EPAM Systems, RD Dep.

MTN.NIX.Zabbix_API

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

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

```
hosts = zapi.do_request('host.create',
                        {
                            "host": Hostname,
                            "interfaces": [
                                {
                                    "type": 1,
                                    "main": 1,
                                    "useip": 1,
                                    "ip": host_ip,
                                    "dns": "",
                                    "port": "10050"
                                }
                            ],
                            "groups": [
                                {
                                    "groupid": group_id
                                }
                            ],
                            "templates": [
                                {
                                    "templateid": template_id
                                },
                                {
                                    "templateid": "10001"
                                }

                            ]
                        })
```

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

Hosts

All hosts / tomcat   Enabled   ZBX SNMP JMX IPMI   Applications 10   Items 34   Triggers 15   Graphs 5   Discovery rules 2   Web scenarios

Host   Templates   IPMI   Tags   Macros   Inventory   Encryption

* Host name: tomcat

Visible name:

* Groups: CloudHosts ✕   [Select]
type here to search

* At least one interface must exist.

Agent interfaces:

IP address	DNS name	Connect to	Port	Default	
192.168.56.33		IP DNS	10050	●	Remove

Add

SNMP interfaces: Add

JMX interfaces: Add

IPMI interfaces: Add

Description:

Monitored by proxy: (no proxy) ▼

Enabled: ✔

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Zabbix 4.2.7. © 2001–2019, Zabbix SIA

Templates

All templates / custom template   Applications   Items   Triggers   Graphs   Screens   Discovery rules   Web scenarios

Template   Linked templates   Tags   Macros

* Template name: custom template

Visible name:

* Groups: CloudHosts ✕   [Select]
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