

## 3 Screens

### Overview

On Zabbix screens you can group information from various sources for a quick overview on a single screen. Building the screens is quite easy and intuitive.

Essentially a screen is a table. You choose how many cells per table and what elements to display in the cells. The following elements can be displayed:

- simple graphs
- simple graph prototypes
- user-defined custom graphs
- custom graph prototypes
- maps
- other screens
- plain text information
- server information (overview)
- host information (overview)
- trigger information (overview)
- host/hostgroup issues (status of triggers)
- system status
- data overview
- clock
- history of events
- history of recent actions
- URL (data taken from another location)

Screens that are ready can be viewed in *Monitoring* → *Screens*. They can also be added to the favourites section of the Dashboard.

To configure a screen you must first create it by defining its general properties and then add individual elements in the cells.

### Creating a screen

To create a screen, do the following:

- Go to *Configuration* → *Screens*
- Click on *Create Screen*
- Edit general screen attributes

**Screen**

Name

Columns

Rows

Give your screen a unique name and set the number of columns (vertical cells) and rows (horizontal cells). Click *Add*.

Now you can click on the screen name in the list to be able to add elements.

### Adding elements

On a new screen you probably only see links named *Change*. Clicking those links opens a form whereby you set what to display in each cell.

On an existing screen you click on the existing elements to open the form whereby you set what to display.

The screenshot shows the 'Configuration of screens' interface for a screen named 'Zabbix server'. The 'Screen cell configuration' section is active, showing a 'Name' dropdown set to 'Zabbix server' and a 'Parameters' field set to 'Local network'. Below this, there are options for 'Horizontal edge' (Left, Center, Right) and 'Vertical edge' (Top, Middle, Bottom). The 'Columns span' is set to 2 and 'Rows span' is set to 1. There are 'Update', 'Delete', and 'Cancel' buttons.

Below the configuration section, two data elements are displayed:

- Zabbix server: CPU load (1h)**: A line graph showing processor load over the last hour. The y-axis ranges from 0 to 0.35. A red horizontal line is drawn at approximately 0.05. The legend includes:
  - Processor load (1 min average per core) [avg] last min avg
  - Processor load (5 min average per core) [avg] 0.01 0.01 0.0235
  - Processor load (15 min average per core) [avg] 0.05 0.05 0.051A trigger is shown: 'Trigger: Processor load is too high on Zabbix server [>= 5]'. A 'Change' link is at the bottom.
- Zabbix server: CPU utilization (1h)**: A stacked area chart showing CPU utilization over the last hour. The y-axis ranges from 0% to 100%. The legend includes:
  - CPU idle time [avg] 94.52% 95.59% 92.98% 95.12%
  - CPU user time [avg] 2.06% 1.95% 2.43% 7.39%
  - CPU system time [avg] 2.63% 2.18% 2.72% 5.27%
  - CPU iowait time [avg] 0.4% 0.22% 0.68% 1.28%
  - CPU nice time [avg] 0% 0% 0% 0%
  - CPU irqtime time [avg] 0% 0% 0.001383% 0.02%
  - CPU softirq time [avg] 0.33% 0.22% 0.29% 0.52%
  - CPU steal time [avg] 0% 0% 0% 0%A 'Change' link is at the bottom.

Screen element attributes:

Parameter	Description
<i>Resource</i>	Information displayed in the cell: <b>Action log</b> - history of recent actions <b>Clock</b> - digital or analog clock displaying current server or local time <b>Data overview</b> - latest data for a group of hosts <b>Graph</b> - single custom graph <b>Graph prototype</b> - custom graph from low-level discovery rule (available since Zabbix 2.4) <b>History of events</b> - latest events <b>Host group issues</b> - status of triggers filtered by the hostgroup (includes triggers without events, since Zabbix 2.2) <b>Host issues</b> - status of triggers filtered by the host (includes triggers without events, since Zabbix 2.2) <b>Hosts info</b> - high level host related information <b>Map</b> - single map <b>Plain text</b> - plain text data <b>Screen</b> - screen (one screen may contain other screens inside) <b>Server info</b> - server high-level information <b>Simple graph</b> - single simple graph <b>Simple graph prototype</b> - simple graph based on item generated by low-level discovery (available since Zabbix 2.4) <b>System status</b> - displays system status (similar to the Dashboard) <b>Triggers info</b> - high level trigger related information <b>Triggers overview</b> - status of triggers for a host group <b>URL</b> - include content from an external resource
<i>Horizontal align</i>	Possible values: <b>Center</b> <b>Left</b> <b>Right</b>
<i>Vertical align</i>	Possible values: <b>Middle</b> <b>Top</b> <b>Bottom</b>
<i>Column span</i>	Extend cell to a number of columns, same way as HTML column spanning works.
<i>Row span</i>	Extend cell to a number of rows, same way as HTML row spanning works.

Take note of the '+' and '-' controls on each side of the table.

Clicking on '+' above the table will add a column. Clicking on '-' beneath the table will remove a column.

Clicking on '+' on the left side of the table will add a row. Clicking on '-' on the right side of the table will remove a row.

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

## Dynamic elements

For some of the elements there is an extra option called *Dynamic item*. Checking this box at first does not seem to change anything.

However, once you go to *Monitoring* → *Screens*, you may realize that now you have extra dropdowns there for selecting the host. Thus you have a screen where some elements display the same

information while others display information depending on the currently selected host.

The benefit of this is that you do not need to create extra screens just because you want to see the same graphs containing data from various hosts.

*Dynamic item* option is available for several screen elements:

- Graphs (custom graphs)
- Graph prototypes
- Simple graphs
- Simple graph prototypes
- Plain text
- URL

Clicking on a dynamic graph opens it in full view; although with custom graphs and graph prototypes that is currently supported with the default host only (i.e. with host 'not selected' in the dropdown). When selecting another host in the dropdown, the dynamic graph is created using item data of that host and the resulting graph is not clickable.

Dynamic URL elements will not be displayed in *Monitoring* → *Screens*, unless a host is selected. Without a selected host the “No host selected” message will be visible only.

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