ZABBIX

INFORMATION VISUALIZATION IN ZABBIX USING DASHBOARD GRAPH WIDGET

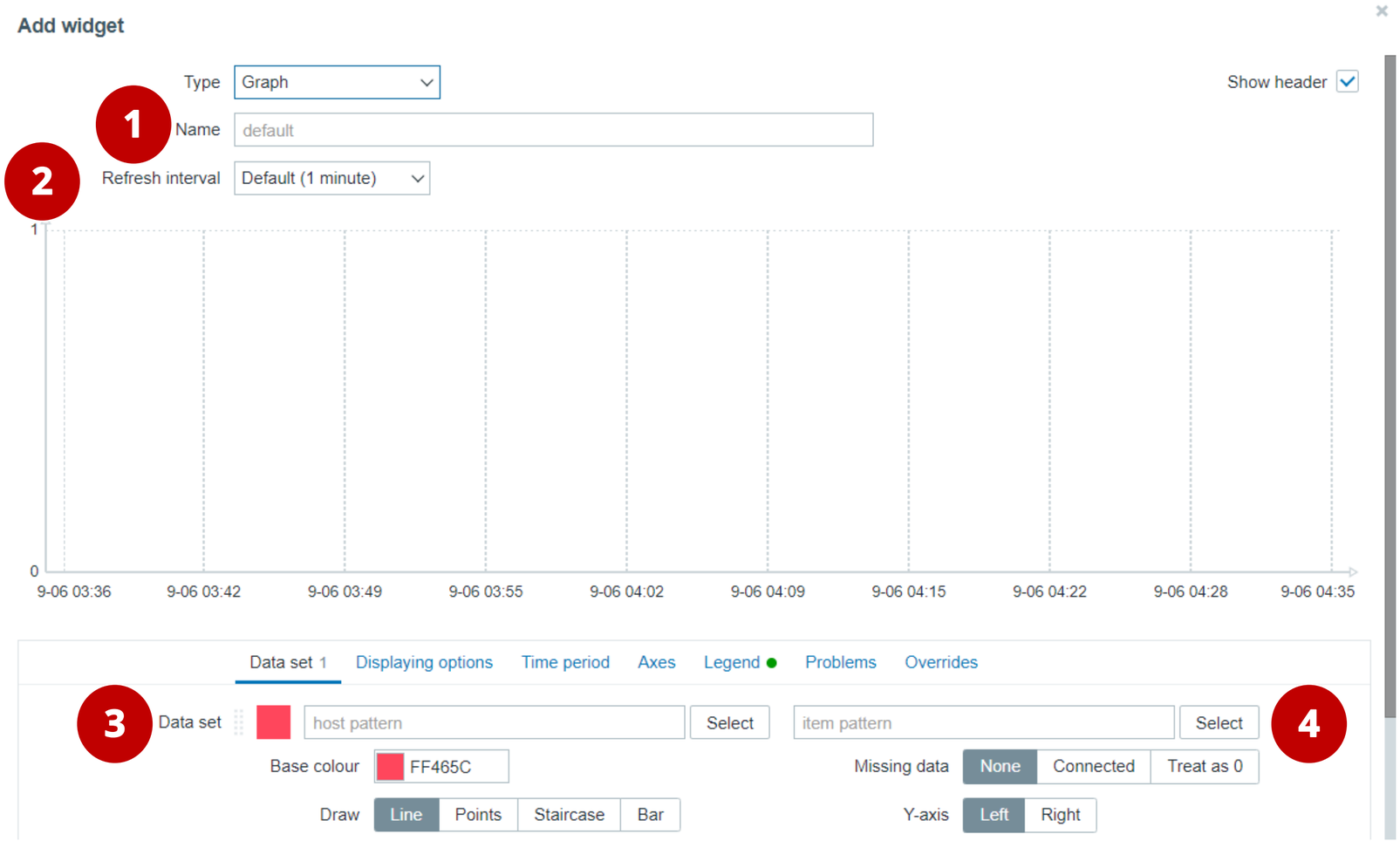
ALEKSANDRS PETROVS-GAVRILOVS
TECHNICAL SUPPORT ENGINEER
ZABBIX

ZABBIX

GLOBAL TOPIC TITLE

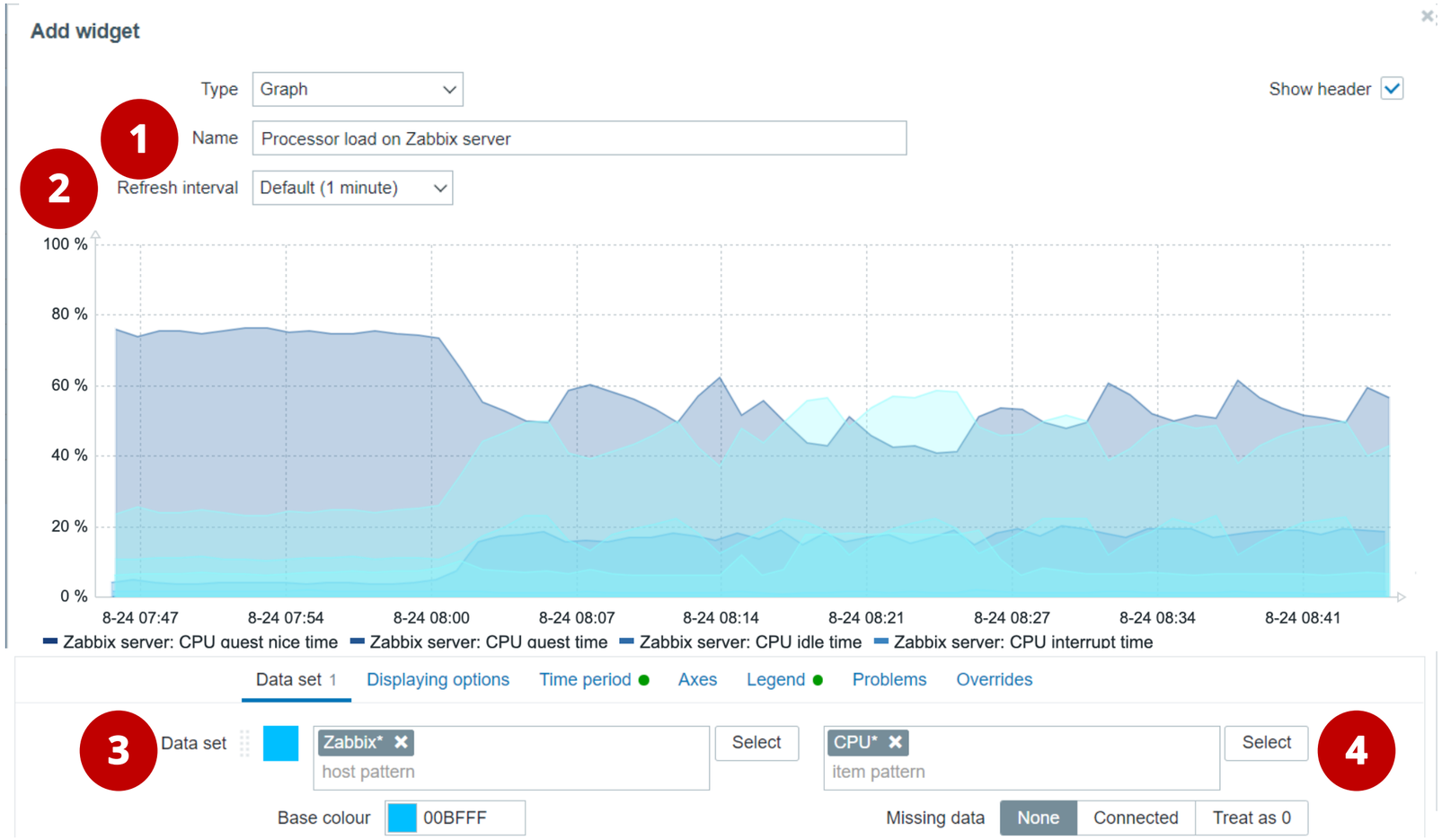
CREATING THE WIDGET ON THE DASHBOARD

CREATING GRAPH WIDGET



1. Graph name
2. Refresh interval
3. Hostname
4. Item

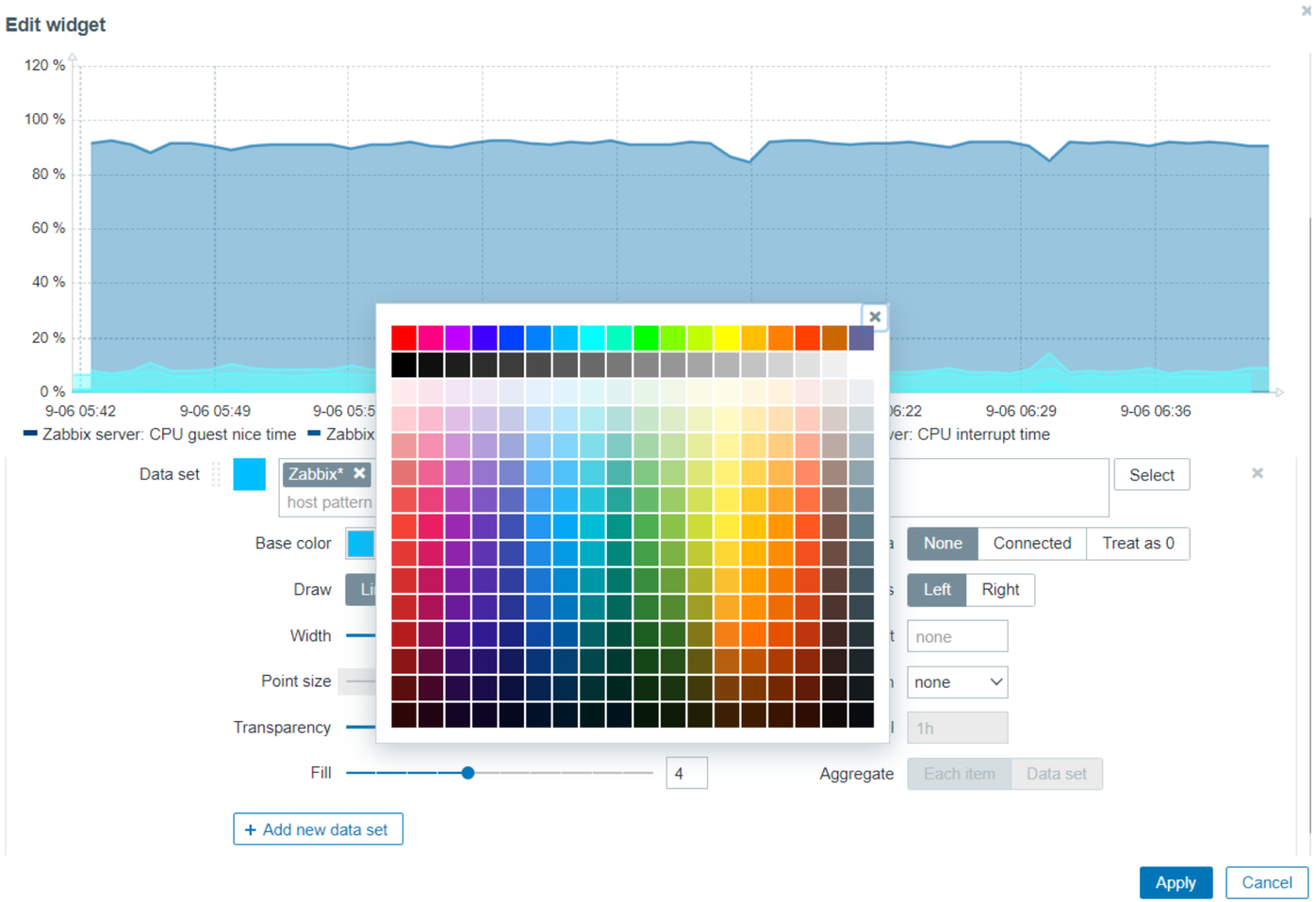
CREATING GRAPH WIDGET



1. Graph name
2. Refresh interval
3. Hostname
4. Items

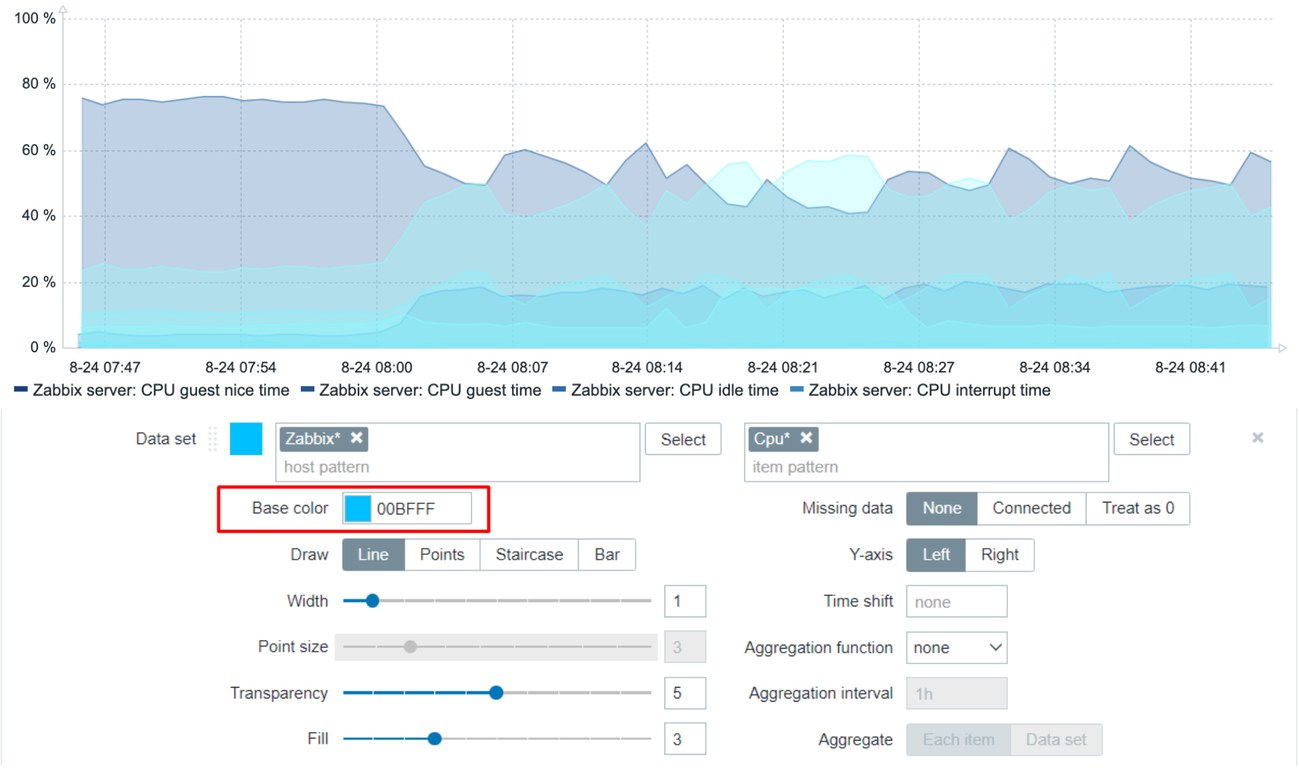
BASE COLOR

For every data set(graph) you can select a base color scheme



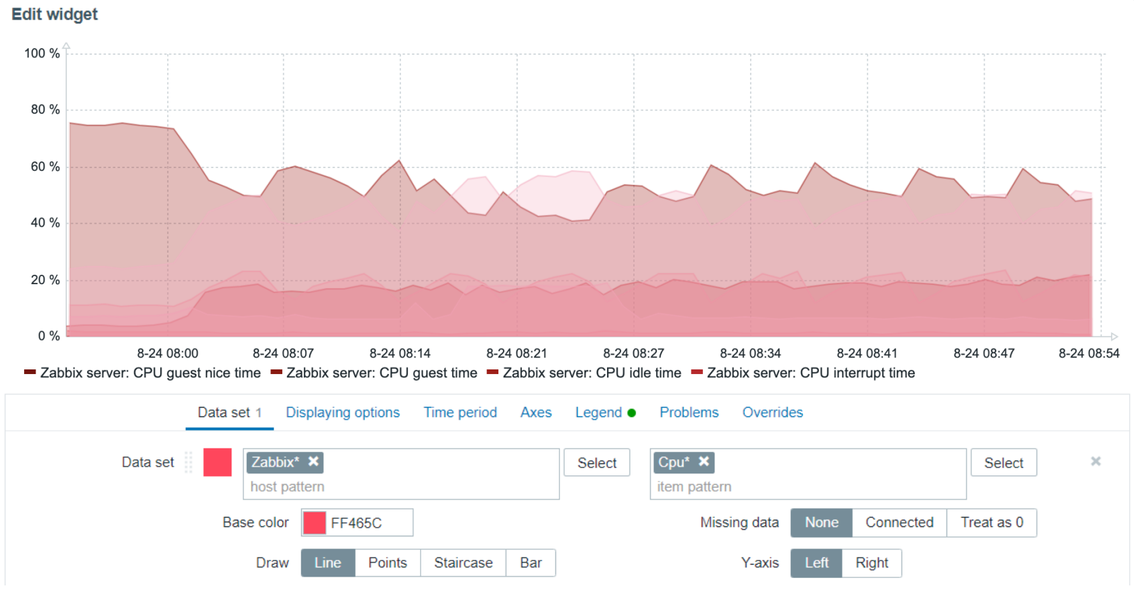
BASE COLOR

HEX codes can be used in the Base color fieldsB поле цвета можно использовать коды для более точного выбора цвета.

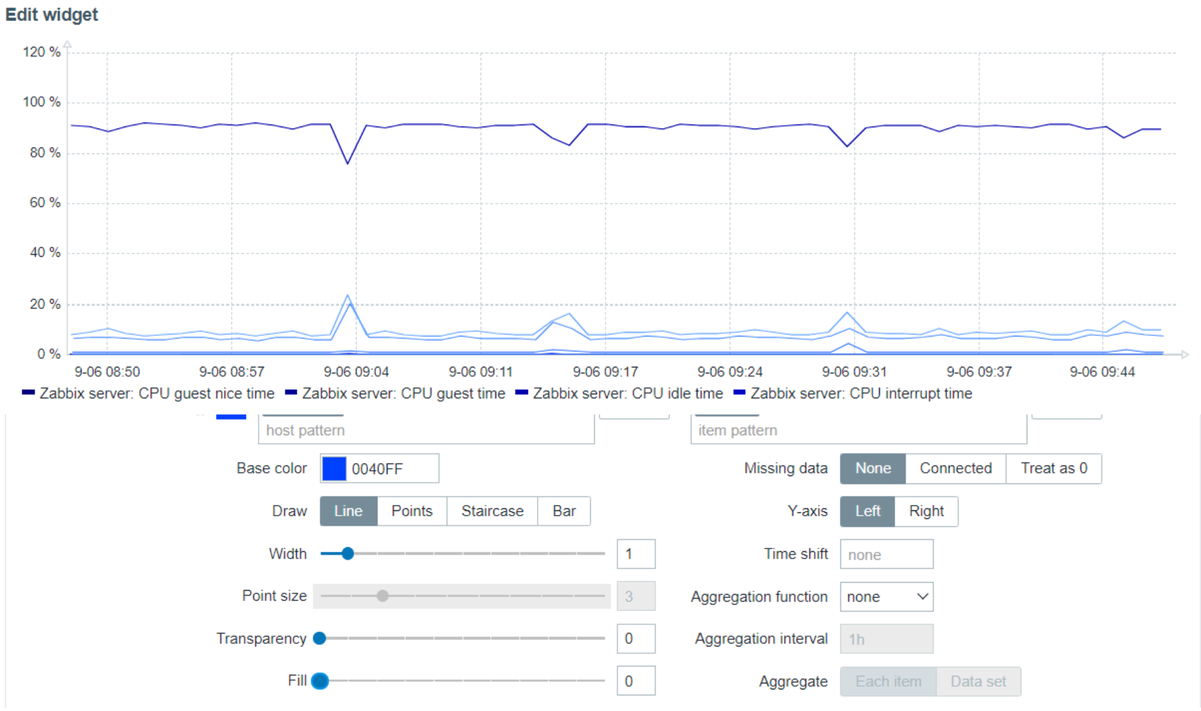


DRAW: LINE

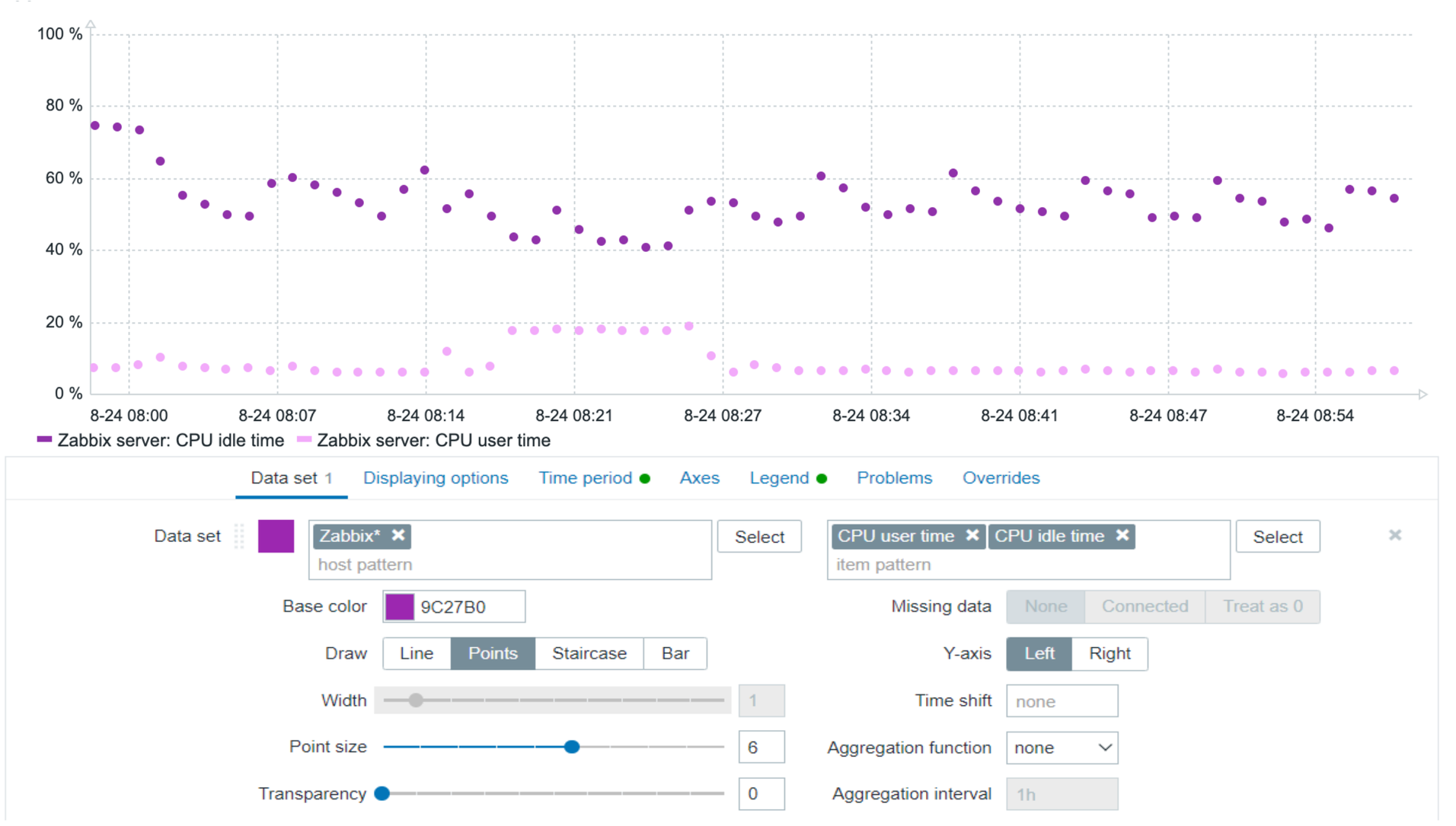
Fill enabled, non-transparent



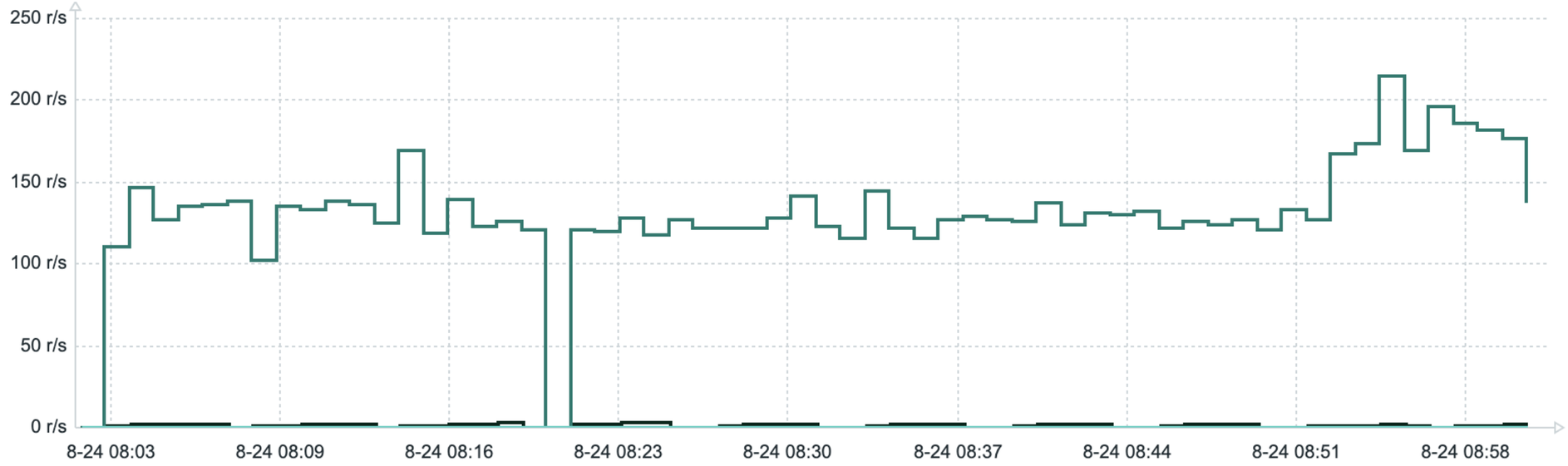
No fill, fully transparent



DRAW: POINTS


100 %
80 %
60 %
40 %
20 %
0 %
8-24 08:00
8-24 08:07
8-24 08:14
8-24 08:21
8-24 08:27
8-24 08:34
8-24 08:41
8-24 08:47
8-24 08:54
Zabbix server: CPU idle time
Zabbix server: CPU user time
Data set 1
Displaying options
Time period
Axes
Legend
Problems
Overrides
Data set
Zabbix*
host pattern
Select
CPU user time
CPU idle time
item pattern
Select
Base color
9C27B0
Missing data
None
Connected
Treat as 0
Draw
Line
Points
Staircase
Bar
Y-axis
Left
Right
Width
1
Time shift
none
Point size
6
Aggregation function
none
Transparency
0
Aggregation interval
1h
Apply
Cancel

DRAW: STAIRCASE



Data set 1 | Displaying options | Time period | Axes | Legend | Problems | Overrides

Data set: Zabbix* (host pattern) Select | sda*read* (item pattern) Select

Base color: 26A69A

Draw: Line | Points | Staircase | Bar

Width: 1

Point size: 6

Transparency: 0

Fill: 0

Missing data: None | Connected | Treat as 0

Y-axis: Left | Right

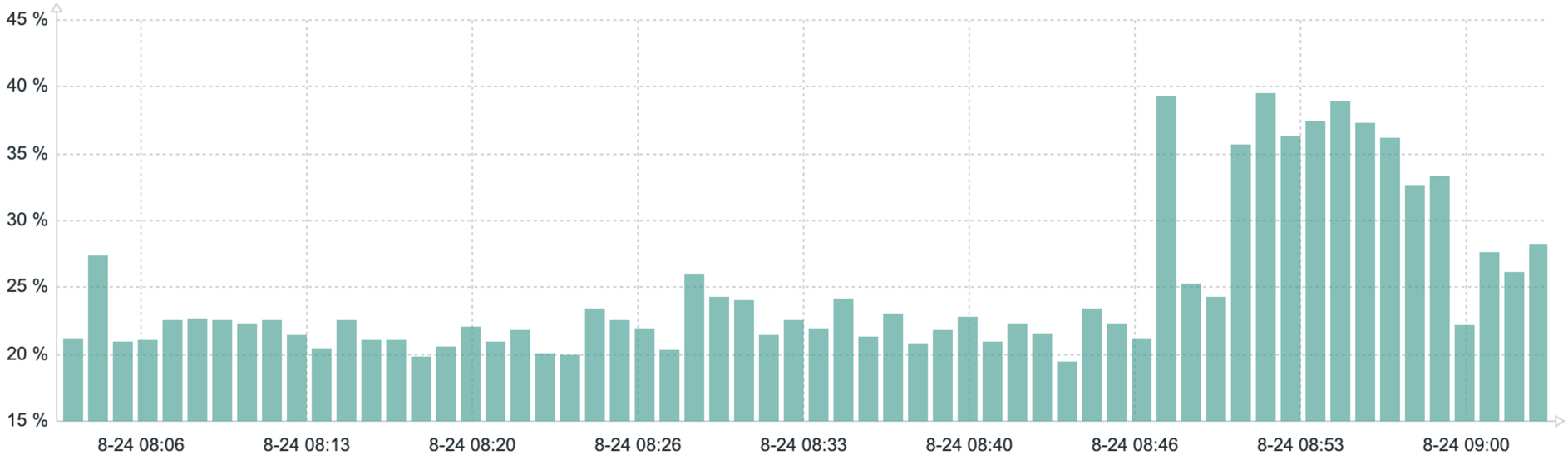
Time shift: none

Aggregation function: none

Aggregation interval: 1h

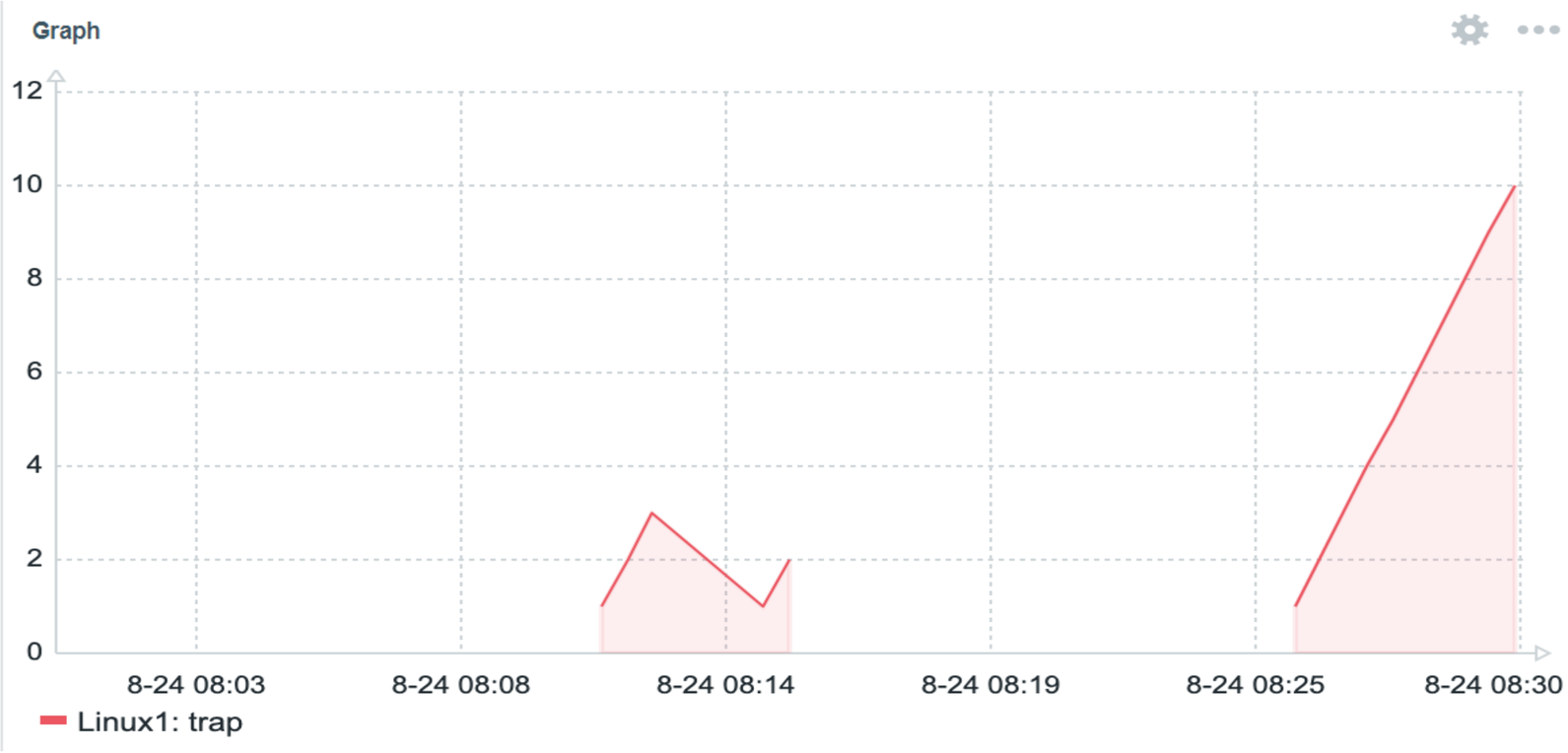
Aggregate: Each item | Data set

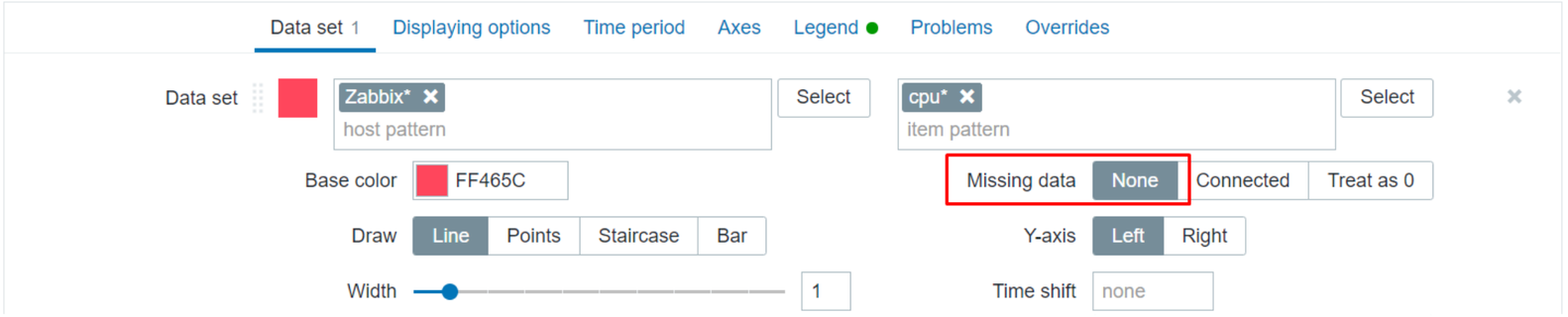
DRAW: BAR



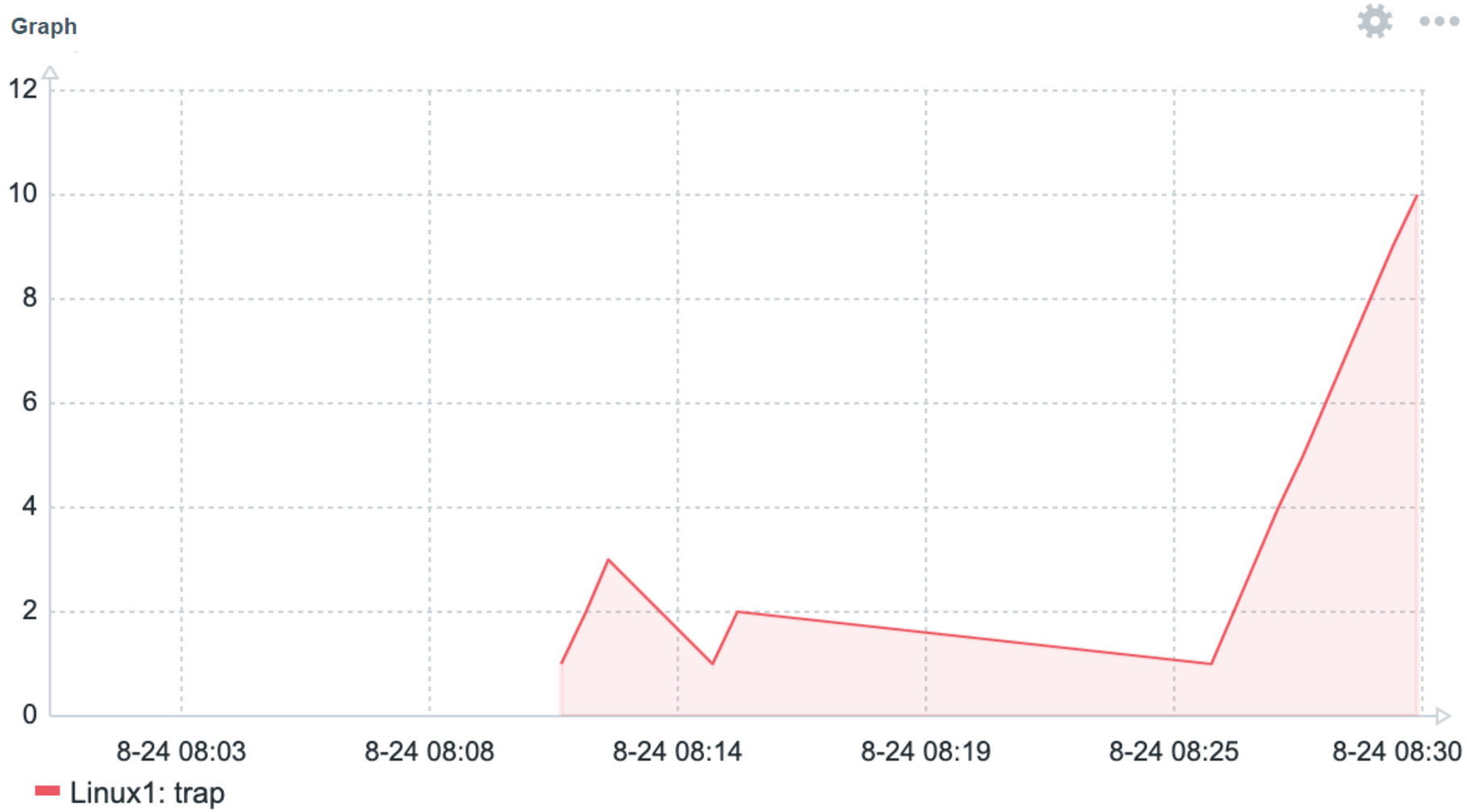
Data set
Zabbix*
host pattern
Select
sdb: Disk utilization
item pattern
Select
Base color
26A69A
Missing data
None
Connected
Treat as 0
Draw
Line
Points
Staircase
Bar
Y-axis
Left
Right
Width
1
Time shift
none
Point size
6
Aggregation function
none
Transparency
0
Aggregation interval
1h
Fill
0
Aggregate
Each item
Data set

MISSING DATA

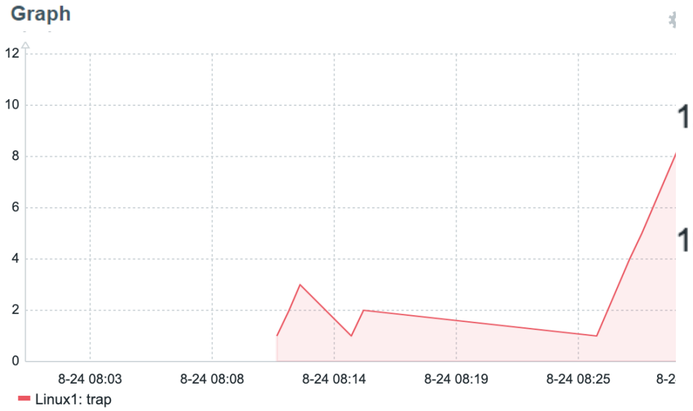


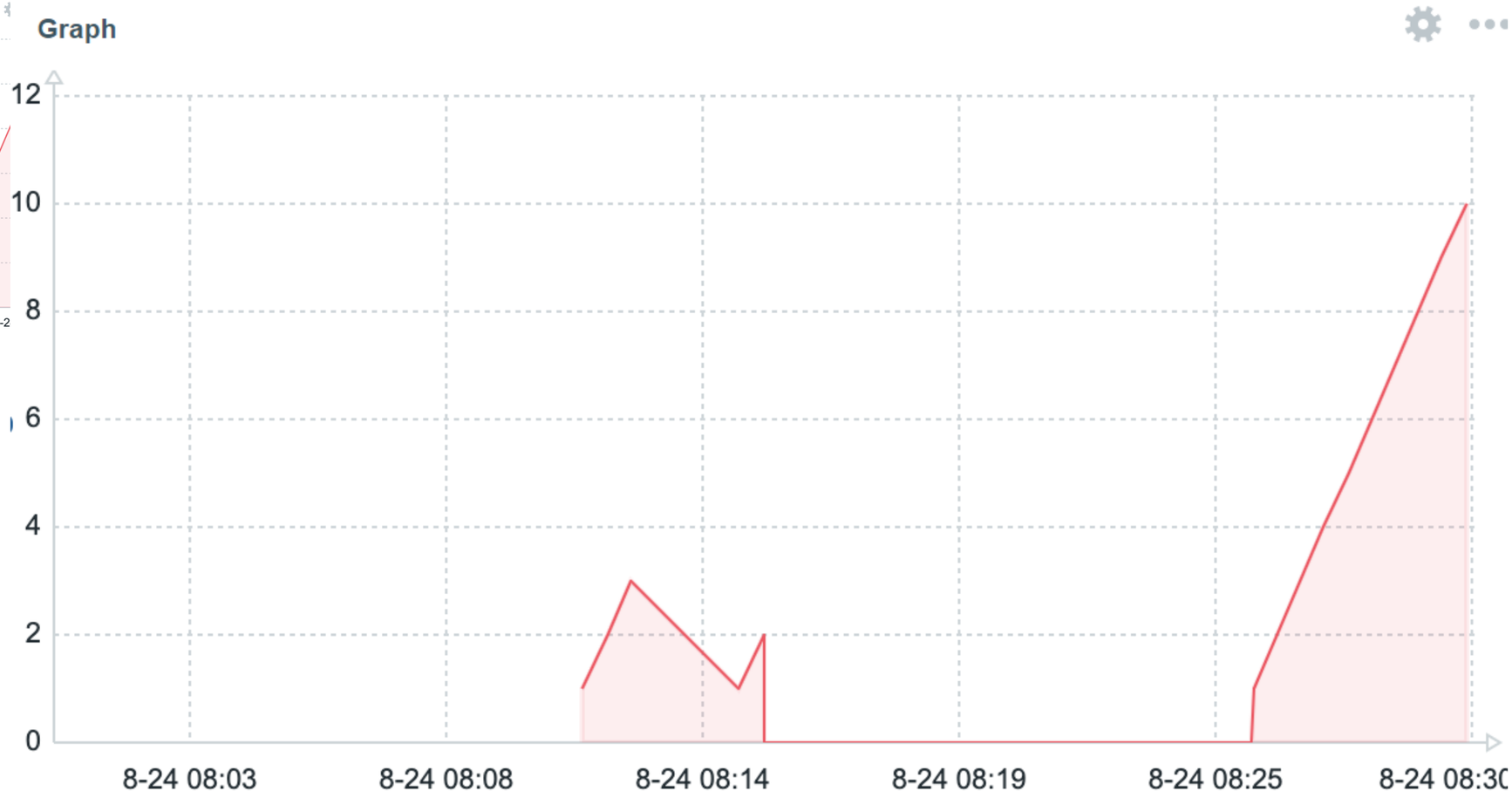


MISSING DATA - CONNECTED

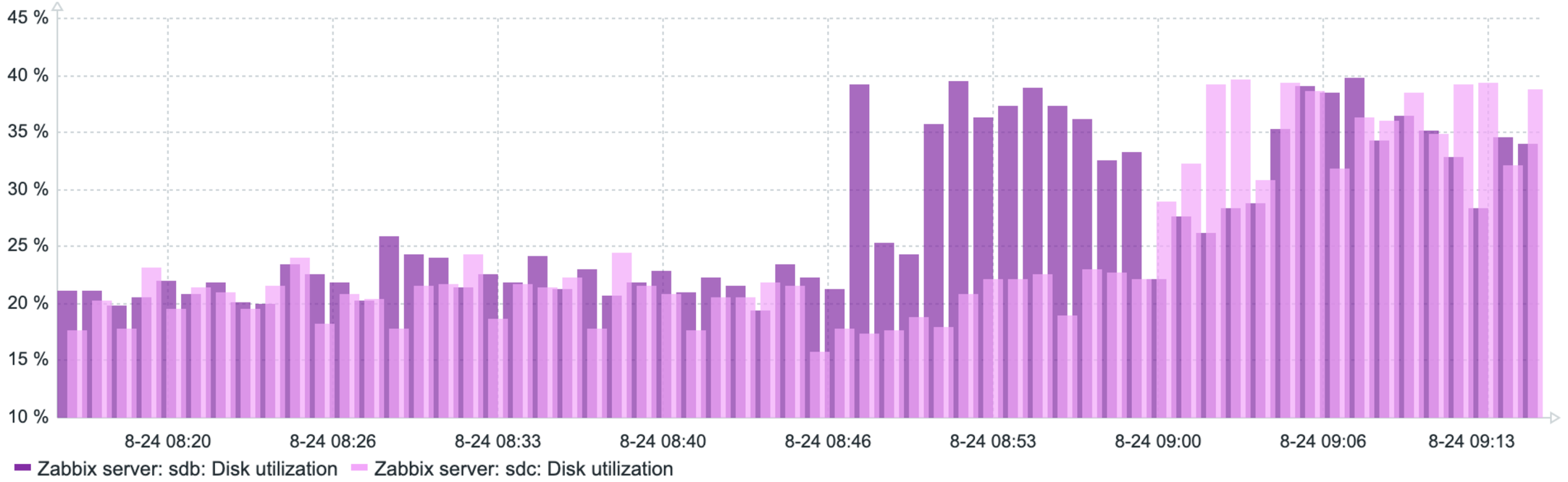


MISSING DATA - TREAT AS 0





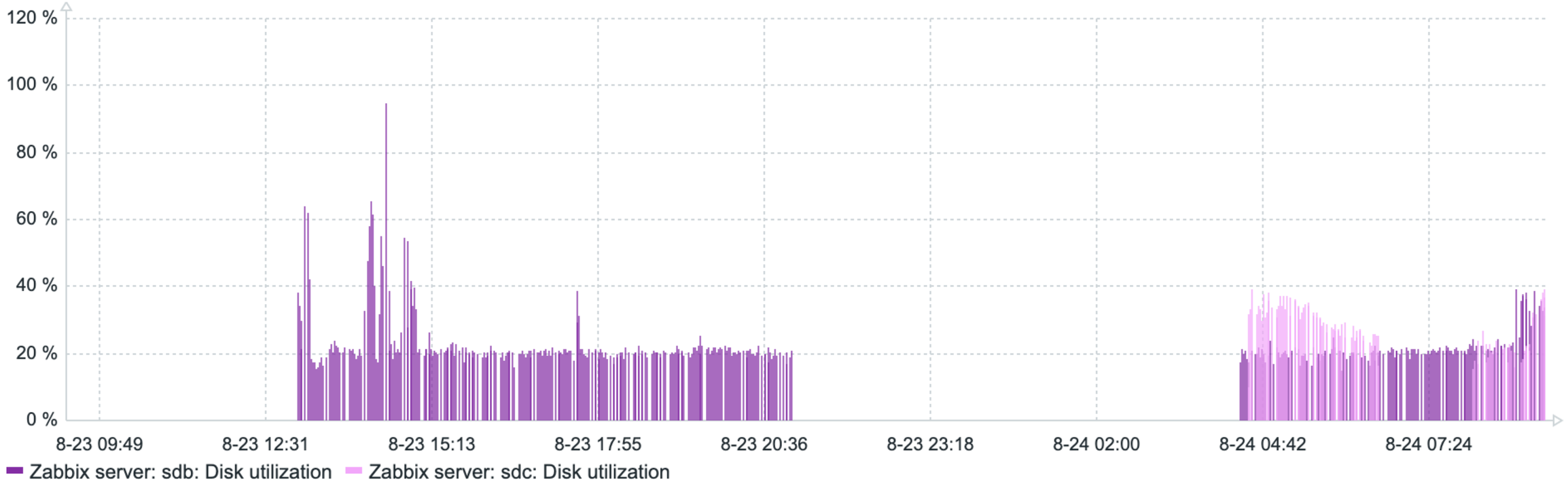
DISPLAYING OPTIONS – HISTORY OR TRENDS



Data set 1 | Displaying options | Time period | Axes | Legend | Problems | Overrides

History data selection: Auto | History | Trends

CUSTOM TIME PERIOD (1 DAY)



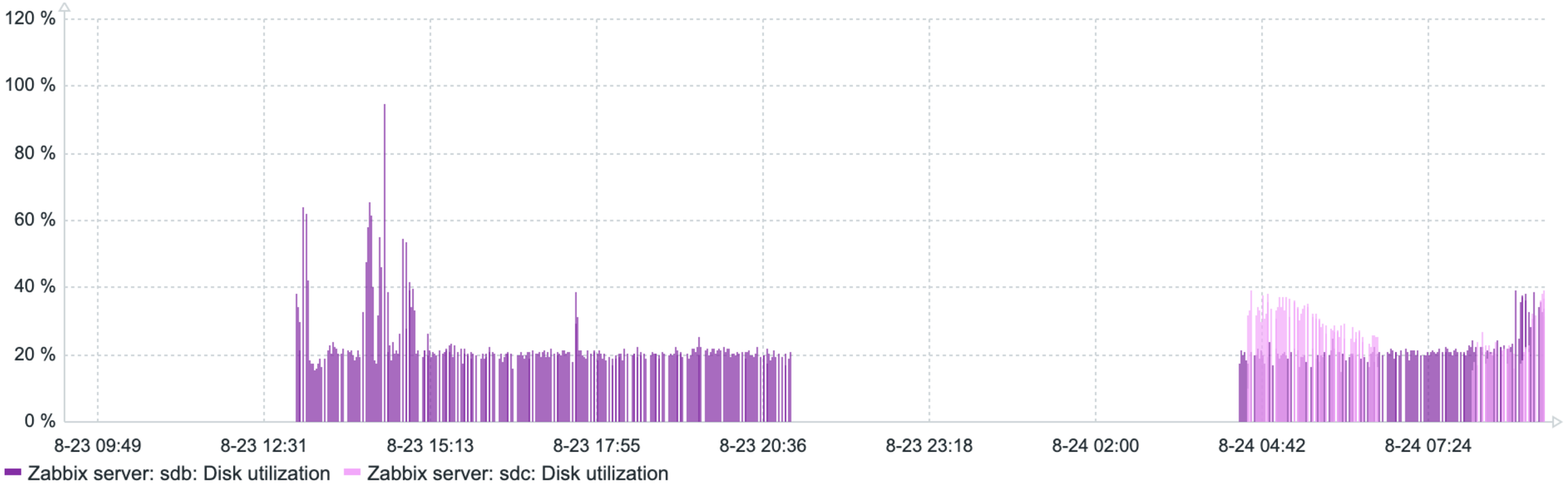
Data set 1 | Displaying options | Time period | Axes | Legend | Problems | Overrides

Set custom time period

From: now-1d

To: now

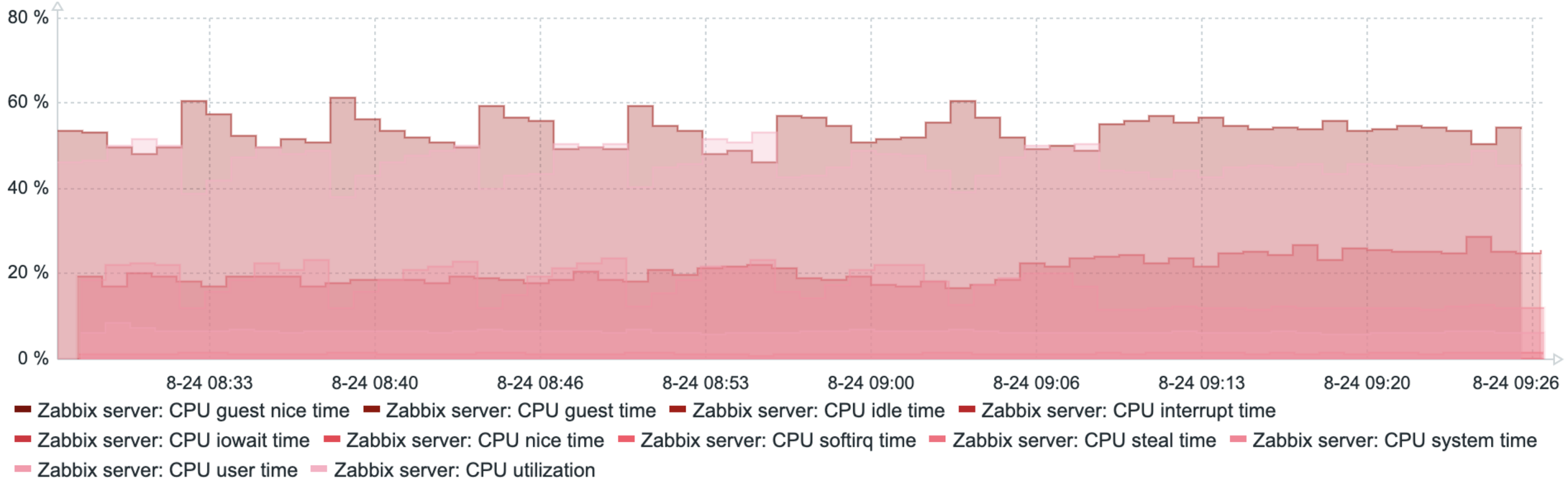
SETTING UP THE AXIS

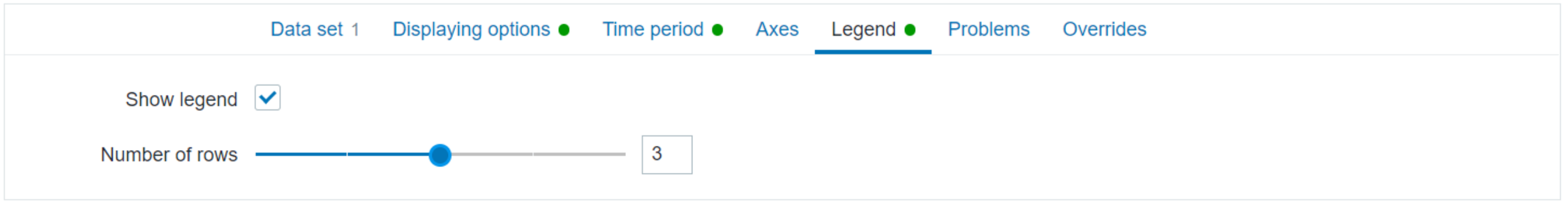


Data set 1 | Displaying options | Time period | Axes | Legend | Problems | Overrides

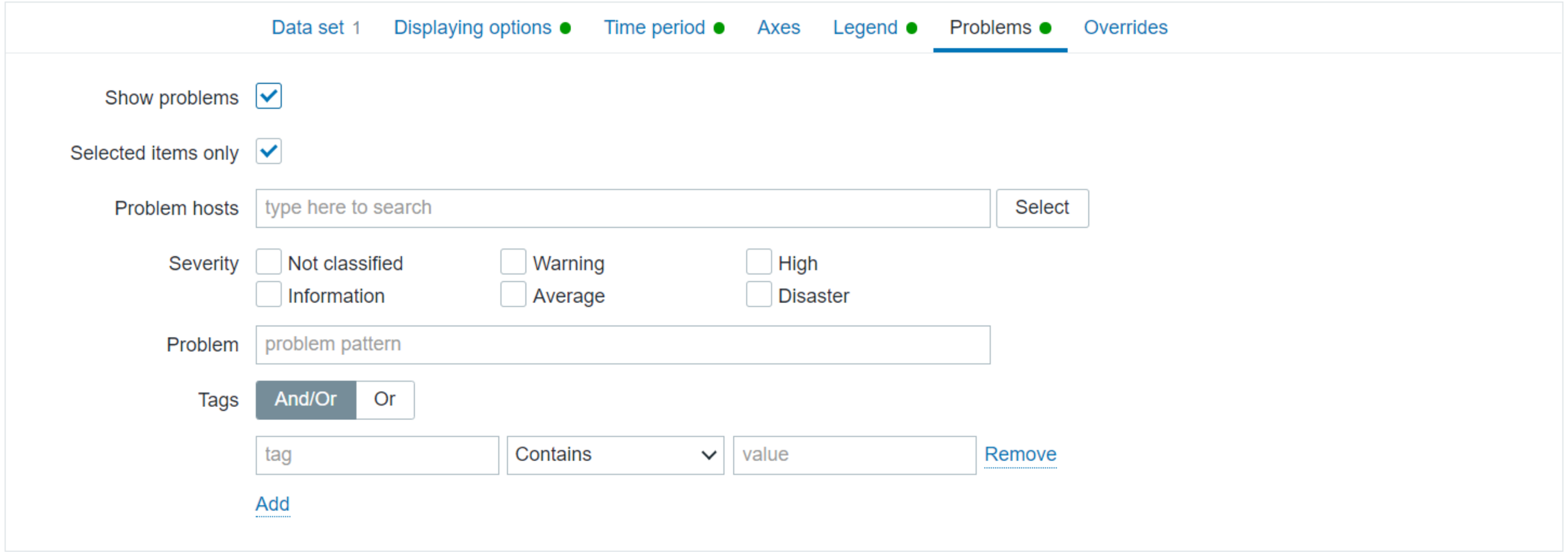
Left Y	Right Y	X-Axis
Show	Show	
Min: calculated	Min: calculated	Show
Max: calculated	Max: calculated	
Units: Auto, value	Units: Auto, value	

LEGEND

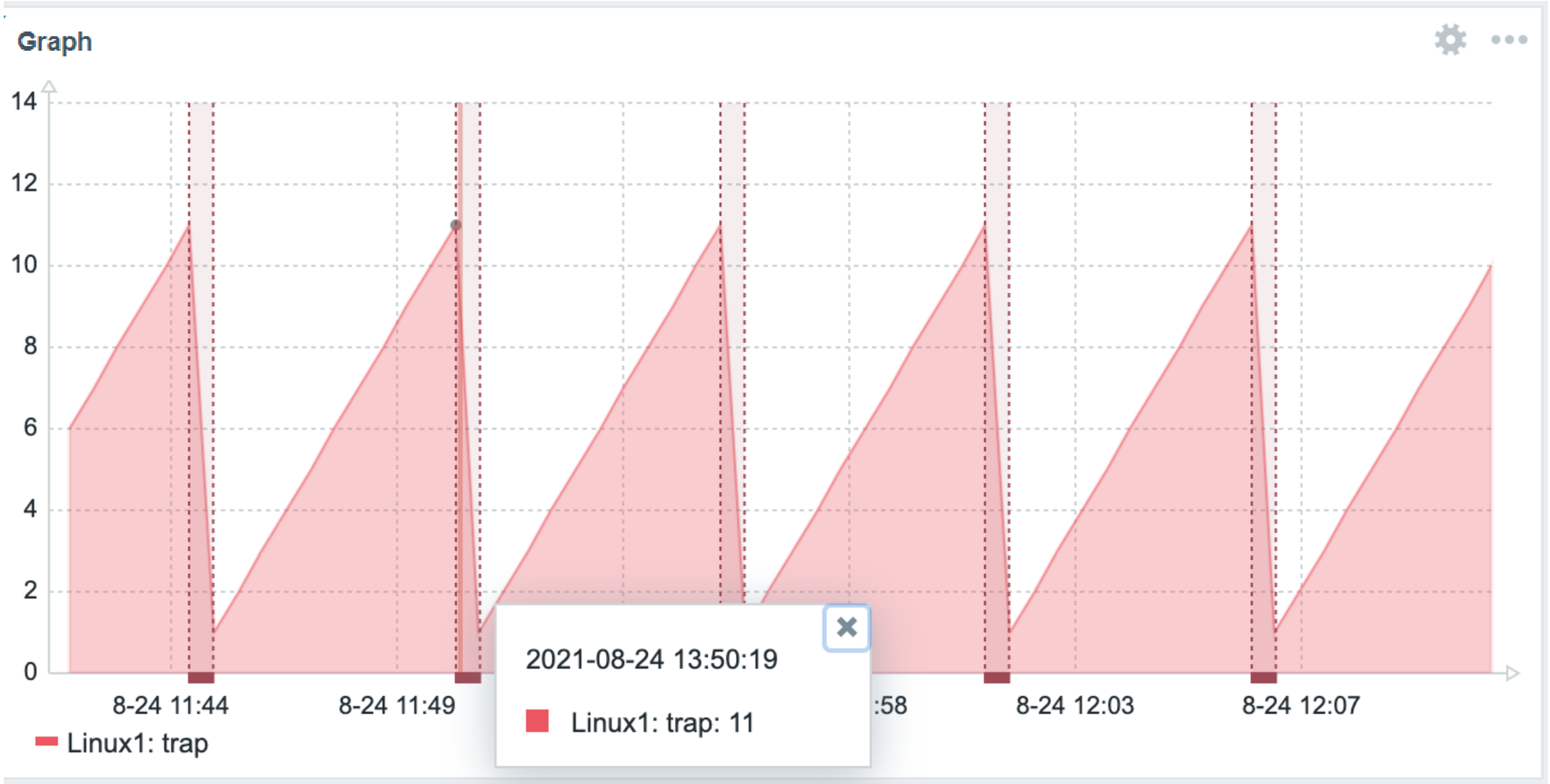

80 %
60 %
40 %
20 %
0 %
8-24 08:33
8-24 08:40
8-24 08:46
8-24 08:53
8-24 09:00
8-24 09:06
8-24 09:13
8-24 09:20
8-24 09:26
Zabbix server: CPU guest nice time
Zabbix server: CPU guest time
Zabbix server: CPU idle time
Zabbix server: CPU interrupt time
Zabbix server: CPU iowait time
Zabbix server: CPU nice time
Zabbix server: CPU softirq time
Zabbix server: CPU steal time
Zabbix server: CPU system time
Zabbix server: CPU user time
Zabbix server: CPU utilization


Data set 1
Displaying options
Time period
Axes
Legend
Problems
Overrides
Show legend
Number of rows
3

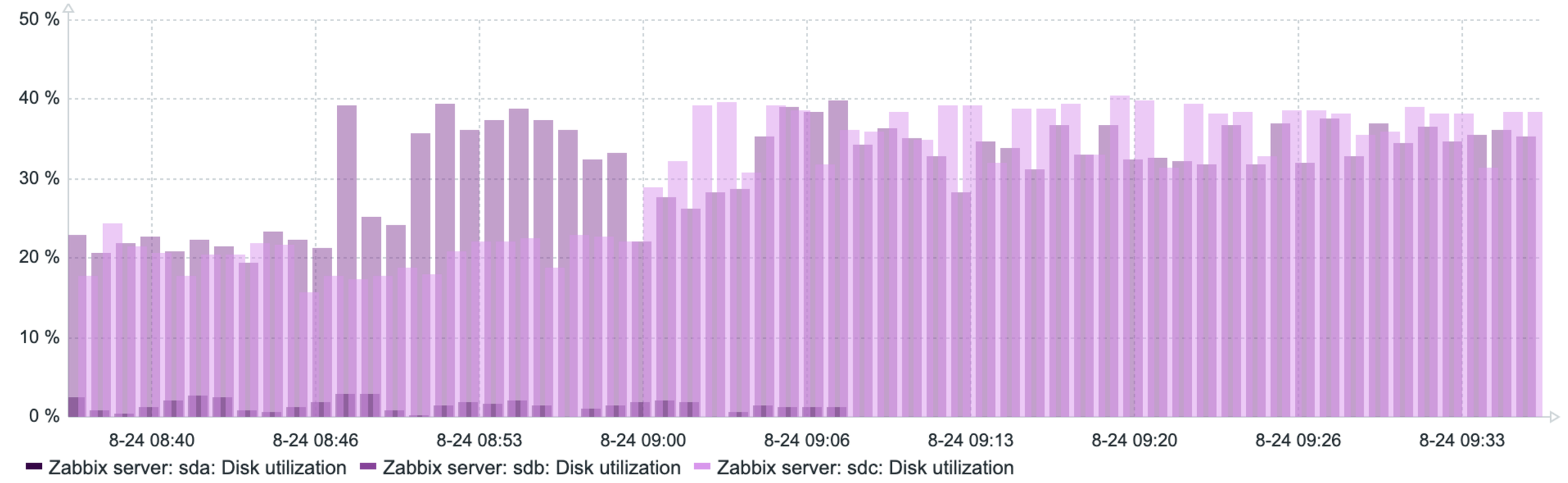
DISPLAYING THE PROBLEMS



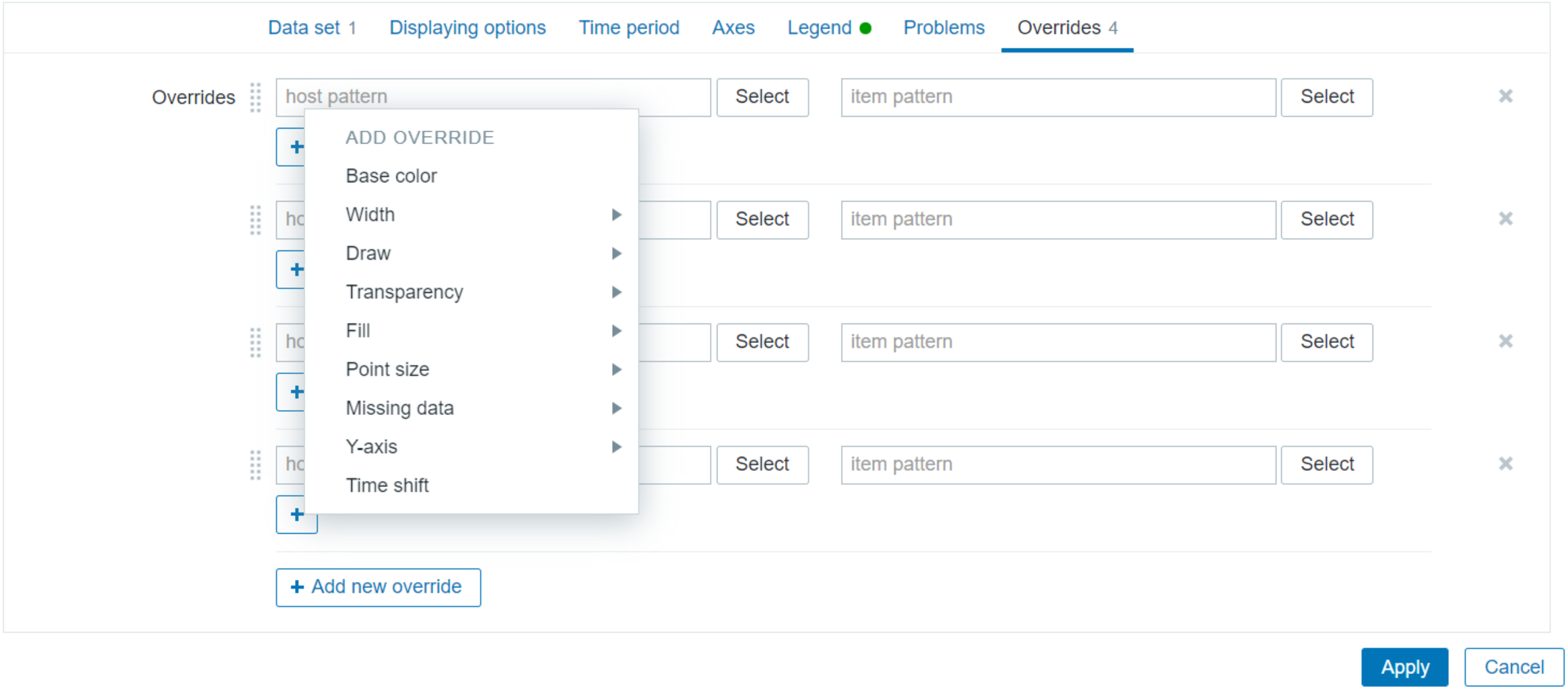
DISPLAYING THE PROBLEMS



OVERRIDES – MAKING DATA NOTABLE



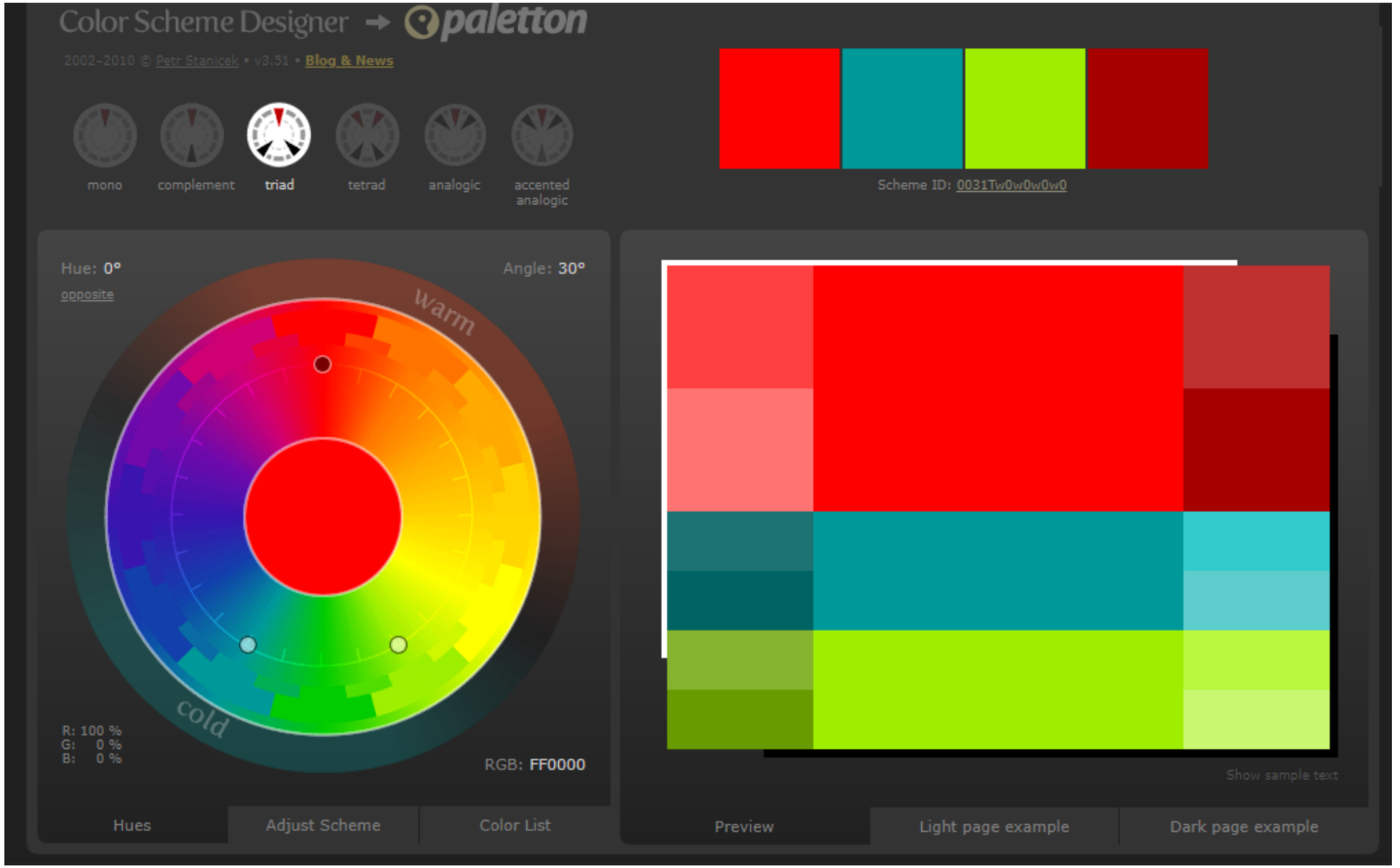
OVERRIDES = POSSIBILITIES



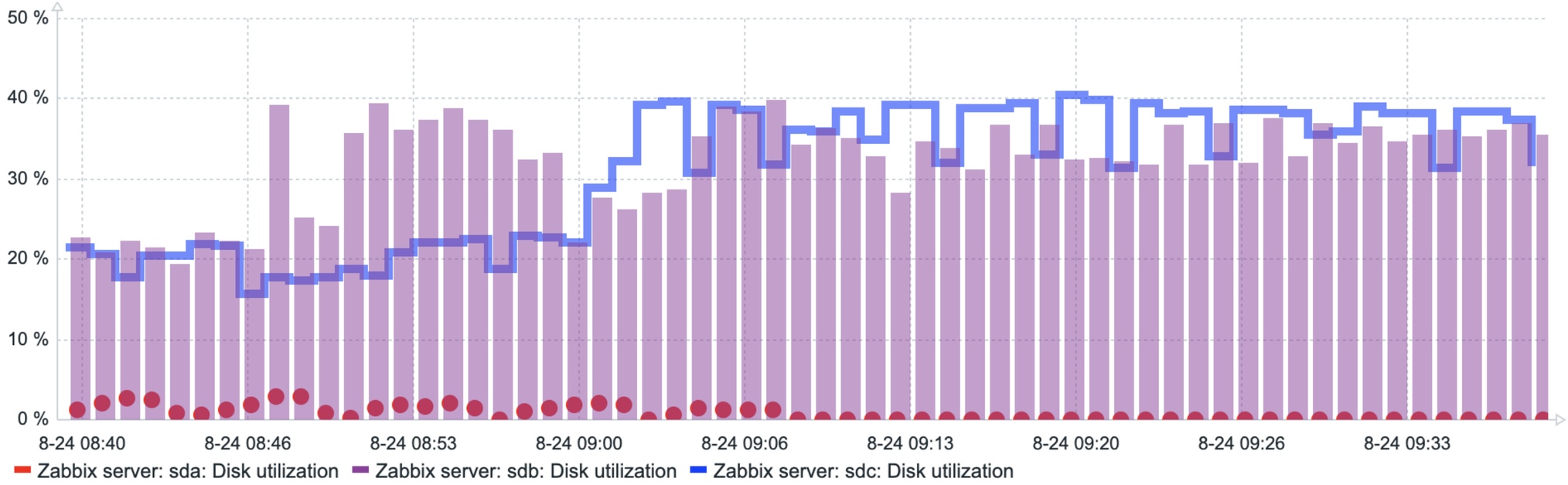
OVERRIDES = POSSIBILITIES

- Select a host and an item visualization of which we would like to change
- Choose the base color
- Specify the draw type
- Configure width and transparency
- Observe the result

OVERRIDES – COLOR COMBINATIONS



OVERRIDES – GETTING A CLEAR PICTURE



Data set 2 | Displaying options | Time period | Axes | Legend | Problems | Overrides 4

Overrides

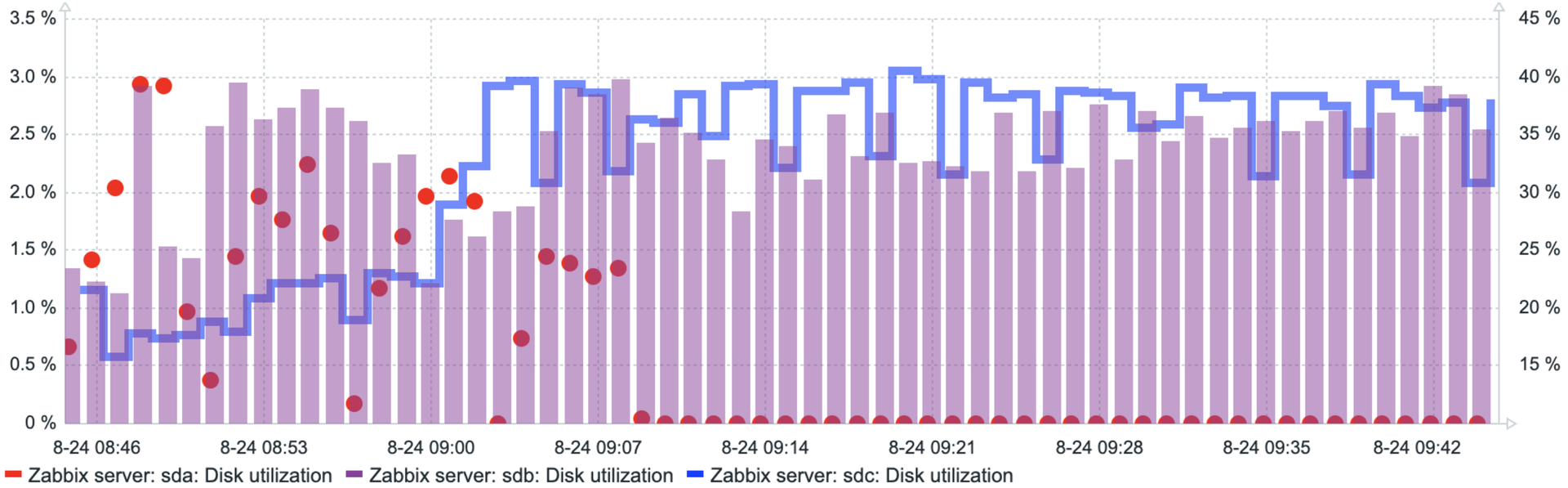
Zabbix server × (host pattern) Select — sda*utilization × (item pattern) Select

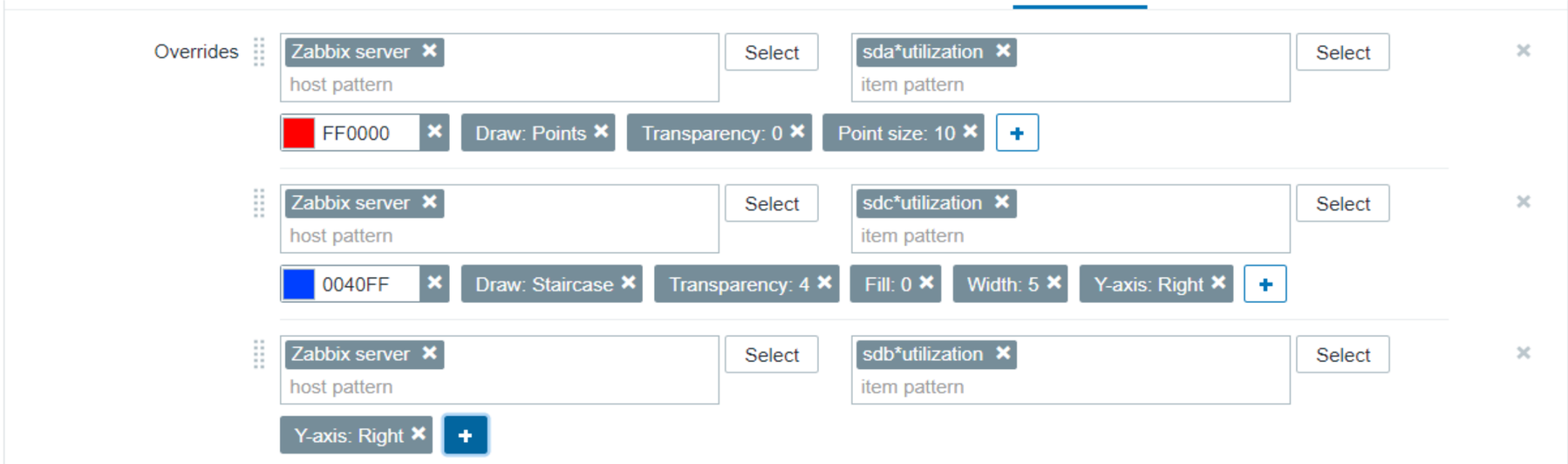
FF0000 × | Draw: Points × | Transparency: 0 × | Point size: 10 × | +

Zabbix server × (host pattern) Select — sdc*utilization × (item pattern) Select

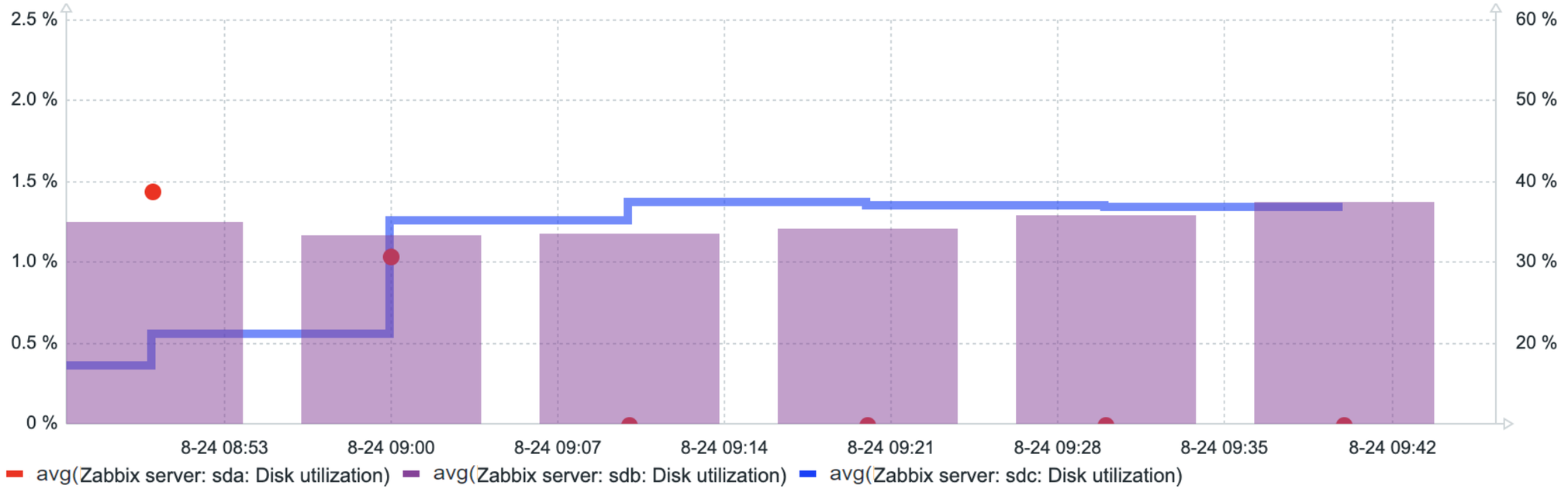
0040FF × | Draw: Staircase × | Transparency: 4 × | Fill: 0 × | Width: 5 × | +

OVERRIDES – SWITCH THE AXIS





AGGREGATION – BY EACH ITEM



Base color BA68C8

Draw: Line | Points | Staircase | Bar

Width 1

Point size 3

Transparency 5

Fill 3

Missing data: None | Connected | Treat as 0

Y-axis: Left | Right

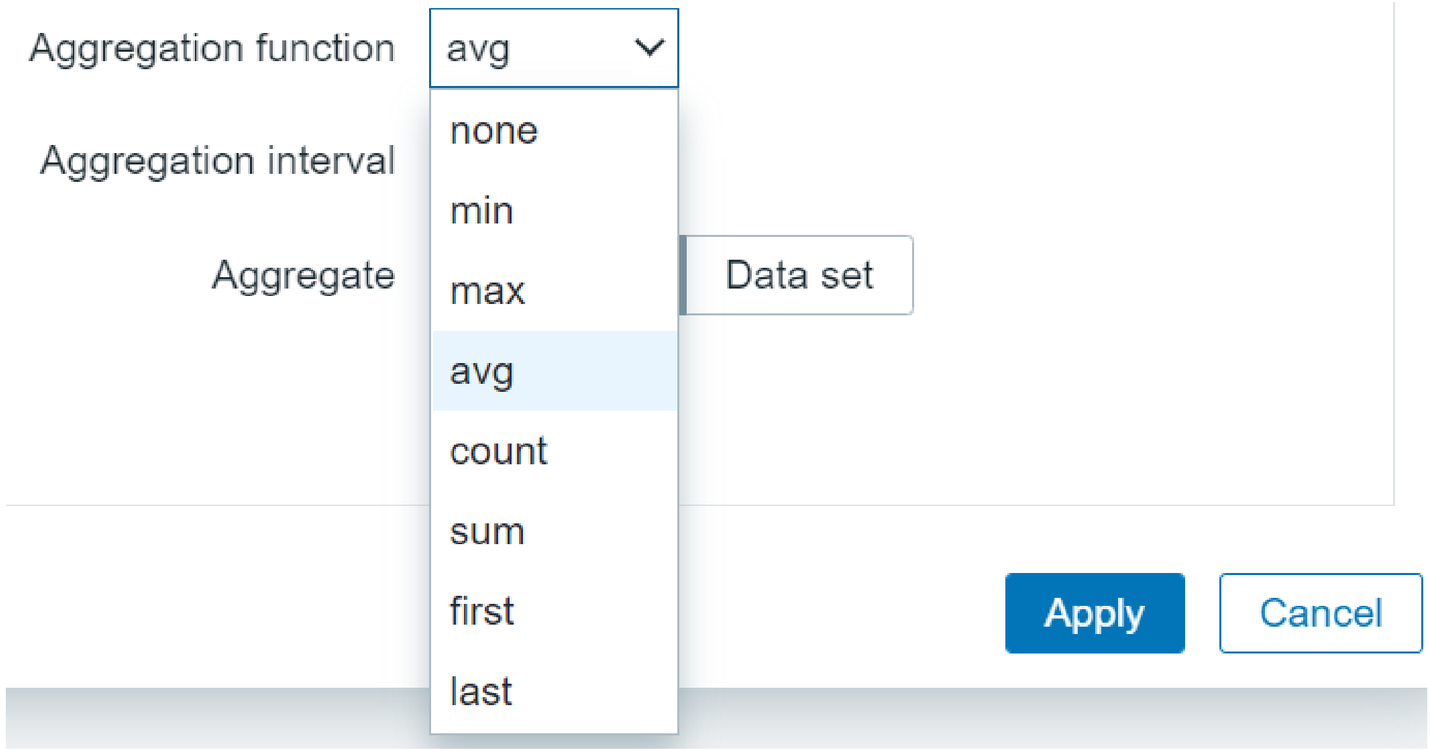
Time shift none

Aggregation function avg

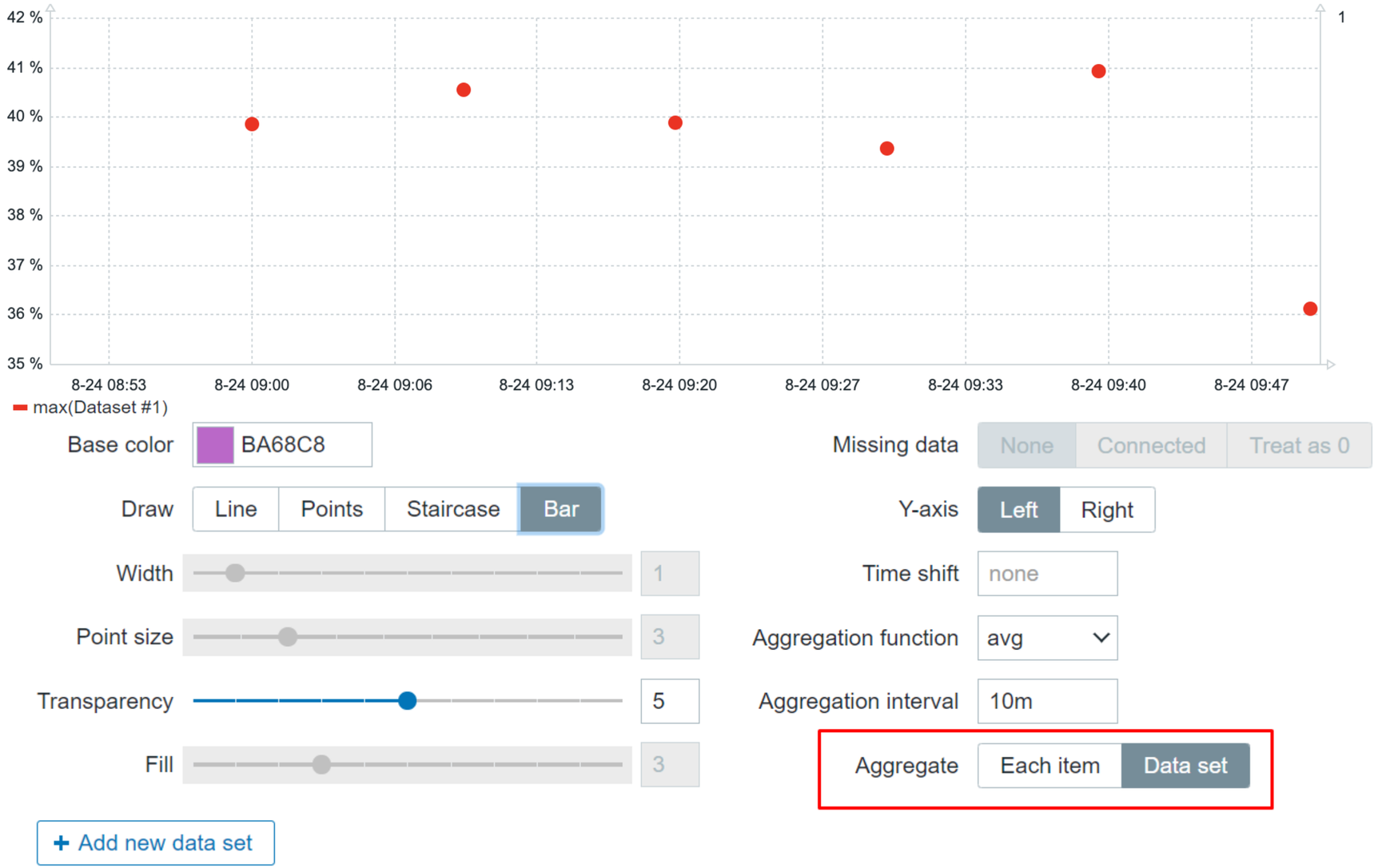
Aggregation interval 10m

Aggregate: Each item | Data set

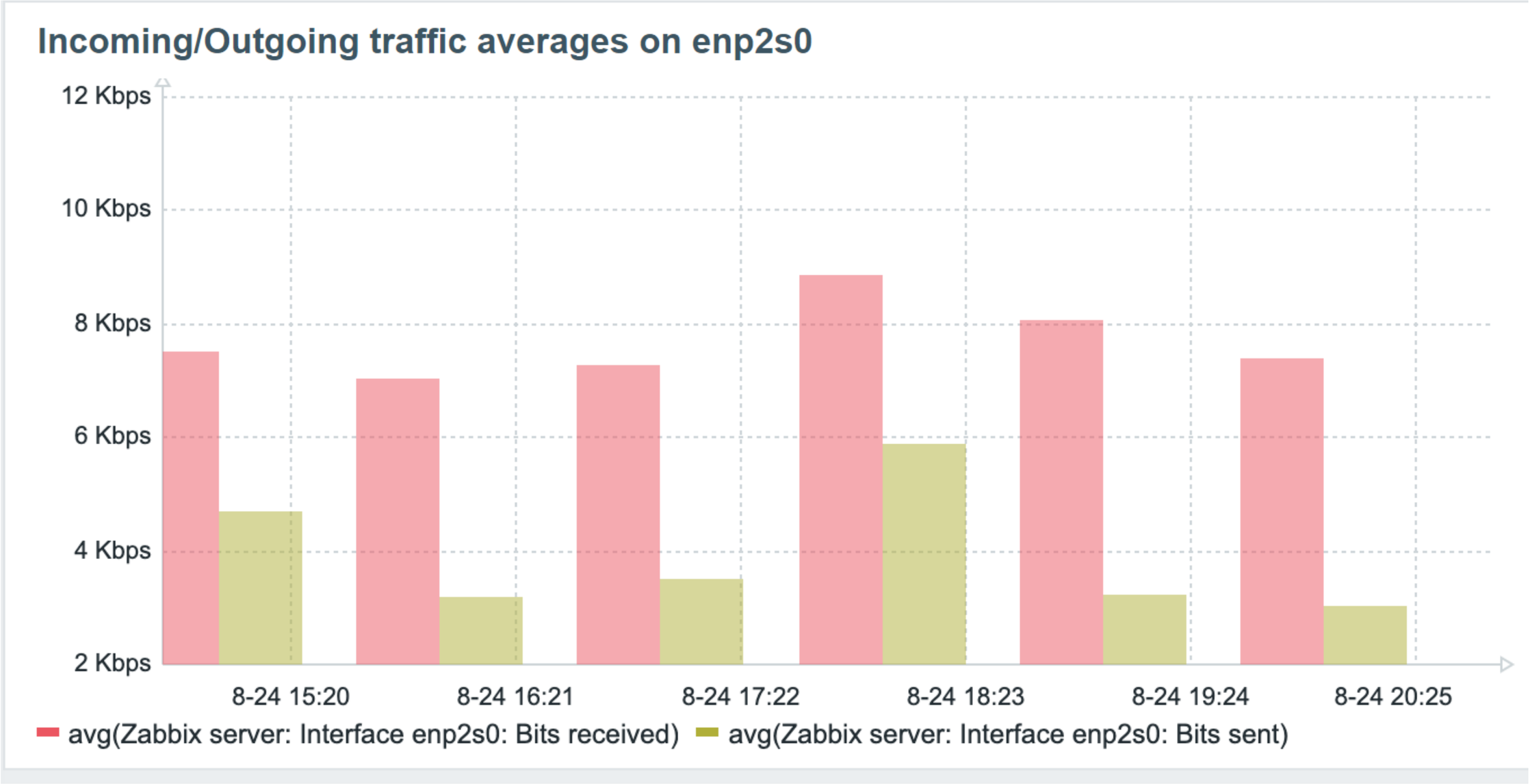
AGGREGATION – FUNCTIONS



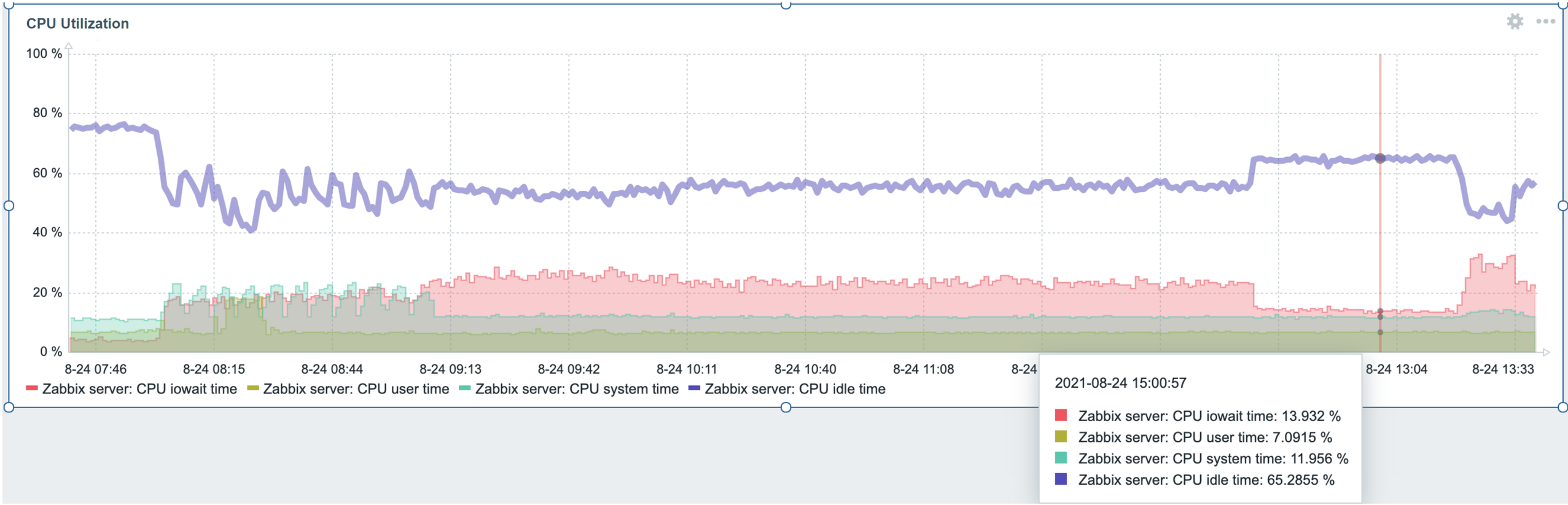
AGGREGATION – DATA SET



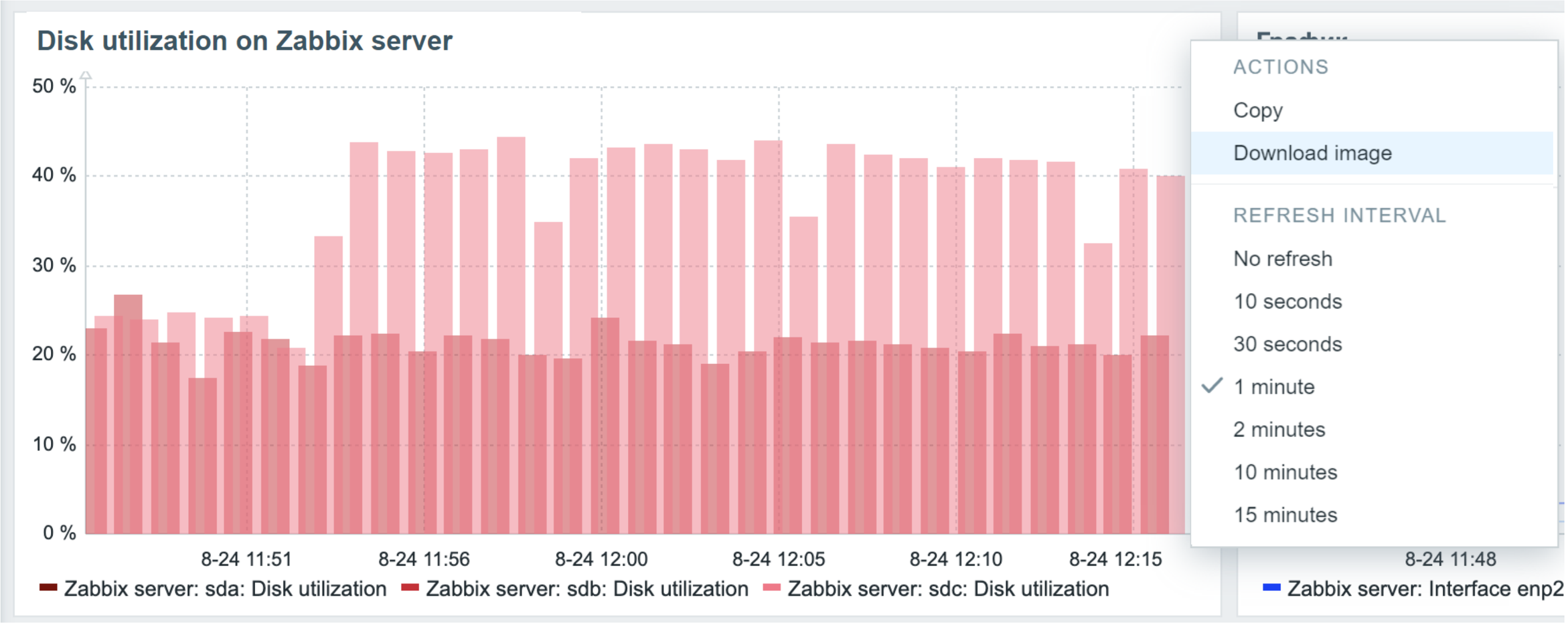
АГРЕГАЦИЯ – НАБОР ДАННЫХ



MULTIPLE DATA SETS



DOWNLOAD THE GRAPH



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QUESTIONS?

ALEKSANDRS PETROVS-GAVRILOVS
TECHNICAL SUPPORT ENGINEER
ZABBIX

ZABBIX

THANK YOU!

ALEKSANDRS PETROVS-GAVRILOVS
TECHNICAL SUPPORT ENGINEER
ZABBIX