EPAM Systems, RD Dep., RD Dep.

MTN.NIX.05.Zabbix.Java

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

Task. Java Monitoring with Java

Task:

You should install and configure Zabbix server and agents.
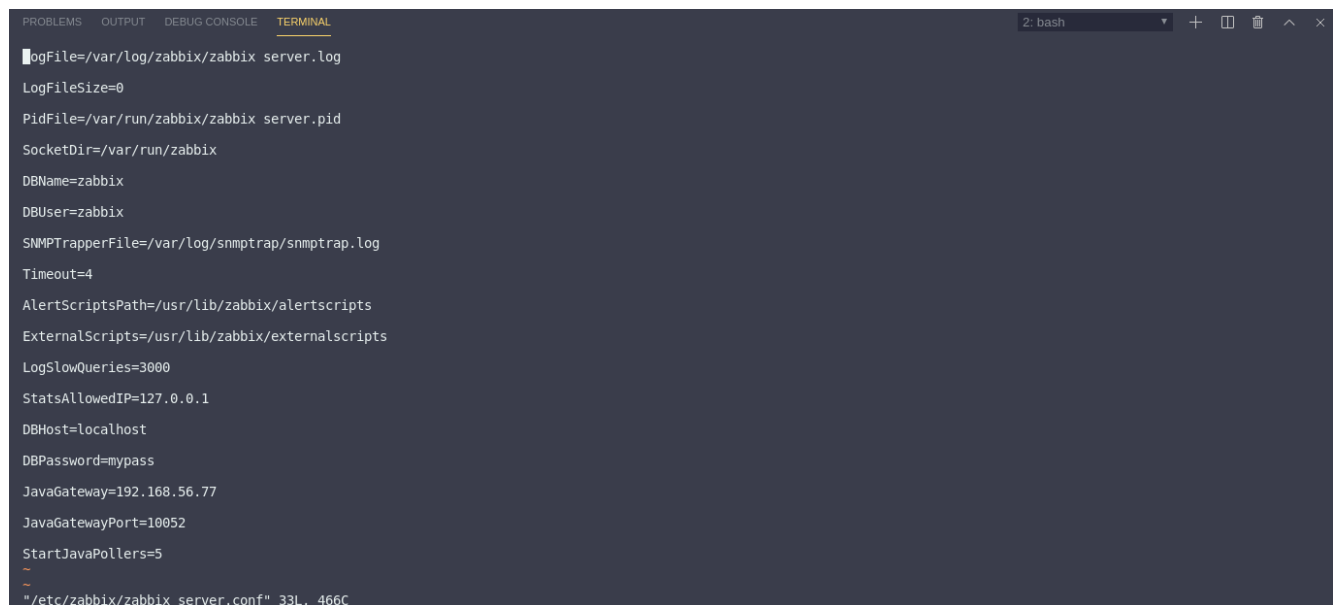
Testing Infrastructure:

Vagrantfile to spin up 2 VMs (virtualbox):

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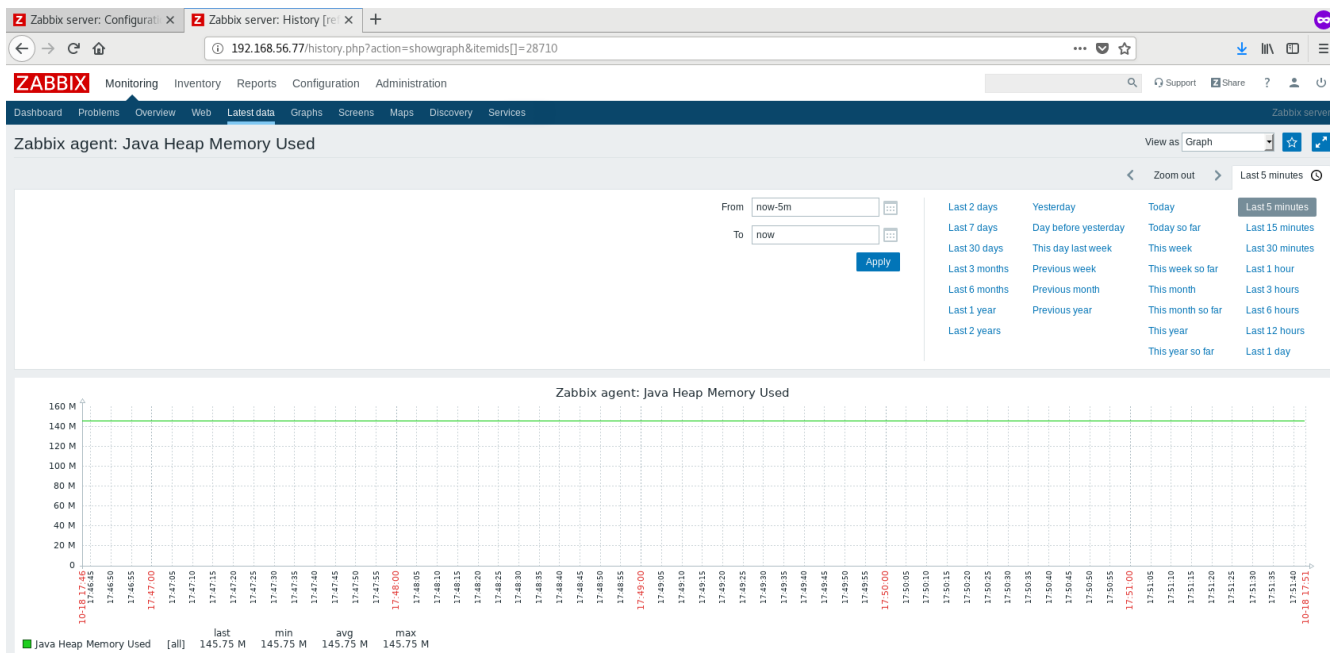- Zabbix agents on both VMs, provisioned by Vagrant provisioner
- Install Tomcat 7 on 2nd VM

Tasks:

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

```
JAVA OPTS="-Dcom.sun.management.jmxremote -Dcom.sun.management.jmxremote.local.only=false -Dcom.sun.management.jmxremote.port=12345 -Dcom.sun.management.jmxremote.rmi.
port=12346 -Dcom.sun.management.jmxremote.authenticate=false -Dcom.sun.management.jmxremote.ssl=false -Djava.rmi.server.hostname=192.168.56.177"
~
~
```

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL                                              2: bash

LogFile=/var/log/zabbix/zabbix server.log

LogFileSize=0

PidFile=/var/run/zabbix/zabbix server.pid

SocketDir=/var/run/zabbix

DBName=zabbix

DBUser=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

DBPassword=mypass

JavaGateway=192.168.56.77

JavaGatewayPort=10052

StartJavaPollers=5
~
~
"/etc/zabbix/zabbix server.conf" 33L, 466C
```

2. Configure triggers to alert once these parameters changed.

| ZABBIX | Monitoring | Inventory | Reports | Configuration | Administration |

Dashboard Problems Overview Web Latest data Graphs Screens Maps Discovery Services

Global view

All dashboards / Global view

System information

Parameter	Value	Details
Zabbix server is running	Yes	localhost:10051
Number of hosts (enabled/disabled/templates)	86	3 / 0 / 83
Number of items (enabled/disabled/not supported)	153	148 / 0 / 5
Number of triggers (enabled/disabled [problem/ok])	73	73 / 0 [0 / 73]
Number of users (online)	2	1
Required server performance, new values per second	2.11	

Problems by severity

Host group ▲	Disaster	High	Average	Warning	Information	Not classified
Linux servers						1

Problems

Time ▼	Info	Host	Problem • Severity	Duration	Ack	Actions	Tags
18:46:04		Zabbix agent	Heap is normal	12s	No		

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