

ДЗ-05: Zabbix

Установка Zabbix

https://www.zabbix.com/download?zabbix=6.4&os_distribution=debian&os_version=12&components=server_frontend_agent&db=mysql&ws=apache

Настройка шаблона (LLD)

Создание шаблона

ZABBIX << >>

Search

Navigation: Dashboards, Monitoring, Services, Inventory, Reports, Data collection, Template groups, Host groups, **Templates**, Hosts

Templates

All templates / **Otus metrics** / Items / Triggers / Graphs / Dashboards / Discovery rules 1 / Web scenarios

Template | Tags | Macros | Value mapping

* Template name:

Visible name:

Templates:

* Template groups:

Description:

Discovery rules

All templates / Otus metrics

Discovery list / Otus metric discovery

Item prototypes 1

Trigger prototypes 1

Graph prototypes

Host prototypes

Discovery rule

Preprocessing 1

LLD macros 1

Filters

Overrides

* Name

Otus metric discovery

Type

HTTP agent

* Key

otus.metrics.discovery

* URL

http://127.0.0.1:2112/metrics

Parse

Query fields

Name

value

name

value

Add

Remove

Request type

GET

* Timeout

3s

Request body type

Raw data

JSON data

XML data

Request body

Headers

Name

value

name

value

Add

Remove

Required status codes

200

Follow redirects

☒

Retrieve mode

Body

Headers

Body and headers

HTTP proxy

[protocol://][user[:password]@]proxy.example.com[:port]

HTTP authentication

None

SSL verify peer

☐

SSL verify host

☐

SSL certificate file

SSL key file

Discovery rules

All templates / Otus metrics / Discovery list / Otus metric discovery

Item prototypes 1Trigger prototypes 1Graph prototypesHost prototypes

Discovery rule

Preprocessing 1

LLD macros 1

Filters

Overrides

Preprocessing steps

1: JavaScript

Parameters

const regex = /(\w+)\[(\w+)\] (\d+)/g;...

Custom on fail

Actions

Test Remove

Test all steps

Add

Update

Clone

Test

Delete

Cancel

Препроцесинг при помощи JS:

```
const regex = /(\w+)\[(\w+)\] (\d+)/g;
var match;
var lines = [];
while ((match = regex.exec(value)) !== null) {
  const name = match[2];
  const val = match[3];
  lines.push({ name, value: Number(val) });
}
return JSON.stringify(lines);
```

Discovery rules

All templates / Otus metrics / Discovery list / Otus metric discovery

Item prototypes 1Trigger prototypes 1Graph prototypesHost prototypes

Discovery rule

Preprocessing 1

LLD macros 1

Filters

Overrides

LLD macros

LLD macro

JSONPath

{#NAME}

\$.name

Remove

Add

Update

Clone

Test

Delete

Cancel

Прототип итема

Item prototypes

All templates / Otus metrics

Discovery list / Otus metric discovery

Item prototypes 1

Trigger prototypes 1

Graph prototypes

Host prototypes

Item prototype

Tags

Preprocessing 2

* Name

Metric - {#NAME}

Type

HTTP agent

* Key

otus.metrics[{#NAME}]

Select

Type of information

Numeric (unsigned)

* URL

http://127.0.0.1:2112/metrics

Parse

Query fields

Name

Value

name

value

Remove

Add

Request type

GET

* Timeout

3s

Request body type

Raw data

JSON data

XML data

Request body

Headers

Name

Value

name

value

Remove

Add

Required status codes

200

Follow redirects

☒

Retrieve mode

Body

Headers

Body and headers

Convert to JSON

☐

HTTP proxy

[protocol://[user[:password]@]proxy.example.com[:port]

HTTP authentication

None

SSL verify peer

☐

SSL verify host

☐

Item prototypes

All templates / Otus metrics

Discovery list / Otus metric discovery

Item prototypes 1

Trigger prototypes 1

Graph prototypes

Host prototypes

Item prototype

Tags

Preprocessing 2

Preprocessing steps

Name

Parameters

Custom on fail

Actions

1: JavaScript

const regex = /(\\w+)\\[(\\w+)\\] (\\d+)/g;--

☐

Test Remove

2: JSONPath

\${?(@.name == '{#NAME}')}.value.first()

☐

Test Remove

Add

Type of information

Numeric (unsigned)

Update

Clone

Test

Delete

Cancel

Тайкой же JS скрипт как выше + берем значение нужной метрики.

Trigger prototypes

All templates / Otus metrics

Discovery list / Otus metric discovery

Item prototypes 1

Trigger prototypes 1

Graph prototypes

Host prototypes

Trigger prototype

Tags

Dependencies

* Name

[#NAME] is too high

Event name

[#NAME] is too high

Operational data

Severity

Not classified

Information

Warning

Average

High

Disaster

* Expression

last(/Otus metrics/otus.metrics.[[#NAME]])>=95

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

Menu entry name ?

Trigger URL

Menu entry URL

Description

Create enabled

Discover

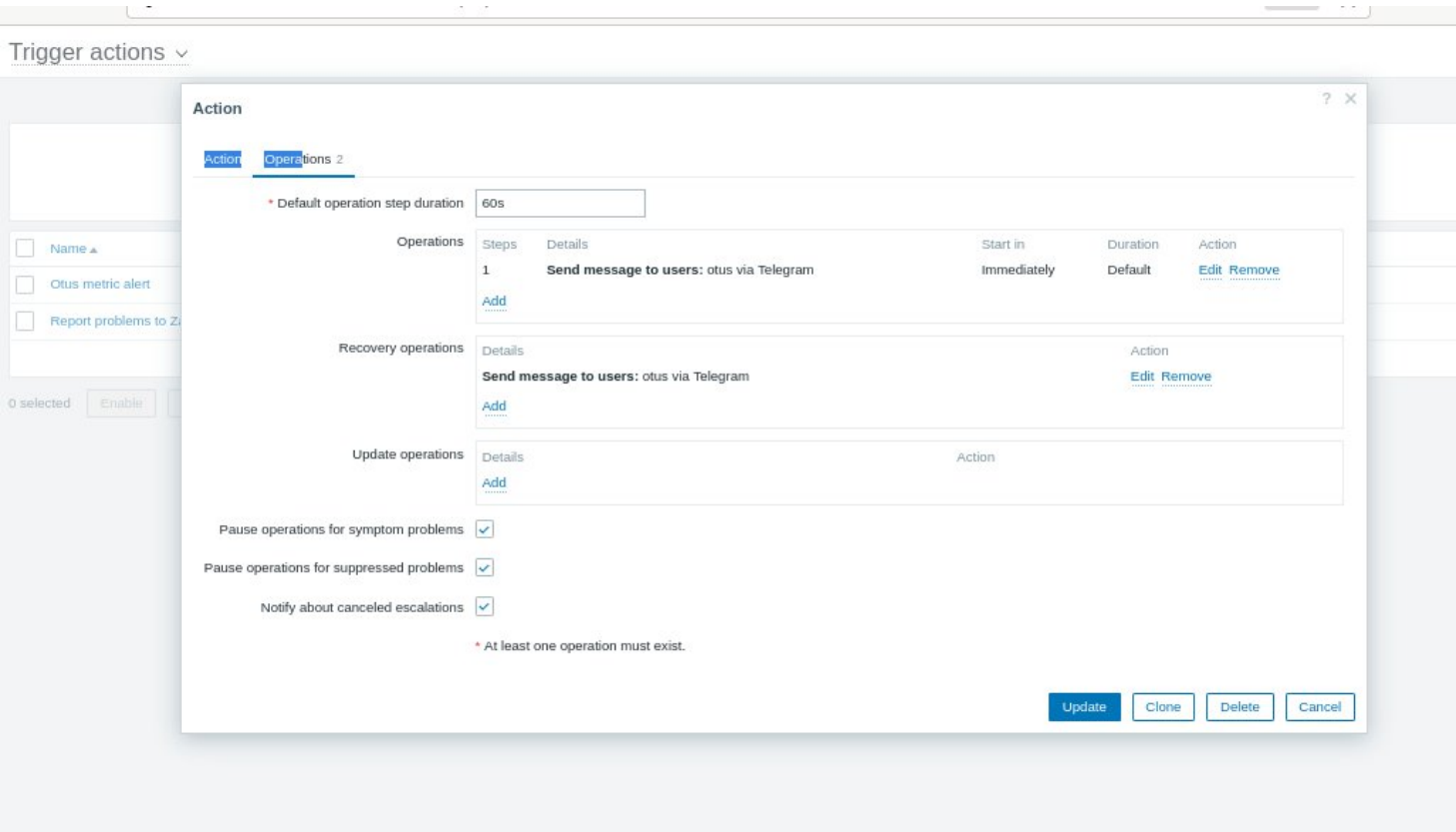
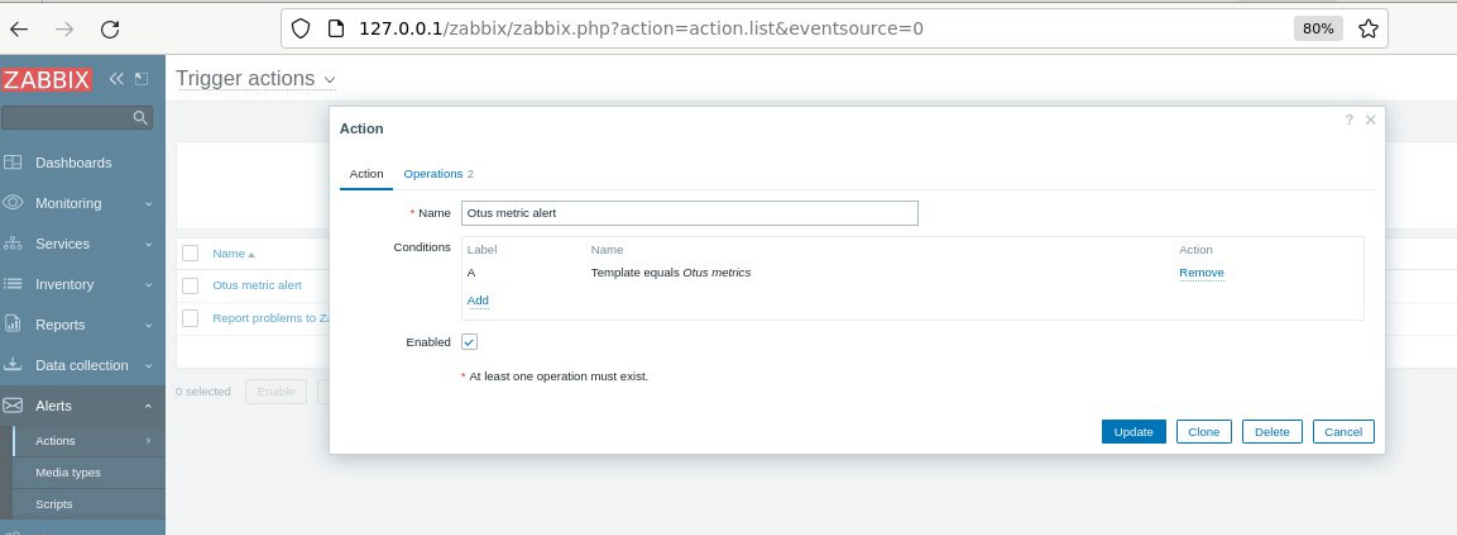
Update

Clone

Delete

Cancel

Алерт
У пользователя должны быть права на чтение host'a.



Media types

Media type Message templates 5 Options

Name

Telegram

Type

Webhook

Parameters

Name	Value	Action
Message	{ALERT.MESSAGE}	Remove
ParseMode		Remove
Subject	{ALERT.SUBJECT}	Remove
To	{ALERT.SENDTO}	Remove
Token	6872042843:AAGjcVvXrm4zs0Jkl	Remove

Add

Script

var Telegram = {...

Timeout

10s

Process tags

☐

Include event menu entry

☐

Menu entry name

Menu entry URL

Description

https://git.zabbix.com/projects/ZBX/repos/zabbix/browse/templates/media/telegram

1. Register bot: send "/newbot" to @BotFather and follow instructions
2. Copy and paste the obtained token into the "Token" field above
3. If you want to send personal notifications, you need to get chat id of the user you want to send messages to:
3.1. Send "/getid" to "@myidbot" in Telegram messenger

Enabled

☒

Update

Clone

Delete

Cancel

Users

User Media 1 Permissions

Media

Type	Send to
Telegram	-1000000000000

Add

Update

Media

Type

Telegram

Send to

-1016789318733

When active

1-7,00:00-24:00

Use if severity

☒ Not classified

☒ Information

☒ Warning

☒ Average

☒ High

☒ Disaster

Enabled

☒

Update

Cancel

Name ▲

Otus metric app

Zabbix server

0 selected

Enable

Host

IPMI

Tags

Macros

Inventory

Encryption

Value mapping

* Host name

Otus metric app

Visible name

Otus metric app

Templates

Name	Action
Otus metrics	Unlink Unlink and clear

type here to search

Select

* Host groups

Applications X

type here to search

Select

Interfaces

No interfaces are defined.

Add

Description

Monitored by proxy

(no proxy)

Enabled

☒

Update

Clone

Full clone

Delete

Cancel

Remove

Availability

Agent

None

ZBX

None

Дашбоард

