

13 Trapper items

Overview

Trapper items accept incoming data instead of querying for it.

It is useful for any data you might want to “push” into Zabbix.

To use a trapper item you must:

- have a trapper item set up in Zabbix
- send in the data into Zabbix

Configuration

Item configuration

To configure a trapper item:

- Go to: *Configuration* → *Hosts*
- Click on *Items* in the row of the host
- Click on *Create item*
- Enter parameters of the item in the form

The screenshot shows the 'Item' configuration form in Zabbix. The fields are as follows:

- Name:** Trapper item
- Type:** Zabbix trapper (selected from a dropdown menu)
- Key:** trap (with a 'Select' button next to it)
- Type of information:** Text (selected from a dropdown menu)
- History storage period (in days):** 7
- Allowed hosts:** (empty text field)

The fields that require specific information for trapper items are:

<i>Type</i>	Select Zabbix trapper here.
<i>Key</i>	Enter a key that will be used to recognize the item when sending in data.
<i>Type of information</i>	Select the type of information that will correspond the format of data that will be sent in.
<i>Allowed hosts</i>	If specified, the trapper will accept incoming data only from this comma-delimited list of hosts. Hosts are identified by IP address/DNS name. For example: <i>Single IP:</i> 192.168.1.33 <i>List of IP addresses:</i> 192.168.56.5, 192.168.56.6, 192.168.56.7 <i>Single DNS name:</i> testzabbix.zabbix.com <i>List of DNS names:</i> testzabbix, testzabbix.zabbix.com, testzabbix1.zabbix.com Spaces and user macros are allowed in this field since Zabbix 2.2.0.

You may have to wait up to 60 seconds after saving the item until the server picks up the changes from a configuration cache update, before you can send in values.

Sending in data

In the simplest of cases, we may use [zabbix_sender](#) utility to send in some 'test value':

```
zabbix_sender -z <server IP address> -p 10051 -s "New host" -k trap -o "test value"
```

To send in the value we use these keys:

- z - to specify Zabbix server IP address
- p - to specify Zabbix server port number (10051 by default)
- s - to specify the host (make sure to use the 'technical' [host name](#) here, instead of the 'visible' name)
- k - to specify the key of the item we just defined
- o - to specify the actual value to send

Zabbix trapper process does not expand macros used in the item key in attempt to check corresponding item key existence for targeted host.

Display

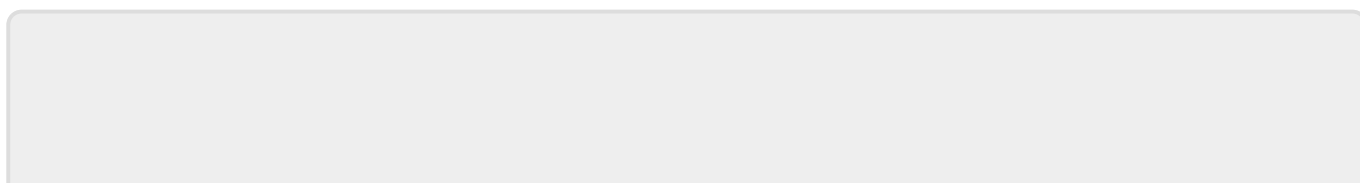
This is the result in *Monitoring* → *Latest data*:

Trapper item	2015-01-20 10:2...	test value	-	History
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Timestamps

If values are sent using `zabbix_sender` from a file with timestamps, then these timestamps will be adjusted to match server time. For instance, if an item's timestamp is "10:30:50", the current time on `zabbix_sender`'s machine is "10:40:03", and the current time on Zabbix server's machine is "10:40:05", then the item's value will be stored in the database with a timestamp of "10:30:52".

Similarly, if a value is first sent to Zabbix proxy, which later sends it to Zabbix server, the timestamp will be first adjusted to match Zabbix proxy time, and then it will be adjusted to match Zabbix server time.



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