

Task:

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

Zabbix_server.conf additional lines:

```
ServerActive=192.168.77.21
Hostname=zabbix
```

ZABBIX Monitoring Inventory Reports Configuration Administration

Host groups Templates **Hosts** Maintenance Actions Event correlation Discovery Services

Items

All hosts / zabbix Enabled **ZBX** SNMP JMX IPMI Applications 10 **Items 49** Triggers 19 Graphs 9 Discovery rules 2 Web scenarios

Item Preprocessing

* Name

Log item

Type

Zabbix agent (active)

* Key

log[/var/log/tomcat/catalina.2019-07-01.log,INFO]

Select

Type of information

Log

* Update interval

30s

* History storage period

90d

Log time format

New application

Applications

None-

CPU

Filesystems

General

Memory

Network interfaces

OS

Performance

Processes

Security

Description

Enabled

☒

Update

Clone

Check now

Clear history and trends

Delete

Cancel

Host
Templates
IPMI
Tags
Macros
Inventory
Encryption

* Host name

Visible name

* Groups

CloudHosts
Linux servers

type here to search

Select

* At least one interface must exist.

Agent interfaces

IP address	DNS name	Connect to	Port	Default
192.168.77.22		IP DNS	10050	<input checked="" type="radio"/> Remove

Add

SNMP interfaces

Add

JMX interfaces

Add

IPMI interfaces

Add

Description

Monitored by proxy

(no proxy)

Enabled

☒

Update

Clone

Full clone

Delete

Cancel

zabbix

- other - (1 item)

Log item

zabbix: Log item

View as Values As plain text

From

now-1h

To

now

Apply

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
This year so far
Last 12 hours

Last 1 day

Timestamp	Local time	Value
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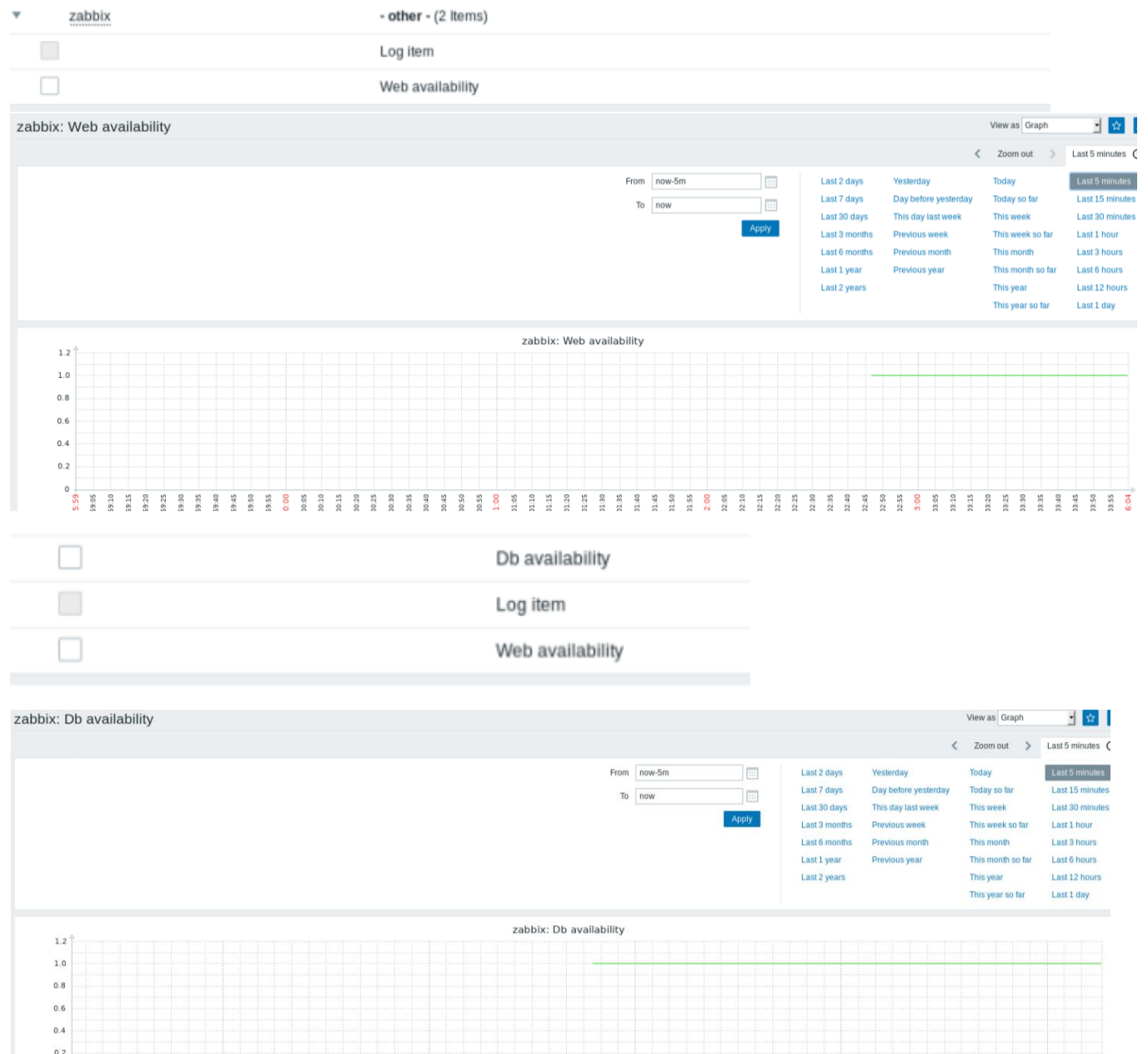
Create a trigger for errors in log file monitored by that item

Time	Info	Host	Problem • Severity	Duration	Ack	Actions	Tags
19:21:58		zabbix	Log trigger	5s	No		

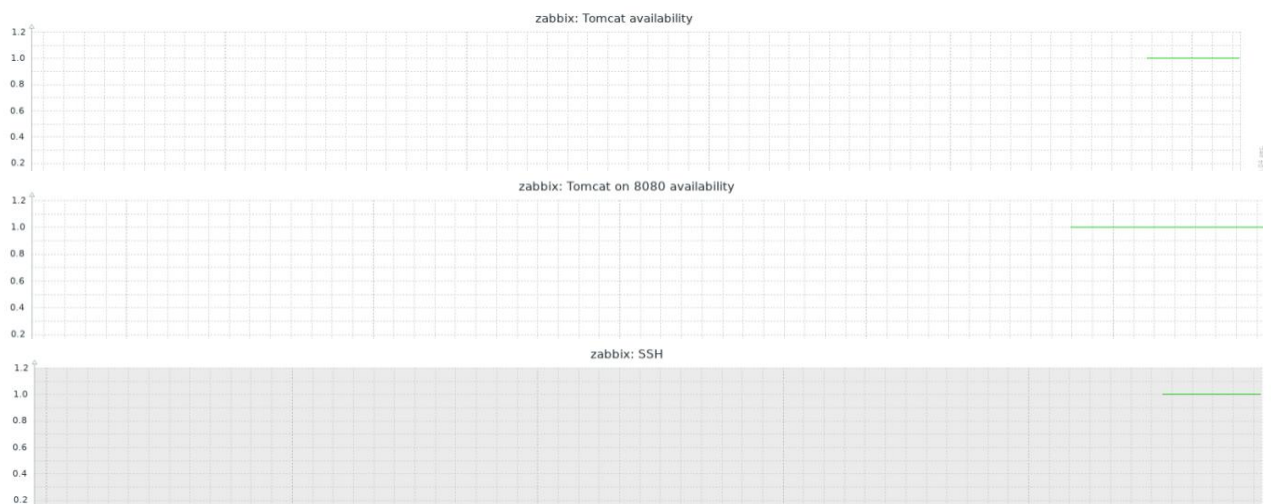
Configure:

Simple checks:

Tomcat Server is available by ssh (22)



<input type="checkbox"/>	Db availability
<input type="checkbox"/>	Log item
<input type="checkbox"/>	Tomcat availability
<input type="checkbox"/>	Tomcat on 8080 availability
<input type="checkbox"/>	Web availability



Calculated Checks:

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

Items

All hosts / zabbix Enabled ZBX SNMP JMX IPMI Applications 10 Items 60 Triggers 20 Graphs 9 Discovery rules 2 Web scenarios

Item Preprocessing

* Name

CPU Load Per Core (avg1)

Type

Calculated

* Key

CPU.load.per.core.avg1

Select

* Formula

last("system.cpu.load[avg1])/last("system.cpu.num")

Type of information

Numeric (float)

Units

* Update interval

10s

Custom intervals

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

Add

Remove

<input type="checkbox"/>	CPU load avg1
<input type="checkbox"/>	Db availability
<input type="checkbox"/>	Log item
<input type="checkbox"/>	Number of cpu online
<input type="checkbox"/>	Tomcat availability
<input type="checkbox"/>	Tomcat on 8080 availability
<input type="checkbox"/>	Web availability

zabbix	- other - (12 Items)
<input type="checkbox"/>	CPU load avg1
<input type="checkbox"/>	CPU load avg5
<input type="checkbox"/>	CPU load avg15
<input type="checkbox"/>	CPU Load Per Core (avg1)
<input type="checkbox"/>	CPU Load Per Core (avg5)
<input type="checkbox"/>	CPU Load Per Core (avg15)

Items

All hosts / zabbix Enabled **ZBX** SNMP JMX IPMI Applications 10 Items 60 Triggers 20 Graphs 9 Discovery rules 2 Web scenarios

Item Preprocessing

* Name CPU Load Per Core (avg5)

Type Calculated

* Key CPU.load.per.core.avg5 Select

* Formula $\text{last}(\text{"system.cpu.load[,avg5"]})/\text{last}(\text{"system.cpu.num"})$

Type of information Numeric (float)

Units

* Update interval 10s

Items

All hosts / zabbix Enabled **ZBX** SNMP JMX IPMI Applications 10 Items 60 Triggers 20 Graphs 9 Discovery rules 2 Web scenarios

Item Preprocessing

* Name CPU Load Per Core (avg15)

Type Calculated

* Key CPU.load.per.core.avg15 Select

* Formula $\text{last}(\text{"system.cpu.load[,avg15"]})/\text{last}(\text{"system.cpu.num"})$

Type of information Numeric (float)

Units

* Update interval 30s

Internal Checks:

How many items are enabled

Items

All hosts / zabbix Enabled ZBX SNMP JMX IPMI Applications 10 Items 60 Triggers 20 Graphs 9 Discovery rules 2 Web scenarios

Item Preprocessing

* Name How many items enabled

Type Zabbix internal

* Key zabbix[items] Select

Type of information Numeric (unsigned)

Units

* Update interval 1ps

Custom intervals	Type		Interval	Period	Action
	Flexible	Scheduling	50s	1-7,00:00-24:00	Remove
Add					

* History storage period 90d

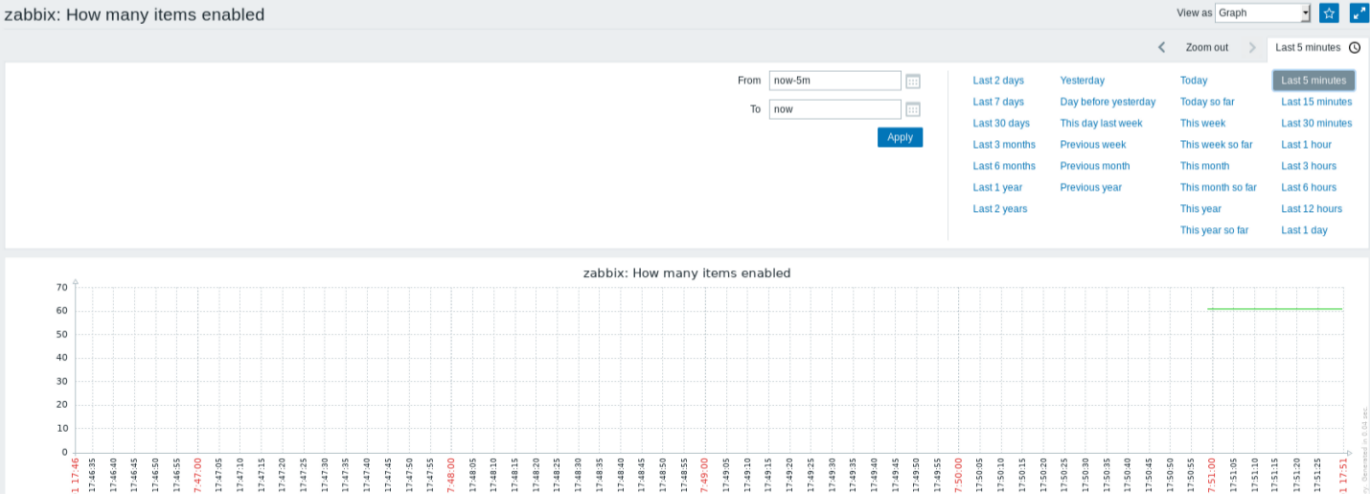
* Trend storage period 365d

Show value As is show value mappings

New application

- Applications
- None-
 - CPU
 - Filesystems
 - General
 - Memory
 - Network interfaces
 - OS
 - Performance
 - Processes
 - Security

Populates host inventory field -None-



How many hosts are being monitored

Items

All hosts / zabbix Enabled **ZBX** SNMP JMX IPMI Applications 10 Items 62 Triggers 20 Graphs 9 Discovery rules 2 Web scenarios

Item Preprocessing

* Name

Type

* Key

Type of information

Units

* Update interval

Custom intervals

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

[Add](#)

* History storage period

* Trend storage period

Show value [show value mappings](#)

New application

Applications

- None-
- CPU
- Filesystems
- General
- Memory
- Network interfaces
- OS
- Performance
- Processes
- Security

<input type="checkbox"/>	***	How many hosts monitored	zabbix[hosts]	30s	90d	365d	Zabbix internal
<input type="checkbox"/>	***	How many items enabled	zabbix[items]	10s	90d	365d	Zabbix internal



Triggers:

<input type="checkbox"/>	Warning	PROBLEM	Avg1 cpu < 1	{zabbix:CPU.load.per.core.avg1.last()}<1
<input type="checkbox"/>	Warning	PROBLEM	Avg5 cpu <=0	{zabbix:CPU.load.per.core.avg5.last()}<=0
<input type="checkbox"/>	Warning	PROBLEM	Avg15	{zabbix:CPU.load.per.core.avg15.last()}<3

Problems Export to CSV

Show Recent problems Problems History

Host groups CloudHosts x Select

Hosts Select

Application Select

Triggers Select

Problem

Minimum severity Not classified

Age less than days

Host inventory Type Remove

Add

Tags And/Or Or

Contains Equals Remove

Add

Show tags None 1 2 3 Tag name Full Shortened None

Tag display priority comma-separated list

Show suppressed problems ☐

Show unacknowledged only ☐

Compact view ☐

Show details ☐

Show latest values ☐

Show timeline ☐

Highlight whole row ☐

Apply Reset

Time	<input type="checkbox"/> Severity	Recovery time	Status	Info	Host	Problem	Duration	Ack	Actions	Tags
18:37:12	<input type="checkbox"/> Warning		PROBLEM		zabbix	Avg1 cpu < 1	14s	No		
18:36:28	<input type="checkbox"/> Warning		PROBLEM		zabbix	Avg15	58s	No		
18:35:05	<input type="checkbox"/> Warning		PROBLEM		zabbix	Avg5 cpu <=0	2m 21s	No		

Displaying 3 of 3 found

Time	<input type="checkbox"/> Severity	Recovery time	Status	Info	Host	Problem	Duration	Ack
18:40:31	<input type="checkbox"/> Warning		PROBLEM		zabbix	Host monitored > 0	13s	No
18:40:09	<input type="checkbox"/> Warning		PROBLEM		zabbix	Items enabled not equals 50	35s	No

Time	Info	Host	Problem * Severity
18:47:19		zabbix	Tomcat on port 80 is unavailable
18:44:20		zabbix	Tomcat on port 8080 is unavailable

Time	<input type="checkbox"/> Severity	Recovery time	Status	Info	Host	Problem
18:47:19	<input type="checkbox"/> High	18:50:19	RESOLVED		zabbix	Tomcat on port 80 is unavailable
18:44:20	<input type="checkbox"/> High	18:50:20	RESOLVED		zabbix	Tomcat on port 8080 is unavailable