

EPAM Systems, RD Dep.**MTN.NIX.Zabbix_Java**

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. Java Monitoring with Java

Task:

You should install and configure Zabbix server and agents.

Testing Infrastructure:

Vagrantfile to spin up 2 VMs (virtualbox):

- zabbix server, provisioned by Vagrant provisioner
- Zabbix agents on both VMs, provisioned by Vagrant provisioner
- Install Tomcat 7 on 2nd VM

Tasks:

1. Configure Zabbix to examine Java parameters via Java Gateway (<http://jmxmonitor.sourceforge.net/jmx.html>)

Set-up host with jmx

The screenshot shows the Zabbix web interface for configuring a host. The browser address bar shows the URL: 192.168.56.11/hosts.php?form=update&hostid=10263&groupid=0. The Zabbix logo is in the top left, and the navigation menu includes Monitoring, Inventory, Reports, Configuration, and Administration. The 'Hosts' tab is selected in the sub-menu. The 'Hosts' page shows a list of hosts with filters for 'All hosts / Tomcat1', 'Enabled', 'ZBX', 'SNMP', 'JMX', and 'IPMI'. The 'Host' tab is selected, showing the configuration for 'Tomcat1'. The configuration includes fields for Host name, Visible name, Groups (Linux servers), Agent interfaces (192.168.56.33), JMX interfaces (192.168.56.33), and a Description field. The 'Monitored by proxy' dropdown is set to '(no proxy)' and the 'Enabled' checkbox is checked. Buttons for 'Update', 'Clone', 'Full clone', 'Delete', and 'Cancel' are at the bottom.

```
# This is a configuration file for Zabbix server daemon
# To get more information about Zabbix, visit http://www.zabbix.com

LogFile=/var/log/zabbix/zabbix_server.log
LogFileSize=0
PidFile=/var/run/zabbix/zabbix_server.pid
SocketDir=/var/run/zabbix
SNMPTrapperFile=/var/log/snmptrap/snmptrap.log
Timeout=4
AlertScriptsPath=/usr/lib/zabbix/alertscripts
ExternalScripts=/usr/lib/zabbix/externalscripts
LogSlowQueries=3000
StatsAllowedIP=127.0.0.1

DBHost=localhost
DBName=zabbix
DBUser=zabbix
DBPassword=password

JavaGateway=192.168.56.11
JavaGatewayPort=10052
StartJavaPollers=5
```

2. Configure triggers to alert once these parameters changed.

Problems							...
Time	Info	Host	Problem • Severity	Duration	Ack	Actions	Tags
19:42:03		Tomcat1	more than 70% mem Heap Memory used	11s	No		
19:42:03		Tomcat1	CPU LOAD	11s	No		