

1 Configuring a trigger

Overview

To configure a trigger, do the following:

- Go to: *Configuration* → *Hosts*
- Click on *Triggers* in the row of the host
- Click on *Create trigger* to the right (or on the trigger name to edit an existing trigger)
- Enter parameters of the trigger in the form

Configuration

The **Trigger** tab contains all the essential trigger attributes.

Trigger

Name

Expression

[Expression constructor](#)

Multiple PROBLEM events

generation

Description

URL

Severity

Enabled

Parameter	Description
Name	Trigger name. The name may contain the supported macros: {HOST.HOST}, {HOST.NAME}, {HOST.CONN}, {HOST.DNS}, {HOST.IP}, {ITEM.VALUE}, {ITEM.LASTVALUE} and {\$MACRO}. \$1, \$2...\$9 macros can be used to refer to the first, second...ninth constant of the expression. <i>Note:</i> \$1-\$9 macros will resolve correctly if referring to constants in relatively simple, straightforward expressions. For example, the name "Processor load above \$1 on {HOST.NAME}" will automatically change to "Processor load above 5 on New host" if the expression is {New host:system.cpu.load[percpu,avg1].last()}>5
Expression	Logical expression used for calculating the trigger state.
Multiple PROBLEM events generation	By checking this option you can set that an event is generated upon every 'Problem' evaluation of the trigger.
Description	Text field used to provide more information about this trigger. May contain instructions for fixing specific problem, contact detail of responsible staff, etc. <i>Starting with Zabbix 2.2</i> , the description may contain the same set of macros as trigger name.
URL	If not empty, the URL entered here is available as a link when clicking on the trigger name in <i>Monitoring</i> → <i>Triggers</i> . One macro may be used in the trigger URL field - {TRIGGER.ID}.
Severity	Set the required trigger severity by clicking the buttons.
Enabled	Unchecking this box will disable the trigger if required.

The **Dependencies** tab contains all the [dependencies](#) of the trigger.

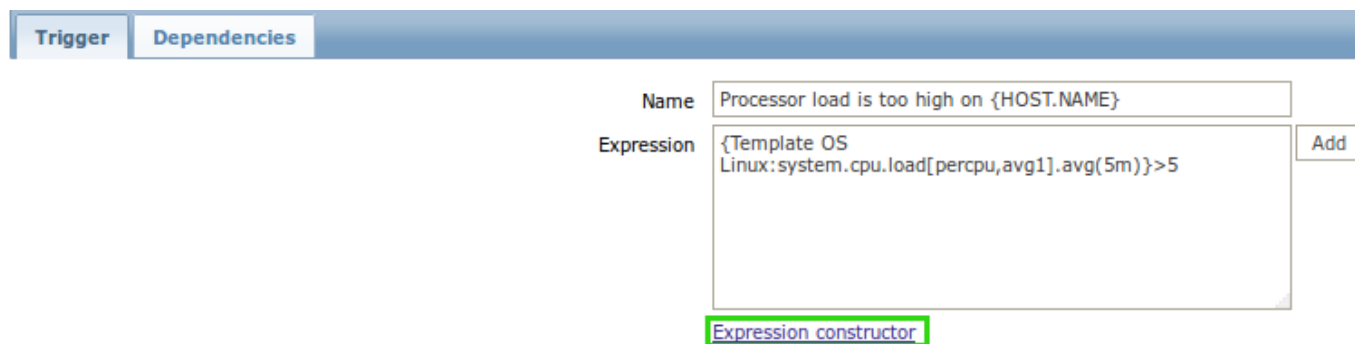
Click on *Add* to add a new dependency.

You can also configure a trigger by opening an existing one, pressing the *Clone* button and then saving under a different name.

Testing expressions

It is possible to test the configured trigger expression as to what the expression result would be depending on the received value.

To test the expression, click on *Expression constructor* under the expression field.



In the Expression constructor, all individual expressions are listed. To open the testing window, click on *Test* below the expression list.

Target	Expression	Error	Action
<input checked="" type="checkbox"/>	A {Template OS Linux:system.cpu.load[percpu,avg1].avg(5m)}>5	<input checked="" type="checkbox"/>	Delete

In the testing window you can enter sample values ("6" in this example) and then see the expression result, by clicking on the *Test* button.

Expression Variable Elements	Result type	Value
{Template OS Linux:system.cpu.load[percpu,avg1].avg(5m)}	Numeric (float)	6

Expression	Result
A {Template OS Linux:system.cpu.load[percpu,avg1].avg(5m)}>5	TRUE
A	TRUE

The result of the individual expressions as well as the whole expression can be seen.

"TRUE" result means the specified expression is correct. In that case current value exceeds the warning value and a Problem has occurred.

"FALSE" result means the specified expression is incorrect. Warning value hasn't been exceeded, respectively, Problem has not occurred.

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