

5 What's new in Zabbix 2.0.0

5.1 Major new features

5.1.1 Low level discovery

[Low level discovery documentation](#)

5.1.1.1 Network interface discovery

Network interface discovery support has been added for the following platforms:

- Linux
- Windows
- Solaris
- HP-UX
- AIX

5.1.1.2 Mounted filesystem discovery

Mounted filesystem discovery returns filesystem names along with their types.

Network interface discovery support has been added for the following platforms:

- Linux
- Windows
- Solaris
- HP-UX
- AIX
- FreeBSD
- OpenBSD
- NetBSD
- MacOS X

It is possible to filter by regular expression on the filesystem name or type.

5.1.2 Automatic inventory data collection

Host inventory now can be populated [automatically](#). Items have a property that allows to store their value in any of the inventory fields if inventory is set to *Automatic* mode.

5.1.3 WEB monitoring by Zabbix proxies

WEB scenarios could be monitored by remote proxies. It allows monitoring of WEB applications from

various geographical locations.

Also new items “*Last error message of scenario '\$1'*” with key `web.test.error[<a scenario name>]` will be added to all existing scenarios during database upgrade.

5.1.4 Multi-homed host support

Zabbix now supports multiple interfaces per host. You can configure several interface-host pairs in the host properties, and specify which should be used as the default for several item types (Zabbix agent, SNMP and IPMI). Additionally, you can override interface on the item level. When a template is linked to a host that has multiple interfaces defined, default interface for that type used (which currently is the first interface in the list). A single item can only be monitored on a single interface.

Interfaces that are used in any items can not be removed and link *Remove* is greyed out for them.

Together with the ability to use user macros in any of the port fields this should provide a flexible and powerful way to monitor multi-homed hosts.

For SNMP items, port on the item level, if specified, overrides the interface port.

Interface for an item can be selected in item properties. Both in item properties and item mass update form interfaces are grouped by their type.

5.1.5 Direct JMX monitoring support

Ability to monitor JMX without deploying additional software has been introduced in the form of a [Java gateway](#).

5.1.6 Visible host name

Visible host name has been implemented; UTF8 support; new macros (`{HOST.HOST}`, `{HOST.NAME}`, `{HOST.IP}`); `{IPADDRESS}`, `{HOSTNAME}` deprecated

5.1.7 SNMP trap monitoring

[SNMP trap item documentation](#).

5.2 Frontend improvements

5.2.1 A new look

Zabbix frontend has received a redesign. The login page, table view, configuration wizard, default trigger severity colours all have a fresh new look.

5.2.2 Reworked frontend

The frontend has been changed to be more user friendly, especially on smaller screens. Many pages that previously required horizontal scrolling now fit in the screen thanks to improved layout and tabbed interface.

The following pages have been redone:


- Host and template properties
 - Host properties now also include host navigation interface, making it easy to jump from host properties to editing items, triggers, graphs or other entities for that host (screenshots to compare 1.8 vs 2.0)
- Proxy properties
- Item properties
- Trigger properties
- Action properties
- Graph properties
 - Graph item reordering now isn't done by repeated clicks on *Up* and *Down* links. Instead, drag'n'drop reordering is possible.

5.2.3 Dropping IE6 support

Support for Microsoft Internet Explorer 6 will not be provided anymore. While we were at that, we also dropped IE7 support.






5.2.3.1 Outdated browser warning

If an outdated browser will be detected by Zabbix frontend, a warning page will be displayed. It will link to download pages for multiple more recent browsers. User would not be blocked from accessing Zabbix frontend, though - that would still be possible via the link in the lower right corner.



WARNING! You are using an outdated browser.

Zabbix frontend is built on advanced, modern technologies and does not support old browsers. It is highly recommended that you choose and install a modern browser. It is free of charge and only takes a couple of minutes.

				
Google Chrome Download page	Mozilla Firefox Download page	Internet Explorer Download page	Opera browser Download page	Apple Safari Download page

Why is it recommended to upgrade the web browser?

New browsers usually come with support for new technologies, increasing web page speed, better privacy settings and so on. They also resolve security and functional issues.

[Continue despite this warning »](#)

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5.2.4 SQLite supported by frontend

5.2.5 Improved frontend performance

Multiple sections of frontend have their performance improved, including:

- Dashboard performance has been improved for systems with lots of events.
- Network maps for non-superusers
- Screens for non-superusers
- IT services monitoring and configuration sections
- Availability report

5.2.6 New network map icons

For Zabbix 2.0, a completely new set of network icons is provided, and several new icons have been introduced.

<list of icons>

5.2.7 More intuitive range selecting

Previously, selecting a range of entities in Zabbix frontend was not very intuitive - one had to hold down Ctrl both for the range start and range end. Starting with 2.0, range selection works as in most

other software. One just clicks on a checkbox that should start range selection, then, holding down shift, clicks on the checkbox that should be the end for the range. It works the same way for selecting and unselecting (taking the choice from the very first click).

5.2.8 Customisable dashboard

Dashboard elements can now be arranged in a custom layout by dragging and dropping them in the desired location. They can be placed in up to 3 columns.

5.2.9 Translations managed by gettext

Frontend translations are now managed by gettext. This means that standard tools like [Pootle](#), [Poedit](#) or [Virtaal](#) can be used to translate Zabbix frontend. That should also allow working on smaller sections of the translation and improve collaboration possibilities.

5.2.10 Network map improvements

Network maps have received a couple of improvements regarding URL handling.

Multiple URLs for map elements

In previous Zabbix versions, it was possible to add single URL for each network map element. Now it is possible to add multiple, while also giving a label for each. This can be done on two levels:

- Map element level
- Map level

For example, here two URLs have been defined on the element (host) level:

Edit map element

Type:

Label:

Label location:

Host: [Select](#)

Icon (default):

Use advanced icons:

Coordinate X:

Coordinate Y:

Name	URL	
<input type="text" value="Wiki page"/>	<input type="text" value="http://wiki.internal/Riga"/>	Remove
<input type="text" value="Web management int"/>	<input type="text" value="http://10.10.10.10/manage"/>	Remove

[Add](#)

On the map level, URLs can be defined for all element types. Here, URL is defined for each available element type:

System map: "Eurasia-UTF8"

Name:

Width:

Height:

Background image:

Icon highlighting:

Mark elements on triggers status change:

Expand single problem:

Icon label type:

Icon label location:

Problem display:

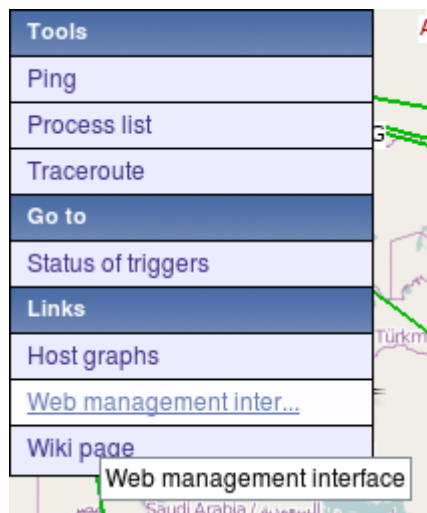
Name	URL	Element	
<input type="text" value="Group graphs"/>	<input type="text" value="charts.php?&hostid={"/>	<input type="text" value="Host group"/>	Remove
<input type="text" value="Host graphs"/>	<input type="text" value="charts.php?&hostid={"/>	<input type="text" value="Host"/>	Remove
<input type="text" value="Some link for all image"/>	<input type="text" value="http://wiki/about_imag"/>	<input type="text" value="Image"/>	Remove
<input type="text" value="Some link for all maps"/>	<input type="text" value="http://wiki/about_map"/>	<input type="text" value="Map"/>	Remove
<input type="text" value="Trigger events"/>	<input "="" type="text" value="events.php?triggerid="/>	<input type="text" value="Trigger"/>	Remove

[Add](#)

Of course, it is also possible to add multiple URLs for the same element type.

When these URLs have been configured, in the monitoring section clicking on a map element will list them (by name) in the popup menu. If the element has it's own URLs and there are map level URLs

for its type defined, they will be combined in the same menu:



From the already existing macros, in map URLs macro {TRIGGER.ID} can be used.

Additionally, 3 new macros have been added that also can be used in element URL fields:

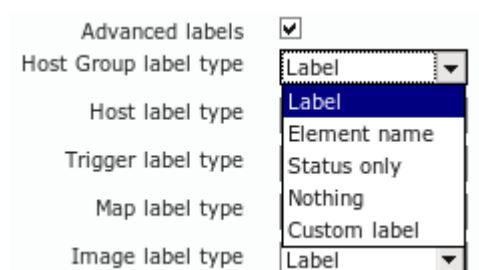
- {HOST.ID}
- {HOSTGROUP.ID}
- {MAP.ID}

Grid selection saving

In previous versions, map grid options like whether to display grid or align to it were discarded after the map configuration form was closed. Starting with 2.0.0, selected grid options are saved for each map individually.

Setting label type per map element type

In previous versions, one could select map label type for all map elements in the map. Starting with 2.0.0, it is possible to enable *Advanced labels* feature per map and choose map element label per element type - image, trigger, host, host group and map.



Displaying hosts from a host group

For host group element, it is now possible to specify that it should display all hosts in a group. In that case, area can be specified where hosts will be placed.

Icon mapping

Automatic icon selection for host type map elements has been added. It utilises values from host inventory fields to select icon for map elements.

Icon maps are configured in *Administration* → *General* → *Icon maps*. Each icon map has a unique name, default icon and a list of mappings. Each mapping has a match order, expression for matching (PCRE regular expression or Zabbix expression), icon and reference to an inventory field. Icon map can be assigned to a map in the map configuration form, and overridden on map element level.

When deciding on which icon should be used, regular expression will be matched against specified inventory field. Order in which mappings are tried depends on match order.

Select elements by dragging

You can now drag a rectangle in map configuration view and select all elements in it.

Highlighting selected link

Selected map link now is highlighted in the list of links.

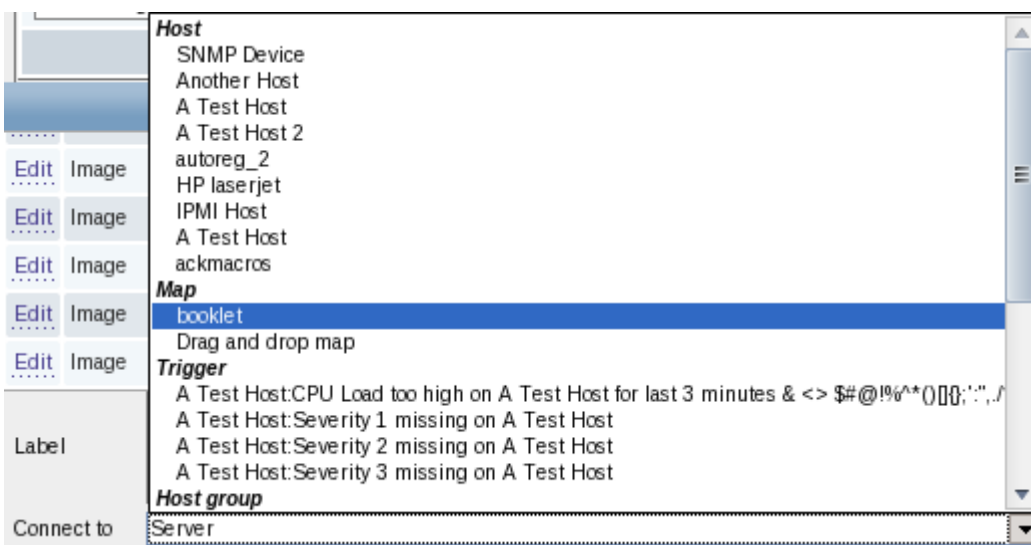
Changed element highlighting

Instead of filled rectangle, to indicate selection elements are now highlighted with a thick rectangular border.

Element properties window changes

Map element properties window has received multiple modifications.

- Links are only shown when one element is selected
- List of selected elements is displayed above properties themselves (was displayed below before)
- When editing multiple elements, properties that are not marked for updating using the checkbox on the left hand side are not editable
- Only one endpoint of a link may be changed when editing a link. Endpoint that is currently selected can not be changed in this view anymore. Additionally, endpoints are sorted by type in the dropdown



5.2.11 Customisable trigger severity names and colours

Trigger severity names and colours can now be easily customised in *Administration* → *General* → *Trigger severities*.

5.2.12 Customisable problem displaying

The way triggers are displayed in the frontend can now be customised in *Administration* → *General* → *Trigger displaying options*. That includes both OK/PROBLEM and acknowledged/not acknowledged.

Additionally, time for how long OK triggers are shown after changing state and for how long trigger is blinking after changing state can now be configured in the frontend, instead of modifying include/defines.inc.php file.

5.2.13 Inventory report

Ability to report on hosts by their gathered inventory data has been added to *Monitoring* → *Inventory* view.

5.2.14 Event export to CSV

Events from *Monitoring* → *Events* page can now be exported to a CSV file by using a button in the upper right corner.

Displaying 1 to 7 of 7 found Export to CSV

Filter

Time	Host	Description	Status	Severity	Duration	Actions
24 Jan 2011 18:28:19	A Test Host	Apache error "1"	PROBLEM	Not classified	19h 24m 31s	-
24 Jan 2011 18:11:18	A Test Host	Apache error "1"	PROBLEM	Not classified	17m 1s	-
24 Jan 2011 15:18:35	A Test Host	Apache error "1"	PROBLEM	Not classified	2h 52m 43s	-
23 Jan 2011 21:25:27	A Test Host	Apache error "1"	PROBLEM	Not classified	17h 53m 8s	-
20 Jan 2011 22:59:13	A Test Host	Apache error "1"	PROBLEM	Not classified	2d 22h 26m	-
20 Jan 2011 19:29:06	A Test Host	Apache error "1"	PROBLEM	Not classified	3h 30m 7s	-
20 Jan 2011 15:40:17	A Test Host	Apache error "1"	PROBLEM	Not classified	3h 48m 49s	-

Zabbix 1.9.2 Copyright 2001-2010 by SIA Zabbix | Connected as 'Admin'

Only currently visible events are exported.

5.2.15 User executable script improvements

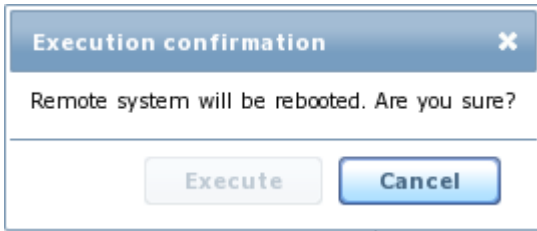
Confirmation for user executable scripts

User scripts that can be configured on the frontend in *Administration* → *Scripts* can now display a confirmation message before being executed. A custom message confirmation message can be entered by the administrator. This feature should be especially useful with potentially dangerous operations (like a reboot script) or ones that might take a long time.

Enable confirmation

Confirmation text

Confirmation can be tested in the configuration form. In that case, *Execute* button is disabled.



Ability to specify script type

Before, if a user script would have to be an IPMI command, it had to follow a syntax of *IPMI <command>*. Starting with Zabbix 2.0, it is an option in the script editing form.

Type

- IPMI
- Script

Ability to execute scripts on Zabbix agent

Before Zabbix 2.0, user scripts could be executed on the Zabbix server only. Starting with 2.0, a script can be configured to be executed on the agent instead. For this feature to work, agent must be [configured to allow remote commands](#).

Execute on

Zabbix agent

Zabbix server

5.2.16 Media type improvements

Displaying of actions that use media types

In media type configuration screen it's now possible to view and access actions that directly refer to this media type (it's selected in the *Send only to* dropdown). When sorting by that column, entries are only sorted by whether they are referenced, actions referencing media types do not influence the sort order. It is possible to go directly to action configuration from this page as well.

MEDIA TYPES				
Displaying 1 to 5 of 5 found				
<input type="checkbox"/>	Description	Type	Used in actions ↓ ↑	Details
<input type="checkbox"/>	SMS	SMS	-	GSM modem: "/dev/ttyS0"
<input type="checkbox"/>	ccc	Email	action_no_user , integrity	SMTP server: "localhost", SMTP helo: "localhost", SMTP email: "zabbix@localhost"
<input type="checkbox"/>	Jabber	Jabber	a	Jabber identifier: "jabber@company.com"
<input type="checkbox"/>	Email	Email	some action , Test Action	SMTP server: "mail.zabbix.com", SMTP helo: "zabbix.com", SMTP email: "zabbix@company.com"
<input type="checkbox"/>	Test_Script	Script	SNMP Action	Script name: "testscript"

Enabling and disabling media types

5.2.16.1 Disabling graph legend

For graphs with many items added, legend could grow pretty huge, and there might be other reasons why somebody might want to hide the legend. Starting with Zabbix 2.0.0, that is possible for custom graphs with a simple checkbox:

The screenshot shows the configuration window for a graph titled "Stacked network traffic". The configuration includes:

- Name: Stacked network traffic
- Width: 490
- Height: 100
- Graph type: Stacked
- Show legend: (unchecked)
- Show working time: (checked)
- Show triggers: (checked)
- Y axis MIN value: Calculated
- Y axis MAX value: Calculated

Below the configuration, there is a table of items:

<input type="checkbox"/>	A Test Host: Outgoing traffic on interface eth0	avg	Simple	Left	Filled region	<input type="checkbox"/>	Down
<input type="checkbox"/>	A Test Host: Incoming traffic on interface eth0	avg	Simple	Left	Filled region	<input checked="" type="checkbox"/>	Up

Buttons at the bottom include "Add", "Delete selected", "Preview", "Save", "Clone", "Delete", and "Cancel".

Below the configuration is a preview of the graph titled "Stacked network traffic (1h)". The Y-axis represents traffic in KBps, ranging from 0 to 78.13 KBps. The X-axis shows time from 11:57 to 12:56. The graph displays two stacked series: outgoing traffic (blue) and incoming traffic (green). A significant spike in incoming traffic is visible around 12:46. The text "Data from history. Generated in 0.15 sec" is at the bottom right of the graph area.

5.2.17 Improved popup placement

Popups with additional information that appear on mouse roll-over are designed to better fit within smaller screens, such as in mobile devices.

5.2.18 Improved IT services view and configuration

monitoring - shows 80-100% upon mouseover (and a tooltip), reordered sla values, aligned by decimal point, removed graph "show" link (now it's on the bar, link to report is on the service name), expected sla shown in black not green, more...

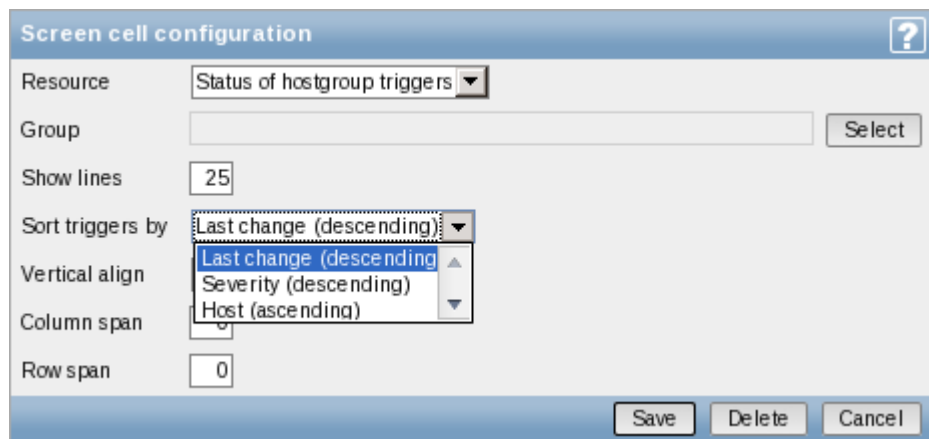
multiple service dependencies can be selected now

5.2.19 Templated host screens

Screens can be defined in templates. They are available for all hosts that are linked to the template. They can be accessed from the host popup menu everywhere, and from the search results.

5.2.20 Ability to sort triggers in screens

Triggers element (by host or by host group) in screens now can be sorted by severity, host or date.



<https://support.zabbix.com/browse/ZBXNEXT-746>

In the monitoring section, this sorting can only be viewed but not changed. Additionally, in the monitoring section this element shows how many triggers are visible, if not all of them can be shown.

5.2.21 Warning when a too large file is attempted to be uploaded

Previously it was not easy to debug why some upload failed if it exceeded PHP option `max_upload_filesize` limit. Now Zabbix shows a warning when uploading a too large XML or image file.

5.2.22 Improved configuration wizard

For configuration wizard requirements step, *Recommended* column was removed, as it did not serve any real purpose. Additionally, for failed PHP configuration requirements exact configuration parameters are now listed in the error messages.

Better text, visuals, removed 2nd and 8th steps

5.2.23 Trigger config helper

Trigger configuration helper does not allow setting parameter in seconds for trigger function `last()` anymore

5.2.24 Improved search results page

In the search results page, individual blocks have been placed below each other. They can also be collapsed and expanded now.

5.2.25 Host popup menu added to more pages

Host popup menu has been added to the *Monitoring → Events*, "Event details", and *Monitoring → Overview* pages. In *Monitoring → Overview* this menu is available only when hosts are displayed on the left hand side.

5.2.26 New option "Expand macros" for maps configuration screen

In 2.0 macros expanding is turned off by default and new option is introduced for map configuration screen that allows to enable or disable it. Maps that utilize a lot of macros should benefit greatly from turning macro expanding off performance wise.

5.2.27 Improved debug layout

In the frontend debug functionality, SQL query formatting has been improved for better readability.

5.2.28 Allow deleting trigger dependencies during mass update

If no trigger dependencies are added and their controlling checkbox is marked in the trigger mass update, all dependencies for selected triggers will be removed now.

5.2.29 New and updated translations

5.2.29.1 New translations

- Turkish

5.2.29.2 Updated translations

- Czech
- Dutch
- French
- Greek
- German
- Japanese
- Latvian
- Polish

- Ukrainian
- Russian
- Spanish

5.3 New and improved items

5.3.1 Item descriptions added

...and 'description' is now 'name'

Added {ITEM.DESCRPTION} and {ITEM.KEY} macros.

5.3.2 Improved items

system.localtime key now supports parameters:

- `utc` (default) - returns Unix timestamp like before;
- `local` - returns time in the 'yyyy-mm-dd,hh:mm:ss.nn,+hh:mm' format

net.tcp.dns and **net.tcp.dns.query** have been renamed to **net.dns** and **net.dns.record**, respectively. Old syntax still supported as an alias. They are also now supported on Windows.

Additional functionality:

- IP as the first parameter is not ignored anymore, thus it is possible to specify different DNS server than localhost
- Both items gained ability to specify timeout and retry count (not supported on Windows)
- **net.dns** gained support for specifying DNS record type like *A*, *CNAME* and *MX* (**net.dns.record** already supported that). See [item documentation](#) for more information

net.tcp.service and **net.tcp.service.perf** now support https and telnet.

system.cpu.util on Solaris was unified with other platforms - *kernel* parameter was changed to *system* and *wait* parameter was changed to *iowait*.

system.cpu.num is now supported for OSX

system.cpu.load now accepts *percpu* as the first parameter - if specified, total load divided by online CPU count is returned (default is still *all* and returns normal load value)

vm.memory.size now supports more modes for various platforms. See [supported by platform](#) and [vm.memory.size parameters](#) pages for more information.

5.3.2.1 Skipping older data in log monitoring

added optional suppressing of processing of older data in `log[]`, `logrt[]` and `eventlog[]`

additional parameter **mode** controls this:

- all (default)
- skip (skipping processing of older data)

5.3.2.2 Simple check format changed

The format of [simple checks](#) has been changed. The possibility of using IP addresses in simple checks has been added. The upgrade process converts all existing simple checks.

5.3.2.3 Ability to send empty strings

User parameters, external checks and other item types that return text (character, log, text types of information) now may send an empty string which will be accepted as a valid value. Before this, an empty value returned by an user parameter or external check would be treated as an unsupported item, and ignored for other item types by the Zabbix server.

5.3.2.4 External check parameter changes

[External check](#) parameter handling was changed. Previously, only one parameter was accepted. Starting with Zabbix 2.0, the key syntax conforms to other types of items and multiple comma-separated parameters may be passed.

Additionally, the hardcoded first parameter {HOST.CONN} for external checks has been removed and now external check parameters may be fully customised. Upgrade process adds this macro as a first parameter to all existing external checks.

5.3.2.5 Multi-line value support for external checks

Multi-line values can now be stored for the output of external scripts.

5.3.2.6 Time postfix support in aggregate items

Aggregate items now support time postfixes.

5.3.3 New items

- **vfs.file.contents[]** allows to retrieve full file contents with each check (limited to 64KB, will turn unsupported if file is bigger)

Items that are especially useful for automated inventory data collection:

- system.hw.chassis[full|type|vendor|model|serial] - default is [full], root permissions needed
- system.hw.cpu[all|cpunum,full|maxfreq|vendor|model|curfreq] - default is [all,full]
- system.hw.devices[pci|usb] - default is [pci]
- system.hw.macaddr[interface,short|full] - default is [all,full], interface is regex

- system.sw.arch
- system.sw.os[name|short|full] - default is [name]
- system.sw.packages[package,manager,short|full] - default is [all,all,full], package is regex

A **status** item has been removed as it was not easy to use and understand. Instead, a new [internal item](#) - **zabbix[host,<type>,available]** has been added. It allows to properly monitor host availability by each of states - Zabbix agent, SNMP, IPMI, JMX - and returns values for available, unavailable and unknown. The database upgrade process **doesn't convert** all existing 'status' keys and associated triggers to the new syntax, so they have to be converted manually.

5.4 Daemon performance improvements

5.4.1 Improved housekeeper performance on PostgreSQL

5.4.2 Caching of general configuration

Multiple general configuration parameters that previously were only read upon server startup are now also stored in the configuration cache. They are updated together with common configuration cache update.

- *Refresh unsupported items*
- *Discovery group*
- Custom severity names
- For how long alerts are stored
- For how long events are stored

Refresh unsupported items is now also synchronised to the Zabbix proxy.

5.4.3 Trigger cache

Trigger cache has been introduced. Currently it holds the following information about triggers:

- description
- expression
- error
- severity
- type
- value
- value_flags

Trigger cache is part of the configuration cache and is updated the same way and at the same time as other parts of it. Note that upgrading to 2.0.0 may increase configuration cache usage, especially if Zabbix instance has lots of triggers.

This should improve trigger related operation performance and reduce the load on the database.

5.4.4 User macro caching improvements

In Zabbix 1.8, individual daemon processes (for example, pollers) cache user macros and update this information every 5 minutes. In Zabbix 2.0, user macros are included in the general configuration cache and updated every **CacheUpdateFrequency** seconds.

5.4.5 Improved history (DB) syncer and escalator performance

The amount of work history syncer and escalator processes have to do for escalations has been reduced, which resulted in improved performance when processing large amount of events.

5.5 Other improvements

5.5.1 Nanosecond support

5.5.2 Database integrity

5.5.2.1 Database creation

Order of [database file import](#) has been changed - images must be imported before **data.sql** now.

5.5.3 Improved active agent auto-registration

Active agent auto-registration now supports monitoring added hosts with passive checks. When active agent asks for checks, if it has configuration parameters ListenIP or ListenPort defined in the configuration file, these are sent along to the server. If multiple IP addresses are specified, the first one is sent to the server.

Server, when adding a new auto-registered host, uses received IP address and port to configure the agent. If no port value is received, 10050 is used. If no IP address value is received, the one used for incoming connection is used.

For active agent auto-registration notifications there are also two new macros supported:

- {HOST.IP} (or its deprecated version {IPADDRESS})
- {HOST.PORT}

5.5.4 Automatic filling of DNS names

For network discovery and active agent autoregistration, host DNS entry is now populated by doing a reverse lookup from Zabbix server or Zabbix proxy, if discovery is performed by a proxy.

5.5.5 Event redesign

The way Zabbix handles unknown events has been redesigned. Before, in *Monitoring → Events* section, if event flow was OK → UNKNOWN → OK, hiding unknown events would display two successive OK events. Starting with 2.0.0, only the oldest OK event would be display in such a case. An exception is triggers with “Multiple PROBLEM events” - for these, multiple successive events would be always shown.

(should document how acknowledges work from server & frontend side)

Trigger status UNKNOWN has been removed - triggers will always be in OK or PROBLEM state, although they might get additional unknown status. This status will only be used for informational purposes.

5.5.6 Supported macro changes

5.5.6.1 Common macros

In interface IP and DNS fields the following macros are supported:

- {HOST.HOST} (or its deprecated version {HOSTNAME})
- {HOST.NAME}
- {HOST.CONN}
- {HOST.DNS}
- {HOST.IP} (or its deprecated version {IPADDRESS})

In trigger names, additional following macros are supported:

- {HOST.HOST} (or its deprecated version {HOSTNAME})
- {HOST.NAME}
- {HOST.CONN}
- {HOST.DNS}
- {HOST.IP} (or its deprecated version {IPADDRESS})

5.5.6.2 User macro support

For 2.0, user macros can now be used in these additional locations:

- Hosts:
 - Interface IP/DNS
 - Interface port
- Passive proxy
 - Interface port
- Items
 - SNMPv3 security name
 - SNMPv3 auth pass
 - SNMPv3 priv pass
 - SNMPv1/v2 community
 - SNMPv1/v2 OID

- DB monitor additional parameters
 - SSH username
 - SSH public key
 - SSH private key
 - SSH password
 - SSH script
 - Telnet username
 - Telnet password
 - Telnet script
 - Calculated item expression
- Discovery
 - SNMPv3 security name
 - SNMPv3 auth pass
 - SNMPv3 priv pass
 - SNMPv1/v2 community
 - SNMPv1/v2 OID

Additionally, macro **{TRIGGER.KEY<1-9>}** has been renamed to **{ITEM.KEY<1-9>}**.

5.5.7 Boolean item type

New item type has been added - boolean. It translates textual representation into either 0 or 1. All values are matched in a case-insensitive way. **TRUE** is stored as **1** and **FALSE** is stored as **0**. Currently recognised values are:

TRUE	FALSE
true	false
t	f
yes	no
y	n
up	down
running	unused
enabled	disabled
available	unavailable

Additionally, any non-zero numeric value is considered to be **TRUE** and zero is considered to be **FALSE**.

5.5.8 API access changes

User group access property “API access” has been removed. Starting with Zabbix 2.0, all users have full access to the API.

5.5.9 Unified time format

In previous versions of Zabbix, specifying time till midnight differed depending on the location - in

some locations it was "23:59", in others - "24:00". Starting with Zabbix 2.0 this has been unified so midnight is always specified as "24:00".

5.5.10 "Host profiles" renamed to "host inventory" and merged

Before, Zabbix hosts had "normal" and "extended" profile. In Zabbix 2.0 both profiles were merged into single "host inventory".

5.5.11 Escalations enabled by default

Starting with Zabbix 2.0, escalations are always enabled and can not be disabled. By default a condition "Trigger value = PROBLEM" is added to new actions, so only problem notifications are sent. This makes recovery message checkbox operate in a more intuitive way. This action condition can be removed by the user.

5.5.12 Remote command improvements

Specify IPMI as a type instead of obscure syntax

Execute custom global scripts

Execute SSH and telnet commands

For custom scripts, ability to execute on the Zabbix server or agent was added

5.5.13 Changed default locations

5.5.13.1 Configuration files location

Before 2.0 this was hard-coded to `/etc/zabbix` . Since 2.0 the default changed to `/usr/local/etc` and depends on compile-time installation variable `sysconfdir` (which was ignored before Zabbix 2.0).

5.5.13.2 External scripts location

Before 2.0 the default location for external scripts was `/etc/zabbix/externalscripts` . Since 2.0 this changed to `/usr/local/share/zabbix/externalscripts` and depends on compile-time installation variable `datadir`. This location can be changed using configuration parameter `ExternalScripts` (server and proxy).

5.5.13.3 Alert scripts location

Before 2.0 the default location for alert scripts that are used for actions was `/home/zabbix/bin` . Since

2.0 this changed to `/usr/local/share/zabbix/alertscripts` and depends on compile-time installation variable `datadir`. This location can be changed using configuration parameter `AlertScriptsPath` (server).

5.5.14 Configuration files and directories added during installation

If you are using a packaged version of Zabbix the following information can be irrelevant because the locations might depend on a distribution policy.

When installing Zabbix the following configuration files are created if missing:

- `/usr/local/etc/zabbix_server.conf`
- `/usr/local/etc/zabbix_proxy.conf`
- `/usr/local/etc/zabbix_agent.conf`
- `/usr/local/etc/zabbix_agentd.conf`

`/usr/local/etc` is default value of compile-time installation variable `sysconfdir`.

The following directories are created for includes:

- `/usr/local/etc/zabbix_server.conf.d`
- `/usr/local/etc/zabbix_proxy.conf.d`
- `/usr/local/etc/zabbix_agent.conf.d`
- `/usr/local/etc/zabbix_agentd.conf.d`

These directories are not automatically handled as "Include" directories, you would have to set them in appropriate configuration file.

The following directory is created when installing server or proxy:

- `/usr/local/share/zabbix/externalscripts`

The following directory is created when installing server:

- `/usr/local/share/zabbix/alertscripts`

`/usr/local/share` is default value of compile-time installation variable `datadir`.

5.5.15 Unsupported item information sent by proxies

Information about unsupported items is now passed from Zabbix proxies to the server.

5.5.16 Simplified ServerActive logic

Zabbix agent daemon parameter **ServerActive** has been simplified. Instead of overriding **Server** parameter, **ServerActive** now is the only parameter that's used for active checks. Additionally, **ServerPort** parameter has been removed - host ports now should be specified in the **ServerActive** parameter.

See the "[See also](#)" section at the bottom of this page to read more details about these changes.

5.5.17 Simplified Zabbix agent daemon configuration

Zabbix agent daemon configuration has been simplified by removing **DisableActive** and **DisablePassive** parameters. Instead, not specifying **ServerActive** will not do any active item processing, and specifying **StartAgents=0** will disable processing of incoming connections for passive items.

5.5.18 Monitoring of files larger than 2GB

While Zabbix did offer monitoring of files larger than 2GB before, this support was not consistent - it varied by platform and by item. Since 2.0, support for files exceeding 2GB is available also on 32-bit systems in all components, including tasks like logfile monitoring, file size monitoring etc. See [large file support](#) section for more information.

See also

1. [Differences in the Zabbix agent configuration for active and passive checks starting from version 2.0.0](#)

From:
<https://www.zabbix.com/documentation/2.0/> - **Zabbix Documentation 2.0**

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Last update: **2014/09/25 15:20**

