

## 2 Custom graphs

### Overview

Custom graphs, as the name suggests, offer customisation capabilities.

While simple graphs are good for viewing data of a single item, they do not offer configuration capabilities.

Thus, if you want to change graph style or the way lines are displayed or compare several items, for example incoming and outgoing traffic in a single graph, you need a custom graph.

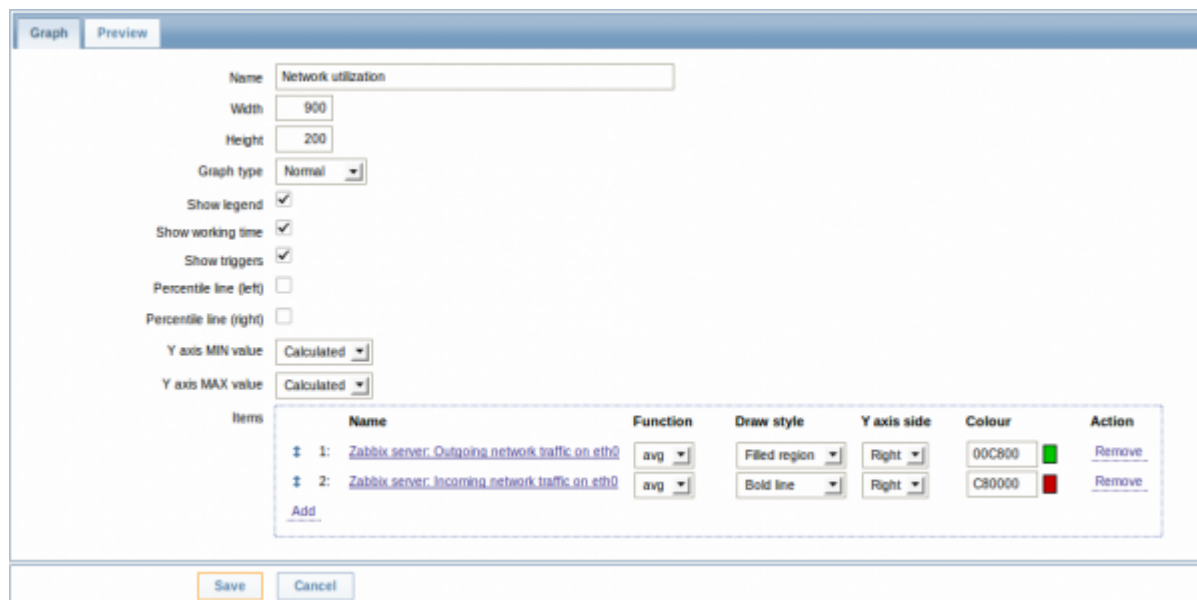
Custom graphs are configured manually.

They can be created for a host or several hosts or for a single template.

### Configuring custom graphs

To create a custom graph, do the following:

- Go to *Configuration* → *Hosts (or Templates)*
- Click on *Graphs* in the row next to the desired host or template
- In the Graphs screen click on *Create graph*
- Edit graph attributes



Graph attributes:

Parameter	Description
<i>Name</i>	Unique graph name. Starting with Zabbix 2.2, item values can be referenced in the name by using simple macros with the standard <code>{host:key.func(param)}</code> syntax. Only <b>avg</b> , <b>last</b> , <b>max</b> and <b>min</b> as functions with seconds as parameter are supported within this macro. <code>{HOST.HOST&lt;1-9&gt;}</code> macros are supported for the use within this macro, referencing the first, second, third, etc. host in the graph, for example <code>{{HOST.HOST1}:key.func(param)}</code> .
<i>Width</i>	Graph width in pixels (for preview and pie/exploded graphs only).
<i>Height</i>	Graph height in pixels.
<i>Graph type</i>	Graph type: <b>Normal</b> - normal graph, values displayed as lines <b>Stacked</b> - stacked graph, filled areas displayed <b>Pie</b> - pie graph <b>Exploded</b> - "exploded" pie graph, portions displayed as "cut out" of the pie
<i>Show legend</i>	Checking this box will set to display the graph legend.
<i>Show working time</i>	If selected, non-working hours will be shown with gray background. Not available for pie and exploded pie graphs.
<i>Show triggers</i>	If selected, simple triggers will be displayed as red lines. Not available for pie and exploded pie graphs.
<i>Percentile line (left)</i>	Display percentile for left Y axis. If, for example, 95% percentile is set, then the percentile line will be at the level where 95 per cent of the values fall under. Displayed as a bright green line. Only available for normal graphs.
<i>Percentile line (right)</i>	Display percentile for right Y axis. If, for example, 95% percentile is set, then the percentile line will be at the level where 95 per cent of the values fall under. Displayed as a bright red line. Only available for normal graphs.
<i>Y axis MIN value</i>	Minimum value of Y axis: <b>Calculated</b> - Y axis minimum value will be automatically calculated <b>Fixed</b> - fixed minimum value for Y axis. Not available for pie and exploded pie graphs. <b>Item</b> - last value of the selected item will be the minimum value
<i>Y axis MAX value</i>	Maximum value of Y axis: <b>Calculated</b> - Y axis maximum value will be automatically calculated <b>Fixed</b> - fixed maximum value for Y axis. Not available for pie and exploded pie graphs. <b>Item</b> - last value of the selected item will be the maximum value
<i>3D view</i>	Enable 3D style. For pie and exploded pie graphs only.
<i>Items</i>	Items, data of which are to be displayed in this graph.

### Configuring graph items

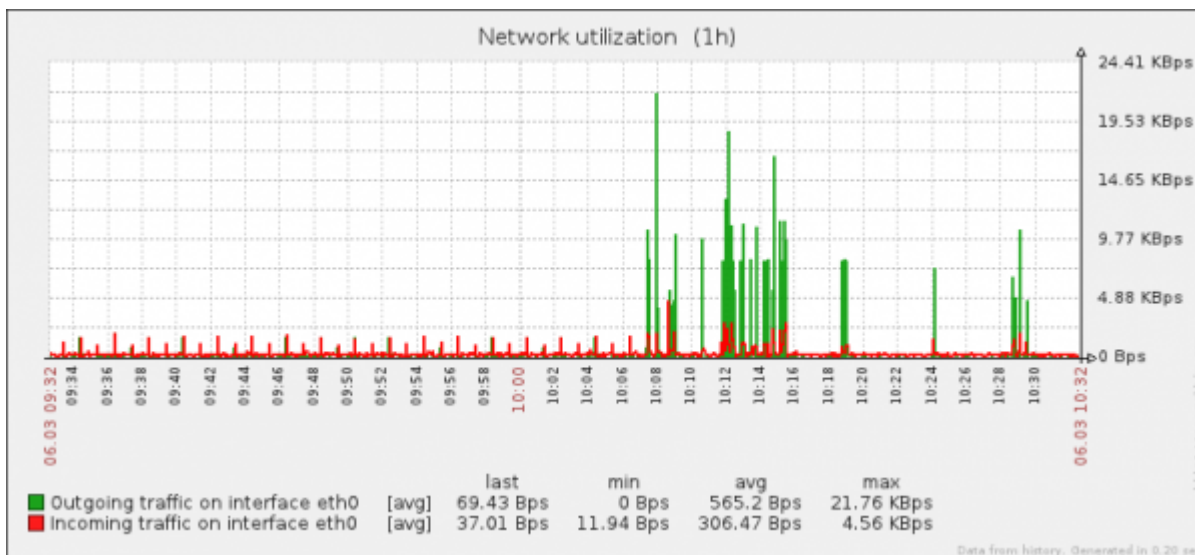
To add items, data of which are to be displayed in the graph, click on *Add* in the *Items* block, select items and then set attributes for the way item data will be displayed.

Item display attributes:

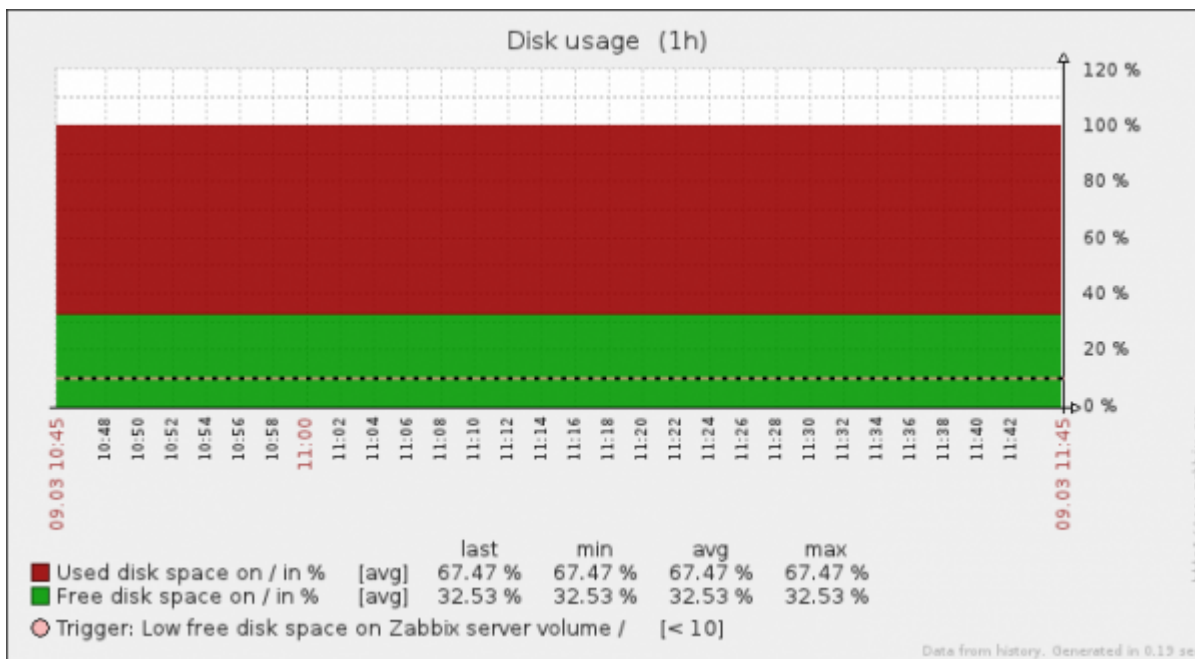
Parameter	Description
Sort order (0→100)	Draw order. 0 will be processed first. Can be used to draw lines or regions behind (or in front of) another. You can drag and drop items by the arrow in the beginning of line to set the sort order or which item is displayed in front of the other.
Name	Name of item, data of which will be displayed.
Type	Type (only available for pie and exploded pie graphs): <b>Simple</b> - value of the item is represented proportionally on the pie <b>Graph sum</b> - value of the item represents the whole pie. Note that colouring of the "graph sum" item will only be visible to the extent that it is not taken up by "proportional" items.
Function	What values will be displayed when more than one value exists for an item: <b>all</b> - all (minimum, average and maximum) <b>min</b> - minimum only <b>avg</b> - average only <b>max</b> - maximum only
Draw style	Draw style (only available for normal graphs; for stacked graphs filled region is always used): <b>Line</b> - draw lines <b>Filled region</b> - draw filled region <b>Bold line</b> - draw bold lines <b>Dot</b> - draw dots <b>Dashed line</b> - draw dashed line
Y axis side	Which Y axis side the element is assigned to.
Colour	RGB colour in HEX notation.

**Graph preview**

In the *Preview* tab, a preview of the graph is displayed so you can immediately see what you are creating.



Note that the preview will not show any data for template items.



In this example, pay attention to the dashed bold line displaying the trigger level and the trigger information displayed in the legend.

3 triggers is the hard-coded limit for the number of triggers displayed in the legend.

If graph height is set as less than 120 pixels, no trigger will be displayed in the legend.

From: <https://www.zabbix.com/documentation/2.2/> - **Zabbix Documentation 2.2**

Permanent link: <https://www.zabbix.com/documentation/2.2/manual/config/visualisation/graphs/custom>

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