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:**

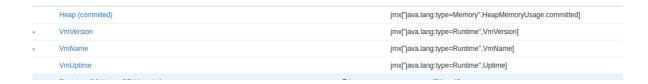You should install and configure Zabbix server and agents.
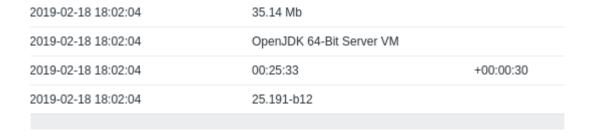
Testing Infrastructure:

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 2<sup>nd</sup> VM

Tasks:

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

| | |
|---|---|
| Heap (commited) | jmx["java.lang:type=Memory",HeapMemoryUsage.committed] |
| VmVersion | jmx["java.lang:type=Runtime",VmVersion] |
| VmName | jmx["java.lang:type=Runtime",VmName] |
| VmUptime | jmx["java.lang:type=Runtime",Uptime] |

| | | |
|---|---|---|
| 2019-02-18 18:02:04 | 35.14 Mb | |
| 2019-02-18 18:02:04 | OpenJDK 64-Bit Server VM | |
| 2019-02-18 18:02:04 | 00:25:33 | +00:00:30 |
| 2019-02-18 18:02:04 | 25.191-b12 | |

2. Configure triggers to alert once these parameters changed.(just an example)

| Severity | Recovery time | Status | Info | Host | Problem | Duration | Ack | Actions | Ta |
|---|---|---|---|---|---|---|---|---|---|
| Average | | | | Potential Java Cool Guy | Uptime over 25 mins,need reboot(just testing,no real purpose) | 4m 14s | No | | |

Displaying 1 of

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