Moodle Load Monitor: capabilities and services

This page summarises the access rights of the `tool_moodleload` component, the web service it declares, the roles and account created at installation, and what is removed at uninstallation. It serves as a reference for administrators who need to audit or restrict access.

Capabilities

Both capabilities are defined at the **system context** level and granted by default to the **Manager** role (*manager* archetype). No other role receives them.

Capability	Type	Context	Manager	Allows
`tool/moodleload:readmetrics`	Read	System	yes	Read the host metrics (dashboard and `tool_moodleload_get_metrics` function), answer the load test authorisation handshake (`tool_moodleload_authorize_load`).
`tool/moodleload:setuptests`	Write	System	yes	Prepare the test material: validate an uploaded file, restore the test course, create or update the test users and their enrolments.

Additional controls, outside the plugin's capabilities:

- The **engine status view** (`view.php`) requires being a site administrator (`moodle/site:config`), whatever capabilities are assigned.
- Restoring a course also requires, in the destination category, the standard Moodle capabilities `moodle/course:create` and `moodle/restore:restorecourse`.
- Calling the service by token requires the user to hold `webservice/rest:use` (see the dedicated role below).

The web service

Property	Value
Name	Moodle Load Monitor
Short name	`moodleload_monitor`
Enabled	yes, at installation
Users	Restricted: only explicitly authorised users can obtain a token
File upload	allowed
File download	disabled
Protocol	REST

Declared functions:

Function	Type	AJAX session	Required capability
`tool_moodleload_get_metrics`	Read	yes (the dashboard calls it with the user's session)	`tool/moodleload:readmetrics`
`tool_moodleload_authorize_load`	Read	no	`tool/moodleload:readmetrics`
`app_moodleload_commit`	Write	no	`tool/moodleload:setuptests`
`app_moodleload_restore_course`	Write	no	`tool/moodleload:setuptests`
`app_moodleload_bulk_create_install_users`	Write	no	`tool/moodleload:setuptests`

The details of the parameters and responses are given in Moodle Load Monitor: web service.

To complete: the “ready to use” installation services of a test scenario and its resources, added after version 4.5.0010, are not yet described here. For each: name, role, parameters, required capability and effects on the site (resources created, items replaced).

What the installation creates

Provisioning is run at installation, replayed at upgrade on sites installed before this feature, and can be re-run safely.

Item	Detail
Technical account	User `moodleload` (“Moodle Load Test Engine”), manual authentication, unknown random password, fictitious address `moodleload@moodleload.invalid`, emails disabled. An existing account with the same name is kept.
Authorisation	The account is added to the authorised users of the *Moodle Load Monitor* service.
Manager role	Assigned to the account in the system context, so that it can manage courses, categories and users. It carries the plugin's two capabilities.
Moodle Load web service role	Dedicated role (short name `moodleloadws`), which only carries `webservice/rest:use`. No default role has this capability: without it, the token would be refused for a user who is not an administrator.
Token	A permanent token on the service, valid for 3 months, not displayed and not renewed automatically.
Course category	Top-level category *Load Tests*, named according to the site language.
File area	The validated test material files are kept in the system context, component `app_moodleload`, one file per use.

The two role assignments are tied to the component: they cannot be modified from the standard role assignment interface.

What uninstallation removes

- the service tokens, the account authorisation, the role assignments, the dedicated role;
- the *Load Tests* category if it is empty (otherwise it is kept);
- the uploaded test material files;
- the `moodleload` account, only if it was created by the plugin. A pre-existing account is not

deleted: only what the plugin added to it is removed.

The test courses and users created by the write functions are **not** deleted by uninstallation.

Security recommendations

- The `moodleload` account is a site manager: treat its token like an administration credential, do not publish it, and let it expire or delete it when the tests are finished.
- Do not install this component on a production site. Failing that, disable the service in *Site administration / Server / Web services / External services* and untick *Allow load tests* in the settings.
- Monitor the use of the write functions: restoring deletes an existing course with the same short name.
- Limit the tests in time and volume with the *Allowed hours* and *Maximum load* settings.

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