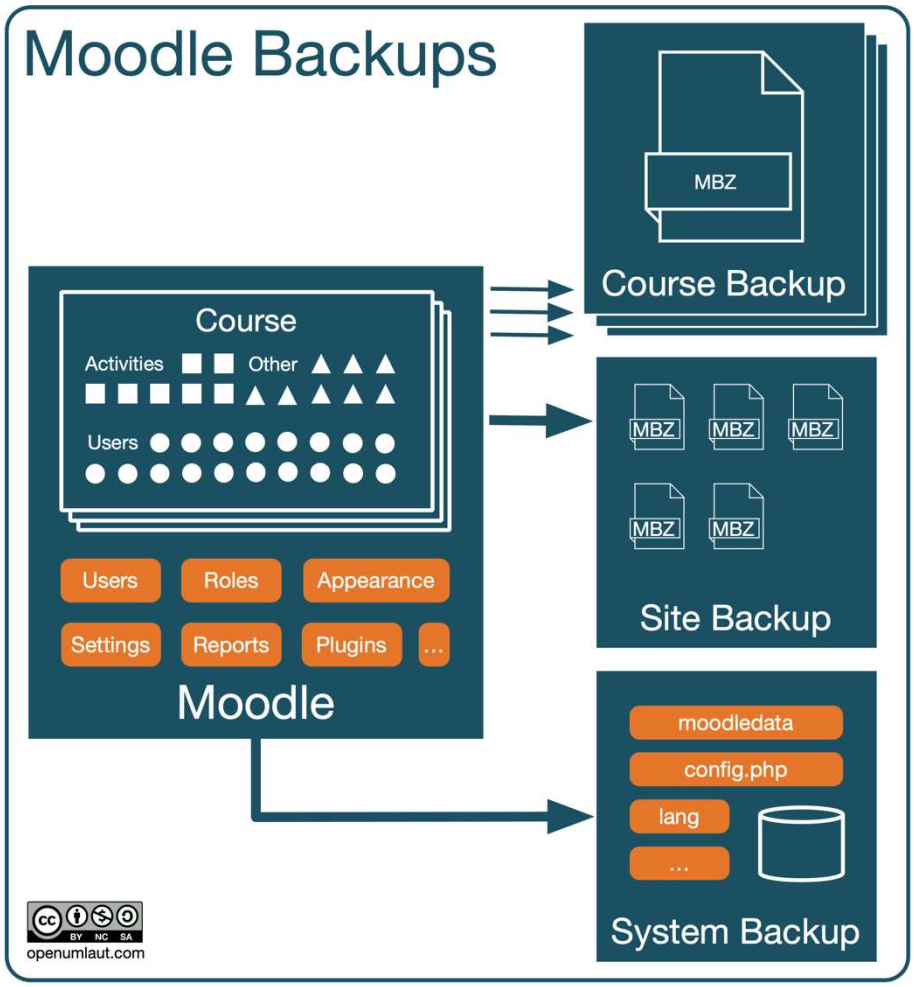
Course full name Performance

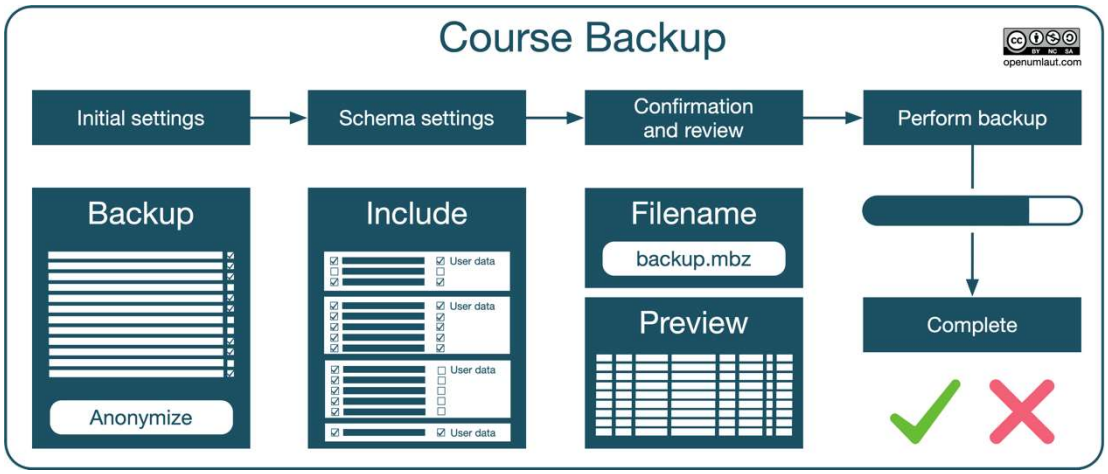
Course summary

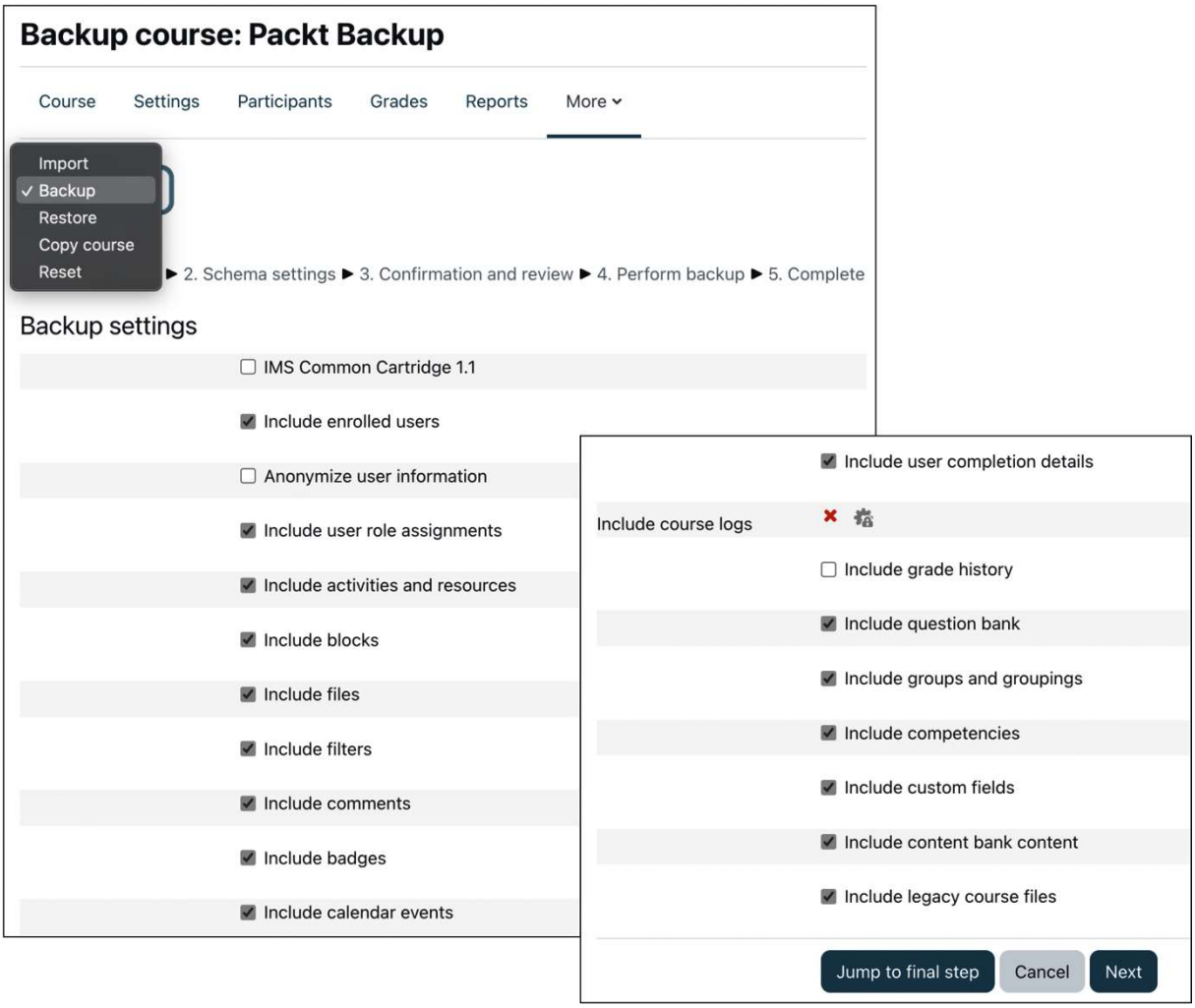
Performance test course

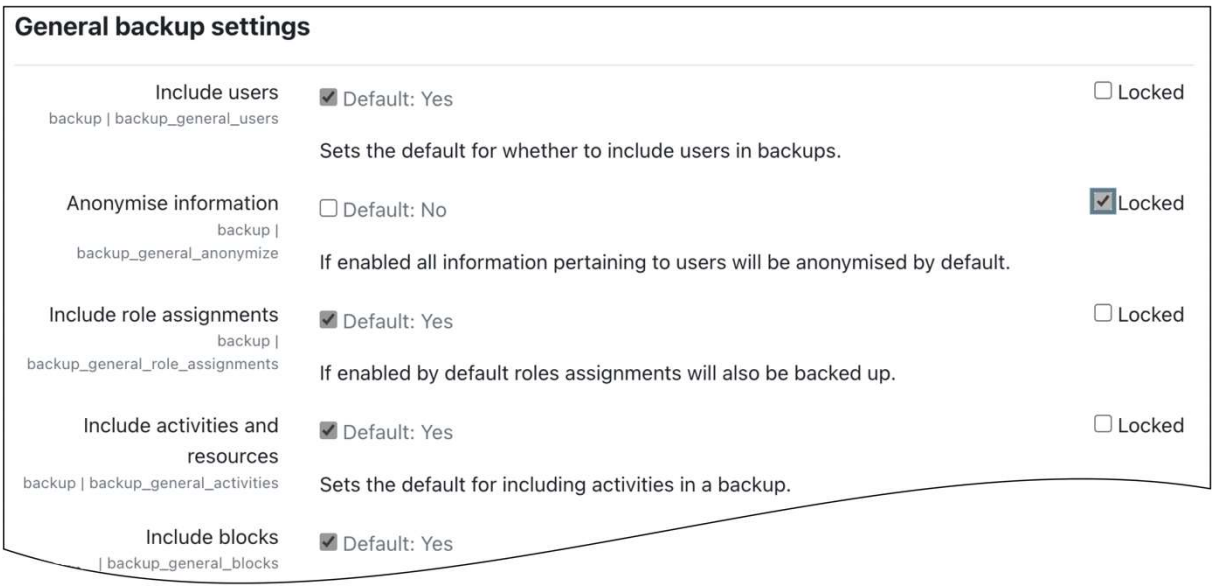
Create course

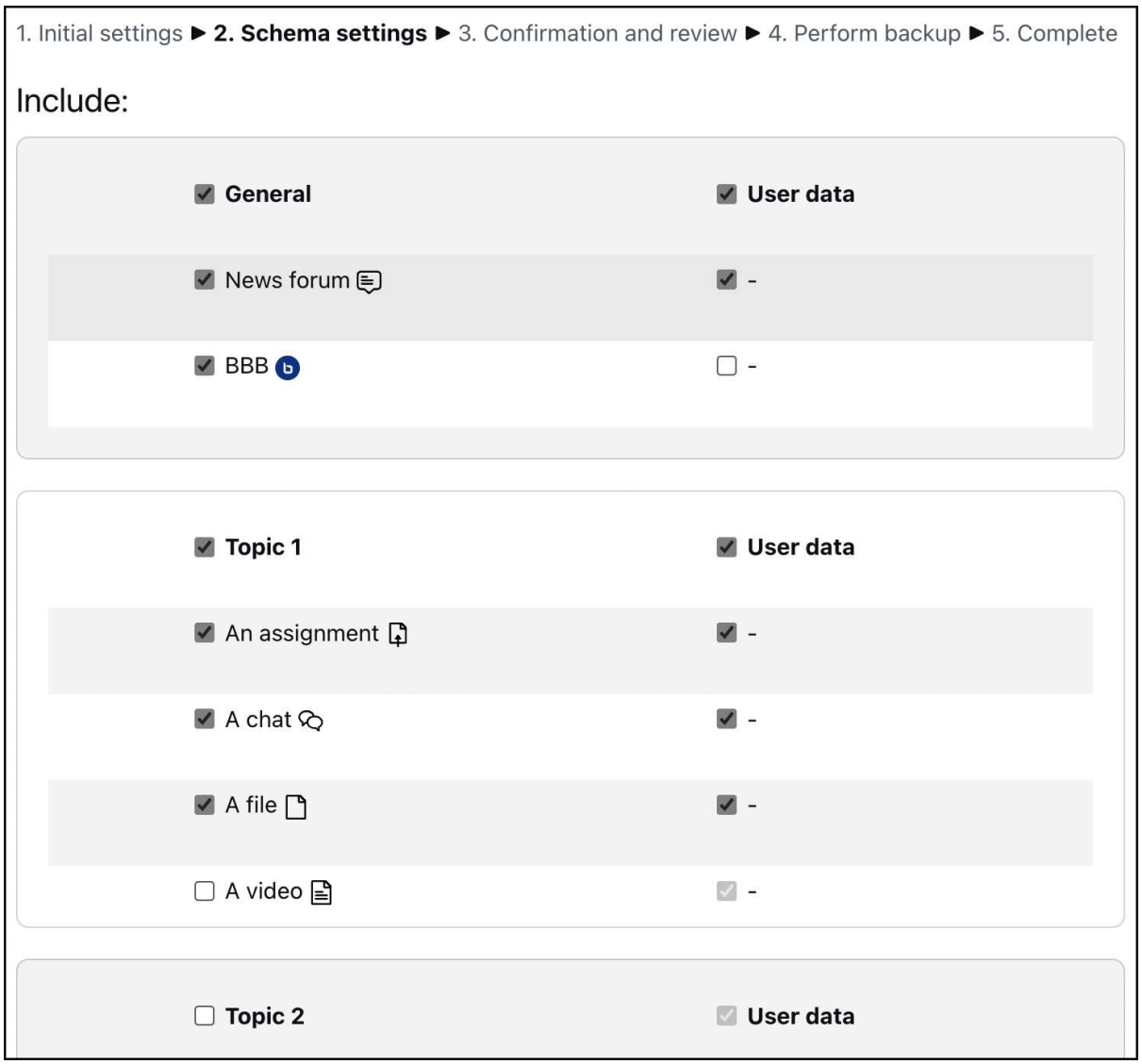
Chapter 16: Avoiding Sleepless Nights – Moodle Backup and Restore

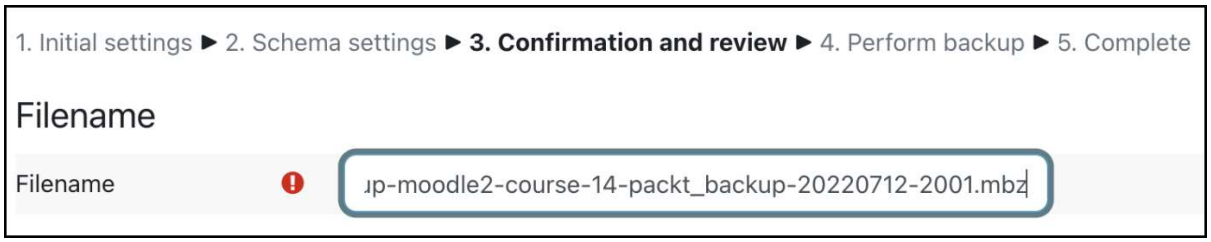


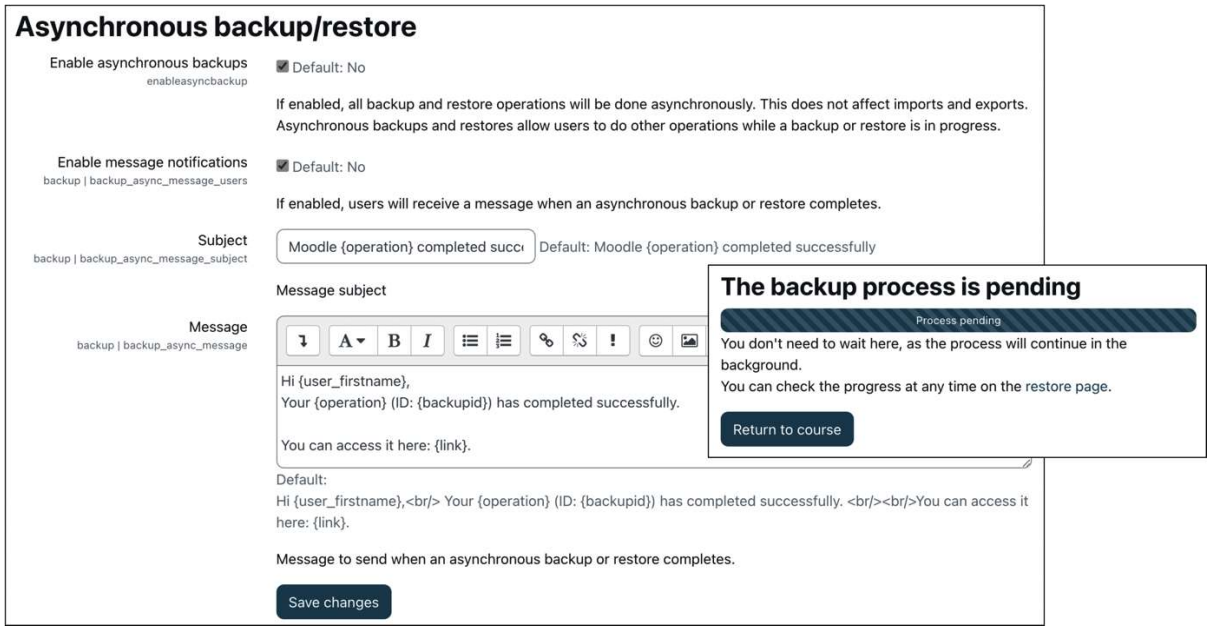



Backup course: Packt Backup
Course
Settings
Participants
Grades
Reports
More
Import
Backup
Restore
Copy course
Reset
2. Schema settings
3. Confirmation and review
4. Perform backup
5. Complete
Backup settings
IMS Common Cartridge 1.1
Include enrolled users
Anonymize user information
Include user role assignments
Include activities and resources
Include blocks
Include files
Include filters
Include comments
Include badges
Include calendar events
Include user completion details
Include course logs
Include grade history
Include question bank
Include groups and groupings
Include competencies
Include custom fields
Include content bank content
Include legacy course files
Jump to final step
Cancel
Next

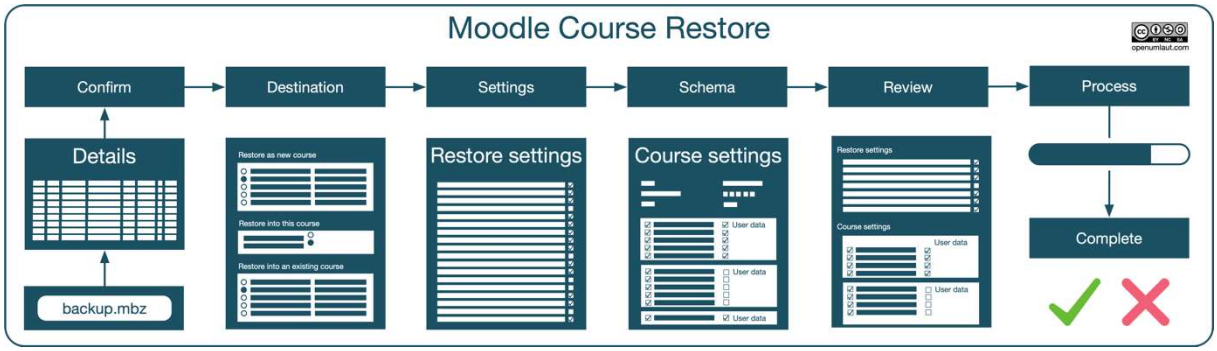

General backup settings
Include users
backup | backup_general_users
Default: Yes
Locked
Sets the default for whether to include users in backups.
Anonymise information
backup | backup_general_anonymize
Default: No
Locked
If enabled all information pertaining to users will be anonymised by default.
Include role assignments
backup | backup_general_role_assignments
Default: Yes
Locked
If enabled by default roles assignments will also be backed up.
Include activities and resources
backup | backup_general_activities
Default: Yes
Locked
Sets the default for including activities in a backup.
Include blocks
| backup_general_blocks
Default: Yes

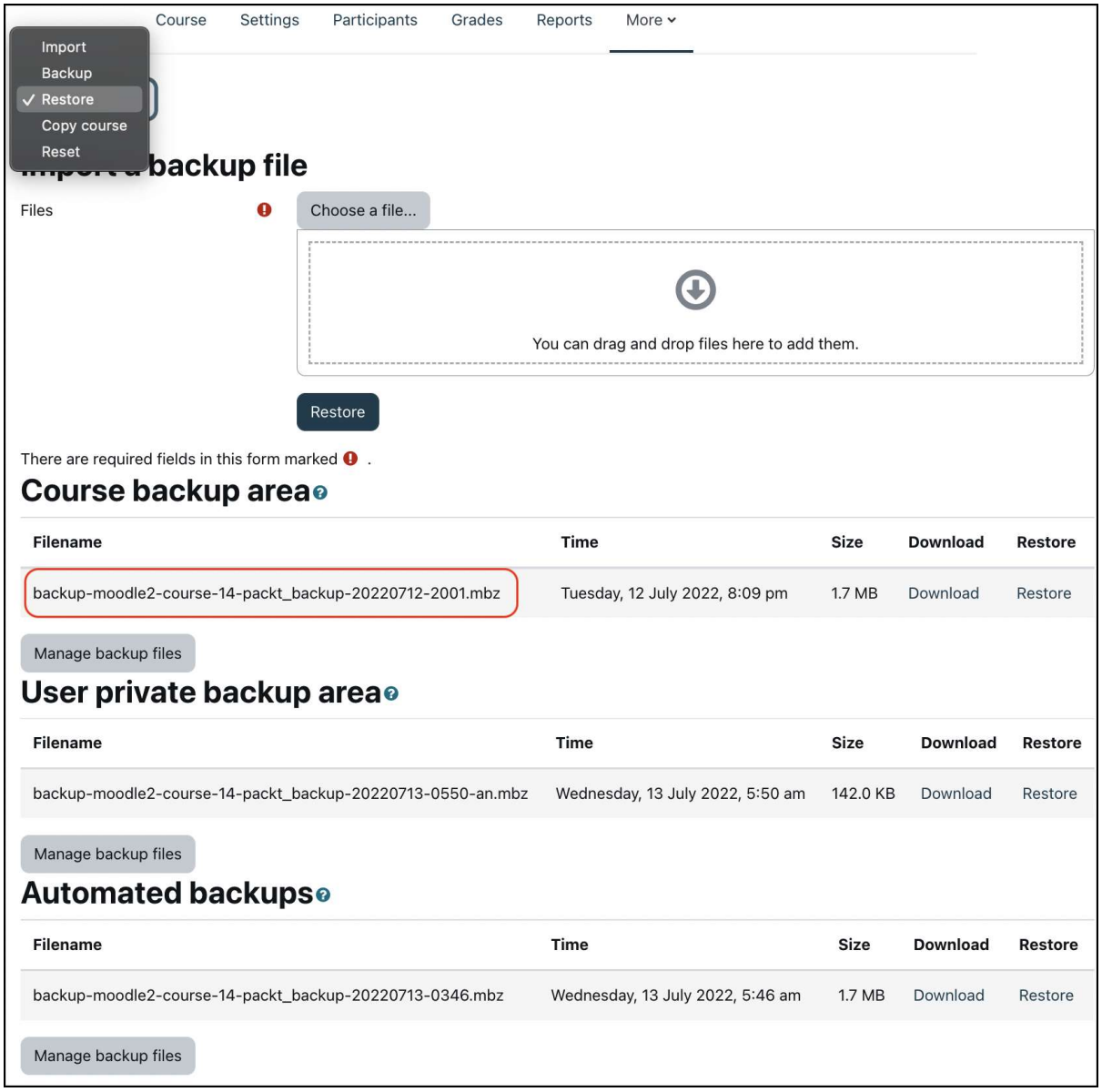

1. Initial settings ▶ 2. Schema settings ▶ 3. Confirmation and review ▶ 4. Perform backup ▶ 5. Complete
Include:
General
User data
News forum
-
BBB
-
Topic 1
User data
An assignment
-
A chat
-
A file
-
A video
-
Topic 2
User data

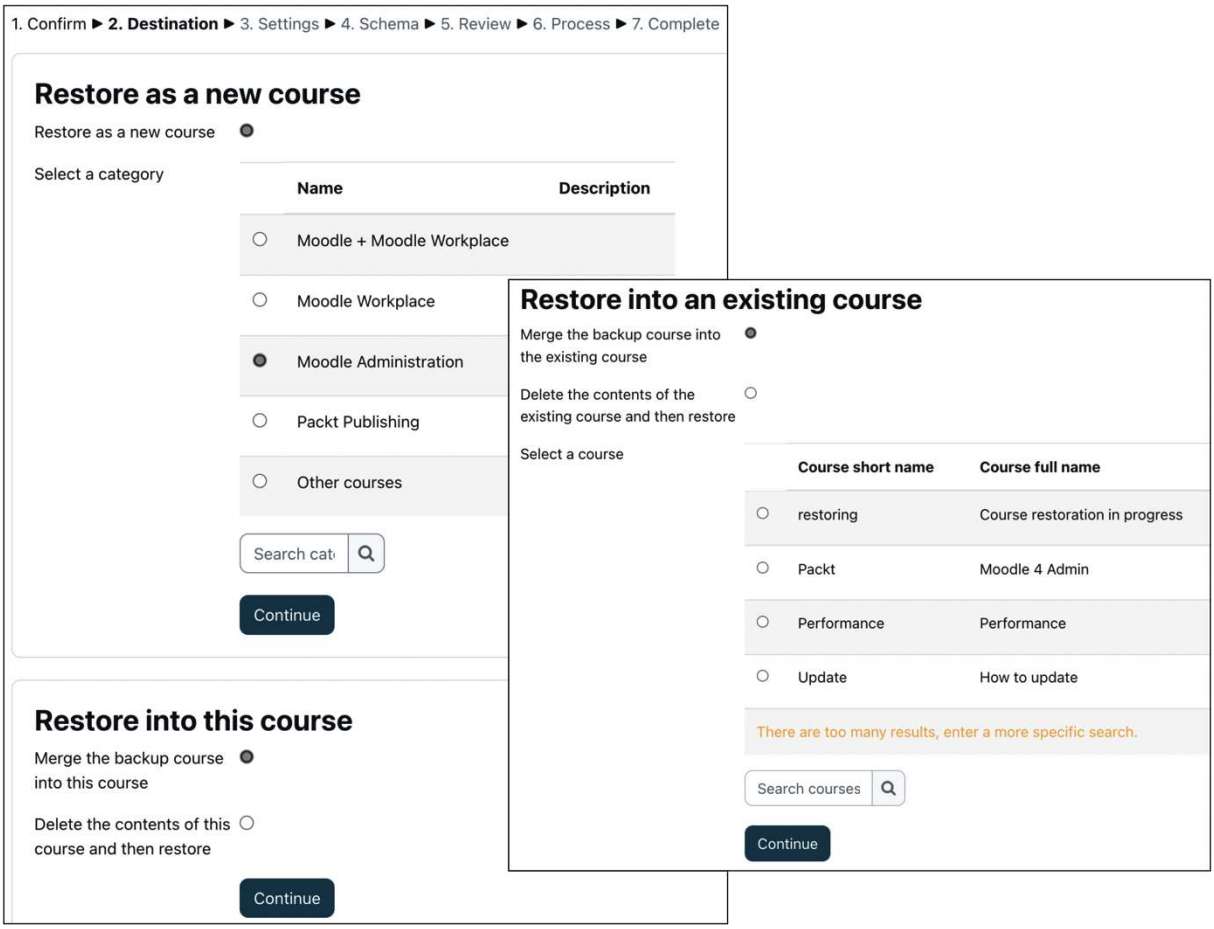

1. Initial settings ▶ 2. Schema settings ▶ 3. Confirmation and review ▶ 4. Perform backup ▶ 5. Complete
Filename
Filename
up-moodle2-course-14-packt_backup-20220712-2001.mbz

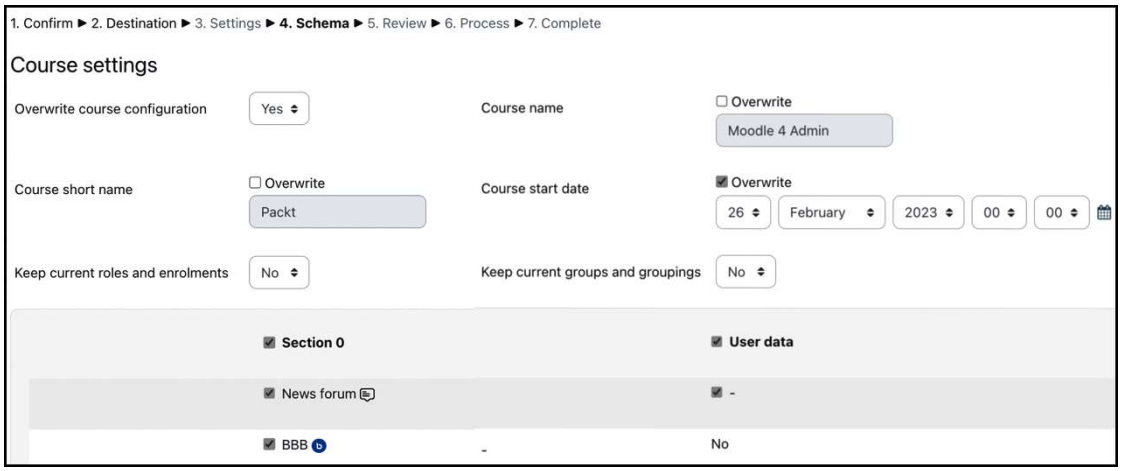

Asynchronous backup/restore
Enable asynchronous backups
enableasyncbackup
Default: No
If enabled, all backup and restore operations will be done asynchronously. This does not affect imports and exports. Asynchronous backups and restores allow users to do other operations while a backup or restore is in progress.
Enable message notifications
backup | backup_async_message_users
Default: No
If enabled, users will receive a message when an asynchronous backup or restore completes.
Subject
backup | backup_async_message_subject
Moodle {operation} completed succ
Default: Moodle {operation} completed successfully
Message subject
Message
backup | backup_async_message
Hi {user_firstname},
Your {operation} (ID: {backupid}) has completed successfully.
You can access it here: {link}.
Default:
Hi {user_firstname},
 Your {operation} (ID: {backupid}) has completed successfully.

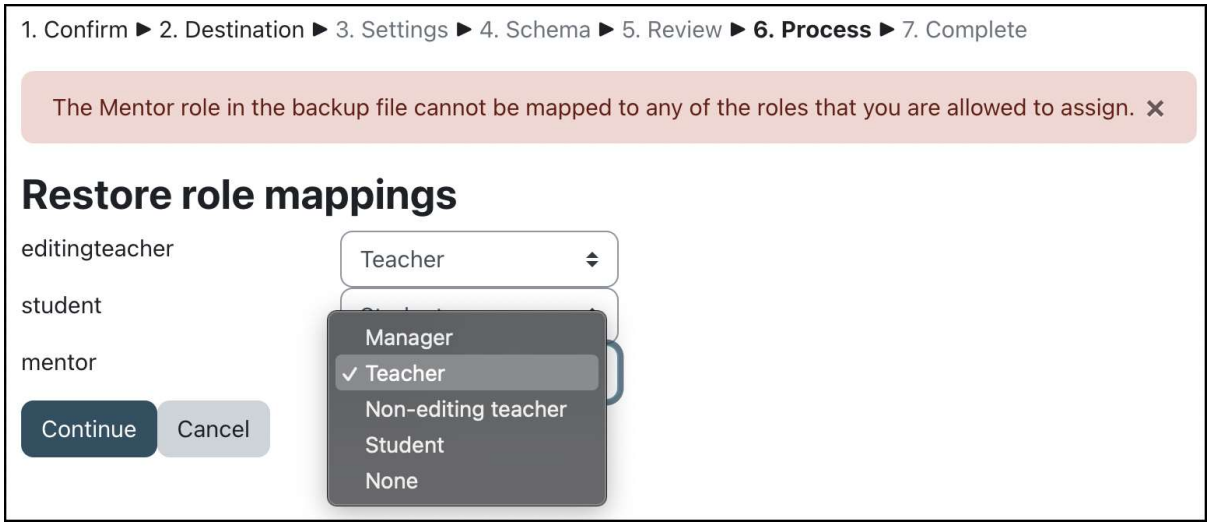
You can access it here: {link}.
Message to send when an asynchronous backup or restore completes.
Save changes
The backup process is pending
Process pending
You don't need to wait here, as the process will continue in the background.
You can check the progress at any time on the restore page.
Return to course

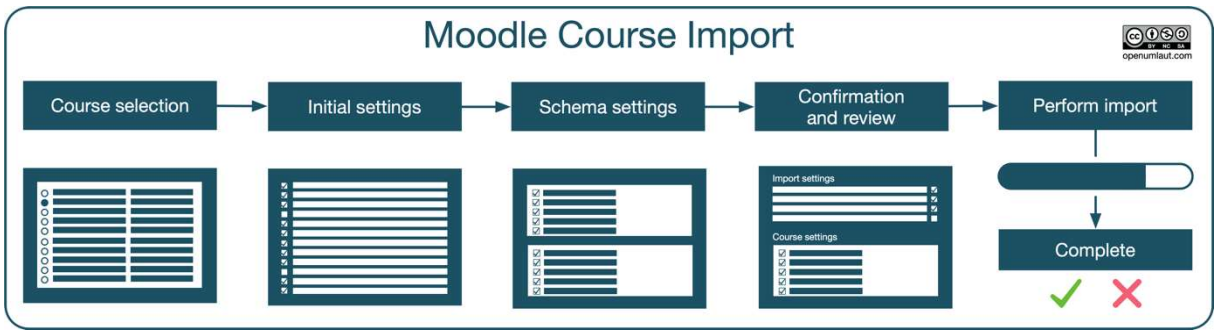

Moodle Course Restore
Confirm
Destination
Settings
Schema
Review
Process
Details
backup.mbz
Restore as new course
Restore into this course
Restore into an existing course
Restore settings
Course settings
User data
Complete


Course
Settings
Participants
Grades
Reports
More
Import
Backup
Restore
Copy course
Reset
backup file
Files
Choose a file...
You can drag and drop files here to add them.
Restore
There are required fields in this form marked .
Course backup area
Filename
Time
Size
Download
Restore
backup-moodle2-course-14-packt_backup-20220712-2001.mbz
Tuesday, 12 July 2022, 8:09 pm
1.7 MB
Download
Restore
Manage backup files
User private backup area
Filename
Time
Size
Download
Restore
backup-moodle2-course-14-packt_backup-20220713-0550-an.mbz
Wednesday, 13 July 2022, 5:50 am
142.0 KB
Download
Restore
Manage backup files
Automated backups
Filename
Time
Size
Download
Restore
backup-moodle2-course-14-packt_backup-20220713-0346.mbz
Wednesday, 13 July 2022, 5:46 am
1.7 MB
Download
Restore
Manage backup files


1. Confirm ▶ 2. Destination ▶ 3. Settings ▶ 4. Schema ▶ 5. Review ▶ 6. Process ▶ 7. Complete
Restore as a new course
Restore as a new course
Select a category
Name
Description
Moodle + Moodle Workplace
Moodle Workplace
Moodle Administration
Packt Publishing
Other courses
Search cat
Continue
Restore into this course
Merge the backup course into this course
Delete the contents of this course and then restore
Continue
Restore into an existing course
Merge the backup course into the existing course
Delete the contents of the existing course and then restore
Select a course
Course short name
Course full name
restoring
Course restoration in progress
Packt
Moodle 4 Admin
Performance
Performance
Update
How to update
There are too many results, enter a more specific search.
Search courses
Continue


1. Confirm ▶ 2. Destination ▶ 3. Settings ▶ 4. Schema ▶ 5. Review ▶ 6. Process ▶ 7. Complete
Course settings
Overwrite course configuration
Yes
Course name
Overwrite
Moodle 4 Admin
Course short name
Overwrite
Packt
Course start date
Overwrite
26
February
2023
00
00
Keep current roles and enrolments
No
Keep current groups and groupings
No
Section 0
User data
News forum
-
BBB
-
No

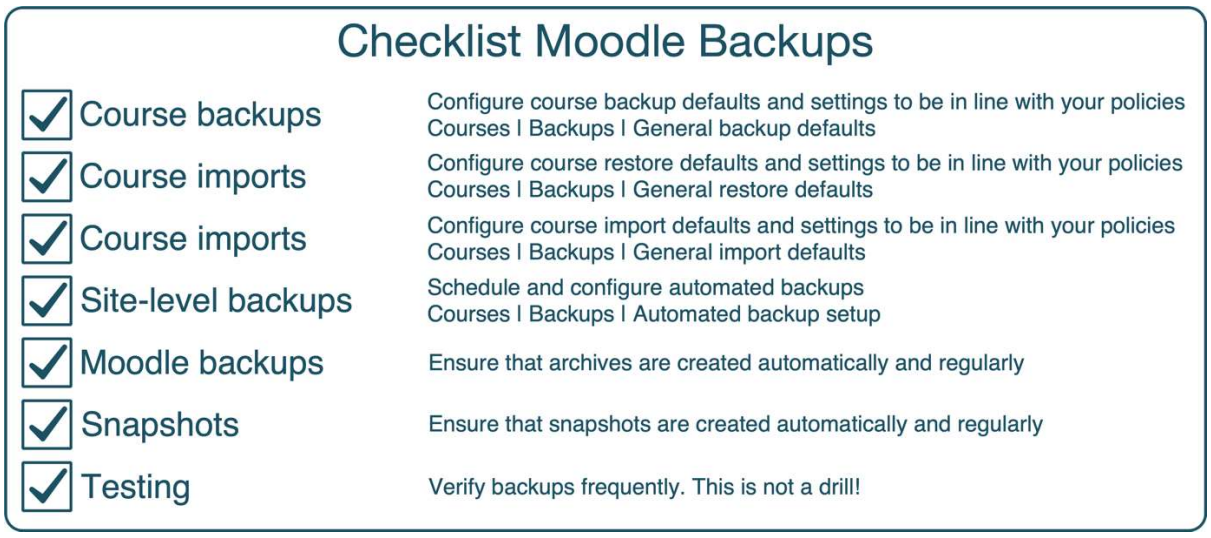




Setting	Description
Active	Turns automatic backups on and off. Make sure that your backup is activated! The **Manual** option allows the execution via the CLI (refer to the command after this table).
Schedule	Specify the days of the week on which the backup has to run.
Execute at	Specify the time of the day the backup will be executed.
Automated backup storage	By default, backups are stored in the course backup file areas. To store backups centrally, select **Specified directory for automated backups**. If you choose both locations, twice the storage will be taken up.
Save to	If backup storage includes a directory, specify the full (absolute) path to the folder, and ensure access rights are set to writable.
Maximum number of backups kept	Specify the number of backups to be kept. Beware that a large number will have an impact on disk usage. Older versions will be deleted automatically.
Delete backups older than	Backups older than the specified number of days will be deleted automatically.
Minimum number of backups kept	Backups of older or inactive courses will be removed with the previous setting. To avoid this, specify the number of backups you wish to keep.
Use the course name in backup filename	Toggle that switches between the course ID and course name for the default backup filename.
Skip hidden courses	If selected, hidden courses will be excluded from the backup (default).
Skip courses not modified since	Select the number of days to exclude courses that have not been altered since.
Skip courses not modified since previous backup	If selected, only courses that have been changed since the previous backup will be included. This is the most disk space and time-efficient setting. Make sure logging is activated in order to support this mode.

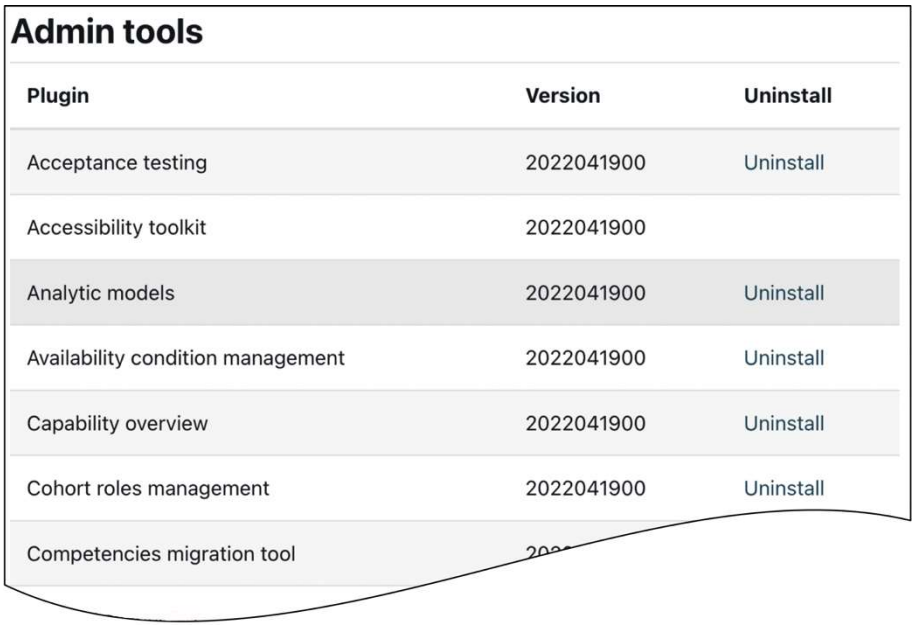
Last execution log

Course	Time taken			Status	Next backup
Moodle Administration 4	13 Jul, 05:46	-	13 Jul, 05:46	OK	13 Jul, 22:30
Performance	13 Jul, 05:46	-	1 Jan, 01:00	Unfinished	12 Jul, 22:30
Course One	1 Jan, 01:00	-	1 Jan, 01:00	Queued	12 Jul, 22:30
Moodle Administration 3	1 Jan, 01:00	-	1 Jan, 01:00	Queued	12 Jul, 22:30
Moodle Administration 2	1 Jan, 01:00	-	1 Jan, 01:00	Queued	12 Jul, 22:30
Moodle Workplace	1 Jan, 01:00	-	1 Jan, 01:00	Queued	12 Jul, 22:30
Course restoration in progress	1 Jan, 01:00	-	1 Jan, 01:00	Automated backup pending	13 Jul, 22:30



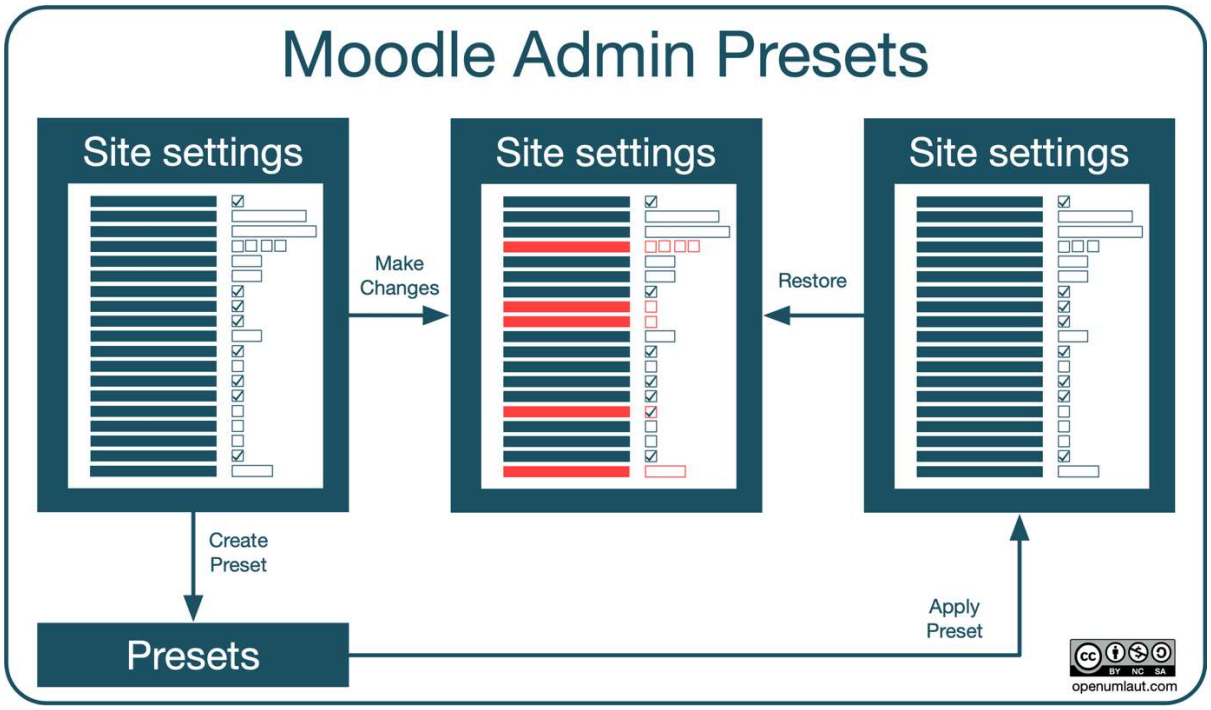
Chapter 17: Working with Moodle Admin Tools

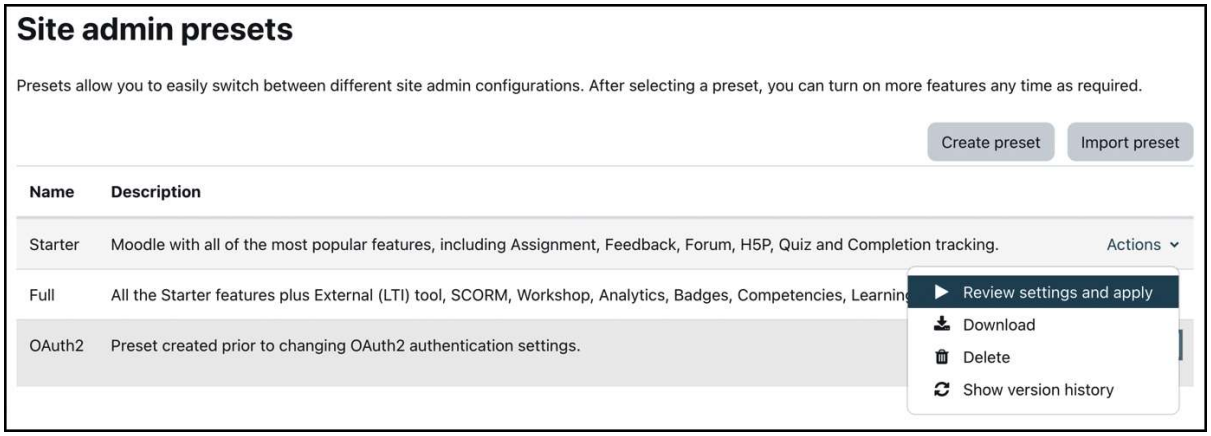


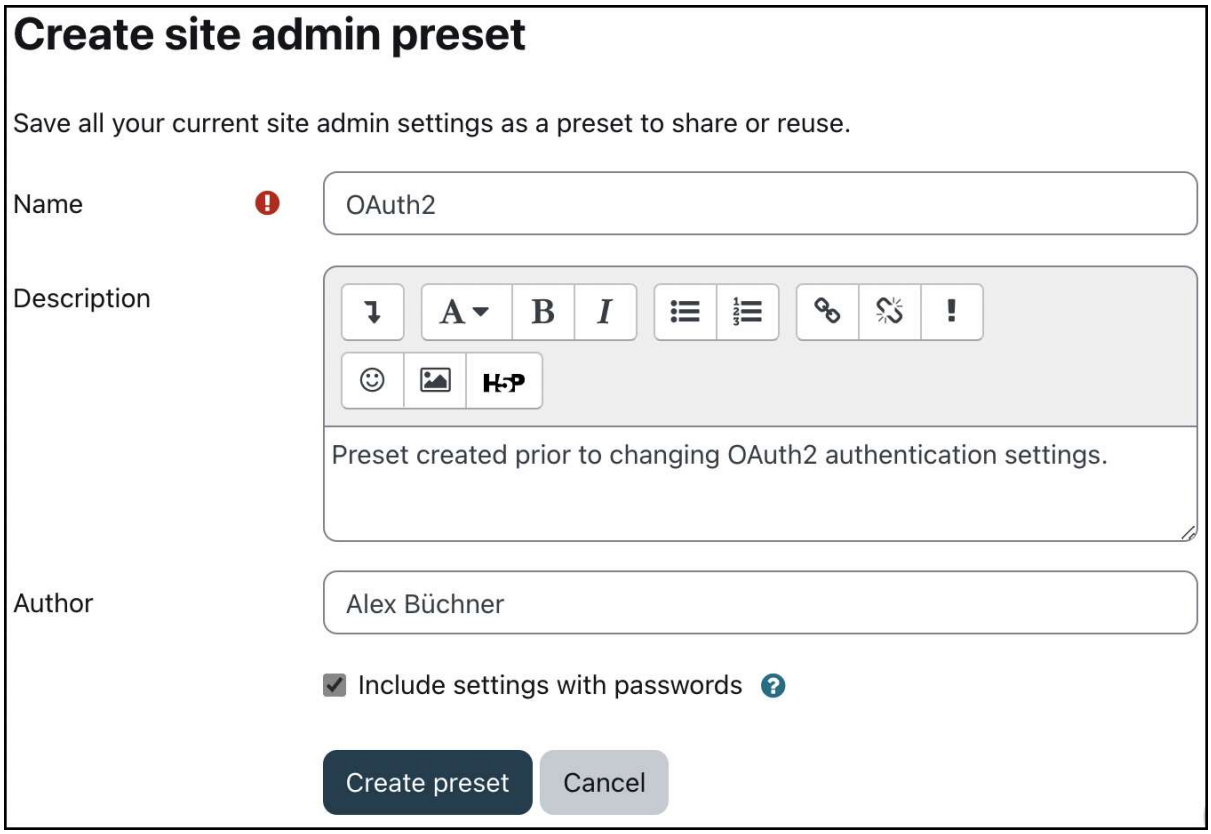


Admin tools

Plugin	Version	Uninstall
Acceptance testing	2022041900	Uninstall
Accessibility toolkit	2022041900	
Analytic models	2022041900	Uninstall
Availability condition management	2022041900	Uninstall
Capability overview	2022041900	Uninstall
Cohort roles management	2022041900	Uninstall
Competencies migration tool	202	




Site admin presets
Presets allow you to easily switch between different site admin configurations. After selecting a preset, you can turn on more features any time as required.
Create preset
Import preset
Name
Description
Starter
Moodle with all of the most popular features, including Assignment, Feedback, Forum, H5P, Quiz and Completion tracking.
Actions
Full
All the Starter features plus External (LTI) tool, SCORM, Workshop, Analytics, Badges, Competencies, Learnin
OAuth2
Preset created prior to changing OAuth2 authentication settings.
Review settings and apply
Download
Delete
Show version history


Create site admin preset
Save all your current site admin settings as a preset to share or reuse.
Name
OAuth2
Description
Preset created prior to changing OAuth2 authentication settings.
Author
Alex Büchner
Include settings with passwords
Create preset
Cancel

Apply site admin preset

Review the setting changes before applying this preset.

Name	Description	Moodle release	Author	Site	Created	Imported
OAuth2	Preset created prior to changing OAuth2 authentication settings.	4.1dev (Build: 20220714)	Alex Büchner	http://localhost:8888/openumlaut	Friday, 15 July 2022, 6:05 am	

Setting changes

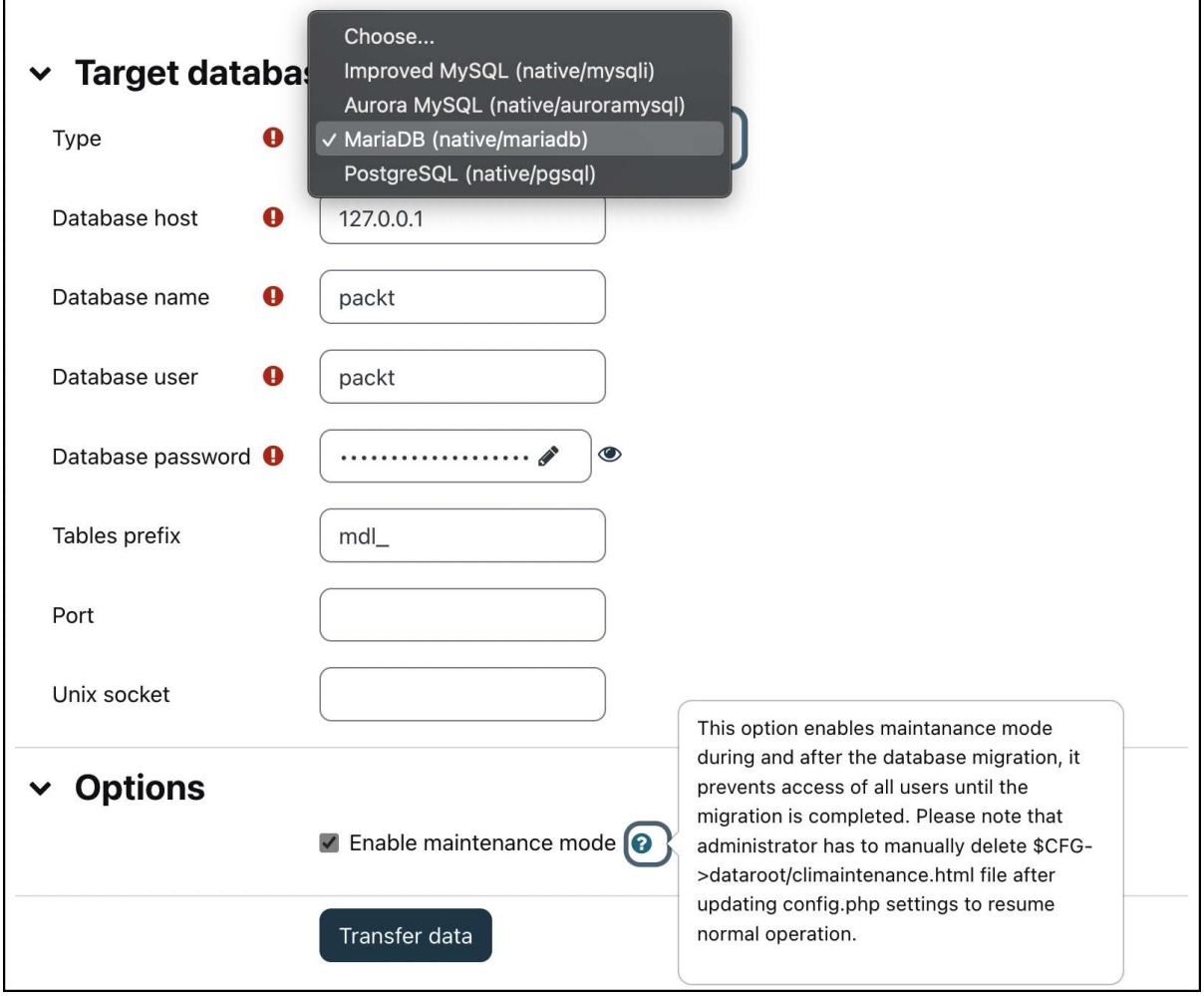
Setting name	Plugin	Current value	New value
Lock value (Email address)	auth_oauth2	Unlocked if empty	Unlocked
Lock value (First name)	auth_oauth2	Locked	Unlocked
Lock value (Surname)	auth_oauth2	Locked	Unlocked
OAuth 2	auth	Enabled	Disabled

If you change your mind after applying this preset, you can undo the setting changes via 'Show version history' in the preset actions menu.

Apply Cancel

Transfer this Moodle database to another server

This script will transfer the entire contents of this database to another database server. It is often used for migration of data to different database type.



This script should be considered experimental. Changes made cannot be reverted, thus a complete backup should be made before running the script!

Several tables are not updated as part of the text replacement. These include configuration, log, events, and session tables.

Expand all

DB search and replace

Search whole database for: https://packt311.openumlaut.com

usually previous server URL

Replace with this string: https://packt4.openumlaut.com

usually new server URL

Additional skip tables:

A list of tables (separated by commas) which should be skipped when running the database search and replace.

☐ Shorten result if necessary

Confirm

☑ I understand the risks of this operation

Yes, do it!

Moodle Adminer

Language: English

MySQL » Server » Database: moodle40

Logout

Adminer 4.8.1

DB: moodle40

SQL command | Import | Export | Create table

- mdl_adminpresets
- mdl_adminpresets_app
- mdl_adminpresets_app_it
- mdl_adminpresets_app_it_a
- mdl_adminpresets_app_plug
- mdl_adminpresets_it
- mdl_adminpresets_it_a
- mdl_adminpresets_plug
- mdl_analytics_indicator_calc
- mdl_analytics_models
- mdl_analytics_models_log
- mdl_analytics_predictions
- mdl_analytics_prediction_actions
- mdl_analytics_predict_samples
- mdl_analytics_train_samples
- mdl_analytics_used_analysables
- mdl_analytics_used_files
- mdl_assign
- mdl_assignfeedback_comments

Show structure

Database: moodle40

Alter database | Database schema | Privileges

Tables and views

Search data in tables (484)

Search

Table	Engine	Collation	Data Length	Index Length	Data Free	Auto Increment	Rows
mdl_adminpresets	InnoDB	utf8mb4_unicode_ci	8,192	0	0	3	~ 2
mdl_adminpresets_app	InnoDB	utf8mb4_unicode_ci	8,192	8,192	0	1	0
mdl_adminpresets_app_it	InnoDB	utf8mb4_unicode_ci	8,192	16,384	0	1	0
mdl_adminpresets_app_it_a	InnoDB	utf8mb4_unicode_ci	8,192	16,384	0	1	0
mdl_adminpresets_app_plug	InnoDB	utf8mb4_unicode_ci	8,192	8,192	0	1	0
mdl_adminpresets_it	InnoDB	utf8mb4_unicode_ci	8,192	8,192	0	27	~ 26
mdl_adminpresets_it_a	InnoDB	utf8mb4_unicode_ci	8,192	8,192	0	1	0
mdl_adminpresets_plug	InnoDB	utf8mb4_unicode_ci	8,192	8,192	0	126	~ 117
mdl_analytics_indicator_calc	InnoDB	utf8mb4_unicode_ci	32,768	16,384	0	517	~ 298
mdl_analytics_models	InnoDB	utf8mb4_unicode_ci	8,192	8,192	0	6	~ 5

Selected (0)

Analyze | Optimize | Check | Repair | Truncate | Drop

Move to other database: moodle40 | Move | Copy | ☐ overwrite

Close

CLI Script	Description	Chapter
adhoc_task	Executes adhoc tasks.	**15**
automated_backups	Executes automatic backups ignoring the set schedule.	**16**
backup	Backs up a single course to a named location.	**16**
cfg	Gets and sets config values.	**—**
check_database_schema	Validation that the current database structure matches `install.xml`.	**—**
cron	Executes the cron command.	**1**
dashboard_reset	Resets all dashboards.	**7**
fix_course_sequence	Checks and ensures that course modules and sections reference each other correctly. Only run if you experience inconsistencies.	**4**
fix_deleted_users	Fixes user accounts if they got deleted incorrectly. Only run if you experience inconsistencies.	**5**
install	Moodle installer that creates `config.php` and prepares the database.	**1**
install_database	Installs Moodle in an empty database. `config.php` must already exist.	**1**
kill_all_sessions	Kills all user sessions without warning.	**15**
maintenance	Enable or disable maintenance mode. Custom messages are stored in `$CFG->dataroot/climaintenance.html`.	**1**
mysql_engine	Converts MySQL tables to a different engine.	**—**
purge_caches	Clears all system caches.	**15**
reset_password	Resets a user's password. Also works for the admin account!	**5**
restore_backup	Restores a `.mbz` file.	**16**
scheduled_task	Executes a scheduled task manually.	**15**
uninstall_plugins	Uninstalls Moodle plugins.	**8**
upgrade	Upgrades Moodle to a newer version.	**1**

```
# Script to kill all user sessions and clear caches
cd /var/www/html/moodle

# Enable maintenance message
echo '<h1>Sorry, maintenance in progress</h1>' > climaintenance.html

# Enable maintenance message
php admin/cli/maintenance.php --enable

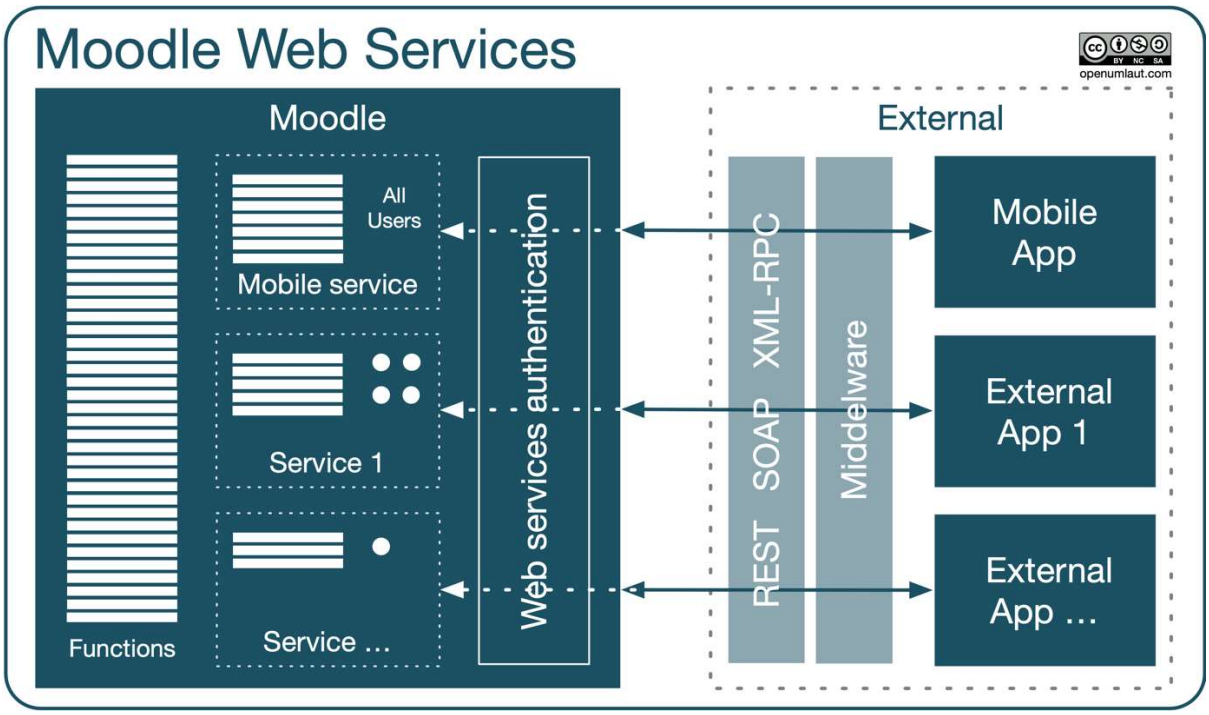
# Kill all user sessions
php admin/cli/kill_all_sessions.php

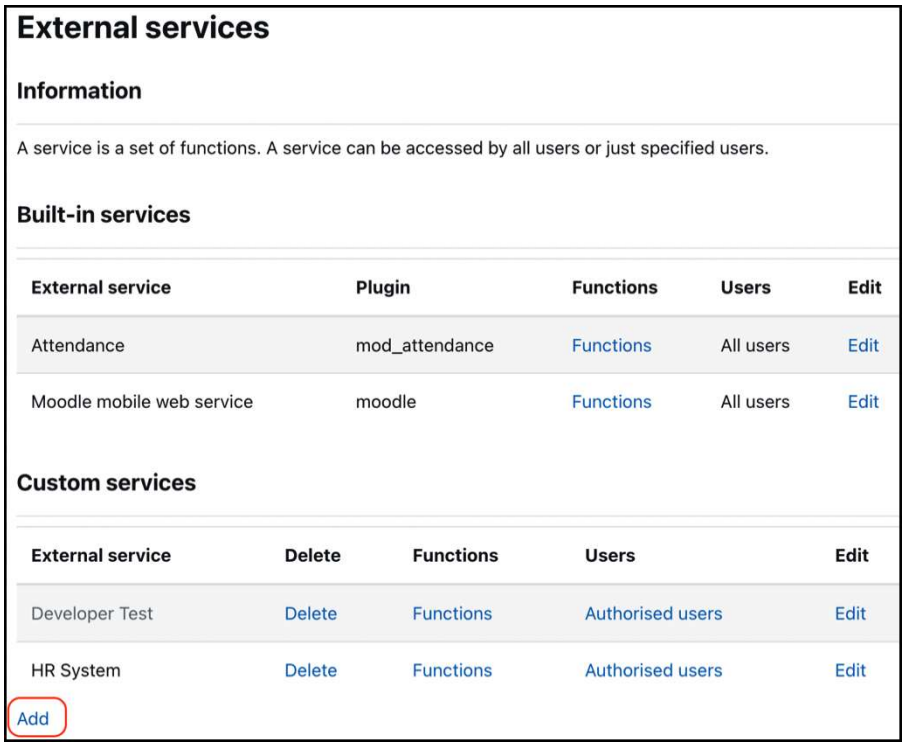
# Clear all system caches
php admin/cli/purge_caches.php

# Disable maintenance message
php admin/cli/maintenance.php --disable
```

```
pi@moodle:/var/www/html/moodle $ moosh course-list
"id","category","shortname","fullname","visible"
"1","0","Home","Home","1"
"2","Top/Computing/Computing Year 1","cpp","C++","1"
"4","Top/Computing","removed course","Removed Course","1"
"5","Top/Computing/Computing Year 1","Cat 2","Cat 2","1"
"6","Top/Computing/Computing Year 1","ALGDS1","Algorithms & Data Structures I","1"
"7","Top/Computing","Test","Test","1"
"8","Top/Computing","abc","abc","1"
pi@moodle:/var/www/html/moodle $ moosh category-list
id              name           idnumber       description    parent          visible
1               Computing      COMP                          Top             1
2               Computing Year 1COMP-1                        Top/Computing   1
3               Computing Year 2COMP-2                        Top/Computing   1
4               Computing Year 3COMP-3                        Top/Computing   0
pi@moodle:/var/www/html/moodle $ moosh user-create testuser{1..10}
150
151
152
153
154
155
156
157
158
159
```

Chapter 18: Integrating External Systems Using Moodle Web Services





External services

Information

A service is a set of functions. A service can be accessed by all users or just specified users.

Built-in services

External service	Plugin	Functions	Users	Edit
Attendance	mod_attendance	Functions	All users	Edit
Moodle mobile web service	moodle	Functions	All users	Edit

Custom services

External service	Delete	Functions	Users	Edit
Developer Test	Delete	Functions	Authorised users	Edit
HR System	Delete	Functions	Authorised users	Edit

Add

Allow an external system to control Moodle

The following steps help you to set up the Moodle web services to allow an external system to interact with Moodle. This includes setting up a token (security key) authentication method.

Step	Status	Description
1. Enable web services	Yes	Web services must be enabled in Advanced features.
2. Enable protocols	None	At least one protocol should be enabled. For security reasons, only protocols that are to be used should be enabled.
3. Create a specific user		A web services user is required to represent the system controlling Moodle.
4. Check user capability		The user should have appropriate capabilities according to the protocols used, for example webservice/rest:use, webservice/soap:use. To achieve this, create a web services role with protocol capabilities allowed and assign it to the web services user as a system role.
5. Select a service		A service is a set of web service functions. You will allow the user to access to a new service. On the **Add service** page check 'Enable' and 'Authorised users' options. Select 'No required capability'.
6. Add functions		Select required functions for the newly created service.
7. Select a specific user		Add the web services user as an authorised user.
8. Create a token for a user		Create a token for the web services user.
9. Enable developer documentation	**No**	Detailed web services documentation is available for enabled protocols.
10. Test the service		Simulate external access to the service using the web service test client. Use an enabled protocol with token authentication. **WARNING: The functions that you test WILL BE EXECUTED, so be careful what you choose to test!**

Manage protocols

Active web service protocols

Protocol	Version	Enable	Settings
REST protocol	2022041900		
SOAP protocol	2022041900		
XML-RPC protocol	2022041900		

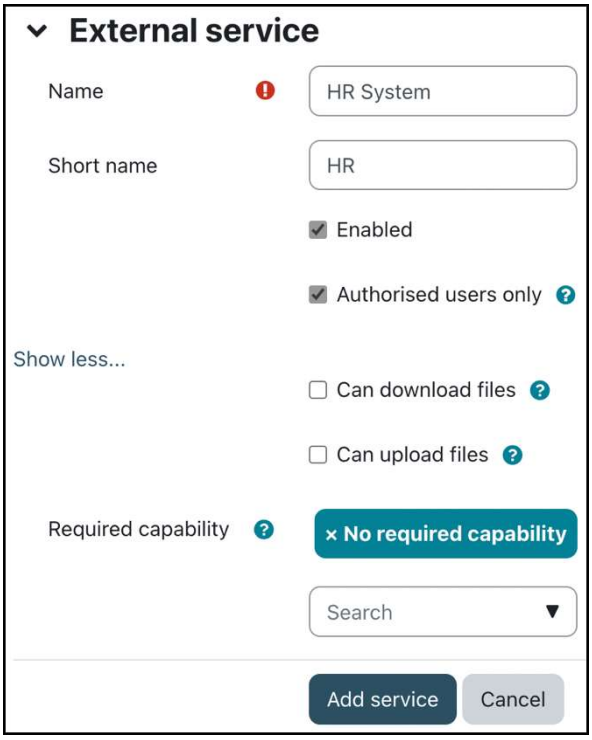
For security reasons, only protocols that are in use should be enabled.

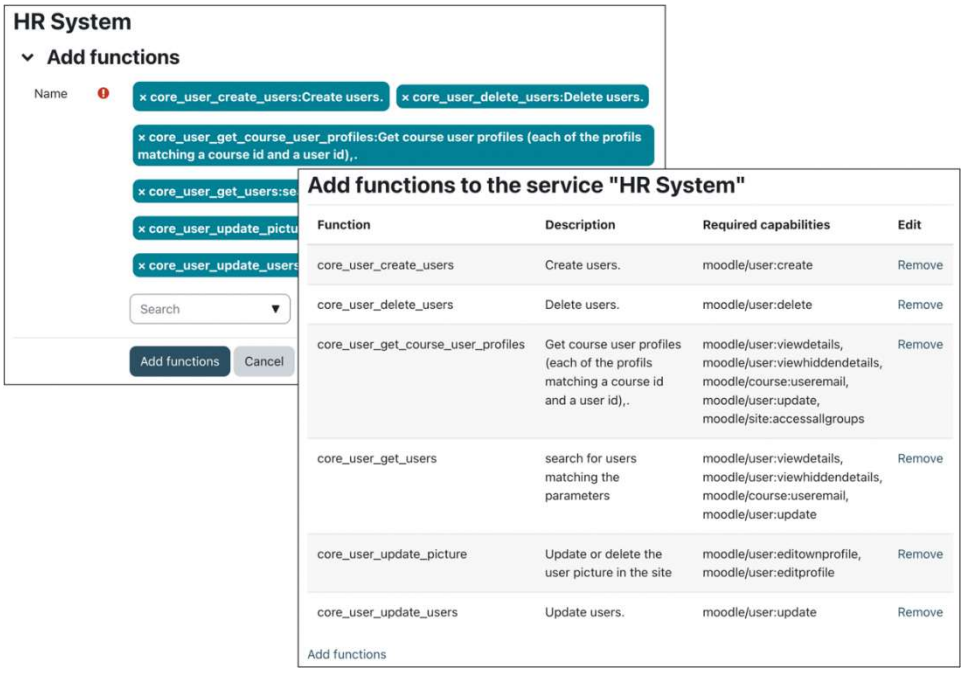
Web services documentation
enablewsdocumentation

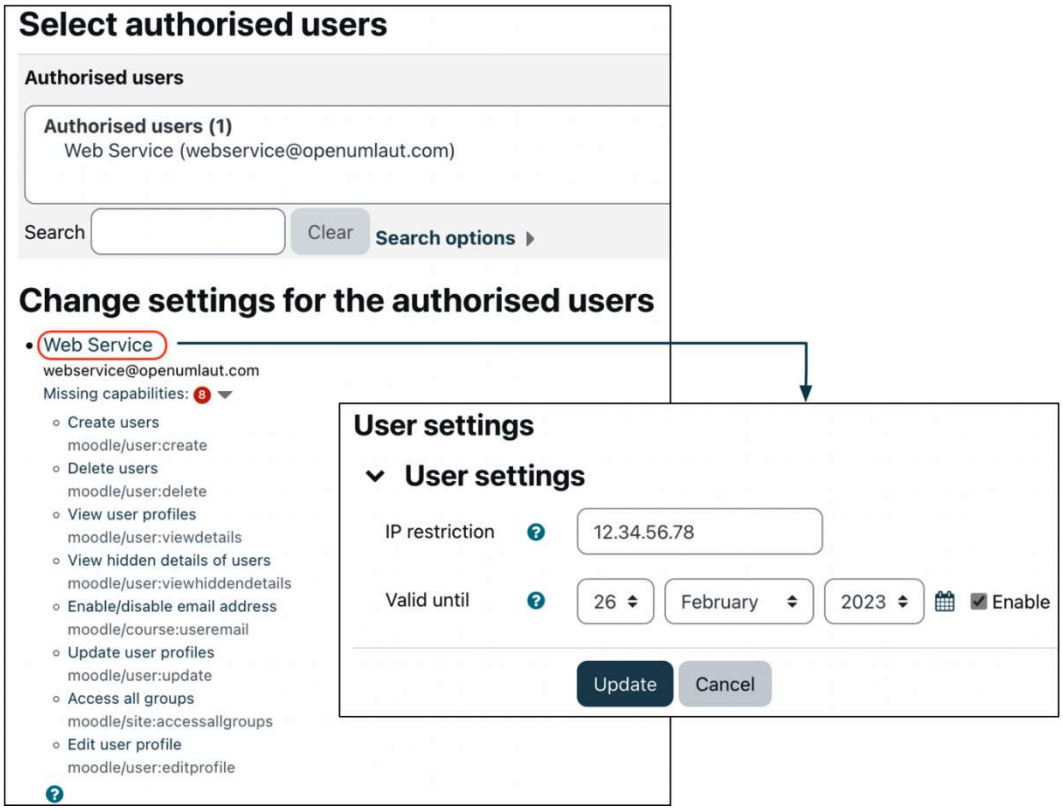
☑ Default: No

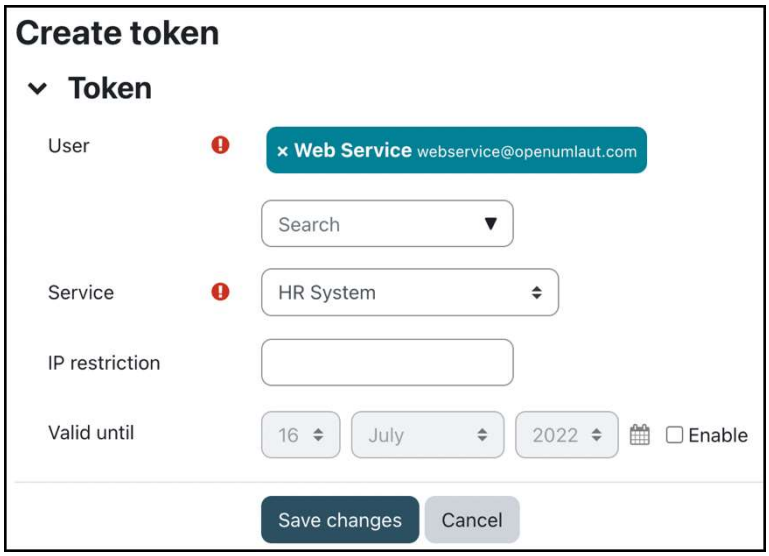
Enable auto-generation of web services documentation. A user can access to his own documentation on his security keys page More details. It displays the documentation for the enabled protocols only.

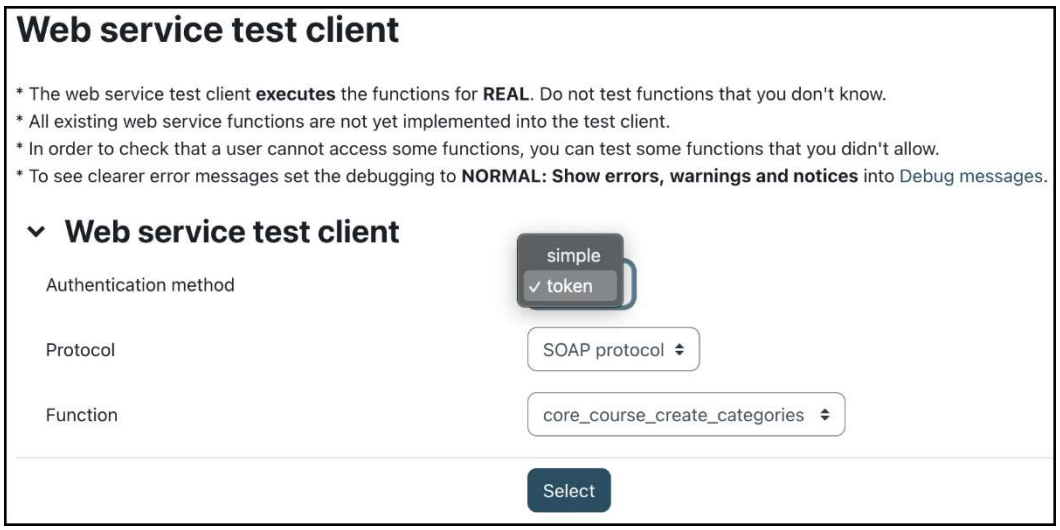
Save changes

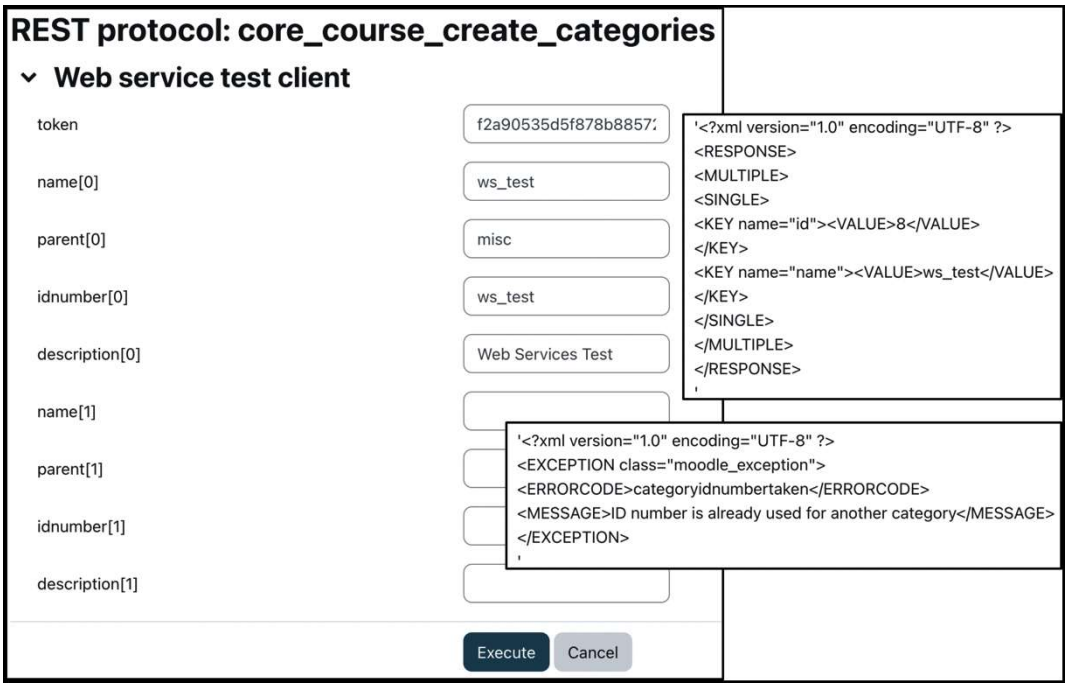

External service
Name
HR System
Short name
HR
Enabled
Authorised users only
Show less...
Can download files
Can upload files
Required capability
× No required capability
Search
Add service
Cancel


HR System
Add functions
Name
× core_user_create_users:Create users.
× core_user_delete_users:Delete users.
× core_user_get_course_user_profiles:Get course user profiles (each of the profils matching a course id and a user id),.
× core_user_get_users:se
× core_user_update_pictu
× core_user_update_users
Search
Add functions
Cancel
Add functions to the service "HR System"
Function
Description
Required capabilities
Edit
core_user_create_users
Create users.
moodle/user:create
Remove
core_user_delete_users
Delete users.
moodle/user:delete
Remove
core_user_get_course_user_profiles
Get course user profiles (each of the profils matching a course id and a user id),.
moodle/user:viewdetails, moodle/user:viewhiddendetails, moodle/course:useremail, moodle/user:update, moodle/site:accessallgroups
Remove
core_user_get_users
search for users matching the parameters
moodle/user:viewdetails, moodle/user:viewhiddendetails, moodle/course:useremail, moodle/user:update
Remove
core_user_update_picture
Update or delete the user picture in the site
moodle/user:editownprofile, moodle/user:editprofile
Remove
core_user_update_users
Update users.
moodle/user:update
Remove
Add functions


Select authorised users
Authorised users
Authorised users (1)
Web Service (webservice@openumlaut.com)
Search
Clear
Search options
Change settings for the authorised users
Web Service
webservice@openumlaut.com
Missing capabilities: 8
Create users
moodle/user:create
Delete users
moodle/user:delete
View user profiles
moodle/user:viewdetails
View hidden details of users
moodle/user:viewhiddendetails
Enable/disable email address
moodle/course:useremail
Update user profiles
moodle/user:update
Access all groups
moodle/site:accessallgroups
Edit user profile
moodle/user:editprofile
User settings
User settings
IP restriction
12.34.56.78
Valid until
26
February
2023
Enable
Update
Cancel


Create token
Token
User
× Web Service webservice@openumlaut.com
Search
Service
HR System
IP restriction
Valid until
16
July
2022
Enable
Save changes
Cancel


Web service test client
* The web service test client executes the functions for REAL. Do not test functions that you don't know.
* All existing web service functions are not yet implemented into the test client.
* In order to check that a user cannot access some functions, you can test some functions that you didn't allow.
* To see clearer error messages set the debugging to NORMAL: Show errors, warnings and notices into Debug messages.
Web service test client
Authentication method
simple
token
Protocol
SOAP protocol
Function
core_course_create_categories
Select

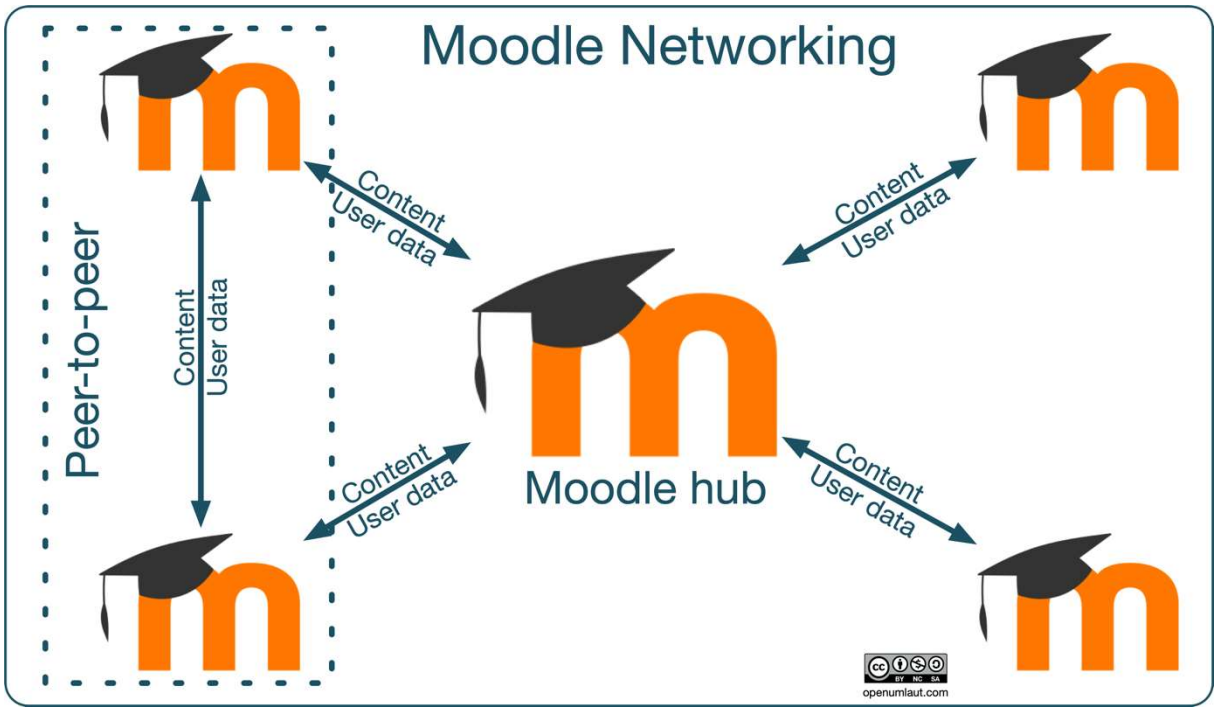

REST protocol: core_course_create_categories
Web service test client
token
f2a90535d5f878b8857
name[0]
ws_test
parent[0]
misc
idnumber[0]
ws_test
description[0]
Web Services Test
name[1]
parent[1]
idnumber[1]
description[1]
Execute
Cancel
'<?xml version="1.0" encoding="UTF-8" ?>
<RESPONSE>
<MULTIPLE>
<SINGLE>
<KEY name="id"><VALUE>8</VALUE>
</KEY>
<KEY name="name"><VALUE>ws_test</VALUE>
</KEY>
</SINGLE>
</MULTIPLE>
</RESPONSE>
'
'<?xml version="1.0" encoding="UTF-8" ?>
<EXCEPTION class="moodle_exception">
<ERRORCODE>categoryidnumbertaken</ERRORCODE>
<MESSAGE>ID number is already used for another category</MESSAGE>
</EXCEPTION>
'

Users as clients with token

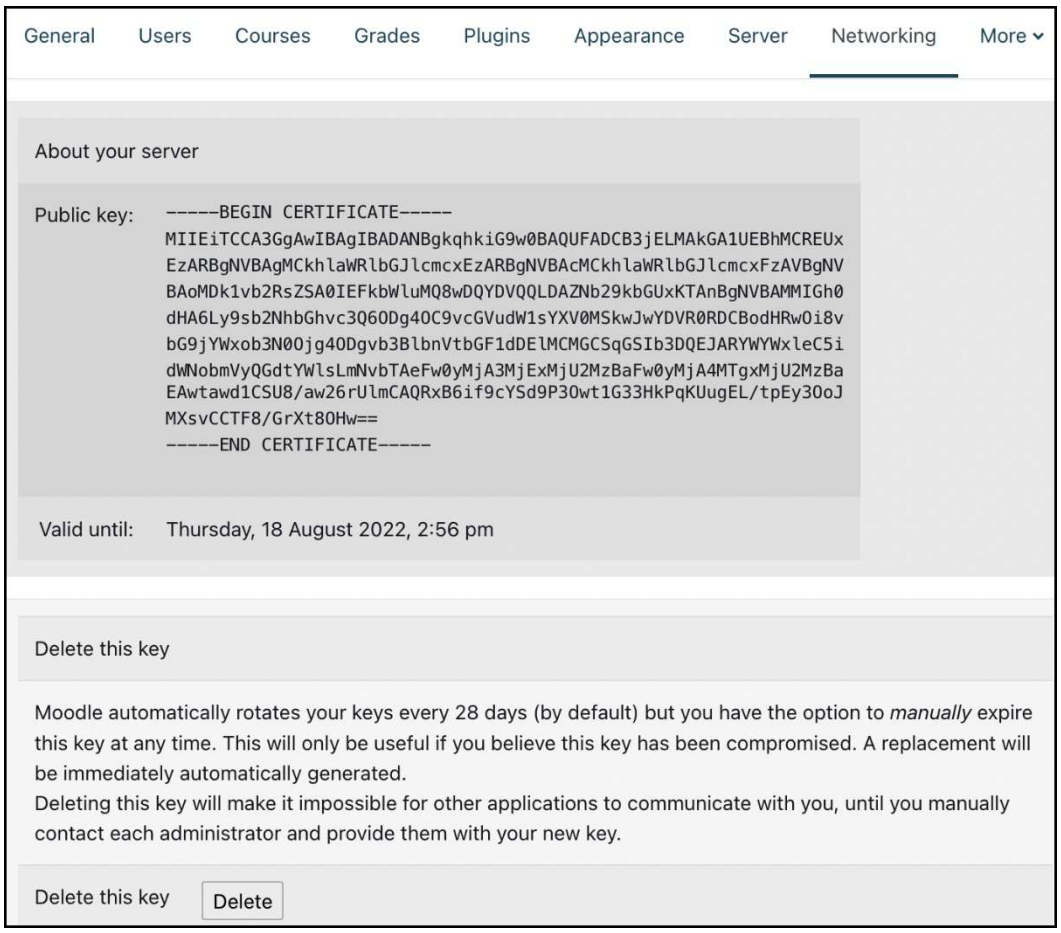
The following steps help you to set up the Moodle web service for users as clients. These steps also help to set up the recommended token (security keys) authentication method. In this use case, the user will generate their token from the security keys page via their preferences page.

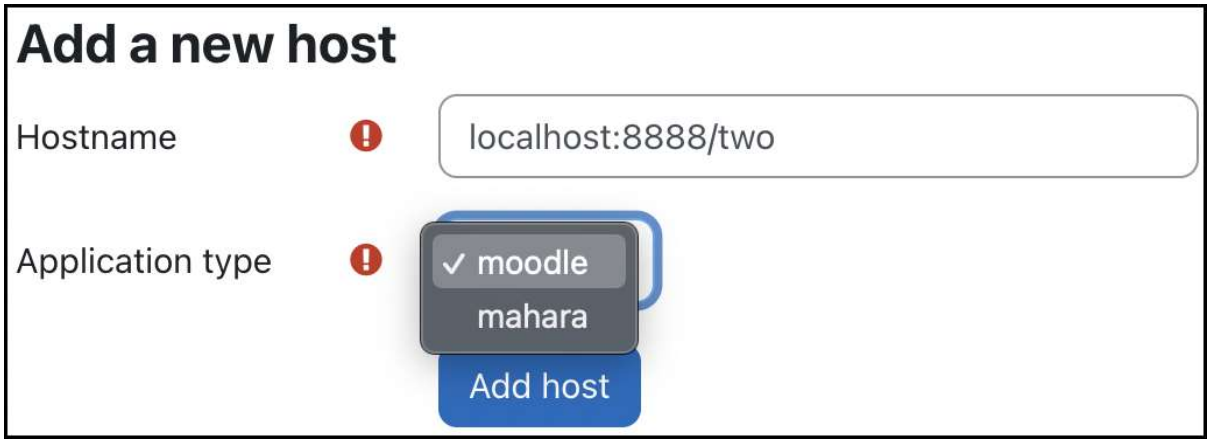
Step	Status	Description
1. Enable web services	Yes	Web services must be enabled in Advanced features.
2. Enable protocols	rest soap	At least one protocol should be enabled. For security reasons, only protocols that are to be used should be enabled.
3. Select a service		A service is a set of web service functions. You will allow users to access to a new service. On the **Add service** page check 'Enable' and uncheck 'Authorised users' options. Select 'No required capability'.
4. Add functions		Select required functions for the newly created service.
5. Check users capability		Users should have two capabilities - webservice:createtoken and a capability matching the protocols used, for example webservice/rest:use, webservice/soap:use. To achieve this, create a web services role with the appropriate capabilities allowed and assign it to the web services user as a system role.
6. Test the service		Simulate external access to the service using the web service test client. Before doing so, log in as a user with the moodle/webservice:createtoken capability and obtain the security key (token) via the user's preferences page. You will use this token in the test client. In the test client, also choose an enabled protocol with the token authentication. **WARNING: The functions that you test WILL BE EXECUTED for this user, so be careful what you choose to test!**

Chapter 19: Setting Up Moodle Networking



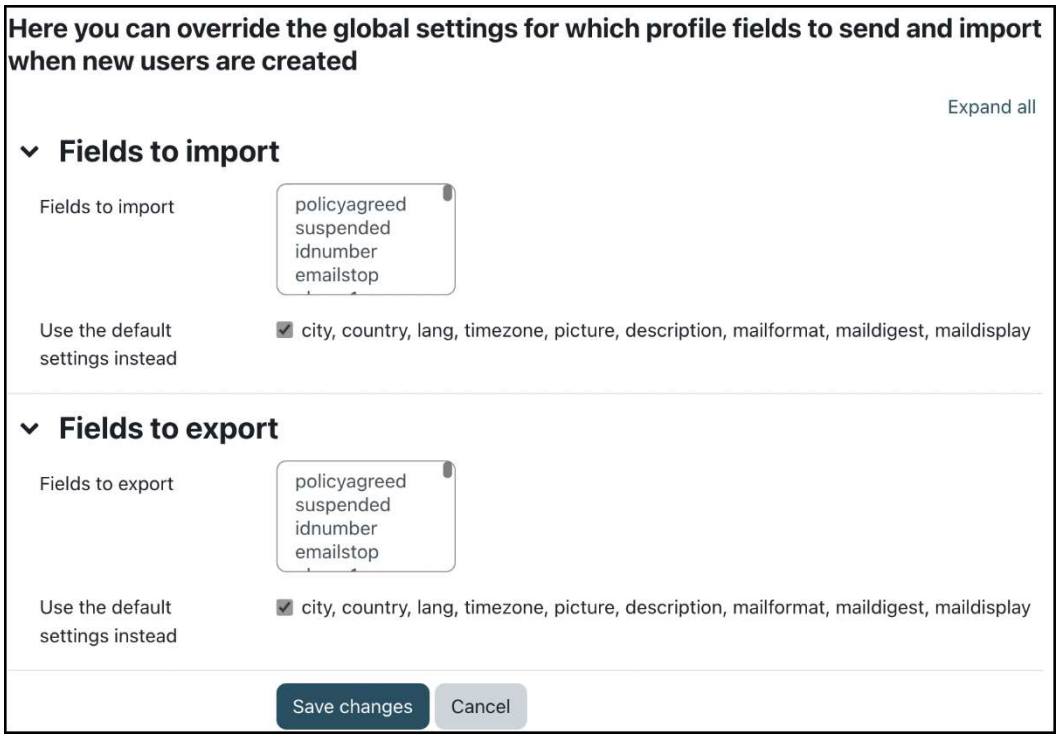
php_extension	curl	must be installed and enabled	OK
php_extension	openssl	must be installed and enabled	OK
php_extension	tokenizer	should be installed and enabled for best results	OK
php_extension	xmlrpc	should be installed and enabled for best results	OK

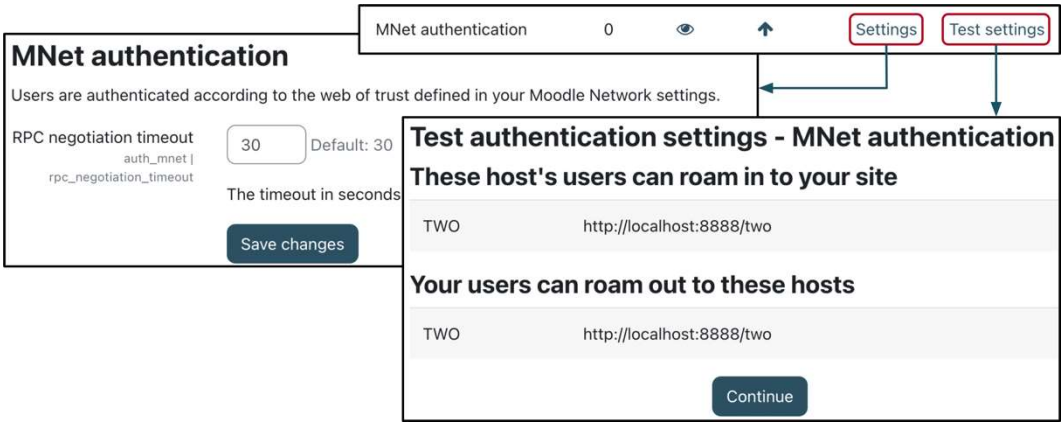

General
Users
Courses
Grades
Plugins
Appearance
Server
Networking
More
About your server
Public key:
-----BEGIN CERTIFICATE-----
MIIEiTCCA3GgAwIBAgIBADANBgkqhkiG9w0BAQUFADCB3jELMAkGA1UEBhMCREUx
EzARBgNVBAgMCkhlaWRlbGJlcmcxEzARBgNVBAcMCkhlaWRlbGJlcmcxFzAVBgNV
BAoMDk1vb2RsZSA0IEFkbWluMQ8wDQYDVQQLDAZNb29kbGUxKTAnBgNVBAMMIGh0
dHA6Ly9sb2NhbGhvc3Q6ODg4OC9vcGVudW1sYXV0MSkwJwYDVR0RDCBodHRwOi8v
bG9jYWxob3N0Ojg4ODgvb3BlbnVtbGF1dDElMCMGCSqGSIb3DQEJARYWYWxleC5i
dWNobmVyQGdtYWlsLmNvbTAeFw0yMjA3MjExMjU2MzBaFw0yMjA4MTgxMjU2MzBa
EAwtawd1CSU8/aw26rUlmCAQRxB6if9cYSd9P3Owt1G33HkPqKUugEL/tpEy3OoJ
MXsvCCTF8/GrXt8OHw==
-----END CERTIFICATE-----
Valid until:
Thursday, 18 August 2022, 2:56 pm
Delete this key
Moodle automatically rotates your keys every 28 days (by default) but you have the option to manually expire this key at any time. This will only be useful if you believe this key has been compromised. A replacement will be immediately automatically generated.
Deleting this key will make it impossible for other applications to communicate with you, until you manually contact each administrator and provide them with your new key.
Delete this key
Delete

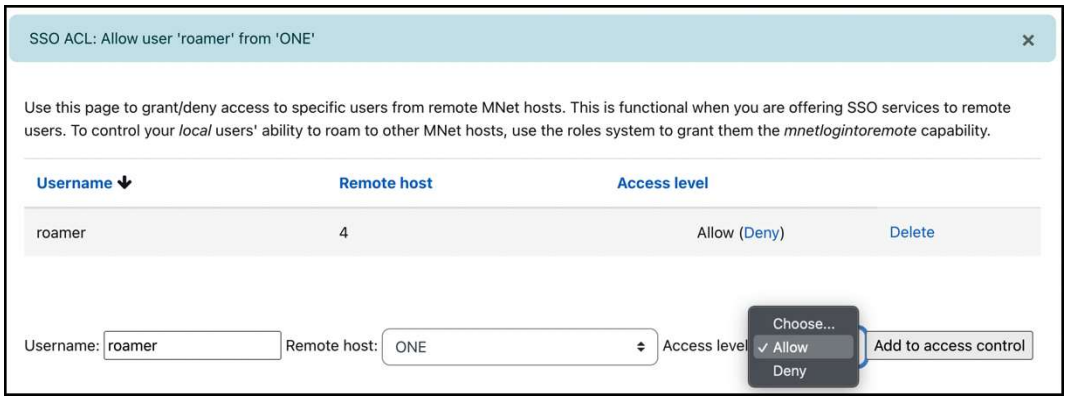

Add a new host
Hostname
localhost:8888/two
Application type
moodle
mahara
Add host

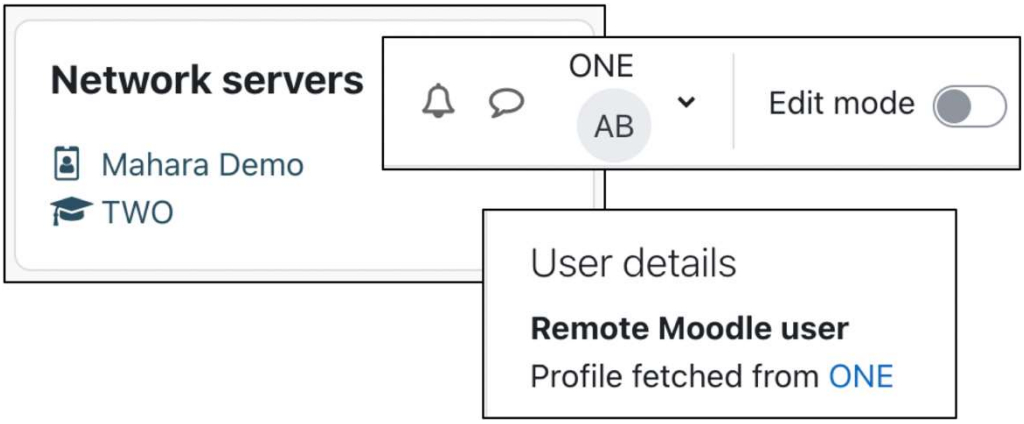


	Local users	Remote users
Publish identity provider	Allow roaming	
Subscribe service provider	Allow roaming	
Subscribe identity provider		Grant access
Publish service provider		Grant access

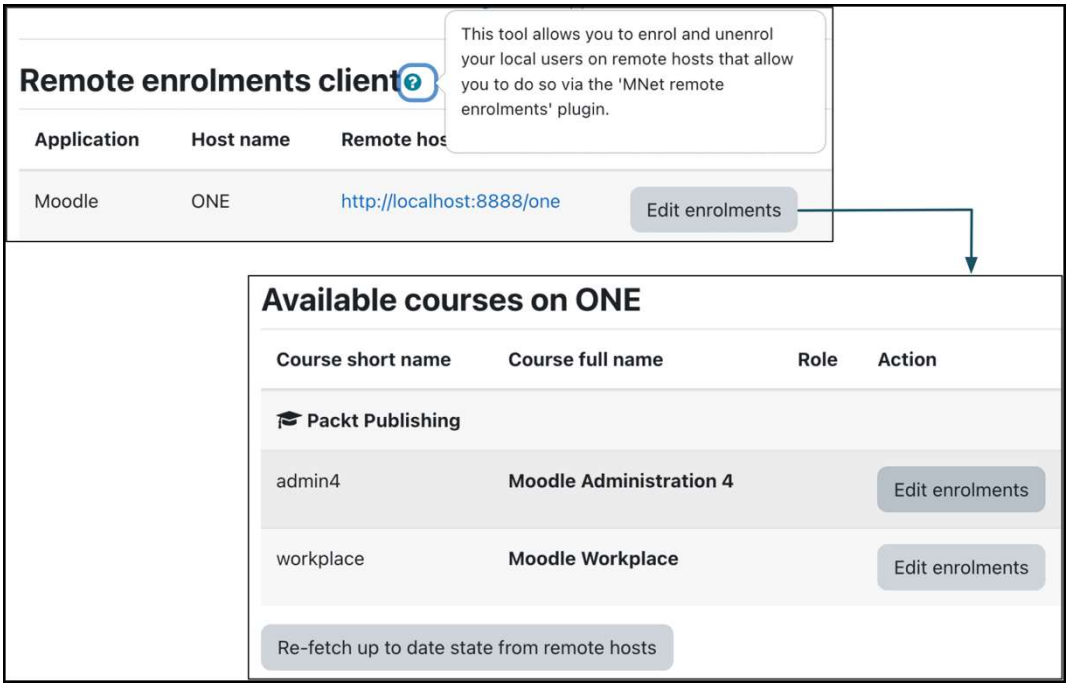




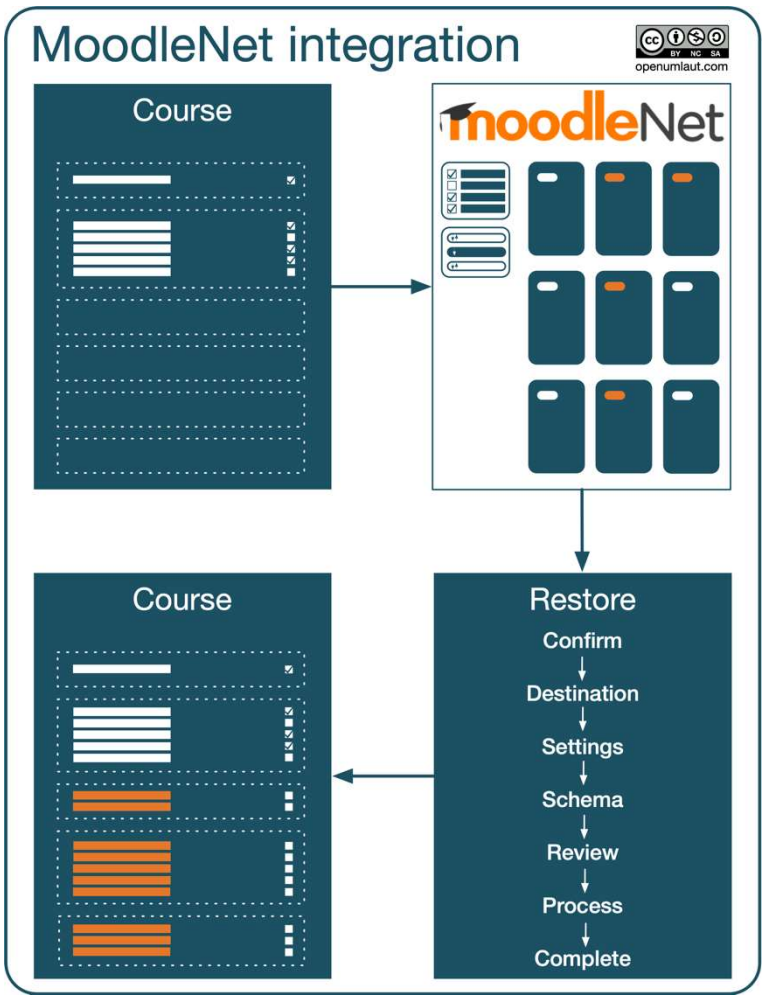


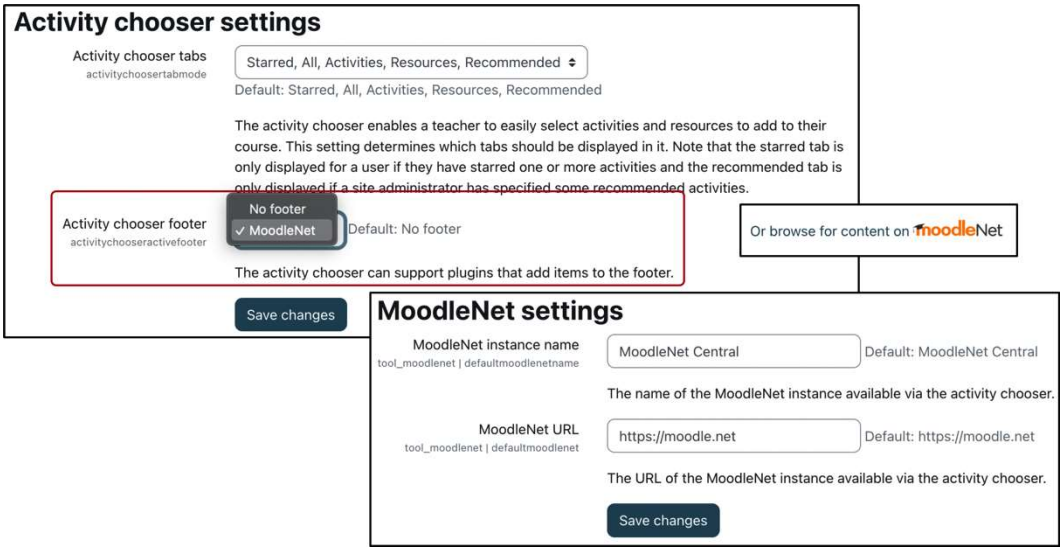


First name / Surname	Email address	City/town	Country	Last access	Edit	
Admin User	info@openumlaut.com	Heidelberg	Germany	now		
Alex Büchner	packt@openumlaut.com			2 mins 29 secs	(Deny access)	Allow: ONE
Roamer One	roamer@openumlaut.com			2 mins 9 secs	(Allow access)	Deny: ONE



	SSO (Identity Provider)	SSO (Service Provider)	Enrolment
Moodle Hub	Subscribe	Subscribe	Publish
Connecting Peer	Publish & Subscribe	Publish & Subscribe	Subscribe

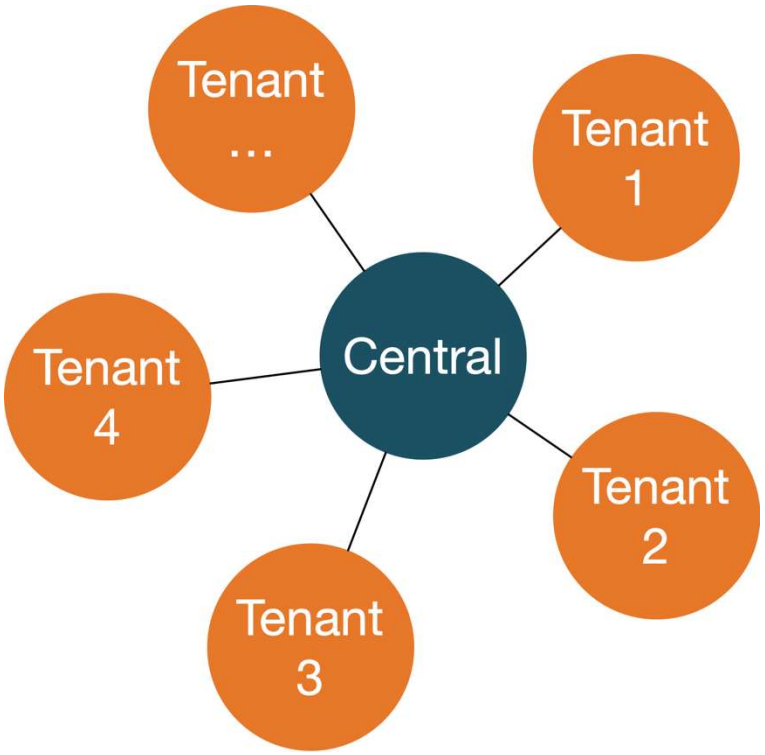


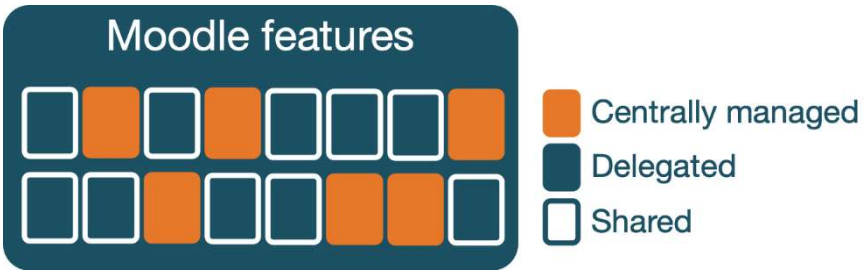


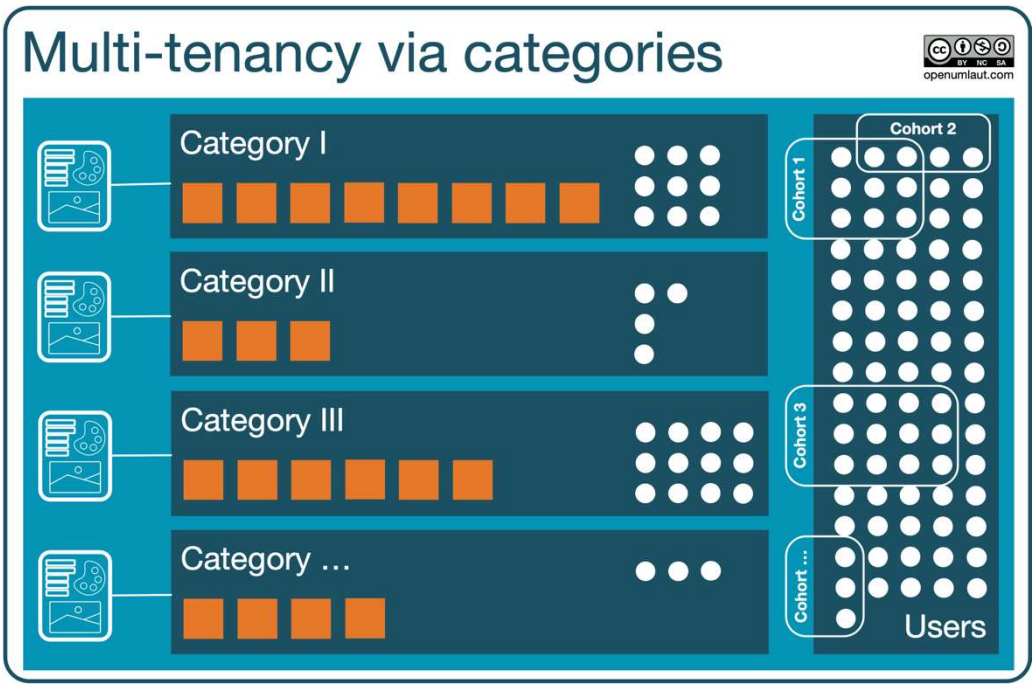
Checklist Moodle Networking

☑ Install curl, openssl, and xmlrpc	PHP
☑ Enable networking	General I Advanced settings
☑ Generate public key	Networking I Settings
☑ Add peers	Networking I Manage peers
☑ Configure peer services and profile fields	Networking I Manage peers
☑ Enable MNet authentication	Plugins I Authentication I Manage authentication
☑ Allow roaming	Networking I SSO access control
☑ Add Network servers block	Dashboard
☑ Configure network enrolment	Plugins I Enrolment I Manage enrol plugins
☑ Set up a network hub	Networking I Manage peers

Chapter 20: Supporting Multi-Tenancy



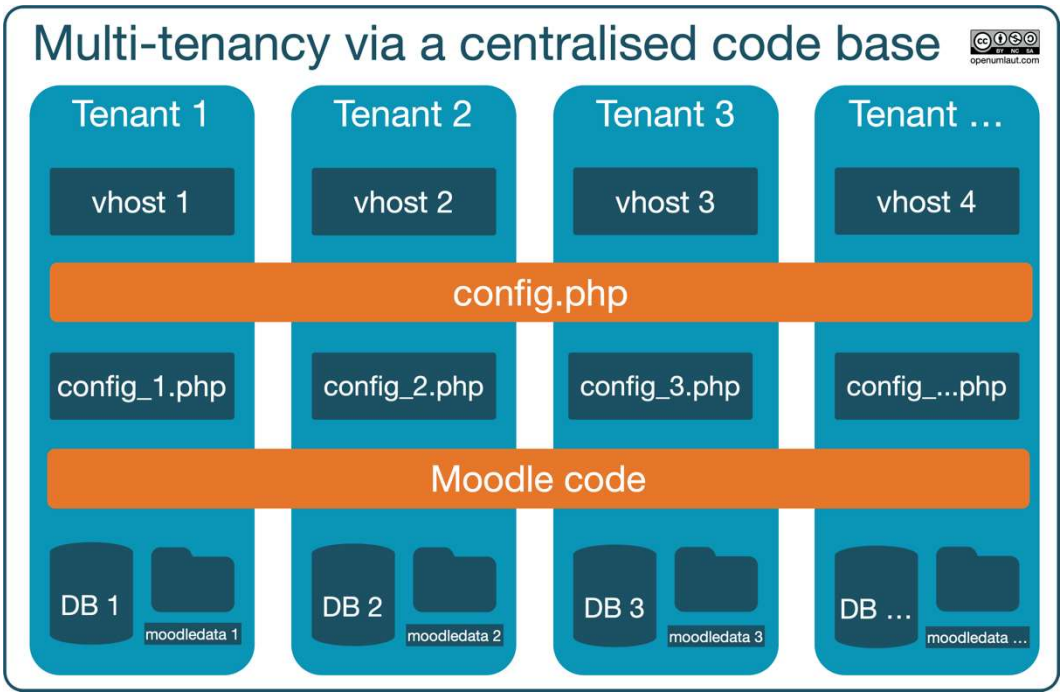




Multi-tenancy via categories

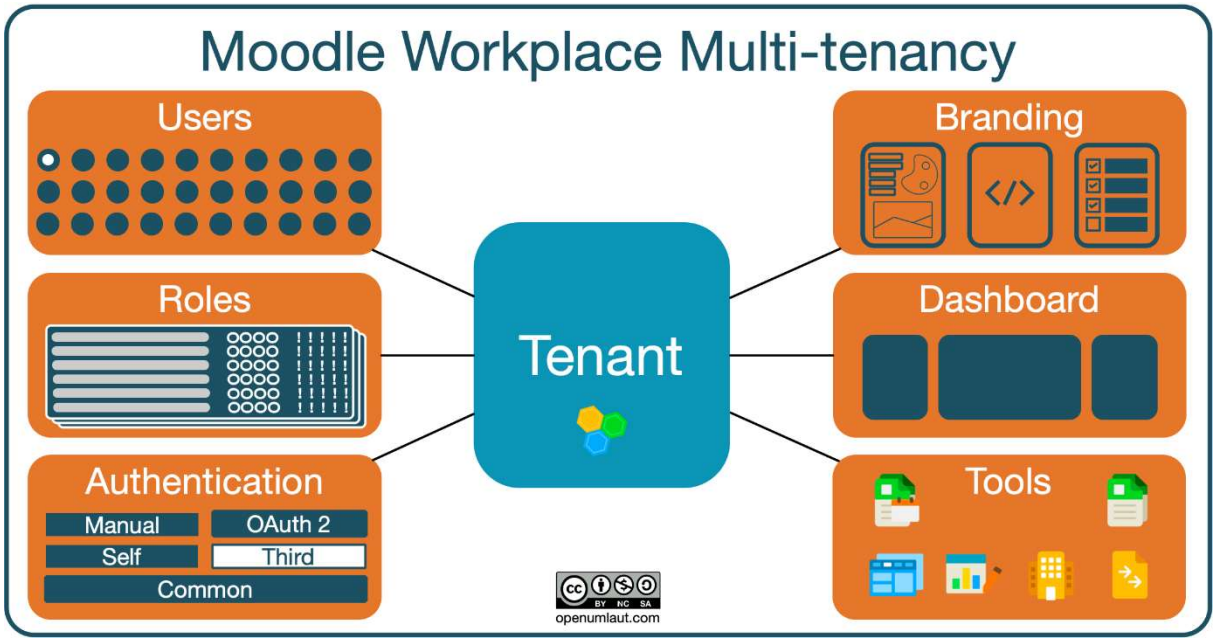
✓ Users	Category cohorts / users can be in multiple categories
✓ Courses	Courses separated by categories
✓ Modules	Same modules for all users, but can be restricted via permissions
✗ Settings	No separation possible
✗ Admin tools	No separation possible
✓ Themes	Category themes, but only visible after login
✗ Moodle code	Single code base

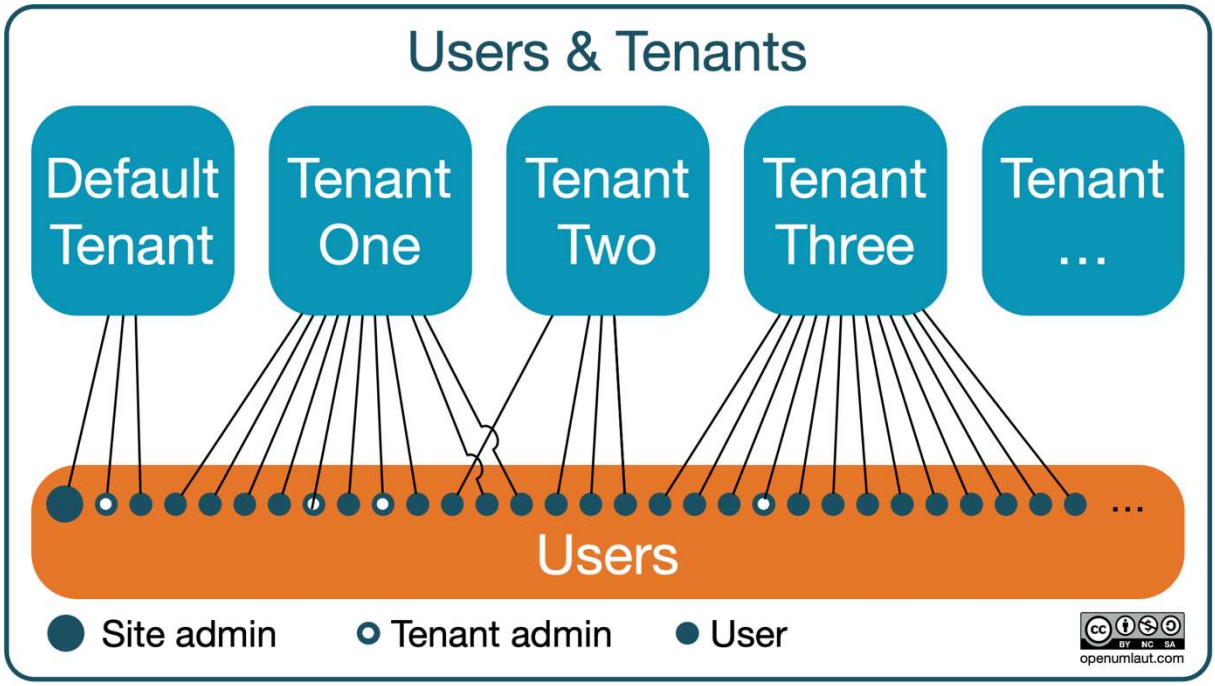
Multi-tenancy via a centralised code base



Multi-tenancy via a centralised code base

✓ Users	Separate user accounts and authentication / users can be in multiple tenants
✓ Courses	Separate courses and course categories / no sharing possible
✓ Modules	Same modules for all users, but can be restricted via permissions
✓ Settings	Full separation of all settings
✓ Admin tools	Full separation of all admin tools
✓ Themes	Separate theme for each instance
✗ Moodle code	Single code base


Moodle Workplace Multi-tenancy
Users
Roles
Authentication
Manual
OAuth 2
Self
Third
Common
Tenant
Branding
Dashboard
Tools
openumlaut.com


Users & Tenants
Default Tenant
Tenant One
Tenant Two
Tenant Three
Tenant ...
Users
Site admin
Tenant admin
User
openumlaut.com

Custom reports

New report

Filters

Reset table preferences

Name	Report source	Time created	Time modified	Modified by
Issued certificates Shared space	Issued certificates	Monday, 22 August 2022, 7:29 AM	Monday, 22 August 2022, 7:29 AM	Admin User
New users	Users	Monday, 22 August 2022, 7:27 AM	Monday, 22 August 2022, 7:27 AM	Admin User
New users (all) Shared space	Users	Monday, 22 August 2022, 7:13 AM	Monday, 22 August 2022, 7:29 AM	Admin User
Seminars	Appointments	Monday, 22 August 2022, 7:12 AM	Monday, 22 August 2022, 7:12 AM	Admin User

