



## User guide

# Zabbix Report

## Overall Presentation

The Zabbix report is report plugin performing measurements and data emission to a Zabbix Server and has **no direct interface** in Moodle. Only global configuration is necessary to ensure operation. The measurement results are exploited in the Zabbix interface, through graphs, recollection screens, or customized dashboards.

Path : Site admin ⇒ plugins ⇒ reports ⇒ zabbix sender

## Report configuration

### Zabbix Sender

<p>Zabbix server protocol <small>report_zabbix   zabbixprotocol</small></p>	<p><input type="text" value="HTTPS"/> Default: HTTPS</p> <p>Protocol of zabbix server. Zabbix server should be addressed directly without protocol redirection</p>
<p>Zabbix server version <small>report_zabbix   zabbixversion</small></p>	<p><input type="text" value="6.4"/> Default: 6.4</p> <p>Version of zabbix. This may affect how moodle connects to zabbix (fe. for registering).</p>
<p>Zabbix server IP or servername <small>report_zabbix   zabbixserver</small></p>	<p><input type="text"/> Default: Empty</p> <p>Direct IP of zabbix server or proxy. Can use dns names as known by the current environment</p>
<p>Web path to Zabbix API <small>report_zabbix   zabbixapipath</small></p>	<p><input type="text"/> Default: Empty</p> <p>An absolute path (starting with slash) to append to server name to find the Zabbix web front end (often defaults to /zabbix).</p>
<p>Moodle registered hostname in zabbix <small>report_zabbix   zabbixhostname</small></p>	<p><input type="text" value="moodle45-progressive.activeprolearn.c"/> Default: moodle45-progressive.activeprolearn.c</p> <p>Host name associated to the MOODLE application template. Will default to local WWWROOT.</p>
<p>zabbix_sender shell command <small>report_zabbix   zabbixsendercmd</small></p>	<p><input type="text" value="/usr/bin/zabbix_sender"/> </p> <p>Default: /usr/bin/zabbix_sender</p> <p>The zabbix_sender command location</p>

**Zabbix server protocol zabbixprotocol:** The server's protocol used for administration operations using the zabbix API. the Zabbix server should be directly accessible without redirects. Default : HTTPS

**Zabbix server IP zabbixserver:** direct IP of the server or zabbix proxy. A known DNS name is

acceptable - Default: Empty

**Moodle host name in zabbix zabbixhostname:** The host name used to defined the host entry in the Zabbix server configuration. Herein name must match exactly what was used in host definition.

**zabbix\_sender shell commandzabbixsendercmd:** The location of the “sender” command to send data to Zabbix. Defaults to: /usr/bin/zabbix\_sender

The screenshot shows a configuration form with the following fields and values:

- User policy** (report\_zabbix | userrolepolicy): A dropdown menu set to "Policy based on standard role assignments in moodle." with a default value of "Policy based on standard role assignments in moodle." Below it is the text "Policy to check user's main role in moodle".
- Zabbix admin username** (report\_zabbix | zabbixadminusername): A text input field containing "admin" with a default value of "admin". Below it is the text "Username of the Zabbix admin capable to operate the Zabbix API".
- Zabbix admin password** (report\_zabbix | zabbixadminpassword): A password field with masked characters "\*\*\*\*\*" and icons for show/hide and copy. Below it is the text "Password of the Zabbix admin capable to operate the Zabbix API".
- Zabbix groups** (report\_zabbix | zabbixgroups): An empty text input field with a default value of "Empty". Below it is the text "Groups to link the current host".
- Zabbix interface definition** (report\_zabbix | interfacedef): A dropdown menu set to "By DNS" with a default value of "By DNS". Below it is the text "The method to inform zabbix about the available interface for this hostname."

**User roles userrolepolicy:** Method for determination of user roles. This determination can be usefull for some values that are indexed to a user role, such as Studetns or Teachers, f.e. when counting connections. Some methods require special configurations. Default: Resolution based on standard role assignments of moodle.

- Other choice: Resolution based on profile fields (case of Moodle in ENTs)

**Username Zabbix zabbixadminusername:** The administrator's username who can operate the Zabbix API. This user must have been created in the Zabbix administration. This user does NOT need to access the Zabbix frontend. However, he do needs to read and write in the MOODLE models of the zabbix host associated with Moodle. Default: admin

**Zabbix password zabbixadminpassword:** The administrator's password allowed to operate the Zabbix API.

**Zabbix groups zabbixgroups:**

Groups (comma separated list) to attach this host to. Zabbix hosts representing a moodle can be grouped into zabbix groups to perform measurement consolidations using a MOODLE GROUP template. This template provides predefined aggregations on most common indicators.

**Definition of the local interface interfacedef:** A method to inform Zabbix server on which network interface it will communicate with this server. Default : By DNS

Do tell it is started  
report\_zabbix | tellithasstarted

Default: Not started yet

When setting true, this explicitly tells this moodle instance has really started it's exploitation cycle. You may alternatively use an SQL query as heuristic for determining the started state. Explicit activation wins.

An SQL statement that tells it has started  
report\_zabbix | tellithasstartedsql

Default: Empty

If not empty, the result of this sql statement should give a \$result->started mark to 1 if it check is positive

Zabbix allowed cron period  
report\_zabbix | allowedcronperiod

Default: 60

Usually period of cron should be very short (1m). Some massive installs of Moodle may allow longer delays between crons.

**In operation tellithasstarted:** By activating this box, you inform Zabbix that this platform is a production environment. This is usefull when grouping moodles in a Moodle Group in Zabbix, so that effective production plaforms can be identified (vs. candidate instances, or preproduction instances).

You can alternatively define a finer heuristic using a SQL query to determine this state. Explicit activation (this parameter) prevails. Default: Waiting for operation

**SQL heuristic for exploitation tellithasstartedsql:** An SQL query delivering a result named "started" determines the production state of the operation. Default: Empty

**Zabbix allowed cron period:** This was recently added for some installations of Moodle using large Moodle arrays (f.e. using [Moodle Virtualization plugin](#)). In that case, we would need to slower down a bit the Zabbix frequency specially for the **instant task** to lower the data recolection technical impact on the installation (we used it f.e. on large array with 350 moodles aside)

Register in zabbix

Follow this link to register this site in Zabbix

**Registration in zabbix:** By using this form, and pursuant your Zabbix administrator remote user is created and has sufficient permissions, you can ask the Zabbix server to register the local host definition that matches this Moodle.

Once the settings are properly setup, save them once. then, go to the registration process clocking on the link. You will be routed to a confirmation screen:

**Zabbix server settings**

Zabbix server protocol	https
Zabbix server IP or servername	zabbix.activeprolearn.com
Moodle registered hostname in zabbix	moodle45-progressive.activeprolearn.com
Zabbix groups	MOODLE Instances,MOODLE Qualifs
Do tell it is started	0

Register in zabbix

Clicking on the confirmation button will send all the required information to Zabbix to initiate a new host configuration for your Moodle. Of course the administrator user needs to be correctly setup in Zabbix for the registration to work.

## PRO version

By entering activation keys obtained from your TMA provider, you will activate the plugin's additional features:

- Moodle Plugins local indicators (See our [plugin developer guide](#) for more details on how designing your specific indicators in your plugins).
- Zabbix discovery of Moodle dynamic environment (read the additional [guide for setting up discovery](#))
- [Moodle administrator defined custom measurements](#) (without coding)

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