EPAM Systems, RD Dep., RD Dep.

MTN.NIX.05.Zabbix.Tools

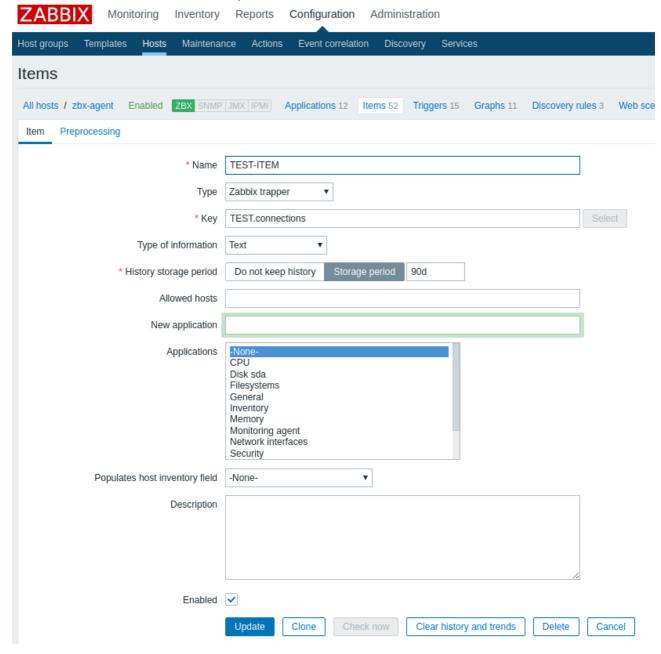|		REVISION HISTORY			
Ver.	**Description of Change**	**Author**	**Date**	**Approved**	
				Name	**Effective Date**
1.0	Initial Version	Siarhei Beliakou	23/May/2017		

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).

ZABBIX   Monitoring   Inventory   Reports   Configuration   Administration

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

Items

All hosts / zbx-agent   Enabled   **ZBX** SNMP JMX IPMI   Applications 12   Items 52   Triggers 15   Graphs 11   Discovery rules 3   Web sce

Item   Preprocessing

* Name	TEST-ITEM
Type	Zabbix trapper ▼
* Key	TEST.connections Select
Type of information	Text ▼
* History storage period	Do not keep history Storage period 90d
Allowed hosts	
New application	
Applications	-None- CPU Disk sda Filesystems General Inventory Memory Monitoring agent Network interfaces Security
Populates host inventory field	-None- ▼
Description	
Enabled	✔

Update   Clone   Check now   Clear history and trends   Delete   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)					
	TEST-ITEM TEST.connections	90d	Zabbix trapper	2019-10-18 19:56:39	its-test-message-from-sender	History

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]# █
```