

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/201 7		

Task. Java Monitoring with Java

Task:

You should install and configure Zabbix server and agents.

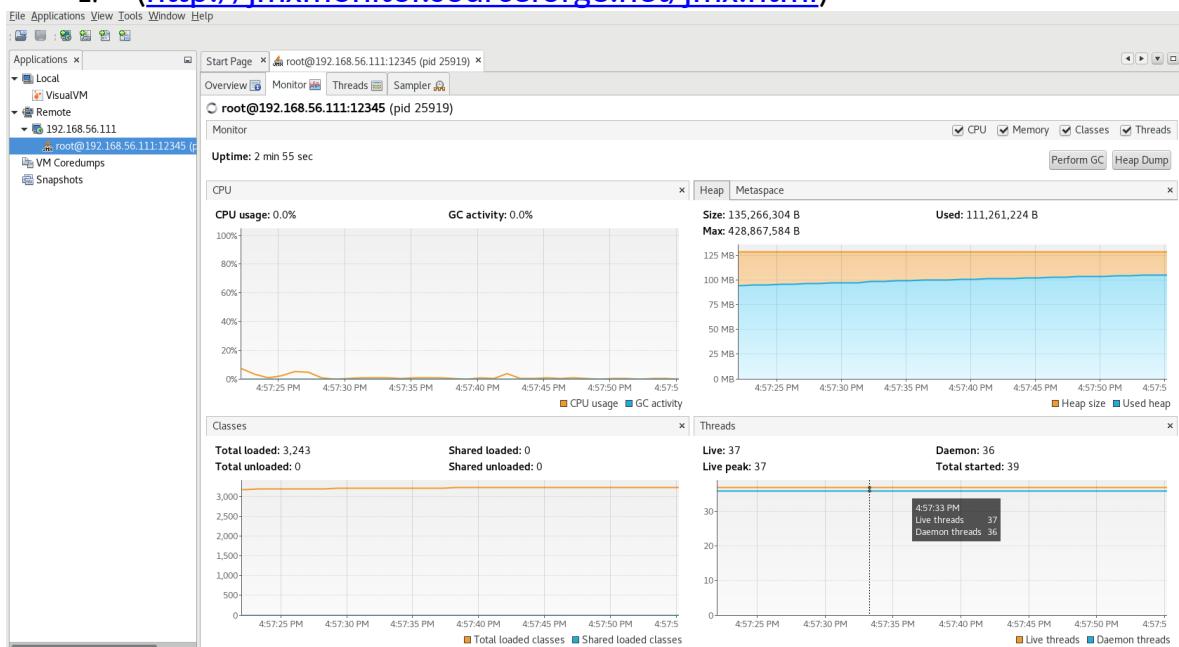
Testing Infrastructure:

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
2. (<http://jmxmonitor.sourceforge.net/jmx.html>)



Items

All hosts / zagent Enabled ZBX SNMP JMX IPMI Applications 10 Items 51 Triggers 21 Graphs 9 Discovery rules 2 Web scenarios 2

Item [Preprocessing](#)

* Name

Type

* Key

* Host interface

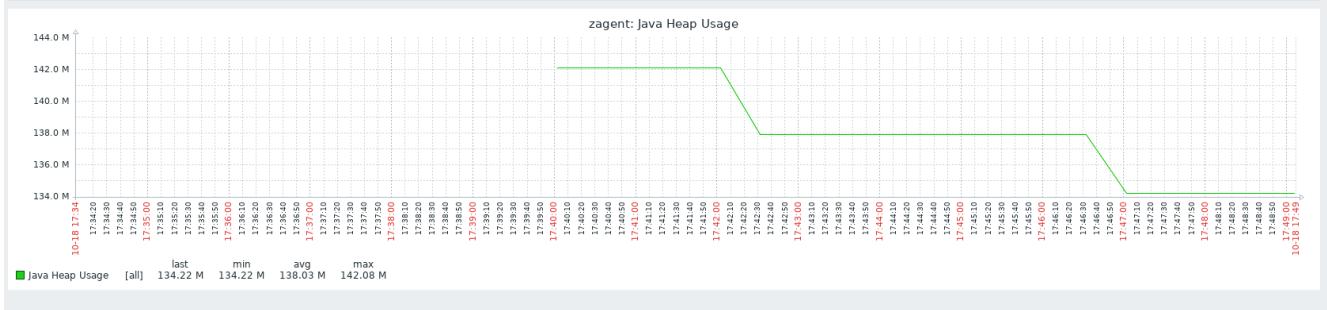
* JMX endpoint

User name

Password

Type of information

3. Configure triggers to alert once these parameters changed.
For both VMs use vagrant box “sbeliakou/centos-7.3-x86_64-minimal”



Triggers

All hosts / zagent Enabled ZBX SNMP JMX IPMI Applications 10 Items 51 Triggers 21 Graphs 9 Discovery rules 2 Web scenarios 2

Trigger Tags Dependencies

* Name	HeapWARNING!!!						
Severity	Not classified	Information	Warning	Average	High	Disaster	
* Expression	{zagent:jmx["java.lang:type=Memory",HeapMemoryUsage.committed].last(#1,0)}>100						
	<input type="button" value="Add"/>						
<u>Expression constructor</u>							
OK event generation	Expression	Recovery expression	None				
PROBLEM event generation mode	Single	Multiple					
OK event closes	All problems	All problems if tag values match					
Allow manual close	<input type="checkbox"/>						

Problems								...
Time ▾	Info	Host	Problem • Severity	Duration	Ack	Actions	Tags	...
18:51:18	•	zagent	HeapWARNING!!!	36s	No			