

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		

Legal Notice

This document contains privileged and/or confidential information and may not be disclosed, distributed or reproduced without the prior written permission of EPAM Systems.

Task. Java Monitoring with Java

Task:

You should install and configure Zabbix server and agents.

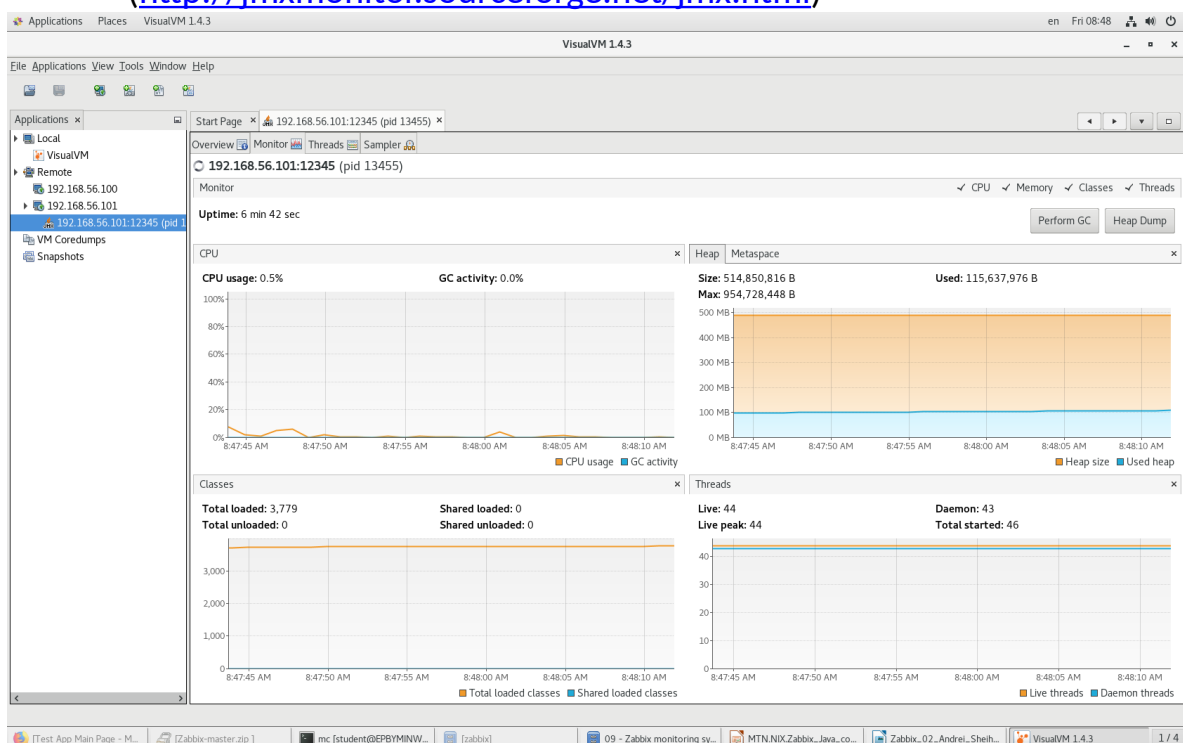
Testing Infrastructure:

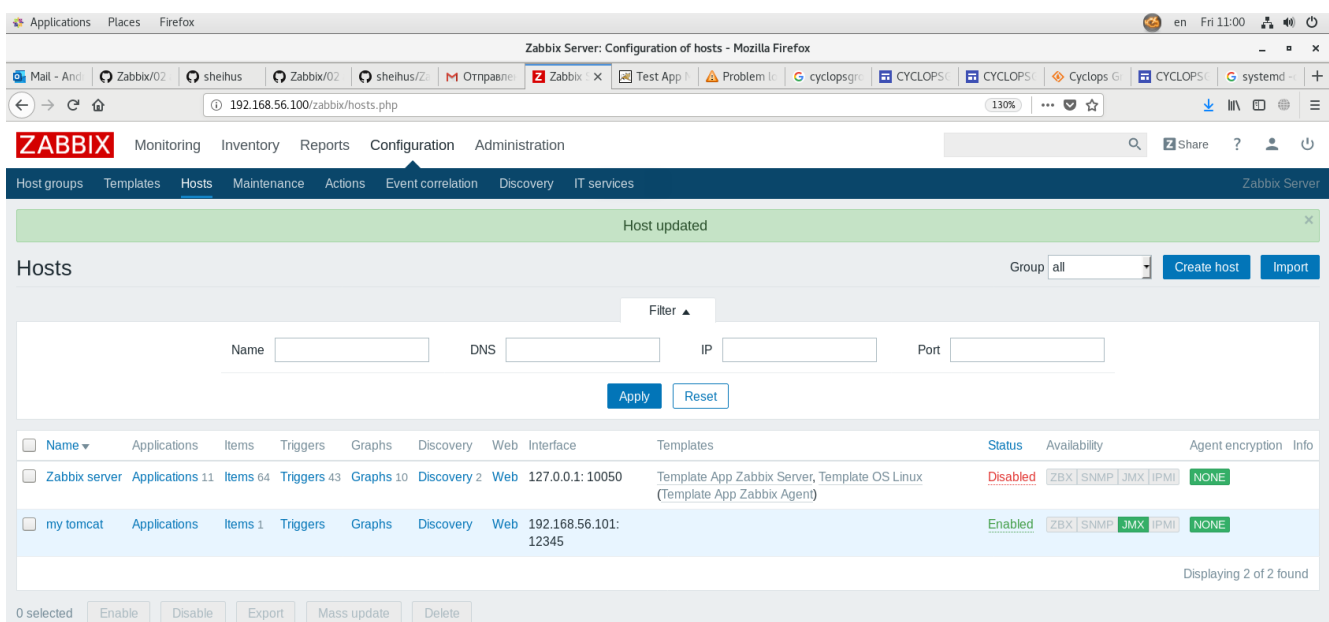
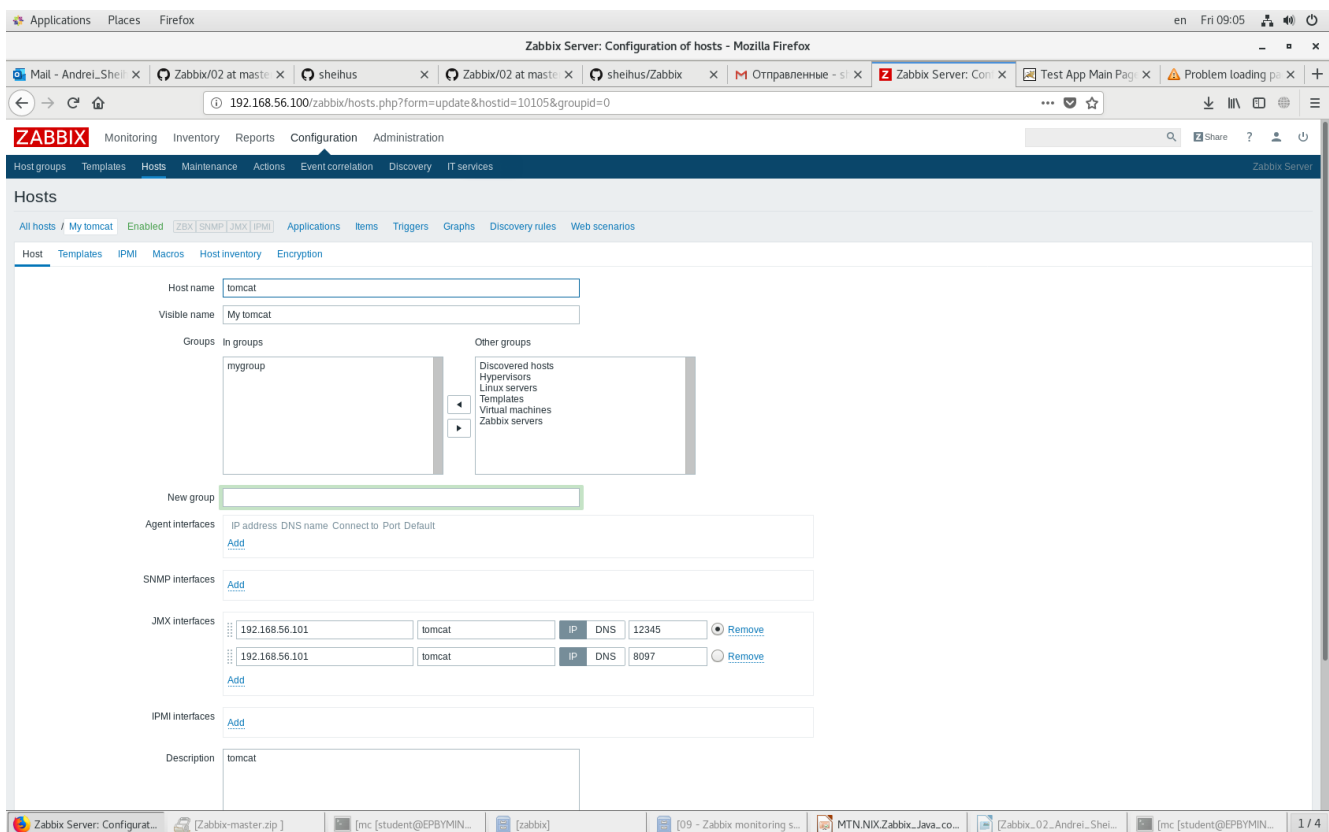
Vagrantfile to spin up 2 VMs (virtualbox):

- 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>)





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

Applications Places Firefox

Zabbix Server: Configuration of triggers - Mozilla Firefox

Mail - Zabbix/ sheihus/ sheihus/ sheihus/ Zabbix/ Test Ap/ Problem/ G cyclops/ CYCLO/ CYCLO/ Cyclops/ CYCLO/ G system/ G zabbix/ 1 Conf/ 2 New/ New T/ +

192.168.56.100/zabbix/triggers.php

130%

ZABBIX Monitoring Inventory Reports Configuration Administration

Host groups Templates Hosts Maintenance Actions Event correlation Discovery IT services Zabbix Server

Trigger updated

Triggers

Group 123 Host my tomcat Create trigger

All hosts / my tomcat Enabled ZBX|SNMP JMX|PMI Applications Items 4 Triggers 2 Graphs 1 Discovery rules Web scenarios

Filter

Severity **all** Not classified Information Warning Average High Disaster

State **all** Normal Unknown

Status **all** Enabled Disabled

Apply Reset

<input type="checkbox"/>	Severity	Name	Expression	Status	Info
<input type="checkbox"/>	High	Java HeapMemoryUsage	{tomcatjmx["java.lang:type=Memory"].HeapMemoryUsage.committed}avg(5)>500	Unknown	
<input type="checkbox"/>	Average	my tomcat: Java Runtime Uptime	{tomcatjmx["java.lang:type=Runtime"].Uptime}.nodata(10)=1	Enabled	

Displaying 2 of 2 found

Applications Places Firefox

Zabbix Server: Configuration of actions - Mozilla Firefox

Mail - A/ Zabbix/ sheihus/ sheihus/ sheihus/ Zabbix/ Test Ap/ Problem/ G cyclops/ CYCLO/ CYCLO/ Cyclops/ CYCLO/ G system/ G zabbix/ 1 Conf/ 2 New/ New T/ +

192.168.56.100/zabbix/actionconf.php

130%

ZABBIX Monitoring Inventory Reports Configuration Administration

Host groups Templates Hosts Maintenance Actions Event correlation Discovery IT services Zabbix Server

Action updated

Actions

Event source Triggers Create action

Filter

Name Status **Any** Enabled Disabled

Apply Reset

<input type="checkbox"/>	Name	Conditions	Operations	Status
<input type="checkbox"/>	Java Heap Memory Used > 500 Mb	Maintenance status not in <i>maintenance</i> Trigger severity >= <i>Average</i>	Send message to users: Admin (Zabbix Administrator) via Email	Enabled
<input type="checkbox"/>	Report problems to Zabbix administrators		Send message to user groups: Zabbix administrators via all media	Disabled

Displaying 2 of 2 found