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:

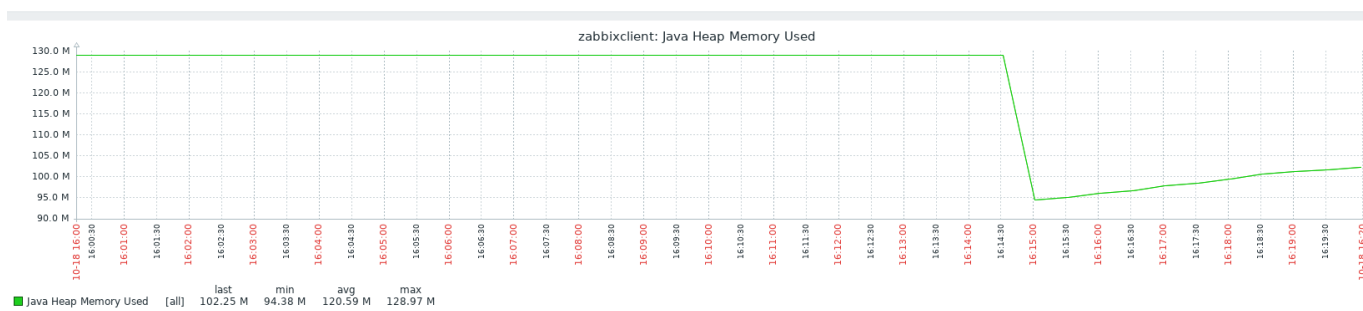Vagrantfile to spin up 2 VMs (virtualbox):

- 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)

Name						Monitored by	Any	Server	Proxy
Templates	type here to search	Select				Proxy		Select
DNS						Tags	And/Or	Or
IP							tag	Contains	Equals	value	Remove
Port							Add

Apply   Reset

Name ▲	Applications	Items	Triggers	Graphs	Discovery	Web	Interface	Templates	Status	Availability	Agent encryption	Info	Tags
zabbixclient	Applications 10	Items 50	Triggers 19	Graphs 9	Discovery 2	Web	192.168.56.156: 10050	Template OS Linux (Template App Zabbix Agent)	Enabled	ZBX SNMP JMX IPMI	NONE		
Zabbix server	Applications 11	Items 93	Triggers 52	Graphs 15	Discovery 2	Web	127.0.0.1: 10050	Template App Zabbix Server, Template OS Linux (Template App Zabbix Agent)	Enabled	ZBX SNMP JMX IPMI	NONE		

Displaying 2 of 2 found

	db.connections	2019-10-18 13:33:50	43		History
	Java Heap Memory Used	2019-10-18 16:19:03	101123520	+562728	Graph

zabbixclient: Java Heap Memory Used

	last	min	avg	max
Java Heap Memory Used [all]	102.25 M	94.38 M	120.59 M	128.97 M

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

| High | PROBLEM | Heap Memory usage is too high | {zabbixclient:jmx["java.lang:type=Memory",HeapMemoryUsage.used],**last()**}>10000000 |

Problems

Time ▼	Info	Host	Problem • Severity	Duration	Ack	Actions	Tags
16:34:33		zabbixclient	Heap Memory usage is too high	25s	No		
16:00							