

Новые шаблоны IPMI, MikroTik, Microsoft SQL

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ZABBIX Инженер команды интеграции

Template Server Chassis by IPMI

ZABBIX

Zabbix 5.0 - ipmi.get, JSONPath, Overrides

Items										
All hosts / ipmi Enabled ZBX SNMP JMX IPMI Applications 10 Items 54 Triggers 54 Graphs 29 Discovery rules 2 Web scenarios										
Wizard	Name ▲	Triggers	Key	Interval	History	Trends	Type	Applications	Status	Info
☐	*** Template Server Chassis by IPMI: Get IPMI sensors		ipmi.get	1m	0		IPMI agent	Zabbix raw items	Enabled	
☐	Threshold sensors discovery: Get IPMI sensors: IPMI: 01-Inlet Ambient, C	Triggers 2	ipmi.value[01-Inlet Ambient]		7d	365d	Dependent item	IPMI temperature	Enabled	
☐	Threshold sensors discovery: Get IPMI sensors: IPMI: 02-CPU 1, C	Triggers 1	ipmi.value[02-CPU 1]		7d	365d	Dependent item	IPMI temperature	Enabled	
☐	Threshold sensors discovery: Get IPMI sensors: IPMI: 04-P1 DIMM 1-6, C	Triggers 1	ipmi.value[04-P1 DIMM 1-6]		7d	365d	Dependent item	IPMI temperature	Enabled	
☐	Threshold sensors discovery: Get IPMI sensors: IPMI: 05-P1 DIMM 7-12, C	Triggers 1	ipmi.value[05-P1 DIMM 7-12]		7d	365d	Dependent item	IPMI temperature	Enabled	
☐	Threshold sensors discovery: Get IPMI sensors: IPMI: 08-HD Max, C	Triggers 1	ipmi.value[08-HD Max]		7d	365d	Dependent item	IPMI temperature	Enabled	
☐	Threshold sensors discovery: Get IPMI sensors: IPMI: 10-Chipset, C	Triggers 1	ipmi.value[10-Chipset]		7d	365d	Dependent item	IPMI temperature	Enabled	
☐	Threshold sensors discovery: Get IPMI sensors: IPMI: 11-PS 1 Inlet, C		ipmi.value[11-PS 1 Inlet]		7d	365d	Dependent item	IPMI temperature	Enabled	
☐	Threshold sensors discovery: Get IPMI sensors: IPMI: 13-VR P1, C	Triggers 2	ipmi.value[13-VR P1]		7d	365d	Dependent item	IPMI temperature	Enabled	
☐	Threshold sensors discovery: Get IPMI sensors: IPMI: 15-VR P1 Mem, C	Triggers 2	ipmi.value[15-VR P1 Mem]		7d	365d	Dependent item	IPMI temperature	Enabled	
☐	Threshold sensors discovery: Get IPMI sensors: IPMI: 16-VR P1 Mem, C	Triggers 2	ipmi.value[16-VR P1 Mem]		7d	365d	Dependent item	IPMI temperature	Enabled	
☐	Threshold sensors discovery: Get IPMI sensors: IPMI: 19-PS 1 Internal, C		ipmi.value[19-PS 1 Internal]		7d	365d	Dependent item	IPMI temperature	Enabled	
☐	Threshold sensors discovery: Get IPMI sensors: IPMI: 24-HD Controller, C	Triggers 1	ipmi.value[24-HD Controller]		7d	365d	Dependent item	IPMI temperature	Enabled	
☐	Threshold sensors discovery: Get IPMI sensors: IPMI: 27-Front Ambient, C	Triggers 1	ipmi.value[27-Front Ambient]		7d	365d	Dependent item	IPMI temperature	Enabled	
☐	Threshold sensors discovery: Get IPMI sensors: IPMI: 28-P/S 2 Zone, C	Triggers 1	ipmi.value[28-P/S 2 Zone]		7d	365d	Dependent item	IPMI temperature	Enabled	
☐	Threshold sensors discovery: Get IPMI sensors: IPMI: 29-Battery Zone, C	Triggers 2	ipmi.value[29-Battery Zone]		7d	365d	Dependent item	IPMI temperature	Enabled	
☐	Threshold sensors discovery: Get IPMI sensors: IPMI: 30-I/O Zone, C	Triggers 2	ipmi.value[30-I/O Zone]		7d	365d	Dependent item	IPMI temperature	Enabled	
☐	Threshold sensors discovery: Get IPMI sensors: IPMI: 31-PCI 1 Zone, C	Triggers 2	ipmi.value[31-PCI 1 Zone]		7d	365d	Dependent item	IPMI temperature	Enabled	
☐	Threshold sensors discovery: Get IPMI sensors: IPMI: 32-PCI 2 Zone, C	Triggers 2	ipmi.value[32-PCI 2 Zone]		7d	365d	Dependent item	IPMI temperature	Enabled	
☐	Threshold sensors discovery: Get IPMI sensors: IPMI: 34-HD Cntrlr Zone, C	Triggers 2	ipmi.value[34-HD Cntrlr Zone]		7d	365d	Dependent item	IPMI temperature	Enabled	
☐	Threshold sensors discovery: Get IPMI sensors: IPMI: 35-I/O Zone, C	Triggers 2	ipmi.value[35-I/O Zone]		7d	365d	Dependent item	IPMI temperature	Enabled	

```
{
  "id": "10-Chipset",
  "name": "(66.1).10-Chipset",
  "sensor": {
    "type": 1,
    "text": "temperature"
  },
  "reading": {
    "type": 1,
    "text": "threshold"
  },
  "state": {
    "state": 0,
    "text": ""
  },
  "value": 32.000000,
  "units": "C",
  "threshold": {
    "low": {
      "non_crit": "",
      "crit": "",
      "non_recover": ""
    },
    "up": {
      "non_crit": "",
      "crit": 105.000000,
      "non_recover": ""
    }
  }
},
}
```

☐	Information	OK	Discrete sensors discovery: IPMI: Fans value has changed	{ipmi:ipmi.state_text[Fans].diff()=1}	Enabled
☐	Information	OK	Discrete sensors discovery: IPMI: Megacell Status value has changed	{ipmi:ipmi.state_text[Megacell Status].diff()=1}	Enabled
☐	Information	OK	Discrete sensors discovery: IPMI: Memory Status value has changed	{ipmi:ipmi.state_text[Memory Status].diff()=1}	Enabled
☐	Information	OK	Discrete sensors discovery: IPMI: Power Meter value has changed	{ipmi:ipmi.state_text[Power Meter].diff()=1}	Enabled
☐	Information	OK	Discrete sensors discovery: IPMI: Power Supplies value has changed	{ipmi:ipmi.state_text[Power Supplies].diff()=1}	Enabled
☐	Information	OK	Discrete sensors discovery: IPMI: Power Supply 1 value has changed	{ipmi:ipmi.state_text[Power Supply 1].diff()=1}	Enabled
☐	High	OK	Threshold sensors discovery: IPMI: PS 1 Output value is above critical high (greater than {#SENSOR_HI_CRIT} for 5m) Depends on: ipmi: IPMI: PS 1 Output value is above non-recoverable high (greater than {#SENSOR_HI_DISAST} for 5m)	{ipmi:ipmi.value[PS 1 Output].min(5m)}>{#SENSOR_HI_CRIT}	Unknown
☐	Warning	OK	Threshold sensors discovery: IPMI: PS 1 Output value is above non-critical high (greater than {#SENSOR_HI_WARN} for 5m) Depends on: ipmi: IPMI: PS 1 Output value is above critical high (greater than {#SENSOR_HI_CRIT} for 5m) ipmi: IPMI: PS 1 Output value is above non-recoverable high (greater than {#SENSOR_HI_DISAST} for 5m)	{ipmi:ipmi.value[PS 1 Output].min(5m)}>{#SENSOR_HI_WARN}	Unknown
☐	Disaster	OK	Threshold sensors discovery: IPMI: PS 1 Output value is above non-recoverable high (greater than {#SENSOR_HI_DISAST} for 5m)	{ipmi:ipmi.value[PS 1 Output].min(5m)}>{#SENSOR_HI_DISAST}	Unknown
☐	High	OK	Threshold sensors discovery: IPMI: PS 1 Output value is below critical low (less than {#SENSOR_LO_CRIT} for 5m) Depends on: ipmi: IPMI: PS 1 Output value is below non-recoverable low (less than {#SENSOR_LO_DISAST} for 5m)	{ipmi:ipmi.value[PS 1 Output].min(5m)}<{#SENSOR_LO_CRIT}	Unknown
☐	Warning	OK	Threshold sensors discovery: IPMI: PS 1 Output value is below non-critical low (less than {#SENSOR_LO_WARN} for 5m) Depends on: ipmi: IPMI: PS 1 Output value is below critical low (less than {#SENSOR_LO_CRIT} for 5m) ipmi: IPMI: PS 1 Output value is below non-recoverable low (less than {#SENSOR_LO_DISAST} for 5m)	{ipmi:ipmi.value[PS 1 Output].min(5m)}<{#SENSOR_LO_WARN}	Unknown
☐	Disaster	OK	Threshold sensors discovery: IPMI: PS 1 Output value is below non-recoverable low (less than {#SENSOR_LO_DISAST} for 5m)	{ipmi:ipmi.value[PS 1 Output].min(5m)}<{#SENSOR_LO_DISAST}	Unknown
☐	Information	OK	Discrete sensors discovery: IPMI: PS 1 Presence value has changed	{ipmi:ipmi.state_text[PS 1 Presence].diff()=1}	Enabled
☐	Information	OK	Discrete sensors discovery: IPMI: PS 2 Presence value has changed	{ipmi:ipmi.state_text[PS 2 Presence].diff()=1}	Enabled
☐	High	OK	Threshold sensors discovery: IPMI: PwrMeter Output value is above critical high (greater than {#SENSOR_HI_CRIT} for 5m) Depends on: ipmi: IPMI: PwrMeter Output value is above non-recoverable high (greater than {#SENSOR_HI_DISAST} for 5m)	{ipmi:ipmi.value[PwrMeter Output].min(5m)}>{#SENSOR_HI_CRIT}	Enabled
☐	Warning	OK	Threshold sensors discovery: IPMI: PwrMeter Output value is above non-critical high (greater than {#SENSOR_HI_WARN} for 5m) Depends on: ipmi: IPMI: PwrMeter Output value is above critical high (greater than {#SENSOR_HI_CRIT} for 5m) ipmi: IPMI: PwrMeter Output value is above non-recoverable high (greater than {#SENSOR_HI_DISAST} for 5m)	{ipmi:ipmi.value[PwrMeter Output].min(5m)}>{#SENSOR_HI_WARN}	Enabled

Invalid expression [{23762}>{#SENSOR_HI_WARN}]

Discovery rules

All templates / Template Server Chassis by IPMI / Discovery list / Threshold sensors discovery / Item prototypes 1 / Trigger prototypes 6 / Graph prototypes 1 / Host prototypes

Discovery rule / Preprocessing / LLD macros / Filters / Overrides



Overrides

	Name	Stop processing	Action
1:	trigger SENSOR_LO_WARN	No	Remove
2:	trigger SENSOR_LO_CRIT	No	Remove
3:	trigger SENSOR_LO_DISAST	No	Remove
4:	trigger SENSOR_HI_WARN	No	Remove
5:	trigger SENSOR_HI_CRIT	No	Remove
6:	trigger SENSOR_HI_DISAST	No	Remove
	Add		

Update

Clone

Test

Delete

Cancel

Discovery rules

All templates / Template Server

Discovery rule / Preprocessing

Override

Override

* Name

If filter matches

Filters

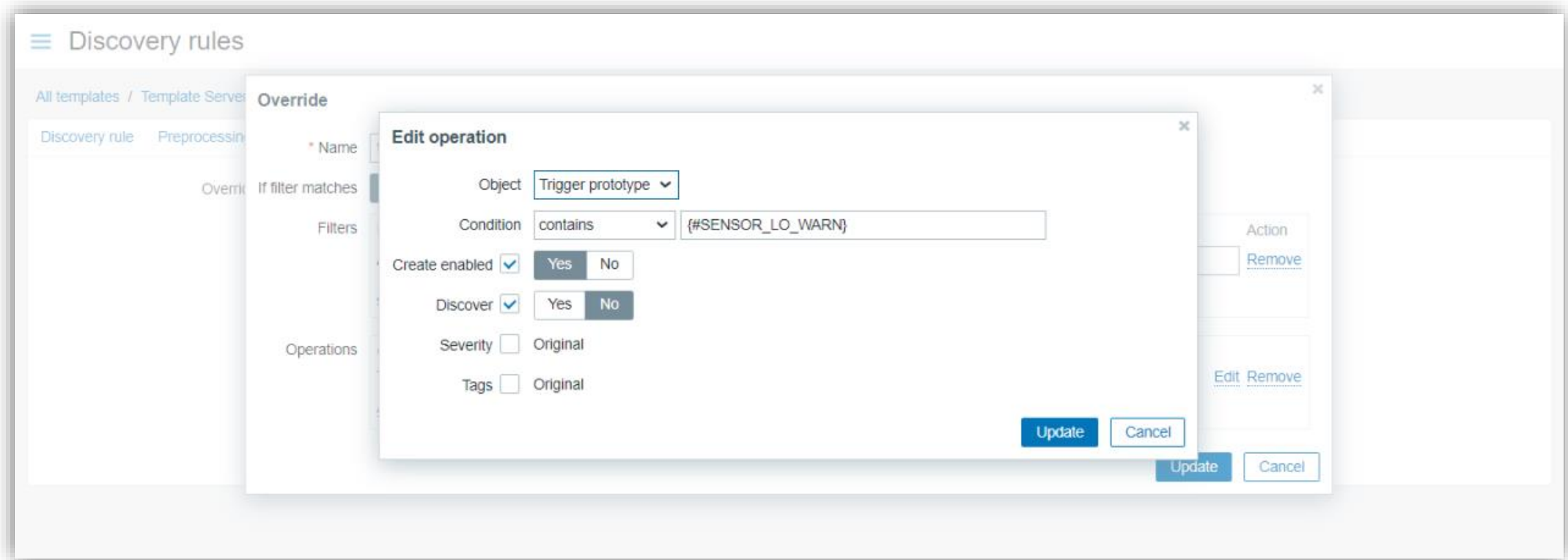
Label	Macro		Regular expression	Action
A	{#MACRO}	matches v	regular expression	Remove
	Add			

Operations

Condition	
Trigger prototype contains {#SENSOR_LO_WARN}	Edit Remove
Add	

Update

Cancel



Discovery rules

Create discovery rule

All hosts / ipmi Enabled ZBX SNMP JMX IPMI Applications 10 Items 54 Triggers 54 Graphs 29 Discovery rules 2 Web scenarios

Filter

Host groups

Select

Hosts

Select

Name

Key

Type
all

State
all

Update interval

Status
all

Keep lost resources period

Apply

Reset

☐	Host	Name	Items	Triggers	Graphs	Hosts	Key	Interval	Type	Status	Info
☐	ipmi	Template Server Chassis by IPMI: Get IPMI sensors: Discrete sensors discovery	Item prototypes 1	Trigger prototypes 1	Graph prototypes	Host prototypes	ipmi.discrete.discovery		Dependent item	Enabled	
☐	ipmi	Template Server Chassis by IPMI: Get IPMI sensors: Threshold sensors discovery	Item prototypes 1	Trigger prototypes 6	Graph prototypes 1	Host prototypes	ipmi.sensors.discovery		Dependent item	Enabled	

0 selected

Enable

Disable

Execute now

Delete



Cannot create dependency on trigger "IPMI: 37-Fuse value is above critical high (greater than 100.000000 for 5m)".

Cannot create dependency on trigger "IPMI: 36-Storage Batt value is above critical high (greater than 60.000000 for 5m)".

Cannot create dependency on trigger "IPMI: 28-P/S 2 Zone value is above critical high (greater than 75.000000 for 5m)".

Cannot create dependency on trigger "IPMI: 27-Front Ambient value is above critical high (greater than 65.000000 for 5m)".

Cannot create dependency on trigger "IPMI: 24-HD Controller value is above critical high (greater than 100.000000 for 5m)".

Cannot create dependency on trigger "IPMI: 10-Chipset value is above critical high (greater than 105.000000 for 5m)".

Cannot create dependency on trigger "IPMI: 08-HD Max value is above critical high (greater than 60.000000 for 5m)".

Cannot create dependency on trigger "IPMI: 05-P1 DIMM 7-12 value is above critical high (greater than 89.000000 for 5m)".

Cannot create dependency on trigger "IPMI: 04-P1 DIMM 1-6 value is above critical high (greater than 89.000000 for 5m)".

Cannot create dependency on trigger "IPMI: 02-CPU 1 value is above critical high (greater than 70.000000 for 5m)".

Template Net Mikrotik SNMP

ZABBIX

Discovery rules

Create discovery rule

All templates / Template Net Mikrotik SNMP Applications 10 Items 19 Triggers 10 Graphs 1 Screens Discovery rules 7 Web scenarios Filter

☐	Host	Name ▲	Items	Triggers	Graphs	Hosts	Key	Interval	Type	Status	Info
☐	Template Net Mikrotik SNMP	AP channel discovery	Item prototypes 5	Trigger prototypes	Graph prototypes	Host prototypes	mtxrVIAp.discovery	1h	SNMP agent	Enabled	
☐	Template Net Mikrotik SNMP	CAPsMAN AP channel discovery	Item prototypes 4	Trigger prototypes 1	Graph prototypes	Host prototypes	mtxrWICMChannel.discovery	1h	SNMP agent	Enabled	
☐	Template Net Mikrotik SNMP	CPU discovery	Item prototypes 1	Trigger prototypes 1	Graph prototypes 1	Host prototypes	hrProcessorLoad.discovery	1h	SNMP agent	Enabled	
☐	Template Net Mikrotik SNMP	Template Module Interfaces SNMP: Network interfaces discovery	Item prototypes 9	Trigger prototypes 4	Graph prototypes 1	Host prototypes	net.if.discovery	1h	SNMP agent	Enabled	
☐	Template Net Mikrotik SNMP	Storage discovery	Item prototypes 3	Trigger prototypes 2	Graph prototypes 1	Host prototypes	storage.discovery	1h	SNMP agent	Enabled	
☐	Template Net Mikrotik SNMP	Temperature CPU discovery	Item prototypes 1	Trigger prototypes 3	Graph prototypes	Host prototypes	mtxrHIProcessorTemperature.discovery	1h	SNMP agent	Enabled	
☐	Template Net Mikrotik SNMP	Temperature sensor discovery	Item prototypes 1	Trigger prototypes 3	Graph prototypes	Host prototypes	mtxrHITemperature.discovery	1h	SNMP agent	Enabled	

Displaying 7 of 7 found

0 selected Enable Disable Execute now Delete

Item prototypes

[Create item prototype](#)

[All templates](#) / [Template Net Mikrotik SNMP](#) / [Discovery list](#) / [CAPsMAN AP channel discovery](#) / **Item prototypes 4** / [Trigger prototypes 1](#) / [Graph prototypes](#) / [Host prototypes](#)

☐	Wizard	Name ▲	Key	Interval	History	Trends	Type	Applications	Create enabled	Discover
☐	...	Interface {#IFNAME}({#FALIAS}): AP authenticated clients	ssid.authclient[mtxrWICMAuthClientCount.{#SNMPINDEX}]	1m	7d	365d	SNMP agent		Yes	Yes
☐	...	Interface {#IFNAME}({#FALIAS}): AP channel	ssid.channel[mtxrWICMChannel.{#SNMPINDEX}]	1m	7d		SNMP agent		Yes	Yes
☐	...	Interface {#IFNAME}({#FALIAS}): AP registered clients	ssid.regclient[mtxrWICMRegClientCount.{#SNMPINDEX}]	1m	7d	365d	SNMP agent		Yes	Yes
☐	...	Interface {#IFNAME}({#FALIAS}): AP state	ssid.state[mtxrWICMState.{#SNMPINDEX}]	1m	7d		SNMP agent		Yes	Yes

Displaying 4 of 4 found

0 selected

[Create enabled](#)[Create disabled](#)[Mass update](#)[Delete](#)

Trigger prototypes

[Create trigger prototype](#)

[All templates](#) / [Template Net Mikrotik SNMP](#) / [Discovery list](#) / [CAPsMAN AP channel discovery](#) / [Item prototypes 4](#) / **Trigger prototypes 1** / [Graph prototypes](#) / [Host prototypes](#)

☐	Severity	Name ▲	Operational data	Expression	Create enabled	Discover	Tags
☐	Warning	Interface {#IFNAME}({#FALIAS}): AP interface {#IFNAME}({#FALIAS}) is not running		{Template Net Mikrotik SNMP:ssid.state[mtxrWICMState.{#SNMPINDEX}].last()}<>"running-ap"	Yes	Yes	

Displaying 1 of 1 found

0 selected

[Create enabled](#)[Create disabled](#)[Mass update](#)[Delete](#)



Filter

☐ Host	Name ▲	Last check	Last value	Change	
▶ RT3-MT-WIFI-cAPsMAN	Interface RT3-MT-WIFI-cAPsMAN-5Ghz_40ch() (displaying 7 to 13 of 13 Items)				
▶ RT3-MT-WIFI-cAPsMAN	Interface RT4-MT-WIFI-cAP2-2.4Ghz_6ch() (13 Items)				
▼ RT3-MT-WIFI-cAPsMAN	Interface RT4-MT-WIFI-cAP2-5Ghz_44ch() (13 Items)				
☐	Interface RT4-MT-WIFI-cAP2-5Ghz_44ch(): AP authenticated clients	2020-08-27 14:46:15	7	+1	Graph
☐	Interface RT4-MT-WIFI-cAP2-5Ghz_44ch(): AP channel	2020-08-27 14:22:15	5220/20-Ce/ac/P(23dBm)		History
☐	Interface RT4-MT-WIFI-cAP2-5Ghz_44ch(): AP registered clients	2020-08-27 14:46:15	7	+1	Graph
☐	Interface RT4-MT-WIFI-cAP2-5Ghz_44ch(): AP state	2020-08-27 14:22:15	running-ap		History
☐	Interface RT4-MT-WIFI-cAP2-5Ghz_44ch(): Bits received	2020-08-27 14:46:16	52.9 Kbps	-18.85 Kbps	Graph
☐	Interface RT4-MT-WIFI-cAP2-5Ghz_44ch(): Bits sent	2020-08-27 14:46:16	1.04 Mbps	+317.41 Kbps	Graph
☐	Interface RT4-MT-WIFI-cAP2-5Ghz_44ch(): Inbound packets discarded	2020-08-27 14:46:16	0		Graph
☐	Interface RT4-MT-WIFI-cAP2-5Ghz_44ch(): Inbound packets with errors	2020-08-27 14:46:16	0		Graph
☐	Interface RT4-MT-WIFI-cAP2-5Ghz_44ch(): Interface type	2020-08-27 14:22:15	other (1)		Graph
☐	Interface RT4-MT-WIFI-cAP2-5Ghz_44ch(): Operational status	2020-08-27 14:46:16	up (1)		Graph
☐	Interface RT4-MT-WIFI-cAP2-5Ghz_44ch(): Outbound packets discarded	2020-08-27 14:46:16	0		Graph
☐	Interface RT4-MT-WIFI-cAP2-5Ghz_44ch(): Outbound packets with errors	2020-08-27 14:46:16	0		Graph
☐	Interface RT4-MT-WIFI-cAP2-5Ghz_44ch(): Speed	2020-08-27 14:22:15	0 bps		Graph
▶ RT3-MT-WIFI-cAPsMAN	Interface RT5-MT-WIFI-cAP2-2.4Ghz_1ch() (13 Items)				
▶ RT3-MT-WIFI-cAPsMAN	Interface RT5-MT-WIFI-cAP2-5Ghz_36ch() (displaying 1 to 4 of 13 Items)				



Item prototypes

Create item prototype

All templates / Template Net Mikrotik SNMP / Discovery list / AP channel discovery / Item prototypes 5 / Trigger prototypes / Graph prototypes / Host prototypes

☐	Wizard	Name ▲	Key	Interval	History	Trends	Type	Applications	Create enabled	Discover
☐	...	Interface {#IFNAME}({#FALIAS}): AP authenticated clients	ssid.authclient[mtxrWIApAuthClientCount.{#SNMPINDEX}]	1m	7d	365d	SNMP agent		Yes	Yes
☐	...	Interface {#IFNAME}({#FALIAS}): AP band	ssid.band[mtxrWIApBand.{#SNMPINDEX}]	1m	7d		SNMP agent		Yes	Yes
☐	...	Interface {#IFNAME}({#FALIAS}): AP noise floor	ssid.noise[mtxrWIApNoiseFloor.{#SNMPINDEX}]	1m	7d	365d	SNMP agent		Yes	Yes
☐	...	Interface {#IFNAME}({#FALIAS}): AP registered clients	ssid.regclient[mtxrWIApClientCount.{#SNMPINDEX}]	1m	7d	365d	SNMP agent		Yes	Yes
☐	...	Interface {#IFNAME}({#FALIAS}): SSID	ssid.name[mtxrWIApSsid.{#SNMPINDEX}]	1m	7d		SNMP agent		Yes	Yes

Displaying 5 of 5 found

0 selected
Create enabled
Create disabled
Mass update
Delete

Item prototypes

Create item prototype

All templates / Template Net Mikrotik SNMP / Discovery list / Temperature sensor discovery / Item prototypes 1 / Trigger prototypes 3 / Graph prototypes / Host prototypes

☐	Wizard	Name ▲	Key	Interval	History	Trends	Type	Applications	Create enabled	Discover
☐	...	Device: Temperature	sensor.temp.value[mtxrHITemperature.{#SNMPINDEX}]	3m	90d	365d	SNMP agent	Temperature	Yes	Yes

Displaying 1 of 1 found

0 selected
Create enabled
Create disabled
Mass update
Delete

- Поддержка инстансов на Unix, Windows
- Совместимость с SQL Server 2016 и выше
- Минимальное число обращений к СУБД
- Метрики:
 - Доступность, версия, время работы
 - Количество операций в секунду
 - Счетчики запросов, блокировок, ошибок
 - Размеры баз данных
 - Состояние репликации



Установка и настройка

1. odbc.ini

[<DSN>]

Driver = ODBC Driver 17 for SQL Server

Server = <IP или FQDN>, <TCP порт>

2. Макро

{MSSQL.DSN} = <...>

{MSSQL.USER} = <...>

{MSSQL.PASSWORD} = <...>

{MSSQL.PORT} = 1433

{MSSQL.INSTANCE} = SQLServer или MSSQL\$<имя инстанса>



Items

[Create item](#)

All templates / Template DB MSSQL by ODBC Applications 2 Items 67 Triggers 24 Graphs 17 Screens Discovery rules 6 Web scenarios

Filter 

☐	Wizard	Name ▲	Triggers	Key	Interval	History	Trends	Type	Applications	Status	Info
☐	...	MSSQL: Get performance counters: MSSQL: Auto-param attempts per second		mssql.autoparam_attempts_sec.rate		7d	365d	Dependent item	MSSQL	Enabled	
☐	...	MSSQL: Average latch wait time		mssql.average_latch_wait_time	0	7d	365d	Calculated	MSSQL	Enabled	
☐	...	MSSQL: Get performance counters: MSSQL: Average latch wait time base		mssql.average_latch_wait_time_base		7d	365d	Dependent item	Zabbix raw items	Enabled	
☐	...	MSSQL: Get performance counters: MSSQL: Average latch wait time raw		mssql.average_latch_wait_time_raw		7d	365d	Dependent item	Zabbix raw items	Enabled	
☐	...	MSSQL: Get performance counters: MSSQL: Batch requests per second	Triggers 2	mssql.batch_requests_sec.rate		7d	365d	Dependent item	MSSQL	Enabled	
☐	...	MSSQL: Get performance counters: MSSQL: Buffer cache hit ratio	Triggers 2	mssql.buffer_cache_hit_ratio		7d	365d	Dependent item	MSSQL	Enabled	
☐	...	MSSQL: Get performance counters: MSSQL: Cache hit ratio		mssql.cache_hit_ratio		7d	365d	Dependent item	MSSQL	Enabled	
☐	...	MSSQL: Get performance counters: MSSQL: Cache object counts		mssql.cache_object_counts		7d	365d	Dependent item	MSSQL	Enabled	
☐	...	MSSQL: Get performance counters: MSSQL: Cache objects in use		mssql.cache_objects_in_use		7d	365d	Dependent item	MSSQL	Enabled	
☐	...	MSSQL: Get performance counters: MSSQL: Cache pages		mssql.cache_pages		7d	365d	Dependent item	MSSQL	Enabled	
☐	...	MSSQL: Get performance counters: MSSQL: Checkpoint pages per second		mssql.checkpoint_pages_sec.rate		7d	365d	Dependent item	MSSQL	Enabled	
☐	...	MSSQL: Get performance counters: MSSQL: Database pages		mssql.database_pages		7d	365d	Dependent item	MSSQL	Enabled	
☐	...	MSSQL: Get performance counters: MSSQL: Errors per second (DB offline errors)		mssql.offline_errors_sec.rate		7d	365d	Dependent item	MSSQL	Enabled	
☐	...	MSSQL: Get performance counters: MSSQL: Errors per second (Info errors)		mssql.info_errors_sec.rate		7d	365d	Dependent item	MSSQL	Enabled	

Discovery rules

[Create discovery rule](#)

All templates / Template DB MSSQL by ODBC Applications 2 Items 67 Triggers 24 Graphs 17 Screens Discovery rules 6 Web scenarios

Filter 

☐	Host	Name ▲	Items	Triggers	Graphs	Hosts	Key	Interval	Type	Status	Info
☐	Template DB MSSQL by ODBC	Availability groups discovery	Item prototypes 5	Trigger prototypes 4	Graph prototypes	Host prototypes	db.odbc.discovery[availability_groups,"{\$MSSQL.DSN}"]	1h	Database monitor	Enabled	
☐	Template DB MSSQL by ODBC	Database discovery	Item prototypes 14	Trigger prototypes 4	Graph prototypes 3	Host prototypes	db.odbc.discovery[dbname,"{\$MSSQL.DSN}"]	1h	Database monitor	Enabled	
☐	Template DB MSSQL by ODBC	Local database discovery	Item prototypes 4	Trigger prototypes 3	Graph prototypes	Host prototypes	db.odbc.discovery[local_db,"{\$MSSQL.DSN}"]	1h	Database monitor	Enabled	
☐	Template DB MSSQL by ODBC	Mirroring discovery	Item prototypes 6	Trigger prototypes 4	Graph prototypes 1	Host prototypes	db.odbc.discovery[mirrors,"{\$MSSQL.DSN}"]	1h	Database monitor	Enabled	
☐	Template DB MSSQL by ODBC	Non-local database discovery	Item prototypes 3	Trigger prototypes 2	Graph prototypes	Host prototypes	db.odbc.discovery[non-local_db,"{\$MSSQL.DSN}"]	1h	Database monitor	Enabled	
☐	Template DB MSSQL by ODBC	Replication discovery	Item prototypes 8	Trigger prototypes 7	Graph prototypes	Host prototypes	db.odbc.discovery[replicas,"{\$MSSQL.DSN}"]	1h	Database monitor	Enabled	

Displaying 6 of 6 found

0 selected

Enable

Disable

Execute now

Delete

 Zabbix Code Guidelines

guidelines

English

 Recent Changes

Zabbix guidelines

+

 Coding

+

 Naming

Development process

Templates

Webhooks

TEMPLATES



ZABBIX TEMPLATE GUIDELINES

DISCLAIMER

Current document should not be considered as a strict set of rules everybody must follow. Instead, this document only reflects our current approach to template building and any rule or best practice described here may evolve to something else or may be abandoned in the future.

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INTRODUCTION

Zabbix approach to monitoring. Resource vs service

Before we can start talking about what a good template is, let's briefly discuss monitoring in general. As monitoring is such common and ambiguous term and there is no true REC definition of what it is. Some may say that monitoring is when you are constantly looking for mentions about your company on social networks, while others may say it is when you collect sensor readings about your plant soil nutrition and moisture. As Zabbix is the universal monitoring solution, we provide a toolset for any kind of monitoring project. But in this document, we will focus on our views on monitoring services provided by modern distributed systems.



ВОПРОСЫ? СПАСИБО!

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zabbix