

EPAM Systems, RD Dep.**MTN.NIX.Zabbix_Items**

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

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Task. Items

Tasks: 1:

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

Subfilter affects only filtered data

APPLICATIONS
CPU +15 Filesystems +10 General +5 Memory +5 Network interfaces +4 OS +8 Performance +15 Processes +2 Security +2 **Zabbix agent** Zabbix server +65

TYPES
Zabbix agent 4 Zabbix agent (active) 2 Zabbix internal 0

TYPE OF INFORMATION
Character 2 Log 2 Numeric (float) 1 Numeric (unsigned) 1

STATE
Normal 6 Not supported 0

TEMPLATE
Inherited items 3 Not inherited items 3

WITH TRIGGERS
Without triggers 2 With triggers 4

DISCOVERY
Discovered 0 Regular 0

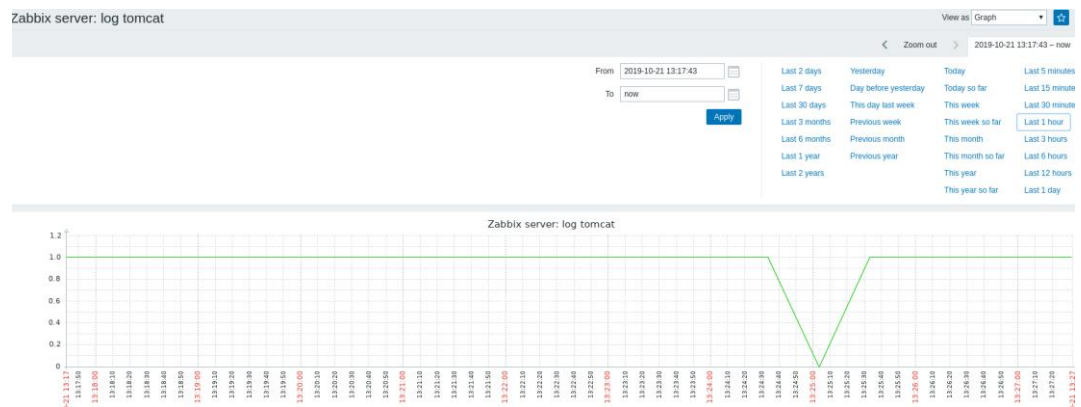
HISTORY
7d 3m 1

INTERVAL
5s 30s 1m 10m 1h 2

Wizard	Name	Triggers	Key	Interval	History	Trends	Type	Applications	Status	Info
***	Template App Zabbix Agent: Host name of Zabbix agent running	Triggers 1	agent.hostname	1h	1w		Zabbix agent	Zabbix agent	Enabled	
***	Template App Zabbix Agent: Zabbix agent ping	Triggers 1	agent.ping	1m	1w	365d	Zabbix agent	Zabbix agent	Enabled	
***	Template App Zabbix Agent: Version of Zabbix agent running	Triggers 1	agent.version	1h	1w		Zabbix agent	Zabbix agent	Enabled	
***	deployment		log[/opt/tomcat/logs/catalina.2019-10-21.log.deploy]	5s	90d		Zabbix agent (active)	Zabbix agent	Enabled	
***	Undeployment		log[/opt/tomcat/logs/catalina.2019-10-21.log.undeploy]	5s	90d		Zabbix agent (active)	Zabbix agent	Enabled	
***	log tomcat	Triggers 1	net.tcp.service[tcp,192.168.56.33.8080]	30s	90d	365d	Zabbix agent	Zabbix agent	Enabled	

Displaying 6 of 6 found

0 selected Enable Disable Check now Clear history Copy Mass update Delete



Check tomcat availability via simple check

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

Triggers

[All hosts](#) / [Zabbix server](#) **Enabled** **ZBX** [SNMP](#) [JMX](#) [IPMI](#) [Applications](#) 11 [Items](#) 95 [Triggers](#) 53 [Graphs](#) 15 [Discovery rules](#) 2 [Web](#)

[Trigger](#) [Tags](#) [Dependencies](#)

* Name

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](#)

Simple trigger.

Task 2:

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

1. Simple checks:

- Zabbix Server WEB availability (80)
- Zabbix DB is available (3306)

tems

All hosts / Zabbix server Enabled ZBX SNMP JMX IPMI Applications 11 Items 97 Triggers 53 Graphs 15 Discovery rules 2 Web scenarios

Item Preprocessing

* Name

Type

* Key

* Host interface

Type of information

Units

* Update interval

Custom intervals

Type	Interval	Period	Action
<input checked="" type="checkbox"/> Flexible	<input type="text" value="50s"/>	<input type="text" value="1-7,00:00-24:00"/>	<input type="button" value="Remove"/>

[Add](#)

* History storage period

* Trend storage period

Show value [show value mappings](#)

Zabbix server: db is down

From: To:

Last 2 days Yesterday Today Last 5 minutes
 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

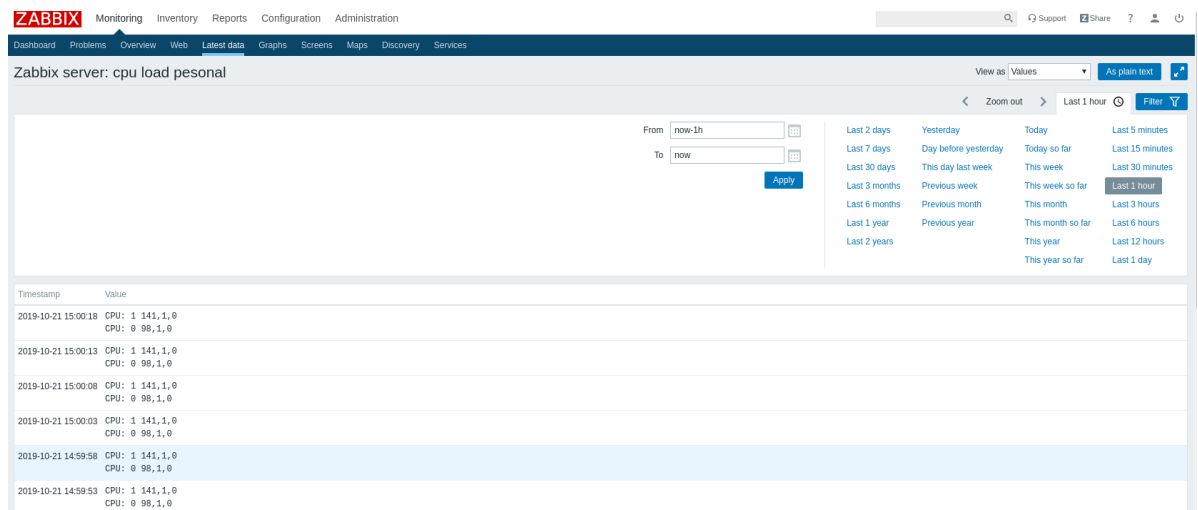
db is down [all] last: 0 min: 0 avg: 0.8889 max: 1

- Tomcat availability (80, 8080)
- Tomcat Server is available by ssh (22)

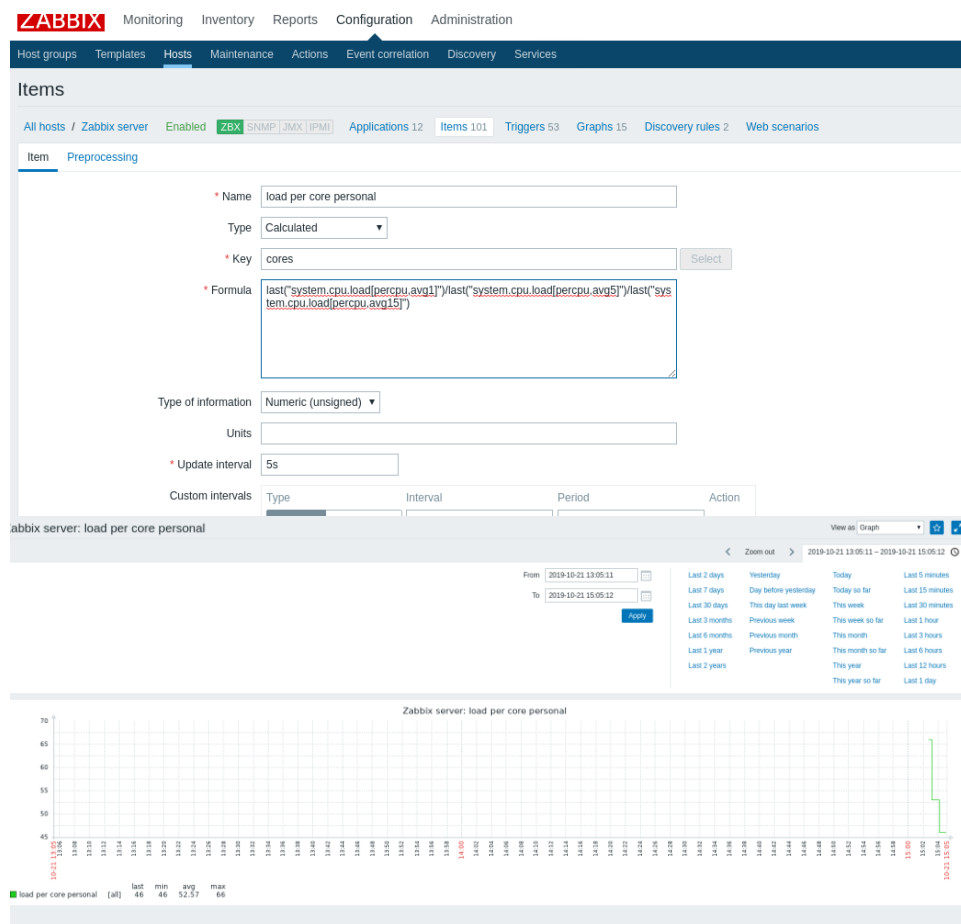
2. Calculated Checks:

- CPU Load per Core (1, 5, 15min)

Saved: 21-Oct-2019 05:08



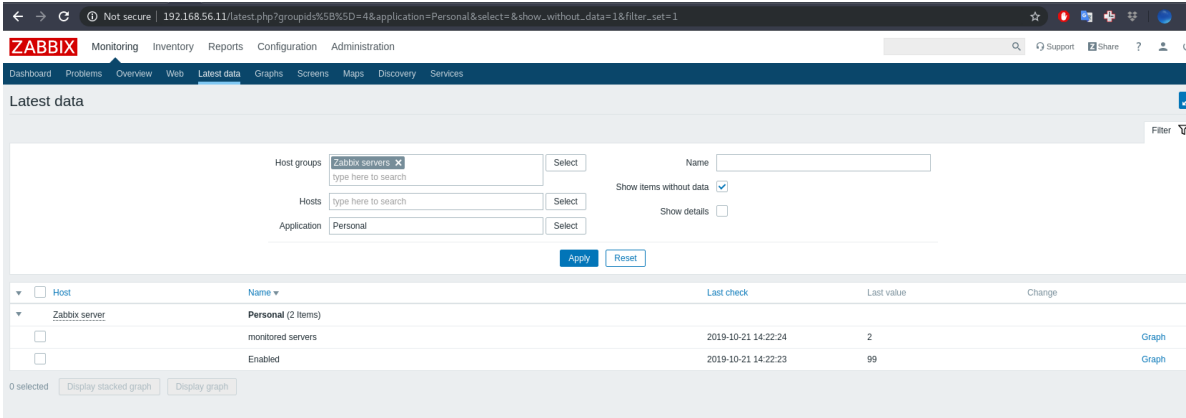
As external check



As Calculated Check

3. Internal Checks:

- How many items are enabled
- How many Servers are being monitored



Create triggers for every check