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.

```
##### Passive checks related

### Option: Server
#       List of comma delimited IP addresses, optionally in CIDR notation, or DNS names of Zabbix servers and Zabbix proxies.
#       Incoming connections will be accepted only from the hosts listed here.
#       If IPv6 support is enabled then '127.0.0.1', '::127.0.0.1', '::ffff:127.0.0.1' are treated equally
#       and '::/0' will allow any IPv4 or IPv6 address.
#       '0.0.0.0/0' can be used to allow any IPv4 address.
#       Example: Server=192.168.56.101,192.168.1.0/24,::1,2001:db8::/32,zabbix.example.com
#
# Mandatory: yes, if StartAgents is not explicitly set to 0
# Default:
# Server=

Server=192.168.56.101

### Option: ListenPort
#       Agent will listen on this port for connections from the server.
#
# Mandatory: no
# Range: 1024-32767
# Default:
ListenPort=10050

### Option: ListenIP
#       List of comma delimited IP addresses that the agent should listen on.
#       First IP address is sent to Zabbix server if connecting to it to retrieve list of active checks.
#
# Mandatory: no
# Default:
ListenIP=0.0.0.0
```

```
##### Active checks related

### Option: ServerActive
#       List of comma delimited IP:port (or DNS name:port) pairs of Zabbix servers and Zabbix proxies for active checks.
#       If port is not specified, default port is used.
#       IPv6 addresses must be enclosed in square brackets if port for that host is specified.
#       If port is not specified, square brackets for IPv6 addresses are optional.
#       If this parameter is not specified, active checks are disabled.
#       Example: ServerActive=192.168.56.101:20051,zabbix.domain,[::1]:30051,::1,[12fc::1]
#
# Mandatory: no
# Default:
# ServerActive=


ServerActive=192.168.56.101
### Option: Hostname
#       Unique, case sensitive hostname.
#       Required for active checks and must match hostname as configured on the server.
#       Value is acquired from HostnameItem if undefined.
#
# Mandatory: no
# Default:
# Hostname=

Hostname=zabbix.server

### Option: HostnameItem
#       Item used for generating Hostname if it is undefined. Ignored if Hostname is defined.
#       Does not support UserParameters or aliases.
#
# Mandatory: no
# Default:
HostnameItem=system.hostname
```

2. Use zabbix_sender to send data to server manually (use zabbix_sender with key –vv for maximal verbosity).

```
[root@zabbix vagrant]# zabbix_sender -z 192.168.56.101 -p 10051 -s "zabbix.agent" -k trap -o test -vv
zabbix_sender [4214]: DEBUG: answer [{"response":"success","info":"processed: 1; failed: 0; total: 1; seconds spent: 0.000127"}]
info from server: "processed: 1; failed: 0; total: 1; seconds spent: 0.000127"
sent: 1; skipped: 0; total: 1
```

3. Use zabbix_get as data receiver and examine zabbix agent sending's.

```
[vagrant@zabbix ~]$ zabbix_get -s 192.168.56.102 -p 10050 -k 'vm.memory.size[available]'
791384064
```

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