

# 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.

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.

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

All users in Zabbix (including non-admin users) can create network maps. Maps have an owner - the user who created them.

Maps can be made public or private. Public maps are visible to all users, however, they must have at least read permissions to all map elements to see it. To add an element to the map the user must also have at least read permission to it.

Private maps are visible only to their owner. Private maps can be shared by the owner to other users and user groups. Regular (non-Super admin) users can only share with the groups and users they are member of. Private maps will be visible to their owner and the users the map is shared with as long as they have read permissions to all map elements. Admin level users, as long as they have read permissions to all map elements, can see and edit private maps regardless of being the owner or belonging to the shared user list.

## Creating a map

To create a map, do the following:

- Go to *Monitoring* → *Maps*
- Go to the view with all maps
- Click on *Create map*

The **Map** tab contains general map attributes:

### Network maps

Map [Sharing](#)

Owner:

Name:

Width:

Height:

Background image:

Automatic icon mapping:  [show icon mappings](#)

Icon highlight:

Mark elements on trigger status change:

Expand single problem:

Advanced labels:

Host group label type:

Host label type:

Trigger label type:

Map label type:

Image label type:

Icon label location:

Problem display:

Minimum trigger severity:

NAME	URL	ELEMENT	ACTION
<input type="text" value="Latest data"/>	<input type="text" value="http://localhost/zabbix/latest.php"/>	<input type="text" value="Host"/>	<a href="#">Remove</a>
<input type="text" value="Trigger status"/>	<input type="text" value="http://localhost/zabbix/tr_status.php"/>	<input type="text" value="Trigger"/>	<a href="#">Remove</a>

[Add](#)

General map attributes:

Parameter	Description
<i>Owner</i>	Name of map owner.
<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: <b>No image</b> - no background image (white background) <b>Image</b> - 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.

Parameter	Description
<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.
<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: <b>Label</b> - icon label <b>IP address</b> - IP address <b>Element name</b> - element name (for example, host name) <b>Status only</b> - status only (OK or PROBLEM) <b>Nothing</b> - no labels are displayed
<i>Icon label location</i>	Label location in relation to the icon: <b>Bottom</b> - beneath the icon <b>Left</b> - to the left <b>Right</b> - to the right <b>Top</b> - above the icon
<i>Problem display</i>	Display problem count as: <b>All</b> - full problem count will be displayed <b>Separated</b> - unacknowledged problem count will be displayed separated as a number of the total problem count <b>Unacknowledged only</b> - 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 map viewing mode. <b>Macro</b> that can be used in map URLs: {MAP.ID}, {HOSTGROUP.ID}, {HOST.ID}, {TRIGGER.ID}

The **Sharing** tab contains the map type as well as sharing options (user groups, users) for private maps:

Parameter	Description
Type	Select map type: <b>Private</b> - map is visible only to selected user groups and users <b>Public</b> - map is visible to all
List of user group shares	Select user groups that the map is accessible to. You may allow read-only or read-write access.
List of user shares	Select users that the map is accessible to. You may allow read-only or read-write access.

When you click on *Add* to save this map, you have created an empty map with a name, dimensions and certain preferences. Now you need to add some elements. For that, click on *Constructor* 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.

Icon: [Add / Remove](#) Link: [Add / Remove](#) Expand macros: [On](#) Grid: [Shown / On](#) 50x50 [Align icons](#) [Update](#)

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

50

100 Zabbix server  
192.168.3.194

150 New element

200

250

300

350

**Map element**

Type

Label

Label location

Host

Application

Automatic icon selection

Icons

Default

Problem

Maintenance

Disabled

Coordinates X  Y

URLs

NAME	URL
<input type="text"/>	<input type="text"/>

[Add](#)

Map element attributes:

Parameter	Description
Type	Type of the element: <b>Host</b> - icon representing status of all triggers of the selected host <b>Map</b> - icon representing status of all elements of a map <b>Trigger</b> - icon representing status of a single trigger <b>Host group</b> - icon representing status of all triggers of all hosts belonging to the selected group <b>Image</b> - an icon, not linked to any resource

Parameter	Description
<i>Label</i>	Icon label, any string. <a href="#">Macros</a> and multi-line strings can be used in labels.
<i>Label location</i>	Label location in relation to the icon: <b>Default</b> - map's default label location <b>Bottom</b> - beneath the icon <b>Left</b> - to the left <b>Right</b> - to the right <b>Top</b> - 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 <b>2.4.0</b> .
<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 map viewing mode. 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. <a href="#">Macros</a> that can be used in map element 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).

Icon: [Add / Remove](#) Link: [Add / Remove](#) Expand macros: [Off](#) Grid: [Shown / On](#) 40x40 [Align ic](#)

Y X:	40	80	120	160	200	240	280	320	360	400	440	480	520
40													
80													
120													
160													
200													
240													
280													
320													
360													
400													
440													

Network

New element

Zabbix server  
{HOST.IP}

### Mass update elements

Selected elements

TYPE	NAME
Host	New host
Host	Zabbix server

Label

Label location

Automatic icon selection

Icon (default)

Icon (problem)

Icon (maintenance)

Icon (disabled)

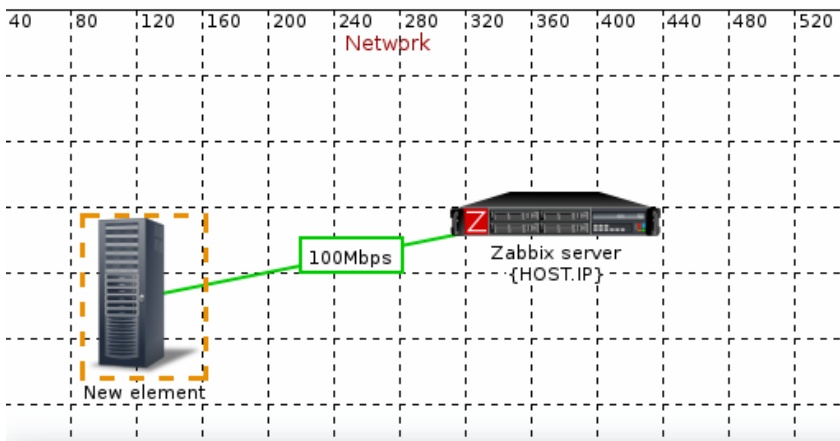
### Linking elements

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.



[/ Remove](#)
[Link: Add / Remove](#)
[Expand macros: Off](#)
[Grid: Shown / On](#)
40x40
[Align icons](#)
U



### Map element

Type: Host

Label:

Label location: Default

Host:  Select

Application:  Select

Automatic icon selection:

Icons:

- Default: Server\_(96)
- Problem: Server\_(128)
- Maintenance: Server\_(24)
- Disabled: Default

Coordinates: X  Y

URLs:

NAME	URL
<input type="text"/>	<input type="text"/>

[Add](#)

Apply Remove Close

Links	ELEMENT NAME	LINK INDICATORS	ACTION
	Zabbix server		<a href="#">Edit</a>

Label	<input type="text" value="100MBps"/>								
Connect to	<span>Zabbix server</span>								
Type (OK)	<span>Bold line</span>								
Colour (OK)	<span>00CC00</span>								
Link indicators	<table border="1"> <thead> <tr> <th>TRIGGER</th> <th>TYPE</th> <th>COLOUR</th> <th>ACTION</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	TRIGGER	TYPE	COLOUR	ACTION				
TRIGGER	TYPE	COLOUR	ACTION						

Link attributes:

Parameter	Description
<i>Label</i>	Label that will be rendered on top of the link. You can use <a href="#">macros</a> here.
<i>Connect to</i>	The element that the link connects to.
<i>Type (OK)</i>	Default link style: <b>Line</b> - single line <b>Bold line</b> - bold line <b>Dot</b> - dots <b>Dashed line</b> - dashed line
<i>Colour (OK)</i>	Default link colour.
<i><a href="#">Link indicators</a></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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