



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

Welcome to

Zabbix 4.2

Back

Next step



- Welcome
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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

Back

Next step



Welcome

Check of pre-requisites

Configure DB connection

Zabbix server details

Pre-installation summary

Install

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

Back

Next step



Welcome

Check of pre-requisites

Configure DB connection

Zabbix server details

Pre-installation summary

Install

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

Back

Next step



Welcome

Check of pre-requisites

Configure DB connection

Zabbix server details

Pre-installation summary

Install

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

Back

Next step



Welcome

Check of pre-requisites

Configure DB connection

Zabbix server details

Pre-installation summary

Install

Install

Congratulations! You have successfully installed Zabbix frontend.

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

Back

Finish

ZABBIX

MonitoringInventoryReportsConfigurationAdministration

SupportShare?UserPower

Zabbix Server

DashboardProblemsOverviewWebLatest dataGraphsScreensMapsDiscoveryServices

Global view

Edit dashboard

All dashboards / Global view

System information

Parameter	Value	Details
Zabbix server is running	Yes	localhost:10051
Number of hosts (enabled/disabled/templates)	84	1 / 0 / 83
Number of items (enabled/disabled/not supported)	79	73 / 0 / 6
Number of triggers (enabled/disabled [problem/vok])	48	48 / 0 [1 / 47]
Number of users (online)	2	1
Required server performance, new values per second	1.12	

Problems by severity

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

Local

Problems

Time	Info	Host	Problem	Severity	Duration	Ack	Actions	Tags
20:22:21		Zabbix server	Zabbix agent on Zabbix server is unreachable for 5 minutes	High	8m 53s	No		

Favourite maps

No maps added.

```
[root@zabbix zabbix]# netstat -tulpn
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 0.0.0.0:3306             0.0.0.0:*               LISTEN      29430/mysqld
tcp        0      0 0.0.0.0:80               0.0.0.0:*               LISTEN      29675/httpd
tcp        0      0 0.0.0.0:22               0.0.0.0:*               LISTEN      2897/sshd
tcp        0      0 127.0.0.1:25             0.0.0.0:*               LISTEN      3042/master
tcp        0      0 0.0.0.0:10050            0.0.0.0:*               LISTEN      29906/zabbix_agentd
tcp        0      0 0.0.0.0:10051            0.0.0.0:*               LISTEN      29667/zabbix_server
udp        0      0 0.0.0.0:68               0.0.0.0:*               LISTEN      5403/dhclient
udp        0      0 127.0.0.1:323           0.0.0.0:*               LISTEN      2579/chronyd
```

```
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 0.0.0.0:8009             0.0.0.0:*               LISTEN      18110/java
tcp        0      0 0.0.0.0:8080             0.0.0.0:*               LISTEN      18110/java
tcp        0      0 0.0.0.0:80               0.0.0.0:*               LISTEN      18103/nginx: master
tcp        0      0 0.0.0.0:22               0.0.0.0:*               LISTEN      2899/sshd
tcp        0      0 127.0.0.1:25             0.0.0.0:*               LISTEN      3039/master
tcp        0      0 0.0.0.0:10050            0.0.0.0:*               LISTEN      18551/zabbix_agentd
tcp        0      0 127.0.0.1:8005           0.0.0.0:*               LISTEN      18110/java
udp        0      0 0.0.0.0:68               0.0.0.0:*               LISTEN      5378/dhclient
udp        0      0 127.0.0.1:323           0.0.0.0:*               LISTEN      2598/chronyd
[root@webserver vagrant]#
```

User groups

User group

Permissions

Tag filter

* Group name

Project Owners

Users

pramanouski

type here to search

Select

Frontend access

System default

Enabled

☒

Debug mode

☐

Add

Cancel

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_nginxEnabled26XSNMPJMXIPMIApplications 10Items 34Triggers 15Graphs 5Discovery rules 2Web scenariosFilter

Host groups

type here to search

Select

Hosts

tomcat_nginx

Select

Name

type here to search

Severity

☐ Not classified

☐ Average

☐ Information

☐ High

☐ Warning

☐ Disaster

State

☒ all

☐ Normal

☐ Unknown

Status

☒ all

☐ Enabled

☐ Disabled

Value

☒ all

☐ OK

☐ Problem

Tags

And/OrOr

tag

Contains

Equals

value

Remove

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[lowail].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.vmm.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

ActionOperationsRecovery operationsUpdate operations

* Name

TEST ACTION

Conditions

Label

A

Name

Trigger severity equals High

New condition

Trigger

equals

Add

Enabled

☒

* At least one operation, recovery operation

Add

Cancel

Triggers

Group

Project Hosts

Host

tomcat_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 ✕
 type here to search Select
[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

Problem started at {EVENT.TIME} on {EVENT.DATE}
Problem name: {EVENT.NAME}
Host: {HOST.NAME}
Severity: {EVENT.SEVERITY}
Original problem ID: {EVENT.ID}
{TRIGGER.URL}

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 letter

Test media type

☒ Media type test successful.

* Send to

Subject

* Message

Alert by trigger:

☐ ☆ ➡ pavel.romanowski 2 Test subject - This is the test message from Zabbix

Updated problem: DISK TEST TRIGGER



pavel.romanowski@yandex.by

Сегодня, 0:37

Pavel Ramanouski



Ответить всем

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



Monitoring

Inventory

Reports

Configuration

Administration



Support

Share

Host groups Templates Hosts Maintenance Actions Event correlation Discovery Services

Actions

Action Operations

* Name Auto discovery. Linux servers.

Conditions Label Name Action

New condition Host IP equals 192.168.0.1-127,192.168.2.1

Add

Enabled ☒

* At least one operation must exist.

Add

Cancel

Auto discovery

Name	Conditions	Operations	Status
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

Action Operations

Default subject Discovery: {DISCOVERY.DEVICE.STATUS} {DISCOVERY.DEVICE.IPADDRESS}

Default message
Discovery 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

Send message to users: pramanouski via Email

Action

Edit Remove

Add to host groups: Project Hosts

Edit Remove

New

* At least one operation must exist.

Add

Cancel

ZABBIX Monitoring Inventory Reports Configuration Administration

Dashboard Problems Overview Web Latest data Graphs Screens Maps **Discovery** Services

Status of discovery

Discovery rule

Discovered device ▲	Monitored host	Uptime/Downtime	Zabbix agent system username
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

Type of information

* History storage period

Allowed hosts

New application

Applications

- CPU
- Filesystems
- General
- Memory
- Network interfaces
- OS
- Performance
- Processes
- Security

Populates host inventory field

Description

Enabled ☒

```
[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]#
```

ZABBIXMonitoringInventoryReportsConfigurationAdministration

DashboardProblemsOverviewWebLatest dataGraphsScreensMapsDiscoveryServicesZabbix

Latest data

Filter

Host groups

type here to search

Select

Hosts

tomcat_nginx X

type here to search

Select

ApplicationSelect

Name

sender

Show items without data☒

Show details☒

ApplyReset

<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 selectedDisplay stacked graphDisplay graph

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]#
```