

EPAM Systems, RD Dep., RD Dep.

MTN.NIX.05.Zabbix.Items

REVISION HISTORY					
Ver.	Description of Change	Author	Date	Approved	
				Name	Effective Date
1.0	Initial Version	Siarhei Beliakou	23/May/2017		

Task. Items

1. Create item and develop custom trigger for log monitoring (you can use httpd or tomcat logs)

Items

All hosts / Tomcat Enabled ZBX SNMP JMX IPMI Applications 12 Items 50 Triggers 15 Graphs 11 Discovery rules 3 Web scenarios

Item Preprocessing

* Name: My_log

Type: Zabbix agent (active)

* Key: log[/opt/apache-tomcat-8.5.47/logs/catalina.out] Select

Type of information: Log

* Update interval: 10s

* History storage period: Do not keep history Storage period: 90d

Log time format: ppppddhh:mm:ss

New application:

Applications:

- None
- CPU
- Disk sda
- Filesystems
- General
- Inventory
- Memory
- Monitoring agent
- Network interfaces
- Security

Description:

Enabled: ☒

Add Cancel

Zabbix 4.0.0 © 2001-2019, Zabbix SIA

History

Timestamp	Local time	Value
2019-10-21 19:02:40	21-Oct-2019 15:47:02.781	INFO [main] org.apache.catalina.startup.Catalina.start Server startup in 599 ms
2019-10-21 19:02:40	21-Oct-2019 15:47:02.779	INFO [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler ["ajp-nio-8009"]
2019-10-21 19:02:40	21-Oct-2019 15:47:02.773	INFO [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler ["http-nio-8080"]
2019-10-21 19:02:40	21-Oct-2019 15:47:02.771	INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [/opt/apache-tomcat-8.5.47/webapps/manager] has finished in [18] ms
2019-10-21 19:02:40	21-Oct-2019 15:47:02.769	INFO [localhost-startStop-1] org.apache.jasper.servlet.TldScanner.scanJars At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs were found in them. Skipping unneeded JARs during scanning can improve startup time and JSP compilation time.
2019-10-21 19:02:40	21-Oct-2019 15:47:02.754	INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/opt/apache-tomcat-8.5.47/webapps/manager]
2019-10-21 19:02:40	21-Oct-2019 15:47:02.753	INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [/opt/apache-tomcat-8.5.47/webapps/host-manager] has finished in [20] ms
2019-10-21 19:02:40	21-Oct-2019 15:47:02.750	INFO [localhost-startStop-1] org.apache.jasper.servlet.TldScanner.scanJars At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs were found in them. Skipping unneeded JARs during scanning can improve startup time and JSP compilation time.
2019-10-21 19:02:40	21-Oct-2019 15:47:02.733	INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/opt/apache-tomcat-8.5.47/webapps/host-manager]
2019-10-21 19:02:40	21-Oct-2019 15:47:02.731	INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [/opt/apache-tomcat-8.5.47/webapps/examples] has finished in [200] ms
2019-10-21 19:02:40	21-Oct-2019 15:47:02.689	INFO [localhost-startStop-1] org.apache.jasper.servlet.TldScanner.scanJars At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs were found in them. Skipping unneeded JARs during scanning can improve startup time and JSP compilation time.
2019-10-21 19:02:40	21-Oct-2019 15:47:02.531	INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/opt/apache-tomcat-8.5.47/webapps/examples]
2019-10-21 19:02:40	21-Oct-2019 15:47:02.531	INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [/opt/apache-tomcat-8.5.47/webapps/docs] has finished in [16] ms
2019-10-21 19:02:40	21-Oct-2019 15:47:02.530	INFO [localhost-startStop-1] org.apache.jasper.servlet.TldScanner.scanJars At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs were found in them. Skipping unneeded JARs during scanning can improve startup time and JSP compilation time.
2019-10-21 19:02:40	21-Oct-2019 15:47:02.515	INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/opt/apache-tomcat-8.5.47/webapps/docs]
2019-10-21 19:02:40	21-Oct-2019 15:47:02.515	INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [/opt/apache-tomcat-8.5.47/webapps/ROOT] has finished in [25] ms
2019-10-21 19:02:40	21-Oct-2019 15:47:02.513	INFO [localhost-startStop-1] org.apache.jasper.servlet.TldScanner.scanJars At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs were found in them. Skipping unneeded JARs during scanning can improve startup time and JSP compilation time.
2019-10-21 19:02:40	21-Oct-2019 15:47:02.489	INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/opt/apache-tomcat-8.5.47/webapps/ROOT]
2019-10-21 19:02:40	21-Oct-2019 15:47:02.488	INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployWAR Deployment of web application archive [/opt/apache-tomcat-8.5.47/webapps/sample.war] has finished in [261] ms
2019-10-21 19:02:40	21-Oct-2019 15:47:02.448	INFO [localhost-startStop-1] org.apache.jasper.servlet.TldScanner.scanJars At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger

2. Create a trigger for errors in log file monitored by that item

Applications Places Google Chrome

Host groups Templates Hosts Maintenance Actions Event correlation Discovery Services

Items

All hosts / Tomcat Enabled ZBX SNMP JMX IPMI Applications 12 Items 51 Triggers 15 Graphs 11 Discovery rules 3 Web scenarios

Item Preprocessing

* Name

Type

* Key

Type of information

* Update interval

* History storage period

Log time format

New application

Applications

- CPU
- Disk sda
- Filesystems
- General
- Inventory
- Memory
- Monitoring agent
- Network interfaces
- Security

Description

Enabled ☒

Zabbix 4.4.0. © 2001–2019, Zabbix SIA

Applications Places Google Chrome

Host groups Templates Hosts Maintenance Actions Event correlation Discovery Services

Triggers

All hosts / Tomcat Enabled ZBX SNMP JMX IPMI Applications 12 Items 51 Triggers 15 Graphs 11 Discovery rules 3 Web scenarios

Trigger Tags Dependencies

* Name

Operational data

Severity

* Expression

Expression constructor

OK event generation

PROBLEM event generation mode

OK event closes

Allow manual close ☐

URL

Description

Enabled ☒

Zabbix 4.4.0. © 2001–2019, Zabbix SIA

The screenshot displays the Zabbix 4.4.0 web interface. The top navigation bar includes 'Monitoring', 'Inventory', 'Reports', 'Configuration', and 'Administration'. The 'Problems' page is active, showing a table of problems. The table has columns: Time, Severity, Recovery time, Status, Info, Host, Problem, Duration, Ack, Actions, and Tags. A single problem is listed: 'Tomcat' host, 'Tomcat_error' problem, '1m 3s' duration, 'No' acknowledgment. The bottom of the page shows the Zabbix 4.4.0 version and copyright information.

Assuming we have 2 servers (VMs) – ZabbixServer and Tomcat,
Configure:

1. Simple checks:
 - Zabbix Server WEB availability (80)

- Zabbix DB is available (3306)

Applications Places Google Chrome

Почт 3.1.1 Zabbix Apache Ze x 6 Mo 1 Zal 6 Mo Check tomc How G catali G zabbix loggi Error G Zabbix 9. Be G zabbix 9 Пp G zabbix + - x

← → Not secure 192.168.56.111/items.php?form=update&hostid=10084&itemid=30350 ☆

Item Preprocessing

* Name

Type

* Key

* Host interface

Type of information

Units

* Update interval

Custom intervals

Type	Interval	Period	Action
Flexible	Scheduling	50s	1-7.00.00-24.00

[Add](#) [Remove](#)

* History storage period

* Trend storage period

Show value [show value mappings](#)

New application

Applications

- None-
- CPU
- Disk sda
- Filesystem /
- Filesystem /boot
- Filesystems
- General
- Interface eth0
- Interface eth1
- Inventory

Populates host inventory field

Description

Enabled ☒

3.1_Zabbix_1...docx 3.1_Zabbix_It...pdf 2.4_Zabbix_A...pdf 2.4_Zabbix_...docx 2.2_Zabbix_...docx 2.2_Zabbix_WV...pdf Show all x

[Telegram Web - Mo... Zabbix server: Config... Oracle VM VirtualBox... 3.1_Zabbix_Items...ho... [3] [Skype] [02.01.Zabbix] [vagrant@server~] Pictures 1 / 4

Applications Places Google Chrome

Почт 3.1... Zabb... Apac... Z... 6 M... 1 Zai... 6 M... Chec... tom... How... catali... zabb... logg... Error... Zabb... 9. Be... zabb... 9 П... zabb... + -

← → ↻ Not secure | 192.168.56.111/latest.php?ddreset=1

<input type="checkbox"/>	Utilization of preprocessing manager internal processes, in %	2019-10-21 21:16:47	0.0009 %	Graph
<input type="checkbox"/>	Utilization of preprocessing worker internal processes, in %	2019-10-21 21:16:48	0.0056 %	Graph
<input type="checkbox"/>	Utilization of proxy poller data collector processes, in %	2019-10-21 21:16:45	0 %	Graph
<input type="checkbox"/>	Utilization of self-monitoring internal processes, in %	2019-10-21 21:16:46	0 %	Graph
<input type="checkbox"/>	Utilization of snmp trapper data collector processes, in %			Graph
<input type="checkbox"/>	Utilization of task manager internal processes, in %	2019-10-21 21:16:24	0 %	Graph
<input type="checkbox"/>	Utilization of timer internal processes, in %	2019-10-21 21:16:48	0 %	Graph
<input type="checkbox"/>	Utilization of trapper data collector processes, in %	2019-10-21 21:16:49	0 %	Graph
<input type="checkbox"/>	Utilization of unreachable poller data collector processes, in %	2019-10-21 21:16:50	0 %	Graph
<input type="checkbox"/>	Utilization of vmware data collector processes, in %			Graph
<input type="checkbox"/>	Zabbix configuration cache, % used	2019-10-21 21:16:53	9.7909 %	+0.004 % Graph
<input type="checkbox"/>	Zabbix history index cache, % used	2019-10-21 21:16:55	0.2268 %	Graph
<input type="checkbox"/>	Zabbix history write cache, % used	2019-10-21 21:16:54	0 %	Graph
<input type="checkbox"/>	Zabbix LLD queue	2019-10-21 21:16:34	0	Graph
<input type="checkbox"/>	Zabbix preprocessing queue	2019-10-21 21:16:49	0	Graph
<input type="checkbox"/>	Zabbix queue	2019-10-21 21:16:52	0	Graph
<input type="checkbox"/>	Zabbix queue over 10 minutes	2019-10-21 21:07:51	0	Graph
<input type="checkbox"/>	Zabbix trend write cache, % used	2019-10-21 21:16:56	0.4168 %	+0.0021 % Graph
<input type="checkbox"/>	Zabbix value cache, % used	2019-10-21 21:16:40	0.8492 %	-0.0044 % Graph
<input type="checkbox"/>	Zabbix value cache hits	2019-10-21 21:16:45	16.32 vps	+0.0954 vps Graph
<input type="checkbox"/>	Zabbix value cache misses	2019-10-21 21:16:48	0 vps	Graph
<input type="checkbox"/>	Zabbix value cache operating mode	2019-10-21 21:16:22	Normal (0)	Graph
<input type="checkbox"/>	Zabbix vmware cache, % used			Graph
▼ Zabbix server	- other - (1 item)			
<input type="checkbox"/>	zabbix_db_aval	2019-10-21 21:16:50	1	Graph

0 selected Display stacked graph Display graph

Zabbix 4.4.0. © 2001–2019, Zabbix SIA

3.1_Zabbix_L...docx 3.1_Zabbix_It...pdf 2.4_Zabbix_A...pdf 2.4_Zabbix_...docx 2.2_Zabbix_...docx 2.2_Zabbix_W...pdf Show all

1 notification - Mozill... Zabbix server: Latest ... [Oracle VM VirtualBox... 3.1_Zabbix_Items_ho... [3] [Skype] [02.01.Zabbix] [vagrant@server-] Pictures 1/4

Applications Places Google Chrome

Почт 3.1... Zabi... Apac... Z... 6 M... 1 Zai... 6 M... Chec... tom... How... catali... zabb... logg... Error... Zabi... 9. Br... zabb... 9 П... zabb... New Tai... + -

← → ↻ Not secure | 192.168.56.111/history.php?action=showgraph&itemsid[]=30350

ZABBIX Monitoring Inventory Reports Configuration Administration

Dashboard Problems Overview Web Latest data Graphs Screens Maps Discovery Services

Zabbix server: zabbix_db_aval

View as Graph

From now-5m To now Apply

Last 2 days Yesterday Today Last 7 days Day before yesterday Today so far Last 15 minutes Last 30 days This day last week This week Last 30 minutes Last 3 months Previous week This week so far Last 1 hour Last 6 months Previous month This month Last 3 hours Last 1 year Previous year This month so far Last 6 hours Last 2 years This year Last 12 hours This year so far Last 1 day

Zabbix server: zabbix_db_aval

■ zabbix_db_aval [all] last 0 min 0 avg 0.4 max 1

javascript:void(0)

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3.1_Zabbix_L...docx 3.1_Zabbix_It...pdf 2.4_Zabbix_A...pdf 2.4_Zabbix_...docx 2.2_Zabbix_...docx 2.2_Zabbix_W...pdf Show all

[Telegram Web - Mo... Zabbix server: History... [Oracle VM VirtualBox... 3.1_Zabbix_Items_ho... [3] [Skype] [02.01.Zabbix] [vagrant@server-~ Pictures 1/4

Applications Places Google Chrome

Почт | 3.1... | Zabb | Apac | Z: x | 6 M | 1 Za | 6 M | Chec | tom | How | catal | G zabb | logg | Error | G Zabl | 9. B | G zabb | 9 П | G zabb | New Tal | +

← → Not secure | 192.168.56.111/triggers.php?form=update&triggerid=16668

ZABBIX Monitoring Inventory Reports Configuration Administration

Host groups Templates Hosts Maintenance Actions Event correlation Discovery Services Zabbix server

Triggers

All hosts / Zabbix server Enabled **ZBX** SNMP JMX IPMI Applications 18 Items 121 Triggers 64 Graphs 21 Discovery rules 3 Web scenarios 1

Trigger Tags Dependencies

* Name

Operational data

Severity ☐ Not classified ☐ Information ☐ Warning ☐ Average ☒ High ☐ Disaster

* Expression Add

Expression constructor

OK event generation ☐ Expression ☐ Recovery expression ☐ None

PROBLEM event generation mode ☐ Single ☐ Multiple

OK event closes ☐ All problems ☐ All problems if tag values match

Allow manual close ☐

URL

Description

Enabled ☒

Update Clone Delete Cancel

Zabbix 4.4.0. © 2001–2019, Zabbix SIA

3.1_Zabbix_I...docx ^ 3.1_Zabbix_It...pdf ^ 2.4_Zabbix_A...pdf ^ 2.4_Zabbix_...docx ^ 2.2_Zabbix_...docx ^ 2.2_Zabbix_W...pdf ^ Show all x

(Telegram Web - Mo... Zabbix server: Config... [Oracle VM VirtualBox... 3.1_Zabbix_Items...ho... [3] [Skype] [02.01.Zabbix] vagrant@server:~ Pictures 1 / 4

Applications Places Google Chrome

Почт | 3.1... | Zabb | Apac | Z: x | 6 M | 1 Za | 6 M | Chec | tom | How | catal | G zabb | logg | Error | G Zabl | 9. B | G zabb | 9 П | G zabb | New Tal | +

← → Not secure | 192.168.56.111/zabbix.php?action=problem.view&ddreset=1

ZABBIX Monitoring Inventory Reports Configuration Administration

Dashboard Problems Overview Web Latest data Graphs Screens Maps Discovery Services Zabbix server

Problems

Export to CSV

Filter

Show ☒ Recent problems ☐ Problems ☐ History

Host groups Select

Hosts Select

Application Select

Triggers Select

Problem

Minimum severity

Age less than days

Host inventory Type Remove

Tags Contains Equals value Remove

Show tags ☐ None ☐ 1 ☐ 2 ☐ 3 Tag name ☐ Full ☐ Shortened ☐ None

Tag display priority

Show operational data ☐ None ☐ Separately ☐ With problem name

Show suppressed problems ☐ Show unacknowledged only ☐

Compact view ☐ Show timeline ☒

Show details ☐ Highlight whole row ☐

Apply Reset

Time	Severity	Recovery time	Status	Info	Host	Problem	Duration	Ack	Actions	Tags
21:33:50	<input type="checkbox"/> High	21:34:50	RESOLVED		Zabbix server	DB_anav	1m	No		
21:00	<input type="checkbox"/> High		PROBLEM		Tomcat	Tomcat_error	44m 58s	No		

Displaying 2 of 2 found

0 selected Mass update

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3.1_Zabbix_I...docx ^ 3.1_Zabbix_It...pdf ^ 2.4_Zabbix_A...pdf ^ 2.4_Zabbix_...docx ^ 2.2_Zabbix_...docx ^ 2.2_Zabbix_W...pdf ^ Show all x

(Telegram Web - Mo... Zabbix server: Proble... [Oracle VM VirtualBox... 3.1_Zabbix_Items...ho... [3] [Skype] [02.01.Zabbix] vagrant@server:~ Pictures 1 / 4

- Tomcat availability (80, 8080)
 - Tomcat Server is available by ssh (22)
2. Calculated Checks:
- CPU Load per Core (1, 5, 15min)

Applications Places Google Chrome

Not secure | 192.168.56.111/items.php?form=update&hostid=10305&itemid=30377

Item Preprocessing

* Name SUM_15M

Type Calculated

* Key sum_15m

* Formula `last("system.cpu.load[all,avg15]")/last("system.cpu.num")`

Type of information Numeric (float)

Units

* Update interval 1m

Custom intervals

Type	Interval	Period	Action
Flexible	S0s	1-7:00:00-24:00	Remove

Add

* History storage period Do not keep history Storage period 90d

* Trend storage period Do not keep trends Storage period 365d

Show value As is show value mappings

New application

Applications

- None-
- 3.1.Zabbix_It...
- Disk sda
- Filesystems
- General
- Inventory
- Memory
- Monitoring agent
- Network interfaces
- Security

Populates host inventory field -None-

Description

3.1.Zabbix_It...docx 3.1.Zabbix_It...pdf 2.4.Zabbix_A...pdf 2.4.Zabbix_...docx 2.2.Zabbix_...docx 2.2.Zabbix_W...pdf Show all

[Telegram Web - Mo... Zabbix server: Config- [Oracle VM VirtualBox- [3.1.Zabbix_Items.h... [3] [Skype] [02.01.Zabbix] vagrant@server:~ Pictures 1 / 4

Applications Places Google Chrome

Not secure | 192.168.56.111/latest.php?ddreset=1

<input type="checkbox"/>	CPU guest nice time	2019-10-21 22:37:05	0 %		Graph
<input type="checkbox"/>	CPU guest time	2019-10-21 22:37:05	0 %		Graph
<input type="checkbox"/>	CPU idle time	2019-10-21 22:37:05	99.9917 %	+0.0165 %	Graph
<input type="checkbox"/>	CPU interrupt time	2019-10-21 22:37:05	0 %		Graph
<input type="checkbox"/>	CPU iowait time	2019-10-21 22:37:05	0 %		Graph
<input type="checkbox"/>	CPU nice time	2019-10-21 22:37:05	0 %		Graph
<input type="checkbox"/>	CPU softirq time	2019-10-21 22:37:05	0 %		Graph
<input type="checkbox"/>	CPU steal time	2019-10-21 22:37:05	0 %		Graph
<input type="checkbox"/>	CPU system time	2019-10-21 22:37:05	0.0083 %	-0.0082 %	Graph
<input type="checkbox"/>	CPU user time	2019-10-21 22:37:05	0 %	-0.0083 %	Graph
<input type="checkbox"/>	CPU utilization	2019-10-21 22:37:05	0.0083 %	-0.0165 %	Graph
<input type="checkbox"/>	Interrupts per second	2019-10-21 22:37:05	17.4412	-0.6604	Graph
<input type="checkbox"/>	Load average (1m avg)	2019-10-21 22:37:05	0		Graph
<input type="checkbox"/>	Load average (5m avg)	2019-10-21 22:37:05	0.01		Graph
<input type="checkbox"/>	Load average (15m avg)	2019-10-21 22:37:05	0.05		Graph
<input type="checkbox"/>	Number of CPUs	2019-10-21 22:33:05	2		Graph
<input type="checkbox"/>	SUM_1M	2019-10-21 22:37:15	0		Graph
<input type="checkbox"/>	SUM_5M	2019-10-21 22:37:16	0.005		Graph
<input type="checkbox"/>	SUM_15M	2019-10-21 22:37:17	0.025		Graph
▼ Tomcat	Disk sda (6 items)				
<input type="checkbox"/>	sda: Disk average queue size (avgqu-sz)	2019-10-21 22:37:05	0		Graph
<input type="checkbox"/>	sda: Disk read rate	2019-10-21 22:37:05	0 r/s		Graph
<input type="checkbox"/>	sda: Disk read request avg waiting time (r_await)	2019-10-21 22:36:58	0 ms		Graph
<input type="checkbox"/>	sda: Disk utilization	2019-10-21 22:37:05	0 %		Graph
<input type="checkbox"/>	sda: Disk write rate	2019-10-21 22:37:05	0 w/s		Graph
<input type="checkbox"/>	sda: Disk write request avg waiting time (w_await)	2019-10-21 22:37:02	0 ms	-0.3369 ms	Graph
▼ Tomcat	General (8 items)				
<input type="checkbox"/>	Maximum number of open file descriptors				Graph

3.1.Zabbix_It...docx 3.1.Zabbix_It...pdf 2.4.Zabbix_A...pdf 2.4.Zabbix_...docx 2.2.Zabbix_...docx 2.2.Zabbix_W...pdf Show all

[Telegram Web - Mo... Zabbix server: Latest ... [Oracle VM VirtualBox- [3.1.Zabbix_Items.h... [3] [Skype] [02.01.Zabbix] vagrant@server:~ Pictures 1 / 4

Applications Places Google Chrome

192.168.56.111/items.php?form=update&hostid=10305&itemid=30377

Item Preprocessing

* Name

Type

* Key

* Formula

Type of information

Units

* Update interval

Custom intervals

Type	Interval	Period	Action
Flexible	Scheduling	50s	1-7:00:00-24:00

[Add](#) [Remove](#)

* History storage period

* Trend storage period

Show value [show value mappings](#)

New application

Applications

- None-
- CPU**
- Disk sda
- Filesystems
- General
- Inventory
- Memory
- Monitoring agent
- Network interfaces
- Security

Populates host inventory field

Description

3.1_Zabbix_I....docx 3.1_Zabbix_It....pdf 2.4_Zabbix_A....pdf 2.4_Zabbix.....docx 2.2_Zabbix.....docx 2.2_Zabbix_W....pdf Show all

(Telegram Web - Mo...) Zabbix server: Config... Oracle VM VirtualBox... 3.1_Zabbix_Items_h... [3] [Skype] [02.01.Zabbix] vagrant@server:~ Pictures 1 / 4

Applications Places Google Chrome

192.168.56.111/zabbix.php?action=problem.view&ddreset=1

ZABBIX Monitoring Inventory Reports Configuration Administration

Dashboard Problems Overview Web Latest data Graphs Screens Maps Discovery Services

Problems [Export to CSV](#)

Filter

Show

Host groups

Hosts

Application

Triggers

Problem

Minimum severity

Age less than days

Host inventory

[Add](#)

Tags

[Add](#)

Show tags Tag name

Tag display priority

Show operational data

Show suppressed problems ☐ Show unacknowledged only ☐

Compact view ☐ Show timeline ☒

Show details ☐ Highlight whole row ☐

Time	Severity	Recovery time	Status	Info	Host	Problem	Duration	Ack	Actions	Tags
22:43:16	High				Tomcat	CPU_alert	6s	No		
22:00										
20:50:03	High		PROBLEM		Tomcat	Tomcat_error	1h 53m 19s	No		

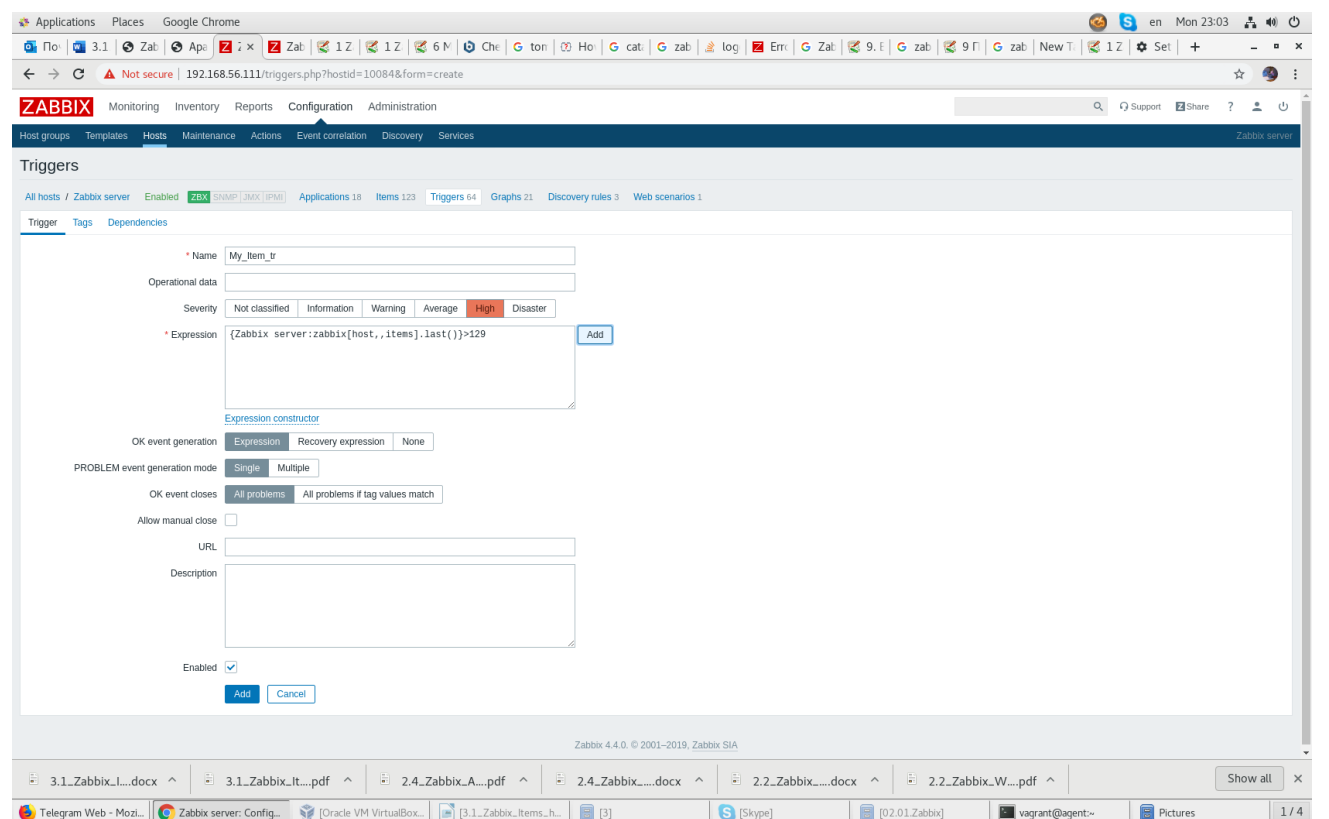
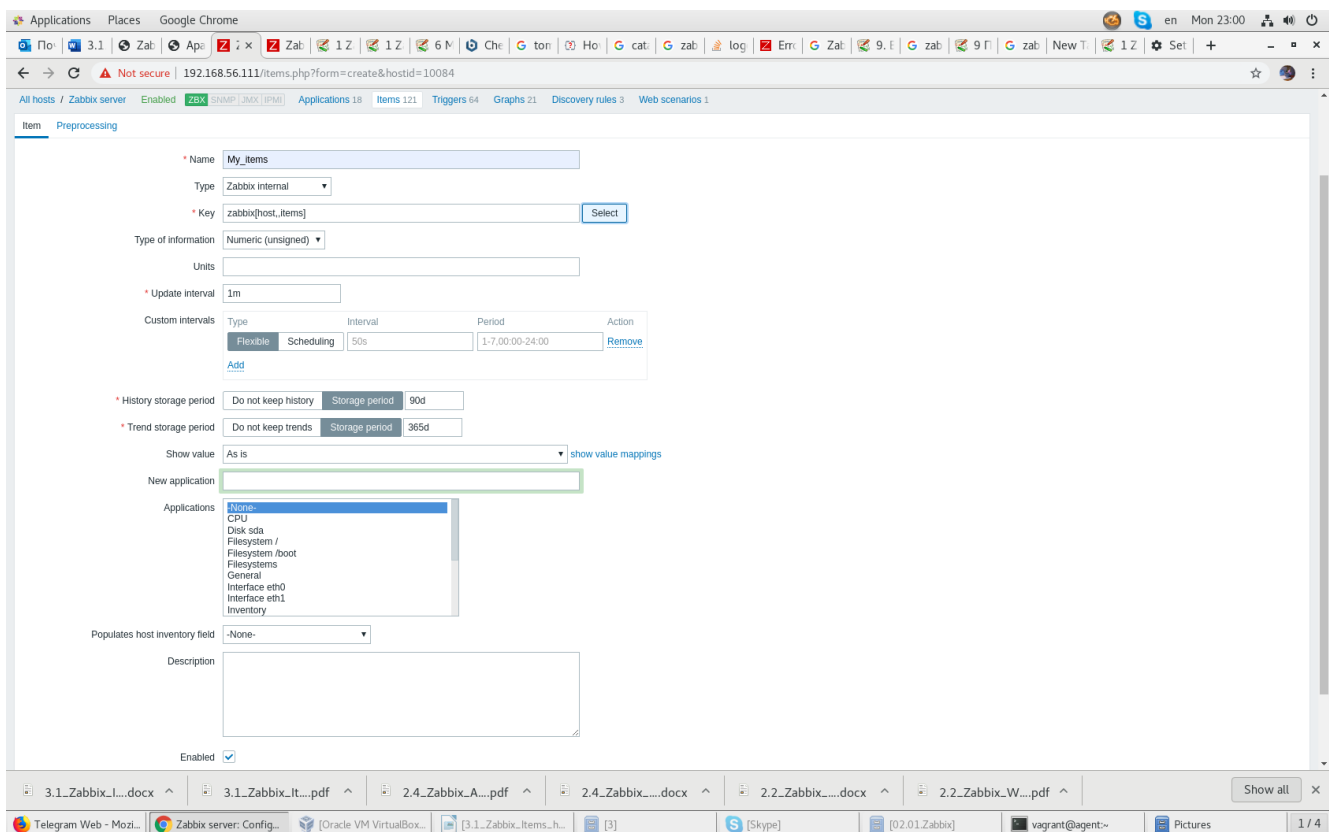
Displaying 2 of 2 found

0 selected

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3.1_Zabbix_I....docx 3.1_Zabbix_It....pdf 2.4_Zabbix_A....pdf 2.4_Zabbix.....docx 2.2_Zabbix.....docx 2.2_Zabbix_W....pdf Show all

(Telegram Web - Mo...) Zabbix server: Proble... Oracle VM VirtualBox... 3.1_Zabbix_Items_ho... [3] [Skype] [02.01.Zabbix] vagrant@agent:~ Pictures 1 / 4



Applications Places Google Chrome

192.168.56.111/triggers.php

Average	OK	Network interface discovery: Interface eth1: Link down	Current state: {ITEM.LASTVALUE1}	Problem: {SIFCONTROL["eth1"]=1 and ({Zabbix server.vfs.file.contents["sys/class/net/eth1/operstate"].last()=2 and {Zabbix server.vfs.file.contents["sys/class/net/eth1/operstate"].diff()=1}) Recovery: {Zabbix server.vfs.file.contents["sys/class/net/eth1/operstate"].last()}<2	Enabled
Average	OK	Template Module Linux memory by Zabbix agent: Lack of available memory (< {MEMORY.AVAILABLE.MIN} of {ITEM.VALUE2})	Available: {ITEM.LASTVALUE1}, total: {ITEM.LASTVALUE2}	{Zabbix server.vm.memory.size[available].min(5m)}<{MEMORY.AVAILABLE.MIN} and {Zabbix server.vm.memory.size[total].last()}>0	Enabled
Average	OK	Template Module Linux CPU by Zabbix agent: Load average is too high (per CPU load over {SLOAD_AVG_PER_CPU.MAX.WARN} for 5m)	Load averages(1m 5m 15m): {ITEM.LASTVALUE1} {ITEM.LASTVALUE2} {ITEM.LASTVALUE3} # of CPUs: {ITEM.LASTVALUE2}	{Zabbix server.system.cpu.load[all.avg1].min(5m)}{Zabbix server.system.cpu.num.last()}>{SLOAD_AVG_PER_CPU.MAX.WARN} and {Zabbix server.system.cpu.load[all.avg5].last()}>0 and {Zabbix server.system.cpu.load[all.avg15].last()}>0	Enabled
Average	OK	Template App Zabbix Server: More than 75% used in the configuration cache		{Zabbix server.zabbix[cache.buffer.pused].max(10m)}>75	Enabled
Average	OK	Template App Zabbix Server: More than 75% used in the history cache		{Zabbix server.zabbix[wcache.history.pused].max(10m)}>75	Enabled
Average	OK	Template App Zabbix Server: More than 75% used in the history index cache		{Zabbix server.zabbix[wcache.index.pused].max(10m)}>75	Enabled
Average	OK	Template App Zabbix Server: More than 75% used in the trends cache		{Zabbix server.zabbix[wcache.trend.pused].max(10m)}>75	Enabled
Average	OK	Template App Zabbix Server: More than 75% used in the vmware cache		{Zabbix server.zabbix[vmware.buffer.pused].max(10m)}>75	Unknown
Average	OK	Template App Zabbix Server: More than 95% used in the value cache		{Zabbix server.zabbix[vcache.buffer.pused].max(10m)}>95	Enabled
Warning	OK	Template App Zabbix Server: More than 100 items having missing data for more than 10 minutes		{Zabbix server.zabbix[queue.10m].min(10m)}>100	Enabled
High	OK	My_item_tr		{Zabbix server.zabbix[host.items].last()}>129	Enabled
Information	OK	Template Module Linux generic by Zabbix agent: Operating system description has changed Depends on: Zabbix server: System name has changed (new name: {ITEM.VALUE2})		{Zabbix server.system.sw.os.diff()=1 and {Zabbix server.system.sw.os.strlen()>0}	Unknown
Warning	OK	Block devices discovery: sda: Disk read/write request response are too high (read > {SVFS.DEV.READ.AWAIT.WARN."sda"} ms for 15m or write > {SVFS.DEV.WRITE.AWAIT.WARN."sda"} ms for 15m)		{Zabbix server.vfs.dev.read.await[sda].min(15m)} > {SVFS.DEV.READ.AWAIT.WARN."sda"} or {Zabbix server.vfs.dev.write.await[sda].min(15m)} > {SVFS.DEV.WRITE.AWAIT.WARN."sda"}	Enabled
Warning	OK	Template Module Linux generic by Zabbix agent: System time is out of sync (diff with Zabbix server > {SYSTEM.FUZZYTIME.MAX}s)		{Zabbix server.system.localtime.fuzzysize({SYSTEM.FUZZYTIME.MAX})}=0	Enabled
Information	OK	Template Module Linux generic by Zabbix agent: System name has changed (new name: {ITEM.VALUE2})		{Zabbix server.system.hostname.diff()=1 and {Zabbix server.system.hostname.strlen()>0}	Enabled
Average	OK	Template Module Zabbix agent: Zabbix agent is not available (for {SAGENT.TIMEOUT})		{Zabbix server.zabbix[host.agent.available].max({SAGENT.TIMEOUT})}=0	Enabled
Average	OK	Template App Zabbix Server: Zabbix alerter processes more than 75% busy		Problem: {Zabbix server.zabbix[process.alerter.avg.busy].avg(10m)}>75 Recovery: {Zabbix server.zabbix[process.alerter.avg.busy].avg(10m)}<65	Enabled
Average	OK	Template App Zabbix Server: Zabbix alert manager processes more		Problem: {Zabbix server.zabbix[process.alert.manager.avg.busy].avg(10m)}>75	Enabled

3.1.Zabbix_Lt....docx 3.1.Zabbix_Lt....pdf 2.4.Zabbix_A....pdf 2.4.Zabbix_....docx 2.2.Zabbix_....docx 2.2.Zabbix_W....pdf Show all

Telegram Web - Mozi... Zabbix server: Config... [Oracle VM VirtualBox... [3.1.Zabbix_Items... [3] [Skype] [02.01.Zabbix] vagrant@agent:- Pictures 1 / 4

Applications Places Google Chrome

192.168.56.111/latest.php?ddreset=1

	Utilization of self-monitoring internal processes, in %	2019-10-21 23:05:46	0 %	-0.0169 %	Graph
	Utilization of snmp trapper data collector processes, in %				Graph
	Utilization of task manager internal processes, in %	2019-10-21 23:05:24	0 %		Graph
	Utilization of timer internal processes, in %	2019-10-21 23:05:48	0 %		Graph
	Utilization of trapper data collector processes, in %	2019-10-21 23:05:49	0.0034 %	+0.0034 %	Graph
	Utilization of unreachable poller data collector processes, in %	2019-10-21 23:05:50	0 %		Graph
	Utilization of vmware data collector processes, in %				Graph
	Zabbix configuration cache, % used	2019-10-21 23:05:53	9.7272 %		Graph
	Zabbix history index cache, % used	2019-10-21 23:05:55	0.2344 %	+0.0076 %	Graph
	Zabbix history write cache, % used	2019-10-21 23:05:54	0 %	-0.0017 %	Graph
	Zabbix LLD queue	2019-10-21 23:05:34	0		Graph
	Zabbix preprocessing queue	2019-10-21 23:05:49	0		Graph
	Zabbix queue	2019-10-21 23:05:52	0		Graph
	Zabbix queue over 10 minutes	2019-10-21 22:57:51	0		Graph
	Zabbix trend write cache, % used	2019-10-21 23:05:56	0.3601 %		Graph
	Zabbix value cache, % used	2019-10-21 23:05:40	0.6353 %	-0.0152 %	Graph
	Zabbix value cache hits	2019-10-21 23:05:45	16.29 vps	+0.1163 vps	Graph
	Zabbix value cache misses	2019-10-21 23:05:48	0 vps	-0.0166 vps	Graph
	Zabbix value cache operating mode	2019-10-21 23:05:22	Normal (0)		Graph
	Zabbix vmware cache, % used				Graph
▼ Zabbix server	- other - (4 items)				
	My_items	2019-10-21 23:06:06	130	+1	Graph
	My_servers	2019-10-21 23:06:07	2		Graph
	test				Graph
	zabbix_db_aval	2019-10-21 23:05:50	1		Graph

0 selected Display stacked graph Display graph

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3.1.Zabbix_Lt....docx 3.1.Zabbix_Lt....pdf 2.4.Zabbix_A....pdf 2.4.Zabbix_....docx 2.2.Zabbix_....docx 2.2.Zabbix_W....pdf Show all

Telegram Web - Mozi... Zabbix server: Latest ... [Oracle VM VirtualBox... [3.1.Zabbix_Items... [3] [Skype] [02.01.Zabbix] vagrant@agent:- Pictures 1 / 4

Applications Places Google Chrome

192.168.56.111/zabbix.php?action=problem.view&ddreset=1

ZABBIX Monitoring Inventory Reports Configuration Administration

Dashboard Problems Overview Web Latest data Graphs Screens Maps Discovery Services

Problems [Export to CSV](#) [Filter](#)

Time	Severity	Recovery time	Status	Info	Host	Problem	Duration	Ack	Actions	Tags
23.06.06	High				Zabbix server	My_item tr	12s	No		

0 selected [Mass update](#)

Displaying 1 of 1 found

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3.1_Zabbix_I....docx 3.1_Zabbix_It....pdf 2.4_Zabbix_A....pdf 2.4_Zabbix_....docx 2.2_Zabbix_....docx 2.2_Zabbix_W....pdf Show all

Telegram Web - Mozi... Zabbix server: Proble... [Oracle VM VirtualBox... [3.1_Zabbix_Items_h... [3] [Skype] [02.01.Zabbix] vagrant@agent:~ Pictures 1 / 4

- How many Servers are being monitored
- Create triggers for every check

Applications Places Google Chrome

192.168.56.111/latest.php?ddreset=1

ZABBIX Monitoring Inventory Reports Configuration Administration

Dashboard Problems Overview Web Latest data Graphs Screens Maps Discovery Services

Triggers

Trigger	Expression	Last checked	Value	Severity	Actions
Utilization of snmp trapper data collector processes, in %		2019-10-21 23:07:40	0 %		Graph
Utilization of task manager internal processes, in %		2019-10-21 23:07:24	0 %	-0.0168 %	Graph
Utilization of timer internal processes, in %		2019-10-21 23:06:48	0 %		Graph
Utilization of trapper data collector processes, in %		2019-10-21 23:06:49	0 %	-0.0034 %	Graph
Utilization of unreachable poller data collector processes, in %		2019-10-21 23:06:50	0 %		Graph
Utilization of vmware data collector processes, in %					Graph
Zabbix configuration cache, % used		2019-10-21 23:06:53	9.7314 %	+0.0042 %	Graph
Zabbix history index cache, % used		2019-10-21 23:06:55	0.2288 %	-0.0076 %	Graph
Zabbix history write cache, % used		2019-10-21 23:06:54	0 %		Graph
Zabbix LLD queue		2019-10-21 23:07:34	0		Graph
Zabbix preprocessing queue		2019-10-21 23:06:49	0		Graph
Zabbix queue		2019-10-21 23:06:52	0		Graph
Zabbix queue over 10 minutes		2019-10-21 22:57:51	0		Graph
Zabbix trend write cache, % used		2019-10-21 23:06:56	0.3643 %	+0.0042 %	Graph
Zabbix value cache, % used		2019-10-21 23:07:40	0.6458 %	+0.0048 %	Graph
Zabbix value cache hits		2019-10-21 23:07:45	16.67 vps	+0.2155 vps	Graph
Zabbix value cache misses		2019-10-21 23:06:48	0.083 vps	+0.083 vps	Graph
Zabbix value cache operating mode		2019-10-21 23:07:22	Normal (0)		Graph
Zabbix vmware cache, % used					Graph
Zabbix server	- other - (4 items)				
My_items		2019-10-21 23:07:06	130		Graph
My_servers		2019-10-21 23:07:07	2		Graph
test					Graph
zabbix_db_avai		2019-10-21 23:06:50	1		Graph

0 selected [Display stacked graph](#) [Display graph](#)

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3.1_Zabbix_I....docx 3.1_Zabbix_It....pdf 2.4_Zabbix_A....pdf 2.4_Zabbix_....docx 2.2_Zabbix_....docx 2.2_Zabbix_W....pdf Show all

Telegram Web - Mozi... Zabbix server: Latest ... [Oracle VM VirtualBox... [3.1_Zabbix_Items_h... [3] [Skype] [02.01.Zabbix] vagrant@agent:~ Pictures 1 / 4

Applications Places Google Chrome

192.168.56.111/triggers.php?hostid=10084&form=create

ZABBIX

Monitoring Inventory Reports Configuration Administration

Host groups Templates Hosts Maintenance Actions Event correlation Discovery Services

Triggers

All hosts / Zabbix server Enabled 26x SHAMP 1.MX IPMI Applications 18 Items 124 Triggers 65 Graphs 21 Discovery rules 3 Web scenarios 1

Trigger Tags Dependencies

Name: My_services_trig

Operational data:

Severity: Not classified Information Warning Average **High** Disaster

Expression: {Zabbix server:zabbix[hosts].last()}<2 [Add](#)

[Expression constructor](#)

OK event generation: Expression Recovery expression None

PROBLEM event generation mode: Single Multiple

OK event closes: All problems All problems if tag values match

Allow manual close: ☐

URL:

Description:

Enabled: ☒ [Add](#) [Cancel](#)

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3.1_Zabbix_L....docx 3.1_Zabbix_It....pdf 2.4_Zabbix_A....pdf 2.4_Zabbix_....docx 2.2_Zabbix_....docx 2.2_Zabbix_WV....pdf Show all

Telegram Web - Mozi... Zabbix server: Config... Oracle VM VirtualBox... [3.1_Zabbix_Items_h... [3] [Skype] [02.01.Zabbix] vagrant@agent-> Pictures 1 / 4

Applications Places Google Chrome

192.168.56.111/triggers.php

<input type="checkbox"/>	Average	OK	Template App Zabbix Server: More than 75% used in the history index cache	{Zabbix server:zabbix[wcache.index.pused].max(10m)}>75	Enabled
<input type="checkbox"/>	Average	OK	Template App Zabbix Server: More than 75% used in the trends cache	{Zabbix server:zabbix[wcache.trend.pused].max(10m)}>75	Enabled
<input type="checkbox"/>	Average	OK	Template App Zabbix Server: More than 75% used in the vmware cache	{Zabbix server:zabbix[vmware.buffer.pused].max(10m)}>75	Unknown
<input type="checkbox"/>	Average	OK	Template App Zabbix Server: More than 95% used in the value cache	{Zabbix server:zabbix[vcache.buffer.pused].max(10m)}>95	Enabled
<input type="checkbox"/>	Warning	OK	Template App Zabbix Server: More than 100 items having missing data for more than 10 minutes	{Zabbix server:zabbix[queue.10m].min(10m)}>100	Enabled
<input type="checkbox"/>	High	PROBLEM	My_item_tr	{Zabbix server:zabbix[host.items].last()}>129	Disabled
<input type="checkbox"/>	High	OK	My_services_trig	{Zabbix server:zabbix[hosts].last()}<2	Enabled
<input type="checkbox"/>	Information	OK	Template Module Linux generic by Zabbix agent: Operating system description has changed Depends on: Zabbix server: System name has changed (new name: {ITEM.VALUE})	{Zabbix server:system.sw.os.diff()=1 and {Zabbix server:system.sw.os.strlen()}>0	Enabled
<input type="checkbox"/>	Warning	OK	Block devices discovery: sda: Disk readwrite request response are too high (read > {SVFS.DEV.READ.AWAIT.WARN:"sda"} ms for 15m or write > {SVFS.DEV.WRITE.AWAIT.WARN:"sda"} ms for 15m)	{Zabbix server:vfs.dev.read.await[sda].min(15m)} > {SVFS.DEV.READ.AWAIT.WARN:"sda"} or {Zabbix server:vfs.dev.write.await[sda].min(15m)} > {SVFS.DEV.WRITE.AWAIT.WARN:"sda"}	Enabled
<input type="checkbox"/>	Warning	OK	Template Module Linux generic by Zabbix agent: System time is out of sync (diff with Zabbix server > {SYSTEM.FUZZYTIME.MAX}s)	{Zabbix server:system.localtime.fuzzysize({SYSTEM.FUZZYTIME.MAX})=0	Enabled
<input type="checkbox"/>	Information	OK	Template Module Linux generic by Zabbix agent: System name has changed (new name: {ITEM.VALUE})	{Zabbix server:system.hostname.diff()=1 and {Zabbix server:system.hostname.strlen()}>0	Enabled
<input type="checkbox"/>	Average	OK	Template Module Zabbix agent: Zabbix agent is not available (for {AGENT.TIMEOUT})	{Zabbix server:zabbix[host.agent.available].max({AGENT.TIMEOUT})=0	Enabled
<input type="checkbox"/>	Average	OK	Template App Zabbix Server: Zabbix alerter processes more than 75% busy	Problem: {Zabbix server:zabbix[process.alerter.avg.busy].avg(10m)}>75 Recovery: {Zabbix server:zabbix[process.alerter.avg.busy].avg(10m)}<65	Enabled
<input type="checkbox"/>	Average	OK	Template App Zabbix Server: Zabbix alert manager processes more than 75% busy	Problem: {Zabbix server:zabbix[process.alert.manager.avg.busy].avg(10m)}>75 Recovery: {Zabbix server:zabbix[process.alert.manager.avg.busy].avg(10m)}<65	Enabled
<input type="checkbox"/>	Average	OK	Template App Zabbix Server: Zabbix alert synchronizer processes more than 75% busy	Problem: {Zabbix server:zabbix[process.alert.synchronizer.avg.busy].avg(10m)}>75 Recovery: {Zabbix server:zabbix[process.alert.synchronizer.avg.busy].avg(10m)}<65	Enabled
<input type="checkbox"/>	Average	OK	Template App Zabbix Server: Zabbix configuration synchronizer processes more than 75% busy	Problem: {Zabbix server:zabbix[process.configuration.synchronizer.avg.busy].avg(10m)}>75 Recovery: {Zabbix server:zabbix[process.configuration.synchronizer.avg.busy].avg(10m)}<65	Enabled
<input type="checkbox"/>	Average	OK	Template App Zabbix Server: Zabbix discoverer processes more than 75% busy	Problem: {Zabbix server:zabbix[process.discoverer.avg.busy].avg(10m)}>75 Recovery: {Zabbix server:zabbix[process.discoverer.avg.busy].avg(10m)}<65	Enabled
<input type="checkbox"/>	Average	OK	Template App Zabbix Server: Zabbix escalator processes more than 75% busy	Problem: {Zabbix server:zabbix[process.escalator.avg.busy].avg(10m)}>75 Recovery: {Zabbix server:zabbix[process.escalator.avg.busy].avg(10m)}<65	Enabled

3.1_Zabbix_L....docx 3.1_Zabbix_It....pdf 2.4_Zabbix_A....pdf 2.4_Zabbix_....docx 2.2_Zabbix_....docx 2.2_Zabbix_WV....pdf Show all

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Applications Places Google Chrome

192.168.56.111/latest.php?ddreset=1

<input type="checkbox"/>	Utilization of self-monitoring internal processes, in %	2019-10-21 23:08:40	0 %		Graph
<input type="checkbox"/>	Utilization of snmp trapper data collector processes, in %				Graph
<input type="checkbox"/>	Utilization of task manager internal processes, in %	2019-10-21 23:08:24	0.0169 %	+0.0169 %	Graph
<input type="checkbox"/>	Utilization of timer internal processes, in %	2019-10-21 23:08:48	0 %		Graph
<input type="checkbox"/>	Utilization of trapper data collector processes, in %	2019-10-21 23:08:49	0.0034 %	+0.0034 %	Graph
<input type="checkbox"/>	Utilization of unreachable poller data collector processes, in %	2019-10-21 23:08:50	0 %		Graph
<input type="checkbox"/>	Utilization of vmware data collector processes, in %				Graph
<input type="checkbox"/>	Zabbix configuration cache, % used	2019-10-21 23:08:53	9.7361 %	+0.0047 %	Graph
<input type="checkbox"/>	Zabbix history index cache, % used	2019-10-21 23:08:55	0.2268 %		Graph
<input type="checkbox"/>	Zabbix history write cache, % used	2019-10-21 23:08:54	0 %		Graph
<input type="checkbox"/>	Zabbix LLD queue	2019-10-21 23:08:34	0		Graph
<input type="checkbox"/>	Zabbix preprocessing queue	2019-10-21 23:08:49	0		Graph
<input type="checkbox"/>	Zabbix queue	2019-10-21 23:08:52	0		Graph
<input type="checkbox"/>	Zabbix queue over 10 minutes	2019-10-21 23:07:51	0		Graph
<input type="checkbox"/>	Zabbix trend write cache, % used	2019-10-21 23:08:56	0.3643 %		Graph
<input type="checkbox"/>	Zabbix value cache, % used	2019-10-21 23:08:40	0.6465 %	+0.0007 %	Graph
<input type="checkbox"/>	Zabbix value cache hits	2019-10-21 23:08:45	16.87 vps	+0.1987 vps	Graph
<input type="checkbox"/>	Zabbix value cache misses	2019-10-21 23:08:48	0.0168 vps	+0.0168 vps	Graph
<input type="checkbox"/>	Zabbix value cache operating mode	2019-10-21 23:08:22	Normal (0)		Graph
<input type="checkbox"/>	Zabbix vmware cache, % used				Graph
▼ Zabbix server	- other - (4 items)				
<input type="checkbox"/>	My_items	2019-10-21 23:09:06	130		Graph
<input type="checkbox"/>	My_servers	2019-10-21 23:09:07	1	-1	Graph
<input type="checkbox"/>	test				Graph
<input type="checkbox"/>	zabbix_db_aval	2019-10-21 23:08:50	1		Graph

0 selected Display stacked graph Display graph

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3.1_Zabbix_I...docx 3.1_Zabbix_It...pdf 2.4_Zabbix_A...pdf 2.4_Zabbix.....docx 2.2_Zabbix.....docx 2.2_Zabbix_WV...pdf Show all

Telegram Web - Mozi... Zabbix server: Latest ... [Oracle VM VirtualBox... [3.1_Zabbix_Items_h... [3] [Skype] [02.01.Zabbix] vagrant@agent-> Pictures 1 / 4

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192.168.56.111/zabbix.php?action=problem.view&ddreset=1

ZABBIX Monitoring Inventory Reports Configuration Administration

Dashboard Problems Overview Web Latest data Graphs Screens Maps Discovery Services

Problems Export to CSV

Filter

Time	Severity	Recovery time	Status	Info	Host	Problem	Duration	Ack	Actions	Tags
23:09:07	High		PROBLEM		Zabbix server	My_services_trig	12s	No		

Displaying 1 of 1 found

0 selected Mass update

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Telegram Web - Mozi... Zabbix server: Proble... [Oracle VM VirtualBox... [3.1_Zabbix_Items_h... [3] [Skype] [02.01.Zabbix] vagrant@agent-> Pictures 1 / 4