

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

Configure:

## 1. Simple checks:

- Zabbix DB is available (3306)

The screenshot shows the Zabbix web interface in a browser window. The address bar indicates the URL is `192.168.56.77/zabbix/items.php?form=update&hostid=10084&itemid=28...`. The interface is in the 'Items' tab, specifically the 'Preprocessing' sub-tab. The configuration for an item named 'DB' is shown. The 'Type' is set to 'Simple check'. The 'Key' is `net.tcp.service[tcp,,3306]`. The 'Host interface' is `127.0.0.1 : 10050`. The 'Update interval' is set to '30s'. The 'Type of information' is 'Numeric (unsigned)'. The 'Units' field is empty. The 'Custom intervals' section shows a table with columns 'Type', 'Interval', 'Period', and 'Action'. The 'Flexible' tab is selected, and a row is shown with 'Scheduling' type, '50s' interval, and '1-7,00:00-24:00' period. The 'History storage period' is set to 'Do not keep history' with a 'Storage period' of '90d'. The 'Trend storage period' is set to 'Do not keep trends' with a 'Storage period' of '365d'. The 'Show value' is set to 'As is'. The 'New application' field is highlighted with a green border. The 'Applications' dropdown menu is open, showing a list of categories: None, CPU, Filesystems, General, Memory, Network interfaces, OS, Performance, Processes, and Security.

Item: **Preprocessing**

\* Name: DB

Type: Simple check

\* Key: net.tcp.service[tcp,,3306] [Select](#)

\* Host interface: 127.0.0.1 : 10050

User name:

Password:

Type of information: Numeric (unsigned)

Units:

\* Update interval: 30s

Custom intervals

Type	Interval	Period	Action
Flexible	Scheduling	50s	1-7,00:00-24:00 <a href="#">Remove</a>

[Add](#)

\* History storage period: Do not keep history [Storage period](#) 90d

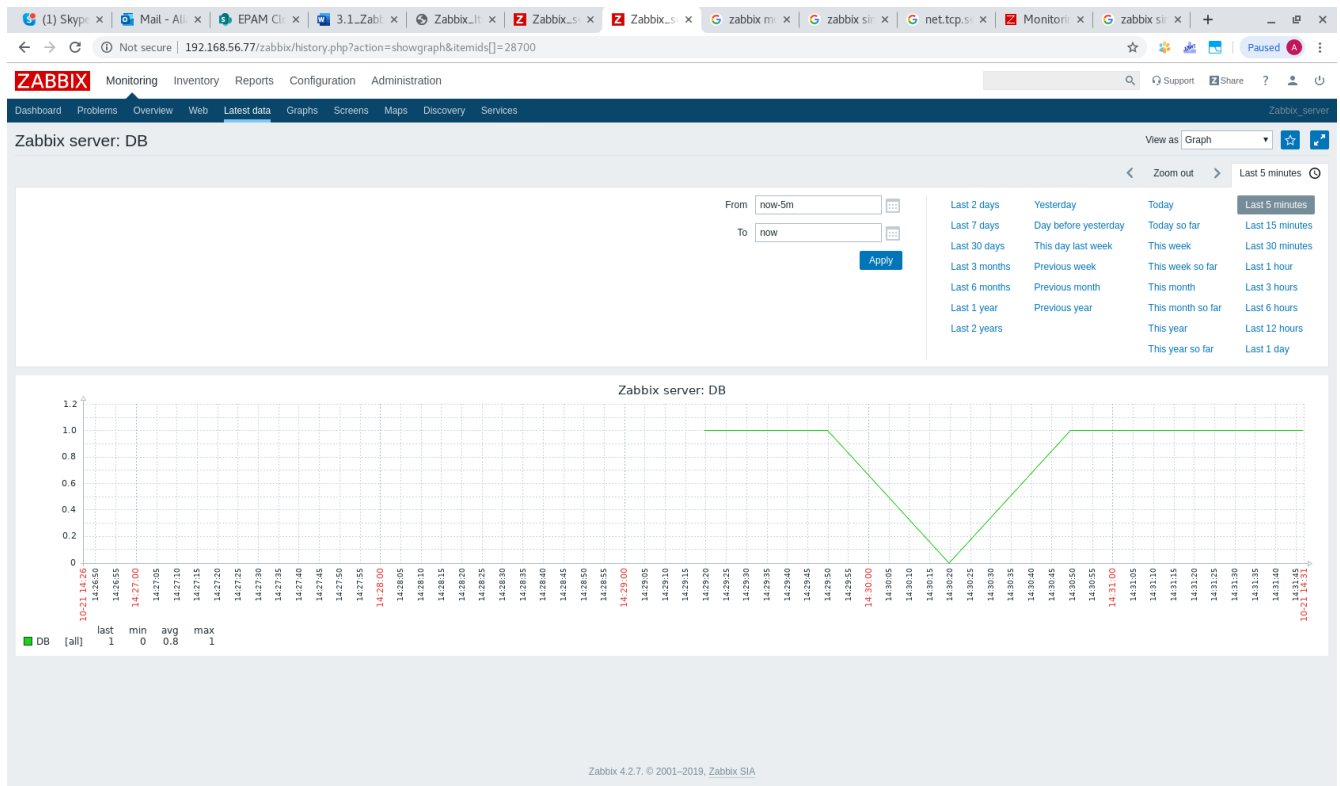
\* Trend storage period: Do not keep trends [Storage period](#) 365d

Show value: As is [show value mappings](#)

New application:

Applications: 

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



## 2. Calculated Checks:

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

Skype x Mail - Ali x EPAM Cl x 3.1.Zabi x Zabbix.Li x Zabbix.s x Zabbix.s x Zabbix.s x 1 Zabbix x test load x How to x Stress Tr x +

← → Not secure | 192.168.56.77/zabbix/items.php?form=update&hostid=10263&itemid=28712

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

### Items

All hosts / centos2 Enabled **zabbix** [SNMP] [JMX] [IPMI] Applications 10 Items 56 Triggers 21 Graphs 9 Discovery rules 2 Web scenarios

Item Preprocessing

\* Name

Type Calculated

\* Key

\* Formula

Type of information Numeric (float)

Units

\* Update interval

Custom intervals

Type	Interval	Period	Action
Flexible	Scheduling	50s	1-7.00.00-24.00 <input type="button" value="Remove"/>

\* History storage period  Storage period

\* Trend storage period  Storage period

Show value

New application

Applications

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

Populates host inventory field

Skype x Mail - Ali x EPAM Cl x 3.1.Zabi x Zabbix.Li x Zabbix.s x Zabbix.s x Zabbix.s x 1 Zabbix x test load x How to x Stress Tr x +

← → Not secure | 192.168.56.77/zabbix/zabbix.php?action=dashboard.view&ddreset=1

## ZABBIX

Monitoring Inventory Reports Configuration Administration

Dashboard Problems Overview Web Latest data Graphs Screens Maps Discovery Services

### Global view

All dashboards / Global view

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 This year Last 12 hours  
This year so far Last 1 day

#### System information

Parameter	Value	Details
Zabbix server is running	Yes	localhost:10051
Number of hosts (enabled/disabled/templates)	85	2 / 0 / 83
Number of items (enabled/disabled/not supported)	150	144 / 0 / 6
Number of triggers (enabled/disabled [problem/ok])	73	73 / 0 [1 / 72]
Number of users (online)	2	1
Required server performance, new values per second	2.78	

#### Problems by severity

Host group	Disaster	High	Average	Warning	Information	Not classified
Linux servers		1				

Time	Info	Host	Problem	Duration	Ack	Actions	Tags
17:34:32		centos2	high-1m-load	15s	No		

#### Local

#### Graph

javascript:void(0)

#### Favourite maps

No maps added.

Skype x Mail - All x EPAM Cl x 3.1.Zabi x Zabbix.J x Zabbix.s x Zabbix.s x Zabbix.s x 1 Zabbix x test load x How to l x Stress Tr x + - x

← → Not secure | 192.168.56.77/zabbix/items.php?form=update&hostid=10263&itemid=28713 ☆ 🌈 📄 🖨 ⌵ Paused A ⋮

All hosts / centos2 Enabled **ZBX** SNMP JMX IPMI Applications 10 Items 56 Triggers 21 Graphs 9 Discovery rules 2 Web scenarios

Item Preprocessing

\* Name

Type

\* Key

\* Formula 

last("system.cpu.load[avg5]")/last("system.cpu.num")

Type of information

Units

\* Update interval

Custom intervals

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

\* History storage period

\* Trend storage period

Show value

New application

Applications

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

Populates host inventory field

Description

Skype x Mail - All x EPAM Cl x 3.1.Zabi x Zabbix.J x Zabbix.s x Zabbix.s x Zabbix.s x 1 Zabbix x test load x How to l x Stress Tr x + - x

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**ZABBIX** Monitoring Inventory Reports Configuration Administration 🔍 🗨 📄 ? ⌵

Host groups Templates **Hosts** Maintenance Actions Event correlation Discovery Services Zabbix\_server

Triggers

All hosts / centos2 Enabled **ZBX** SNMP JMX IPMI Applications 10 Items 56 Triggers 22 Graphs 9 Discovery rules 2 Web scenarios

Trigger Tags Dependencies

\* Name

Severity

\* Expression 

[centos2.cpu5m-percore.avg(300s)]>0.5

[Expression constructor](#)

OK event generation

PROBLEM event generation mode

OK event closes

Allow manual close ☐

URL

Description

Enabled ☒

Zabbix 4.2.7. © 2001–2019, Zabbix SIA

Skype x Mail - All x EPAM Cl x 3.1..Zabi x Zabbix..l x Zabbix..s x Zabbix..s x Zabbix..s x 1 Zabbix x test load x How to l x Stress Tr x + - 10 x

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All hosts / centos2 Enabled **Zabbix** [SNMP] [JMX] [IPMI] Applications 10 Items 56 Triggers 22 Graphs 9 Discovery rules 2 Web scenarios

Item Preprocessing

\* Name

Type

\* Key

\* Formula

Type of information

Units

\* Update interval

Custom intervals

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

\* History storage period ☐ Do not keep history ☒ Storage period

\* Trend storage period ☐ Do not keep trends ☒ Storage period

Show value

New application

Applications

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

Populates host inventory field

Description

Skype x Mail - All x EPAM Cl x 3.1..Zabi x Zabbix..l x Zabbix..s x Zabbix..s x Zabbix..s x 1 Zabbix x test load x How to l x Stress Tr x + - 10 x

← → ↻ Not secure 192.168.56.77/zabbix/zabbix.php?action=dashboard.view&dreset=1 ☆ 🌈 📄 📄 📄 Paused 100

**ZABBIX** Monitoring Inventory Reports Configuration Administration

Dashboard Problems Overview Web Latest data Graphs Screens Maps Discovery Services

Global view

All dashboards / Global view

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

**System information**

Parameter	Value	Details
Zabbix server is running	Yes	localhost:10051
Number of hosts (enabled/disabled/templates)	85	2 / 0 / 83
Number of items (enabled/disabled/not supported)	150	144 / 0 / 6
Number of triggers (enabled/disabled [problem/vok])	74	74 / 0 / 2 / 72
Number of users (online)	2	1
Required server performance, new values per second	2.78	


**Problems by severity**

Host group  Disaster High Average Warning Information Not classified

2

Time	Info	Host	Problem	Duration	Ack	Actions	Tags
17:38:35		centos2	high-1m-load	1m 55s	No		
17:38:09		centos2	high-5m-load	2m 21s	No		

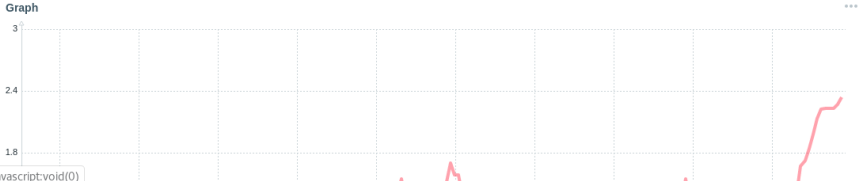
**Local**



**Favourite maps**

No maps added.

**Graph**



### 3. Internal Checks:

- How many items are enabled

The screenshot shows the Zabbix web interface in a browser window. The URL is `192.168.56.77/zabbix/items.php?form=update&hostid=10084&itemid=28715`. The interface has a top navigation bar with tabs for Monitoring, Inventory, Reports, Configuration, and Administration. Below this is a sub-navigation bar with Host groups, Templates, Hosts, Maintenance, Actions, Event correlation, Discovery, and Services. The main content area is titled 'Items' and shows a list of items for the host 'Zabbix\_server'. The 'Items' tab is selected, showing 95 items. The 'Preprocessing' sub-tab is active, displaying the configuration for a specific item named 'Active-Items'. The configuration form includes fields for Name, Type (Zabbix internal), Key (zabbix[host,items]), Type of information (Numeric (unsigned)), Units, Update interval (10s), Custom intervals (Flexible, Scheduling, 50s, 1-7,00:00-24:00), History storage period (Do not keep history, Storage period 90d), Trend storage period (Do not keep trends, Storage period 365d), Show value (As is), New application (Applications list), Populates host inventory field (None), and Description.

**ZABBIX** Monitoring Inventory Reports Configuration Administration

Host groups Templates Hosts Maintenance Actions Event correlation Discovery Services

**Items**

All hosts / Zabbix server Enabled **70x** SHMP [JMX | IPMI] Applications 11 Items 95 Triggers 52 Graphs 15 Discovery rules 2 Web scenarios

**Item** Preprocessing

\* Name

Type

\* Key

Type of information

Units

\* Update interval

Custom intervals

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

[Remove](#)

[Add](#)

\* History storage period

\* Trend storage period

Show value  [show value mappings](#)

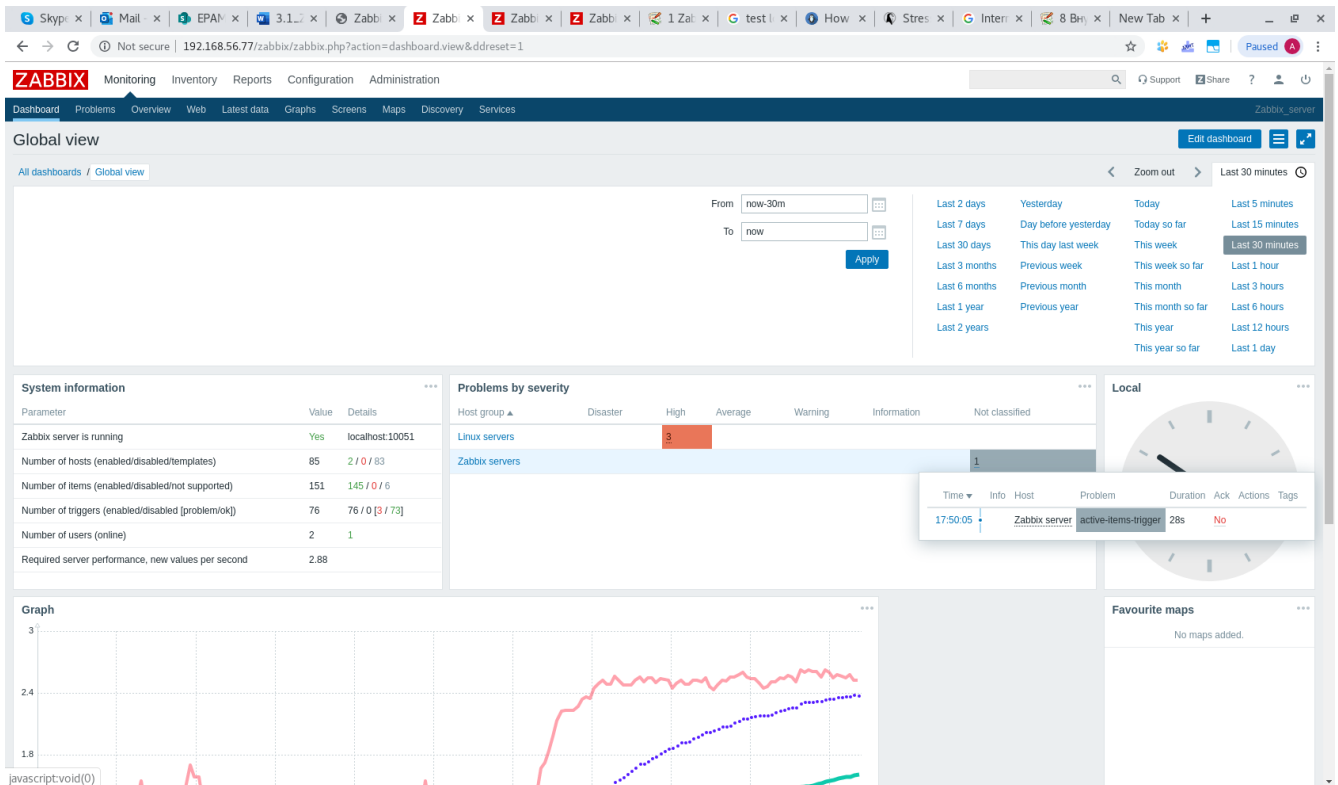
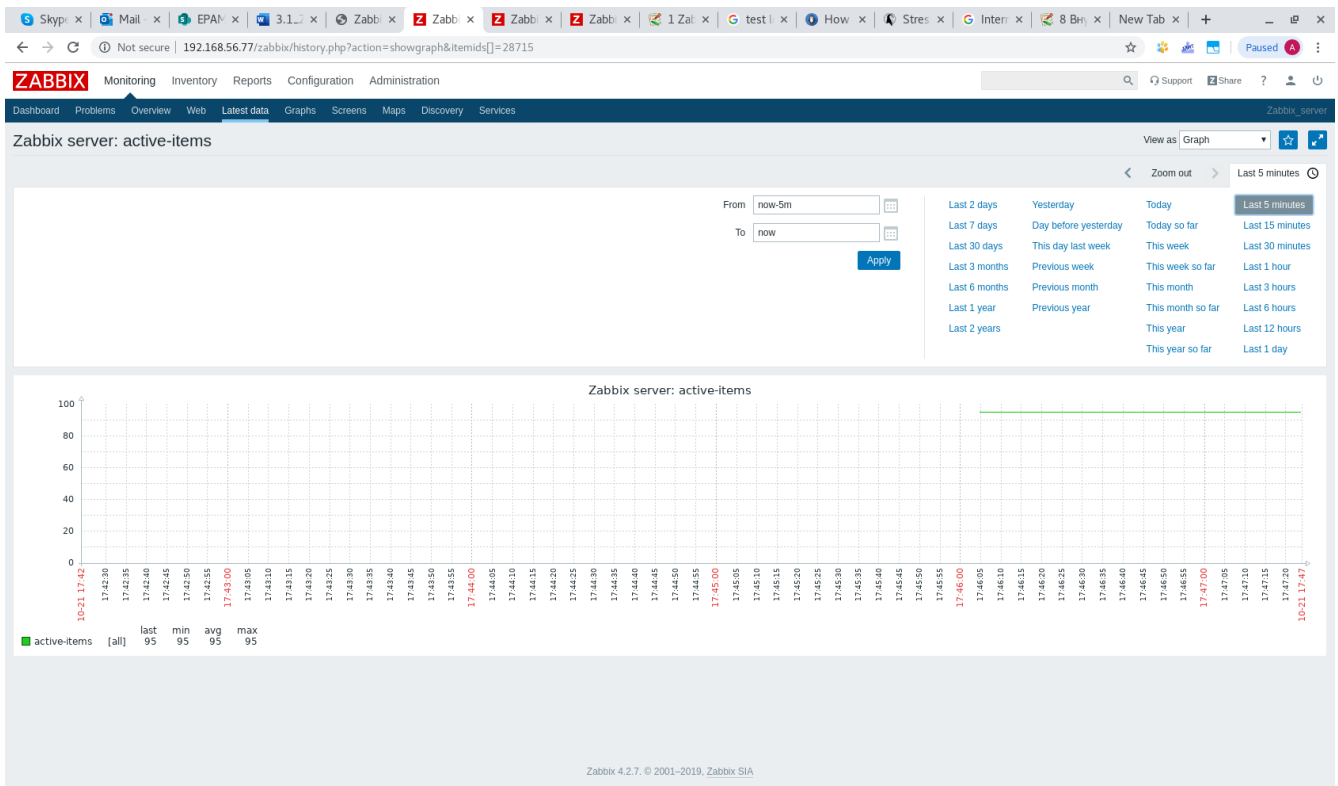
New application

Applications

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

Populates host inventory field

Description



- How many Servers are being monitored

Skype x Mail x EPAI x 3.1... x Zabbix x Zabbix x Zabbix x 1 Zabbix x test x How x Stres x Inter x 8 B... x New Tab x +

Not secure | 192.168.56.77/zabbix/items.php?form=update&hostid=10084&itemid=28716

**ZABBIX** Monitoring Inventory Reports Configuration Administration

Host groups Templates Hosts Maintenance Actions Event correlation Discovery Services

### Items

All hosts / Zabbix server Enabled **ZBX** SNMP [JMX | IPMI] Applications 11 Items 96 Triggers 54 Graphs 15 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="text" value="Scheduling"/>	<input type="text" value="50s"/>	<input type="text" value="1-7,00:00-24:00"/>

\* History storage period

\* Trend storage period

Show value

New application

Applications

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

Populates host inventory field

Description

Skype x Mail x EPAI x 3.1... x Zabbix x Zabbix x Zabbix x 1 Zabbix x test x How x Stres x Inter x 8 B... x New Tab x +

Not secure | 192.168.56.77/zabbix/triggers.php?form=update&triggerid=15947

**ZABBIX** Monitoring Inventory Reports Configuration Administration

Host groups Templates Hosts Maintenance Actions Event correlation Discovery Services

### Triggers

All hosts / Zabbix server Enabled **ZBX** SNMP [JMX | IPMI] Applications 11 Items 96 Triggers 54 Graphs 15 Discovery rules 2 Web scenarios

Trigger Tags Dependencies

\* Name

Severity

\* Expression

[Expression constructor](#)

OK event generation

PROBLEM event generation mode

OK event closes

Allow manual close ☐

URL

Description

Enabled ☒

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