

## 3 Triggers

### Overview

Triggers are logical expressions that “evaluate” data gathered by items and represent the current system state.

While items are used to gather system data, it is highly impractical to follow these data all the time waiting for a condition that is alarming or deserves attention. The job of “evaluating” data can be left to trigger expressions.

Trigger expressions allow to define a threshold of what state of data is “acceptable”. Therefore, should the incoming data surpass the acceptable state, a trigger is “fired” - or changes status to PROBLEM.

A trigger may have the following status:

VALUE	DESCRIPTION
OK	This is a normal trigger state. Called FALSE in older Zabbix versions.
PROBLEM	Normally means that something happened. For example, the processor load is too high. Called TRUE in older Zabbix versions.

Trigger status (the expression) is recalculated every time Zabbix server receives a new value that is part of the expression.

Triggers are evaluated based on [history](#) data only; trend data are never considered.

If time-based functions (**nodata()**, **date()**, **dayofmonth()**, **dayofweek()**, **time()**, **now()**) are used in the expression, the trigger is recalculated every 30 seconds by a Zabbix *history syncer* process. If both time-based and non-time-based functions are used in an expression, it is recalculated when a new value is received **and** every 30 seconds.

You can [build trigger expressions](#) with different degrees of complexity.

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