



# Define custom measurements (Pro edition)

## Zabbix Report

### Overall Presentation

This extended feature allows Moodle administrator to add customized measurements to the sending stack without need of coding a new indicator class. It can be used to provide quickly a new value to Zabbix. the customized measurements are based on SQL queries as simple selects that returns a single "meas" output field.

The process to define a customized measurement is divided in two steps.

1. Define the custom measurement in moodle.
2. Go to your Zabbix server and add the appropriate item to the host definition that represents your moodle.

Related: <https://www.zabbix.com/documentation/current/en/manual/config/items/item>

Path: Site admin ⇒ reports ⇒ Custom Zabbix Measurements

### Creating the measurements

First go to the custom Zabbix Measurement screen.

Reports

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- Custom Zabbix measurements**
- Access to Zabbix Server (only for registered accounts)
- Accessibility toolkit
- Event monitoring rules
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Then fill the measurment definition form:

## Add custom measurement

Measurement name

Measurement key

Units

Active

Indicator SQL request (must get a single value in a SELECT, aliased to the fieldname "meas")

**Measurement name:** Visible name for the measurement. Zabbix report usually name the measurements in Zabbix as "MOODLE <TOPIC> <ITEM> [<SUBITEM>] (f.e MOODLE ASSIGN DAILY SUBMISSIONS), but you are free to give any name. It is recommended to choose the name you will also setup as Zabbix Item name in Zabbix.

**Measurement Key:** This is the name of the item key in Zabbix. We use a dotted namespace for measurements, such as f.e. moodle.assign.dailysubmissions. Custom measurements are recommended adopting the moodle.custom.<itemname> namespace, but once again, you are free to choose any token, pursuant the Zabbix Item's key matches.

**Active:** Custom measurements can be disabled at any time, and so will not be actualized if disabled.

**Indicator SQL Query:** Write a SQL query from moodle DB data. It must be a SELECT statement that returns a single value aliased to the field name meas.

Context

Context allowed instances

Context excluded instances

Capture rate

**Context:** (experimental). System context will send a unique value based on query.

**Context allowed instances:** If some context other than System Context is chosen, filling this field will only send indicator values for the listed instance ids. Give a comma separated list of DB ids of instances represented by the chosen context level. All instances are sent if empty.

**Context excluded instances:** If some context other than System Context is chosen, filling this field will exclude for sending values for the listed instance ids. Give a comma separated list of DB ids of instances represented by the chosen context level. All instances are sent if empty.

**Emission Rate:** Choose the emission task rate for this indicator.

## Setting up the item in Zabbix

In Zabbix, edit the host representing the Moodle instance. Add a new element matching the Measurement Key, Adjust the storage ranges if needed, and add this measurement or graphs using it in your dashboards.

## Checking the custom indicator works

You should have checked your SQL statement previously in your DB command line tool or your DB manager tool.

To check if the measurmeent works, and sends expected values:

1. Ensure your CLI path is setup in the Server settings
2. Go to **scheduled tasks board** in Moodle Server section
3. Run the appropriate Zabbix sending task
4. Check you can see the sending trace line in output.

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