

Opensource ICT Solutions

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Using Frontend scripts to the Max



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Rick van der Ploeg

Zabbix Consultant



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Your Zabbix partner in:

- The Netherlands
- United Kingdom
- United States



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What will I cover

- Brief introduction
- Enhancing Zabbix with Frontend scripts
- Real-world example
- General recommendations



Introduction

Scripts

- Action operation
- Manual host action
- Manual event action

Scope: Action operation | Manual host action | **Manual event action**

Menu path: <sub-menu/sub-menu/...>

Type: URL | Webhook | **Script** | SSH | Telnet | IPMI

Execute on: Zabbix agent | **Zabbix proxy or server** | Zabbix server

* Commands:

Advanced configuration

Enable user input

* Input prompt:

Input type: **String** | Dropdown

Default input string:

* Input validation rule:

Enable confirmation

Confirmation text:



Introduction - Macros

Macros

- Dynamic without Manual input
- Context aware Actions
- Integration with external tools/endpoints

Output

```
$URL: https://192.168.20.10
$USER: api_user
$PASSWD: passwd
TRIGGER.ID 23936
EVENT.ID: 22381
EVENT.TAGS: class:storage, component:disk, scope:performance, target:netapp, disk:1.0.1, node:stor01
```



Introduction – Action conditions

Action logic

- Simplifies script logic
- Reduces script complexity

Action

Action **Operations 2**

* Name

Type of calculation A and B

Conditions

Label	Name
A	Value of tag <i>component</i> equals <i>disk</i>
B	Template equals <i>NetApp AFF A700 by HTTP</i>
Add	

New condition

Type

Operator

Trigger source

* Triggers

Select

Add

Cancel



Enhancing Zabbix with frontend scripts

Manual Actions

- Practical use
- Easy to implement
- Scalable
- Improve escalation efficiency

Severity	Info	Host	Problem
1 • Average		Zabbix server	Zabbix agent is not available (for 3m) ?



Enhancing Zabbix with frontend scripts

Severity	Info	Host	Problem
Average		Zabbix server	Zabbix agent is not available (for 3m) ?

SCRIPTS Show details

Backup Acknowledged By me

OS

Report

Service Ticket

VPN

Zabbix

Agent Agent status

Host Actions Tail Zabbix Agent log

Maintenance

Server

Save as Apply Reset



Enhancing Zabbix with frontend scripts

Agent status



Script execution successful.

Output

```
• zabbix-agent.service - Zabbix Agent
  Loaded: loaded (/usr/lib/systemd/system/zabbix-agent.service;
disabled; vendor preset: disabled)
  Active: inactive (dead)
```



Real-world example – Trigger action

Use case:

“Simplify disk/hardware replacement”

- Management of a few dozen Storage clusters
- Frequent hardware failure (Disks, PSU's, Fans etc.)



Real-world examples – Trigger action

Implementation

- Adjusted the default NetApp template (a little bit)
- Defined trigger action

Action

Action [Operations 2](#)

* Name

Type of calculation A and B

Conditions	Label	Name	Action
	A	Value of tag <i>component</i> equals <i>disk</i>	Remove
	B	Template equals <i>NetApp AFF A700 by HTTP</i>	Remove
	Add		



Real-world examples – Trigger action

Implementation

- Action operation

Action ? X

Action Operations 2

* Default operation step duration

Operations

Steps	Details	Start in	Duration	Action
1	Send message to users: servicenow_user via ServiceNow	Immediately	Default	Edit Remove
2	Run script "capture disk details & update case" on current host	00:01:00	Default	Edit Remove

[Add](#)



Real-world examples – Trigger action

Results & lessons learned

- Process Optimization
- Eliminated Manual Steps
- Scalability
- Automation mindset



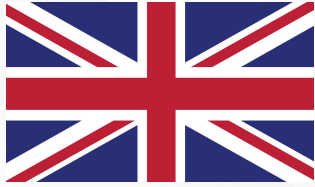
When should you use frontend scripts

General recommendations to get the most out of your scripts

- KISS
- Create your scripts to be dynamic with the available macros in mind
- Minimize the amount of actions
- Automate low hanging fruit



Contact



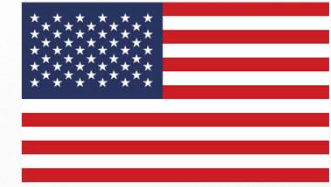
Opensource ICT Solutions LTD

2 Leman Street
London E1W 9US
United Kingdom
T. +44 (0) 20 4551 1827
E. info@oicts.co.uk
W. <https://oicts.co.uk>



Opensource ICT Solutions B.V.

Tappersweg 14-024
2031EV Haarlem
The Netherlands
T. +31 (0) 72 743 65 83
E. info@oicts.nl
W. <https://oicts.nl>



Opensource ICT Solutions LLC

251 Little Falls Drive
Wilmington, DE 19808
United States
T. +1 (929) 377 1253
E. info@oicts.com
W. <https://oicts.com>

