

1 Configuring a network map

Overview

Configuring a map in Zabbix requires that you first create a map by defining its general parameters and then you start filling the actual map with elements and their links.

You can populate the map with elements that are a host, a host group, a trigger, an image or another map.

Icons are used to represent map elements. You can define the information that will be displayed with the icons and set that recent problems are displayed in a special way. You can link the icons and define information to be displayed on the links.

Maps that are ready can be viewed in *Monitoring* → [Maps](#). In the monitoring view you can click on the icons and take advantage of the links to some scripts and URLs.

You can add custom URLs to be accessible by clicking on the icons. Thus you may link a host icon to host properties or a map icon to another map.

Creating a map

To create a map, do the following:

- Go to *Configuration* → *Maps*
- Click on *Create map*
- Edit general map attributes

General map attributes:

Parameter	Description
<i>Name</i>	Unique map name.
<i>Width</i>	Map width in pixels.
<i>Height</i>	Map height in pixels.
<i>Background image</i>	Use background image: No image - no background image (white background) Image - selected image to be used as a background image. No scaling is performed. You may use a geographical map or any other image to enhance your map.
<i>Automatic icon mapping</i>	You can set to use an automatic icon mapping, configured in <i>Administration</i> → <i>General</i> → <i>Icon mapping</i> . Icon mapping allows to map certain icons against certain host inventory fields.
<i>Icon highlighting</i>	If you check this box, icons will receive highlighting. Elements with an active trigger will receive a round background, in the same colour as the highest severity trigger. Moreover, a thick green line will be displayed around the circle, if all problems are acknowledged. Elements with “disabled” or “in maintenance” status will get a square background, gray and orange respectively.

Parameter	Description
<i>Mark elements on trigger status change</i>	A recent change of trigger status (recent problem or resolution) will be highlighted with markers (inward-pointing red triangles) on the three sides of the element icon that are free of the label. Markers are displayed for 30 minutes.
<i>Expand single problem</i>	If a map element (host, host group or another map) has one single problem, this option controls whether the problem (trigger) name is displayed, or problem count. If marked, problem name is used.
<i>Advanced labels</i>	If you check this box you will be able to define separate label types for separate element types.
<i>Icon label type</i>	Label type used for icons: Label - icon label IP address - IP address Element name - element name (for example, host name) Status only - status only (OK or PROBLEM) Nothing - no labels are displayed
<i>Icon label location</i>	Label location in relation to the icon: Bottom - beneath the icon Left - to the left Right - to the right Top - above the icon
<i>Problem display</i>	Display problem count as: All - full problem count will be displayed Separated - unacknowledged problem count will be displayed separated as a number of the total problem count Unacknowledged only - only the unacknowledged problem count will be displayed
<i>Minimum trigger severity</i>	Problems below the selected minimum severity level will not be displayed in the map. For example, with <i>Warning</i> selected, changes with <i>Information</i> and <i>Not classified</i> level triggers will not be reflected in the map. This parameter is supported starting with Zabbix 2.2.
<i>URLs</i>	URLs for each element type can be defined (with a label). These will be displayed as links when a user clicks on the element in the monitoring section. Macros that can be used in map URLs: {MAP.ID}, {HOSTGROUP.ID}, {HOST.ID}, {TRIGGER.ID}

When you click on *Add* to save this, you have created an empty map with a name, dimensions and certain preferences. Now you need to add some elements. For that, click on *Edit* in the map list to open the editable area.

Adding elements

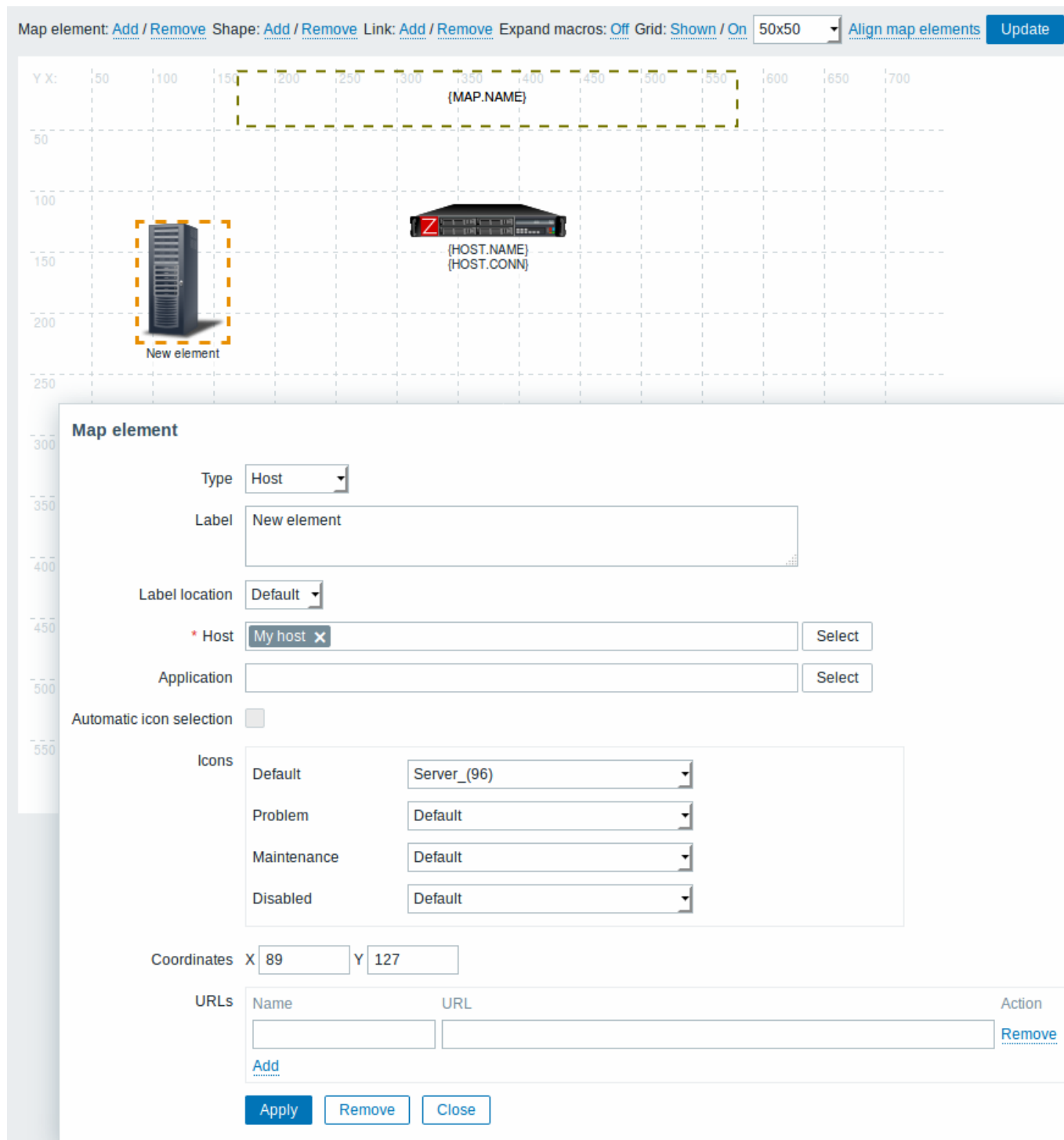
To add an element, click on *Add* next to *Icon*. The new element will appear at the top left corner of the map. Drag and drop it wherever you like.

Note that with the *Grid* option "On", elements will always align to the grid (you can pick various grid sizes from the dropdown, also hide/show the grid). If you want to put elements anywhere without alignment, turn the option to "Off". (Random elements can later again be aligned to the grid with the *Align icons* button.)

Now that you have some elements in place, you may want to start differentiating them by giving

names etc. By clicking on the element, a form is displayed and you can set the element type, give a name, choose a different icon etc.

Map element: [Add / Remove](#) Shape: [Add / Remove](#) Link: [Add / Remove](#) Expand macros: [Off](#) Grid: [Shown / On](#) 50x50 [Align map elements](#) [Update](#)



The screenshot shows the Zabbix map editor interface. At the top, there are navigation links: "Map element: Add / Remove", "Shape: Add / Remove", "Link: Add / Remove", "Expand macros: Off", "Grid: Shown / On", a "50x50" dropdown menu, "Align map elements", and an "Update" button. Below this is a grid with X and Y coordinates ranging from 50 to 700. A dashed yellow box highlights a new element being added at coordinates (89, 127). The element is labeled "New element". Another element, a server icon, is already on the map with labels "{MAP.NAME}" and "{HOST.NAME} {HOST.CONN}".

Map element

Type:

Label:

Label location:

* Host: [Select](#)

Application: [Select](#)

Automatic icon selection:

Icons:

Default	<input type="text" value="Server_(96)"/>
Problem	<input type="text" value="Default"/>
Maintenance	<input type="text" value="Default"/>
Disabled	<input type="text" value="Default"/>

Coordinates X: Y:

URLs:

Name	URL	Action
<input type="text"/>	<input type="text"/>	Remove

[Add](#)

[Apply](#) [Remove](#) [Close](#)

Map element attributes:

Parameter	Description
<i>Type</i>	Type of the element: Host - icon representing status of all triggers of the selected host Map - icon representing status of all elements of a map Trigger - icon representing status of a single trigger Host group - icon representing status of all triggers of all hosts belonging to the selected group Image - an icon, not linked to any resource
<i>Label</i>	Icon label, any string. Macros and multi-line strings can be used in labels.
<i>Label location</i>	Label location in relation to the icon: Default - map's default label location Bottom - beneath the icon Left - to the left Right - to the right Top - above the icon
<i>Host</i>	Enter the host, if the element type is 'Host'. This field is auto-complete so starting to type the name of a host will offer a dropdown of matching hosts. Scroll down to select. Click on 'x' to remove the selected.
<i>Map</i>	Select the map, if the element type is 'Map'.
<i>Trigger</i>	Select the trigger, if the element type is 'Trigger'.
<i>Host group</i>	Enter the host group, if the element type is 'Host group'. This field is auto-complete so starting to type the name of a group will offer a dropdown of matching groups. Scroll down to select. Click on 'x' to remove the selected.
<i>Application</i>	You can select an application, allowing to only display problems of triggers that belong to the given application. This field is available for host and host group element types, and supported since Zabbix 2.4.0 .
<i>Icon (default)</i>	Icon to be used.
<i>Automatic icon selection</i>	In this case an icon mapping will be used to determine which icon to display.
<i>Icons</i>	You can choose to display different icons for the element in these cases: default, problem, maintenance, disabled.
<i>Coordinate X</i>	X coordinate of the map element.
<i>Coordinate Y</i>	Y coordinate of the map element.
<i>URLs</i>	Element-specific URLs can be set for the element. These will be displayed as links when a user clicks on the element in the monitoring section. If the element has its own URLs and there are map level URLs for its type defined, they will be combined in the same menu. Macro that can be used in map URLs: {MAP.ID}, {HOSTGROUP.ID}, {HOST.ID}, {TRIGGER.ID}

Added elements are not automatically saved. If you navigate away from the page, all changes may be lost.

Therefore it is a good idea to click on the **Update** button in the top right corner. Once clicked, the changes are saved regardless of what you choose in the following popup.

Selected grid options are also saved with each map.

Selecting elements

To select elements, select one and then hold down *Ctrl* to select the others.

You can also select multiple elements by dragging a rectangle in the editable area and selecting all elements in it (option available since Zabbix 2.0).

Once you select more than one element, the element property form shifts to the mass-update mode so you can change attributes of selected elements in one go. To do so, mark the attribute using the checkbox and enter a new value for it. You may use macros here (such as, say, {HOST.NAME} for the element label).

The screenshot shows the Zabbix map editor interface. At the top, there are navigation links: "Map element: Add / Remove", "Shape: Add / Remove", "Link: Add / Remove", "Expand macros: Off", "Grid: Shown / On", a "50x50" size selector, "Align map elements", and an "Update" button. The main map area has a grid with X and Y coordinates from 50 to 700. A dashed green rectangle highlights a region from X=150 to X=550 and Y=50 to Y=150. Inside this region, two server icons are selected with orange dashed boxes. One icon is labeled "New element" and the other is labeled with macros: "(HOST.NAME)" and "(HOST.CONN)".

Below the map, a "Mass update elements" dialog box is open. It contains the following fields and controls:

- Selected elements:** A table with two rows:

Type	Name
Host	My host
Host	vcenter.zabbix.lan
- Label:** A text input field containing "{HOST.NAME}" and "{HOST.CONN}" on two lines.
- Label location:** A dropdown menu set to "Top".
- Automatic icon selection:** An unchecked checkbox.
- Icon (default):** A dropdown menu set to "Cloud_(24)".
- Icon (problem):** A dropdown menu set to "Default".
- Icon (maintenance):** A dropdown menu set to "Default".
- Icon (disabled):** A dropdown menu set to "Default".
- Buttons: "Apply", "Remove", and "Close".

Linking elements

Once you have put some elements on the map, it is time to start linking them. To link two elements you must first select them. With the elements selected, click on *Add* next to Link.

With a link created, the single element form now contains an additional *Links* section. Click on *Edit* to

edit link attributes.

Map element: [Add / Remove](#) Shape: [Add / Remove](#) Link: [Add / Remove](#) Expand macros: [Off](#) Grid: [Shown / On](#) 50x50 [Align map elements](#) [Update](#)

Y X: 50 100 150 200 250 300 350 400 450 500 550 600 650 700

(MAP_NAME)

50

100

150

200

250

New element

100Mbps

(HOST_NAME)
(HOST.CONN)

Map element

Type: Host

Label:

Label location: Default

* Host: My host X [Select](#)

Application: [Select](#)

Automatic icon selection:

Icons:

- Default: Server_(96)
- Problem: Default
- Maintenance: Default
- Disabled: Default

Coordinates X: Y:

URLs:

Name	URL	Action
<input type="text"/>	<input type="text"/>	Remove

[Add](#)

[Apply](#) [Remove](#) [Close](#)

Links:

Element name	Link indicators	Action
vcenter.zabbix.lan		Edit

Label:

Connect to: vcenter.zabbix.lan

Type (OK): Bold line

Colour (OK): 00CC00

Link indicators:

Trigger	Type	Colour	Action
Add			

[Apply](#) [Remove](#) [Close](#)

Link attributes:

Parameter	Description
<i>Label</i>	Label that will be rendered on top of the link. You can use macros here.
<i>Connect to</i>	The element that the link connects to.
<i>Type (OK)</i>	Default link style: Line - single line Bold line - bold line Dot - dots Dashed line - dashed line
<i>Colour (OK)</i>	Default link colour.
<i>Link indicators</i>	List of triggers linked to the link. In case a trigger has status PROBLEM, its style is applied to the link.

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