

## 10 Queue

### Overview

The queue displays items that are waiting for a refresh. The queue is just a **logical** representation of data. There is no IPC queue or any other queue mechanism in Zabbix.

Items monitored by proxies are also included in the queue - they will be counted as queued for the proxy history data update period.

Only items with scheduled refresh times are displayed in the queue. This means that the following item types are excluded from the queue:

- log, logrt and event log active Zabbix agent items
- SNMP trap items
- trapper items
- web monitoring items

Statistics shown by the queue is a good indicator of the performance of Zabbix server.

The queue is retrieved directly from Zabbix server using JSON protocol. The information is available only if Zabbix server is running.

### Reading the queue

To read the queue, go to *Administration* → *Queue*. *Overview* should be selected in the dropdown to the right.

Items	5 seconds	10 seconds	30 seconds	1 minute	5 minutes	More than 10 minutes
Zabbix agent	0	1	0	0	1	0
Zabbix agent (active)	0	0	0	0	0	0
Simple check	0	0	0	0	0	0
SNMPv1 agent	0	0	0	0	0	0
SNMPv2 agent	0	0	0	0	0	0
SNMPv3 agent	0	0	0	0	0	0
Zabbix internal	0	0	0	0	0	0
Zabbix aggregate	0	0	0	0	0	0
External check	0	0	0	0	0	0
Database monitor	0	0	0	0	0	0
IPMI agent	0	0	0	0	0	0
SSH agent	0	0	0	0	0	0
TELNET agent	0	0	0	0	0	0
JMX agent	0	0	0	0	0	0
Calculated	0	0	0	0	0	0

The picture here is generally “green” so we may assume that the server is doing fine.

The queue shows one item waiting for 10 seconds and one for 5 minutes. Nice, it would be great to know what items these are.

To do just that, select *Details* in the dropdown in the upper right corner. Now you can see a list of those delayed items.

Next check	Delayed by	Host	Name
20 Jan 2012 10:44:07	7m 44s	Zabbix server	Version of zabbix_agent(d) running
20 Jan 2012 10:51:37	14s	Zabbix server	Ping to the server (TCP)

With these details provided it may be possible to find out why these items might be delayed.

With one or two delayed items there perhaps is no cause for alarm. They might get updated in a second. However, if you see a bunch of items getting delayed for too long, there might be a more serious problem.

Items	5 seconds	10 seconds	30 seconds	1 minute	5 minutes	More than 10 minutes
Zabbix agent	0	1	0	1	0	45
Zabbix agent (active)	0	0	0	0	0	0

Is the agent down?

### Delay for remote node items

Queue information from a child node is not up-to-date. The master node receives historical data with a certain delay (normally, up-to 10 seconds for inter-node data transfer), so the information is delayed.

The information from a child node also depends on:

- performance of the child node
- communications between master and child nodes
- possible local time difference between master and child nodes

### Queue item

A special internal item **zabbix[queue,<from>,<to>]** can be used to monitor the health of the queue in Zabbix. It will return the number of items delayed by the set amount of time. For more information see [Internal items](#).

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