



- Welcome
- Check of pre-requisites
- Configure DB connection
- Zabbix server details
- Pre-installation summary
- Install

Welcome to

Zabbix 4.2

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Check of pre-requisites

	Current value	Required	
PHP version	5.4.16	5.4.0	OK
PHP option "memory_limit"	128M	128M	OK
PHP option "post_max_size"	16M	16M	OK
PHP option "upload_max_filesize"	2M	2M	OK
PHP option "max_execution_time"	300	300	OK
PHP option "max_input_time"	300	300	OK
PHP option "date.timezone"	Europe/Minsk		OK
PHP databases support	MySQL		OK
PHP bcmath	on		OK
PHP mbstring	on		OK

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Configure DB connection

Please create database manually, and set the configuration parameters for connection to this database.
Press "Next step" button when done.

Database type

Database host

Database port 0 - use default port

Database name

User

Password

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Zabbix server details

Please enter the host name or host IP address and port number of the Zabbix server, as well as the name of the installation (optional).

Host

Port

Name

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Pre-installation summary

Please check configuration parameters. If all is correct, press "Next step" button, or "Back" button to change configuration parameters.

Database type	MySQL
Database server	localhost
Database port	3306
Database name	zabbix
Database user	zabbix
Database password	*****
Zabbix server	localhost
Zabbix server port	10051
Zabbix server name	Zabbix Server

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Install

Congratulations! You have successfully installed Zabbix frontend.

Configuration file "/etc/zabbix/web/zabbix.conf.php" created.

[Back](#)[Finish](#)

ZABBIX

MonitoringInventoryReportsConfigurationAdministration

SupportShare?UserPower

DashboardProblemsOverviewWebLatest dataGraphsScreensMapsDiscoveryServices

Zabbix Server

Global view

Edit dashboard

All dashboards / Global view

System information

ParameterValueDetails

Zabbix server is runningYeslocalhost:10051

Number of hosts (enabled/disabled/templates)841 / 0 / 83

Number of items (enabled/disabled/not supported)7973 / 0 / 6

Number of triggers (enabled/disabled [problem/vok])4848 / 0 [1 / 47]

Number of users (online)21

Required server performance, new values per second1.12

Problems by severity

Host groupDisasterHighAverageWarningInformationNot classified

Zabbix servers1

Local

Problems

TimeInfoHostProblem • SeverityDurationAckActionsTags

20:22:21Zabbix serverZabbix agent on Zabbix server is unreachable for 5 minutes8m 53sNo

Favourite maps

No maps added.

root@zabbix:~#

Active In

Proto Rec

tcp

tcp

tcp

tcp

tcp

tcp

udp

udp

User groups

User groupPermissionsTag filter

* Group nameProject Owners

Userspramanouski Xtype here to searchSelect

Frontend accessSystem default

Enabled☒

Debug mode☐

AddCancel

Proto Rec

tcp

tcp

tcp

tcp

tcp

tcp

tcp

tcp

000.0.0.0:100500.0.0.0:*

tcp00127.0.0.1:80050.0.0.0:*

udp000.0.0.0:680.0.0.0:*

udp00127.0.0.1:3230.0.0.0:*

LISTEN16551/zabbix agentd

LISTEN18110/java

5378/dhclient

2598/chronyd

root@webserver vagrant]#

Media

Type Email

* Send to pavel.romanowski@yandex.by [Remove](#)

[Add](#)

* When active 1-7,00:00-24:00

Use if severity ☒ Not classified

☒ Information

☒ Warning

☒ Average

☒ High

☒ Disaster

Enabled ☒

Add

Cancel

ZABBIX Monitoring Inventory Reports Configuration Administration

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

Hosts

All hosts / tomcat_nginx Enabled ZBX SNMP JMX IPMI Applications 10 Items 34 Triggers 15 Graphs 5 Discovery rules 2 Web scenarios

Host **Templates** IPMI Tags Macros Inventory Encryption

Linked templates	Name	Action
	pramanouski_custom_template	Unlink

Link new templates [Select](#)

[Add](#)

Update

Clone

Full clone

Delete

Cancel

All hosts / tomcat_nginxEnabledZBXSNMPJMXIPMIApplications 10Items 34Triggers 15Graphs 5Discovery rules 2Web scenarios

Host groups

type here to search

Select

Hosts

tomcat_nginx X

type here to search

Select

Name

type here to search

Severity

☐ Not classified

☐ Information

☐ Warning

☐ Average

☐ High

☐ Disaster

State

☒ all☐ Normal☐ Unknown

Status

☒ all☐ Enabled☐ Disabled

Value

☒ all☐ OK☐ Problem

Tags

And/OrOr

tag

ContainsEqualsvalue

Add

Inherited

☒ all☐ Yes☐ No

Discovered

☒ all☐ Yes☐ No

With dependencies

☒ all☐ Yes☐ No

Apply

Reset

<input type="checkbox"/>	Severity	Value	Name	Expression	Status	Info	Tags
<input type="checkbox"/>	Warning	OK	pramanouski_custom_template: /etc/passwd has been changed on {HOST.NAME}	{tomcat_nginx.vfs.file.cksum[/etc/passwd].diff(0)}>0	Enabled		
<input type="checkbox"/>	Information	OK	pramanouski_custom_template: Configured max number of opened files is too low on {HOST.NAME}	{tomcat_nginx.kernel.maxfiles.last(0)}<1024	Enabled		
<input type="checkbox"/>	Information	OK	pramanouski_custom_template: Configured max number of processes is too low on {HOST.NAME}	{tomcat_nginx.kernel.maxproc.last(0)}<256	Enabled		
<input type="checkbox"/>	Warning	OK	pramanouski_custom_template: Disk I/O is overloaded on {HOST.NAME}	{tomcat_nginx.system.cpu.util[lowlat].avg(5m)}>20	Enabled		
<input type="checkbox"/>	Information	OK	pramanouski_custom_template: Host information was changed on {HOST.NAME}	{tomcat_nginx.system.uname.diff(0)}>0	Enabled		
<input type="checkbox"/>	Information	OK	pramanouski_custom_template: Host name of Zabbix agent was changed on {HOST.NAME}	{tomcat_nginx.agent.hostname.diff(0)}>0	Enabled		
<input type="checkbox"/>	Information	OK	pramanouski_custom_template: Hostname was changed on {HOST.NAME}	{tomcat_nginx.system.hostname.diff(0)}>0	Enabled		
<input type="checkbox"/>	Average	OK	pramanouski_custom_template: Lack of available memory on server {HOST.NAME}	{tomcat_nginx.vm.memory.size[available].last(0)}<20M	Enabled		
<input type="checkbox"/>	Warning	OK	pramanouski_custom_template: Lack of free swap space on {HOST.NAME}	{tomcat_nginx.system.swap.size[free].last(0)}<50	Enabled		
<input type="checkbox"/>	Warning	OK	pramanouski_custom_template: Processor load is too high on {HOST.NAME}	{tomcat_nginx.system.cpu.load[percpu.avg1].avg(5m)}>5	Enabled		
<input type="checkbox"/>	Warning	OK	pramanouski_custom_template: Too many processes on {HOST.NAME}	{tomcat_nginx.proc.num[] avg(5m)}>300	Enabled		
<input type="checkbox"/>	Warning	OK	pramanouski_custom_template: Too many processes running on {HOST.NAME}	{tomcat_nginx.proc.num[_run] avg(5m)}>30	Enabled		
<input type="checkbox"/>	Information	OK	pramanouski_custom_template: Version of Zabbix agent was changed on {HOST.NAME}	{tomcat_nginx.agent.version.diff(0)}>0	Enabled		
<input type="checkbox"/>	Average	OK	pramanouski_custom_template: Zabbix agent on {HOST.NAME} is unreachable for 5 minutes	{tomcat_nginx.agent.ping.nodata(5m)}=1	Enabled		
<input type="checkbox"/>	Information	OK	pramanouski_custom_template: {HOSTNAME} has just been restarted	{tomcat_nginx.system.uptime.change(0)}>0	Enabled		

Host groupsTemplatesHostsMaintenanceActionsEvent correlationDiscovery rules

Actions

OperationRecovery operationsUpdate operations

Name

TEST ACTION

Conditions

LabelName

ATrigger severity equals High

New condition

Trigger equals

Add

Enabled☒

* At least one operation, recovery operation

AddCancel

Triggers

GroupProject HostsHosttomcat_nginx

<input type="checkbox"/>	Name	Severity	Status
<input type="checkbox"/>	/etc/passwd has been changed on tomcat_nginx	Warning	Unknown
<input type="checkbox"/>	Configured max number of opened files is too low on tomcat_nginx	Information	Enabled
<input type="checkbox"/>	Configured max number of processes is too low on tomcat_nginx	Information	Enabled
<input type="checkbox"/>	Disk I/O is overloaded on tomcat_nginx	Warning	Enabled
<input type="checkbox"/>	Free disk space is less than 20% on volume /	Warning	Enabled
<input type="checkbox"/>	Free disk space is less than 20% on volume /boot	Warning	Enabled
<input type="checkbox"/>	Free inodes is less than 20% on volume /	Warning	Enabled
<input type="checkbox"/>	Free inodes is less than 20% on volume /boot	Warning	Enabled
<input type="checkbox"/>	Host information was changed on tomcat_nginx	Information	Unknown
<input type="checkbox"/>	Host name of Zabbix agent was changed on tomcat_nginx	Information	Unknown
<input type="checkbox"/>	Hostname was changed on tomcat_nginx	Information	Unknown
<input type="checkbox"/>	Lack of available memory on server tomcat_nginx	Average	Enabled
<input type="checkbox"/>	Lack of free swap space on tomcat_nginx	Warning	Enabled
<input type="checkbox"/>	Processor load is too high on tomcat_nginx	Warning	Enabled
<input checked="" type="checkbox"/>	TEST IO DISK CUSTOM EXEMPLE	High	Enabled
<input type="checkbox"/>	tomcat_nginx has just been restarted	Information	Enabled
<input type="checkbox"/>	Too many processes on tomcat_nginx	Warning	Enabled
<input type="checkbox"/>	Too many processes running on tomcat_nginx	Warning	Enabled
<input type="checkbox"/>	Version of Zabbix agent was changed on tomcat_nginx	Information	Unknown
<input type="checkbox"/>	Zabbix agent on tomcat_nginx is unreachable for 5 minutes	Average	Enabled

Select

Cancel

Actions

Action Operations Recovery operations Update operations

Default subject Resolved: {EVENT.NAME}

Default message Problem has been resolved at {EVENT.RECOVERY.TIME} on {EVENT.RECOVERY.DATE}
Problem name: {EVENT.NAME}
Host: {HOST.NAME}
Severity: {EVENT.SEVERITY}

Original problem ID: {EVENT.ID}

Operations Details Action

Operation details

Operation type Remote command ▾

* Target list Target Action
[New](#)

Target Host ▾ tomcat_nginx X
type here to search
[Add](#) [Cancel](#)

Type Custom script ▾

Execute on Zabbix agent Zabbix server (proxy) Zabbix server

* Commands echo "HELLO"

[Add](#) [Cancel](#)

* At least one operation, recovery operation or update operation must exist.

[Add](#) [Cancel](#)

Original problem ID: {EVENT.ID}
{TRIGGER.URL}

Pause operations for suppressed problems ☒

Operations

Steps	Details	Start in	Duration	Action
-------	---------	----------	----------	--------

Operation details

Steps - (0 - infinitely)

Step duration (0 - use action default)

Operation type Remote command ▾

* Target list

Target	Action
New	

Target
type here to search

[Add](#) [Cancel](#)

Type SSH ▾

Authentication method Password ▾

* User name

Password

Port

* Commands

Conditions

Label	Name	Action
New		

[Add](#) [Cancel](#)

* At least one operation, recovery operation or update operation must exist.

Actions

Action Operations [Recovery operations](#) [Update operations](#)

* Default operation step duration

Default subject

Default message

Pause operations for suppressed problems ☒

Operations

Steps	Details	Start in	Duration	Action
1	Send message to user groups: Project Owners via Email	Immediately	Default	Edit Remove
	New			

* At least one operation, recovery operation or update operation must exist.

Media types

Media type [Options](#)

* Name

Type

* SMTP server

SMTP server port

* SMTP helo

* SMTP email

Connection security ☐ None ☐ STARTTLS ☒ SSL/TLS

SSL verify peer ☒

SSL verify host ☒

Authentication ☐ None ☒ Username and password

Username

Password

Message format ☒ HTML ☐ Plain text

Enabled ☒

Test media type



Media type test successful.

* Send to

Subject



pavel.romanowski 2

Test subject - This is the test message from Zabbix

Test
letter

Alert by trigger:

Updated problem: DISK TEST TRIGGER

P

pavel.romanowski@yandex.by

Сегодня, 0:37

Pavel Ramanouski

Отвечить всем

Zabbix Administrator (Admin) commented problem at 2019.06.27 21:36:55. 1 Current problem status is PROBLEM, acknowledged: No.

Auto discovery

ZABBIX

MonitoringInventoryReportsConfigurationAdministration

SupportShare

Host groupsTemplatesHostsMaintenanceActionsEvent correlationDiscoveryServices

Actions

ActionOperations

NameAuto discovery. Linux servers.

Conditions

Label	Name	Action
New condition	Host IP	equals192.168.0.1-127,192.168.2.1

Enabled☒

At least one operation must exist.

AddCancel

Actions

ActionOperations

Default subjectDiscovery: {DISCOVERY.DEVICE.STATUS} {DISCOVERY.DEVICE.IPADDRESS}

Default messageDiscovery rule: {DISCOVERY.RULE.NAME}
Device IP: {DISCOVERY.DEVICE.IPADDRESS}
Device DNS: {DISCOVERY.DEVICE.DNS}
Device status: {DISCOVERY.DEVICE.STATUS}
Device uptime: {DISCOVERY.DEVICE.uptime}

Operations

Details	Action
Send message to users: pramanouski via Email	EditRemove
Add to host groups: Project Hosts	EditRemove
New	

At least one operation must exist.

AddCancel

<input type="checkbox"/> Name ▲	Conditions	Operations	Status
<input type="checkbox"/> Autodiscovery.add	Uptime/Downtime is greater than or equals 60 Discovery status equals Up Host IP equals 192.168.0.1-127.192.168.2.1	Send message to users: pramanouski via Email Add to host groups: Project Hosts	Enabled

ZABBIX
Monitoring
Inventory
Reports
Configuration
Administration

Dashboard
Problems
Overview
Web
Latest data
Graphs
Screens
Maps
Discovery
Services

Status of discovery

Discovery rule
Select

Apply
Reset

Discovered device ▲	Monitored host	Uptime/Downtime	Zabbix agent system uptime
Local network (1 device)			
192.168.0.51	tomcat_nginx	00:11:27	11m 27s

zabbix-sender:

Items

All hosts / tomcat_nginx
Enabled
ZBX
SNMP
JMX
IPMI
Applications 10
Items 49
Triggers 20
Graphs 9
Discovery rules 2
Web scenarios

Item
Preprocessing

* Name

Type

* Key
Select

Type of information

* History storage period

Allowed hosts

New application

Applications

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

Populates host inventory field

Description

Enabled
☒

Update
Clone
Check now
Clear history and trends
Delete
Cancel

```
[root@webserver vagrant]# zabbix_sender -z 192.168.0.50 -s "tomcat_nginx" -k 123 -o "HELL01" -vv
zabbix_sender [6911]: DEBUG: answer [{"response":"success","info":"processed: 1; failed: 0; total: 1; seconds spent: 0.000113"}]
Response from "192.168.0.50:10051": "processed: 1; failed: 0; total: 1; seconds spent: 0.000113"
sent: 1; skipped: 0; total: 1
[root@webserver vagrant]#
```

ZABBIX Monitoring Inventory Reports Configuration Administration

Dashboard Problems Overview Web Latest data Graphs Screens Maps Discovery Services

Latest data

Filter

Host groups Name

Hosts Show items without data ☒

Show details ☒

Application

<input type="checkbox"/> Host	Name ▲	Interval	History	Trends	Type	Last check	Last value	Change	Info
▼ tomcat_nginx	- other - (1 item)								
<input type="checkbox"/>	Sender custom item 123	90d			Zabbix trapper	2019-06-28 14:23:57	HELLO1		History

0 selected

zabbix-get from tomcat_nginx :

```
[root@zabbix zabbix]# zabbix_get -s 192.168.0.51 -p 10050 -k 'system.cpu.load[all,avg5]'
0.010000
[root@zabbix zabbix]#
```