

EPAM Systems, RD Dep., RD Dep.

MTN.NIX.05.Zabbix.API

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 API

Task:

You should develop a script (on Python 2.x) which registers given host in Zabbix.

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

Registering Script requirements:

- Written on Python 2.x
- Starts at VM startup or on provision phase
- Host registered in Zabbix server should have Name = Hostname (not IP)
- Host registered in Zabbix server should belong to "CloudHosts" group
- Host registered in Zabbix server should be linked with Custom template
- This script should create group "CloudHosts" id it doesn't exist

For both VMs use vagrant box "sbeliakou/centos-7.3-x86_64-minimal"

The screenshot displays the Zabbix web interface. The top section shows a list of hosts with columns for Name, Applications, Items, Triggers, Graphs, Discovery, Web, Interface, Templates, Status, Availability, Agent encryption, Info, and Tags. Two hosts are listed: 'Zabbix-Auto-Agent' and 'Zabbix server'. Below this, a modal window is open for the 'CloudHosts' group, showing its details and members. The group 'CloudHosts' has 1 host and 1 template. The member 'Zabbix-Auto-Agent' is listed under the 'Members' tab. The 'Discovered hosts' group is also visible at the bottom.

Name	Applications	Items	Triggers	Graphs	Discovery	Web	Interface	Templates	Status	Availability	Agent encryption	Info	Tags
<input type="checkbox"/> Zabbix-Auto-Agent	Applications	Items	Triggers	Graphs	Discovery	Web	192.168.56.198:10050	Kapitoshka	Enabled	ZBX SNMP JMX IPMI	NONE		
<input type="checkbox"/> Zabbix server	Applications 11	Items 95	Triggers 57	Graphs 15	Discovery 2	Web	127.0.0.1:10050	Template App Zabbix Server, Template OS Linux (Template App Zabbix Agent)	Enabled	ZBX SNMP JMX IPMI	NONE		

0 selected Enable Disable Export Mass update Delete

Displaying 2 of 2 found

Name	Hosts	Templates	Members
<input type="checkbox"/> CloudHosts	Hosts 1	Templates 1	Kapitoshka
			Zabbix-Auto-Agent
<input type="checkbox"/> Discovered hosts	Hosts	Templates	