

EPAM Systems, RD Dep., RD Dep.

MTN.NIX.05.Zabbix.Tools

REVISION HISTORY					
Ver.	Description of Change	Author	Date	Approved	
				Name	Effective Date
1.0	Initial Version	Siarhei Beliakou	23/May/2017		

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Task. Zabbix Tools

Testing Infrastructure:

Vagrantfile to spin up 2 VMs (virtualbox):

- zabbix server, provisioned by Vagrant provisioner
- Linux VM with zabbix agent, script for registration on zabbix server, all provisioned by Vagrant provisioner

Task:

1. Configure the agent for replying to the specific server in passive and active mode.
2. Use zabbix_sender to send data to server manually (use zabbix_sender with key -vv for maximal verbosity).

The screenshot shows the Zabbix web interface with the 'Configuration' menu highlighted. The 'Items' page is active, showing a breadcrumb trail: 'All hosts / zbx-agent / Enabled / ZBX / Items 52'. The 'Preprocessing' tab is selected. The form for creating a new item is displayed with the following fields:

- Name:** TEST-ITEM
- Type:** Zabbix trapper
- Key:** TEST.connections
- Type of information:** Text
- History storage period:** Do not keep history (selected), Storage period: 90d
- Allowed hosts:** (empty field)
- New application:** (empty field)
- Applications:** A dropdown menu is open, showing options: -None-, CPU, Disk sda, Filesystems, General, Inventory, Memory, Monitoring agent, Network interfaces, Security.
- Populates host inventory field:** -None-
- Description:** (empty text area)
- Enabled:** ☒

At the bottom of the form are several buttons: Update, Clone, Check now, Clear history and trends, Delete, and Cancel.

```
[root@zabbix-ag12 zabbix]# zabbix_sender -vv -z 192.168.56.121 -s "zbx-agent" -k TEST.connections -o its-test-message-from-sender
zabbix_sender [13684]: DEBUG: answer [{"response":"success","info":"processed: 1; failed: 0; total: 1; seconds spent: 0.000028"}]
Response from "192.168.56.121:10051": "processed: 1; failed: 0; total: 1; seconds spent: 0.000028"
sent: 1; skipped: 0; total: 1
```

zbx-agent		- other - (2 items)				
<input type="checkbox"/>	TEST-ITEM	90d	Zabbix trapper	2019-10-18 19:56:39	its-test-message-from-sender	History
	TEST.connections					

3. Use zabbix_get as data receiver and examine zabbix agent sending's. For both VMs use vagrant box "sbeliakou/centos-7.3-x86_64-minimal"

```
[root@zabbix-srv12 vagrant]#
[root@zabbix-srv12 vagrant]# zabbix_get -s 192.168.56.122 -p 10050 -k vm.memory.size[available]
543526912
[root@zabbix-srv12 vagrant]# zabbix_get -s 192.168.56.122 -p 10050 -k 'system.cpu.load[all,avg1]'
0.000000
[root@zabbix-srv12 vagrant]# █
```