

Retrieve a new value for this item every N seconds:

- → Minimum update interval is 1 second
- Maximum allowed update interval is 1 day
- ♣ Time suffixes are supported, e.g., 30s, 1m, 2h, 1d
- → A user macro can be used in this field
- ◆ Defaults to seconds if a suffix is not used (600 = 10m)
- ◆Can be set to 0 (never checked) if a custom interval exists with a non-zero value

Update interval cannot be set for the following item types:

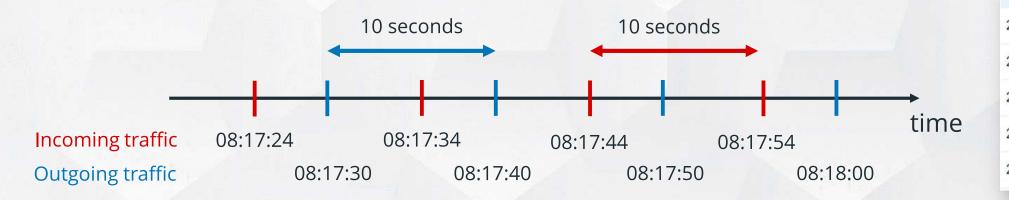
- ♣ Zabbix trapper
- ◆SNMP trapper
- ♣ Dependent items

Update interval specifies the time between item checks:

- ♣ All checks are distributed equally over time
- ♣ This design is implemented to avoid data collection spikes

Two items have the same update interval 10 seconds:

- ♣ Incoming traffic is monitored every 04, 14, 24, 34, 44, 54 second
- ◆ Outgoing traffic is monitored every 00, 10, 20, 30, 40, 50 second
- ◆ The next item will have different timings



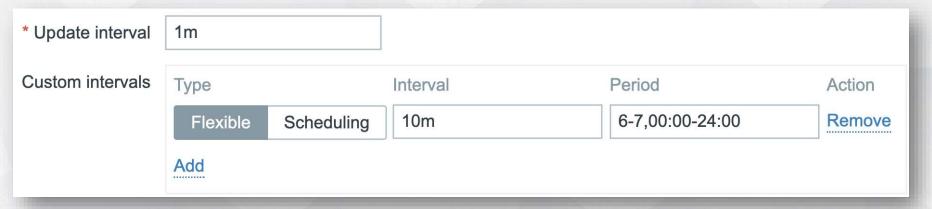
Timestamp	Interface eth0: Incoming traffic	Interface eth0: Outgoing traffic
2021-09-07 08:18:00		1704
2021-09-07 08:17:54	639	
2021-09-07 08:17:50		1427
2021-09-07 08:17:44	809	
2021-09-07 08:17:40		1710
2021-09-07 08:17:34	436	
2021-09-07 08:17:30		1006
2021-09-07 08:17:24	686	

Flexible intervals allow to redefine the default update interval for specific time periods:

- ♣ Interval the update interval for the specified time period
- ♣ Period the time period when the flexible interval is active

Multiple flexible intervals can be defined:

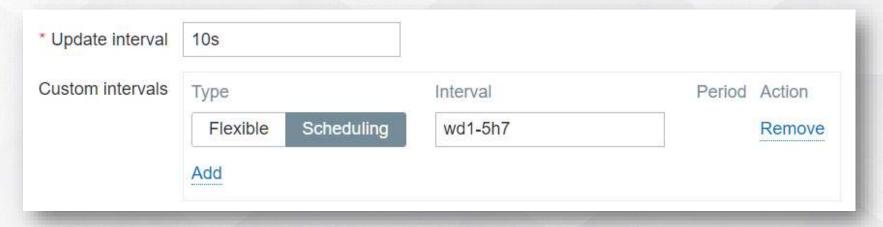
- ◆Outside the flexible intervals the default update interval is used.
- ♣ If multiple intervals overlap, the smallest interval value is used for the overlapping period
- ♣ If the flexible interval is set to '0', the item is not polled during the flexible interval

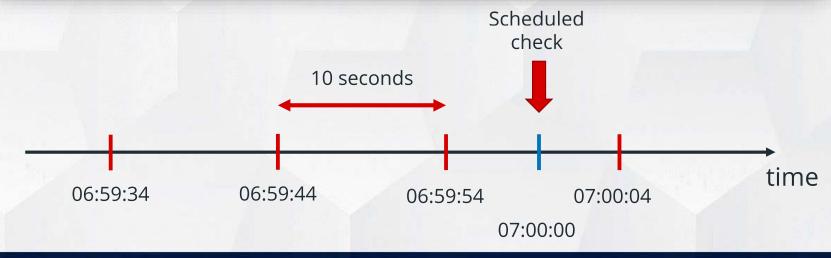




Scheduling intervals are used to additionally check items at specific times:

- ♣ Independent checking schedule, which is executed in parallel to "Update interval" checks
- ♣ If update interval is set to 0, only scheduled checks will be executed





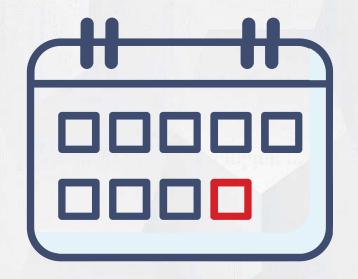
A scheduling interval is defined as:

md<filter>wd<filter>h<filter>m<filter>s<filter>

✓ md	month days	1-31
✓ wd	week days	1-7
√ h	hours	0-23
✓ m	minutes	0-59

seconds

0 - 59



Examples:

√ S

- → wd1-5h9 every Monday till Friday at 9:00
- → h9m/30;h10 execute at 9:00, 9:30, 10:00
- → h9-10m10-40/30 execute at 9:10, 9:40, 10:10, 10:40
- md1wd1h9m30 every 1st day of each month at 9:30 if it is Monday

Massive use of scheduled items can cause big spikes on monitored environment!

Custom intervals can be used:

- ♣ For all passive checks
- ♣ As active checks only for Zabbix agent 2

Update interval, flexible intervals and scheduled checks can be combined:

- ♣ Update interval 0 is supported only in the combination with Custom intervals
- ♣ Flexible intervals will override update interval
- ◆Scheduled checks will be executed in addition to update/flexible intervals



Pressing Execute now will perform an extra item check on demand:

- ◆ The actual data collection may be slightly delayed (a few seconds) after pressing the button
- ◆ The value will be collected and processed as usual
- → Will work locally or through active/passive proxies
- Can be executed for multiple items at once
- ♣ Active items (Zabbix agent active, trapper, etc.) cannot be forcibly executed
- → Status of the execution request will be reported (This does not mean successful execution!)



PRACTICAL SETUP

Define flexible update intervals for the CPU load item

✓ Nighttime (00:00 - 06:00)

once per minute

✓ Weekends (Saturday, Sunday)

once per 5 minutes

Create a new item to monitor swapped in pages with scheduled interval

✓ Once per hour exactly at the beginning of the hour