## Task. Web Monitoring with Zabbix

### **Testing Infrastructure:**

Vagrantfile to spin up 2 VMs (virtualbox):

zabbix server, provisioned by Vagrant provisioner

(i) Not secure | 172.33.33.22

- Zabbix agents on both VMs, provisioned by Vagrant provisioner
- Install Tomcat 7 on 2<sup>nd</sup> VM, deploy any "hello world" application



 $\leftarrow \rightarrow c$ 

# Sample "Hello, World" Application

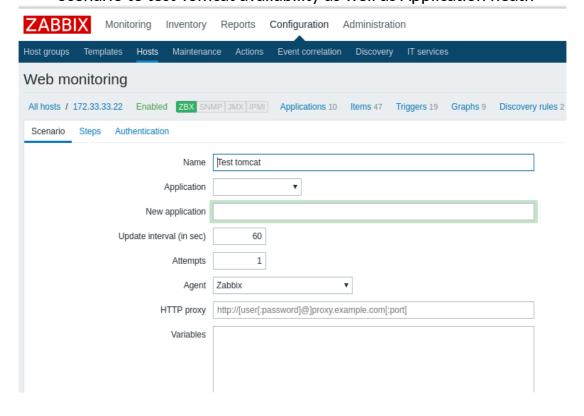
This is the home page for a sample application used to illustrate the source dire

To prove that they work, you can execute either of the following links:

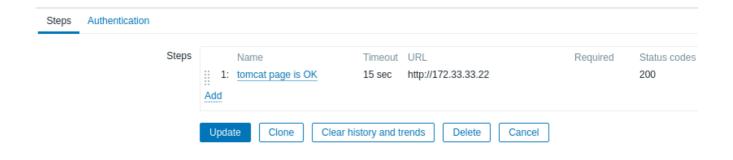
- To a <u>JSP page</u>.
- To a <u>servlet</u>.

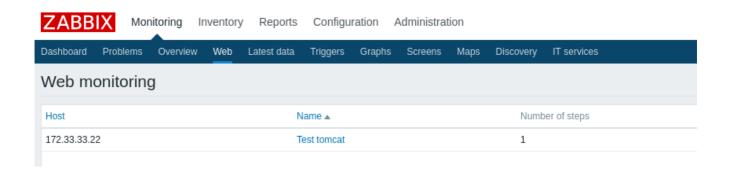
#### Tasks:

- 1. Configure WEB check:
  - Scenario to test Tomcat availability as well as Application heath



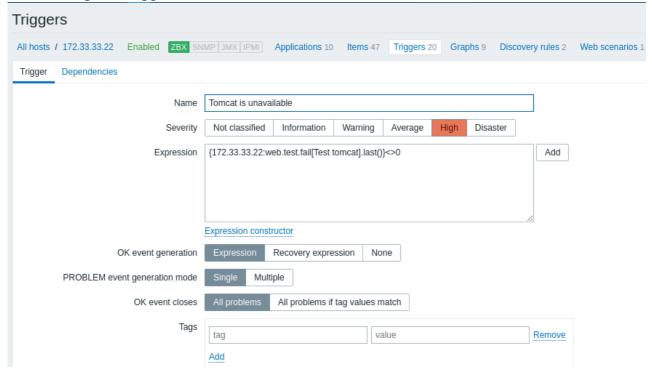
Nginx



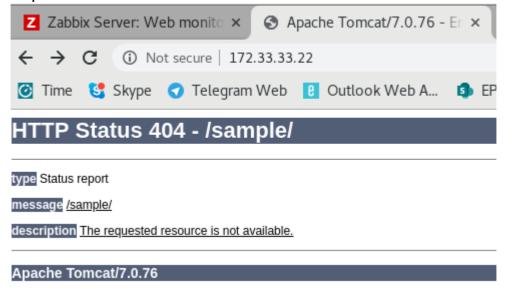




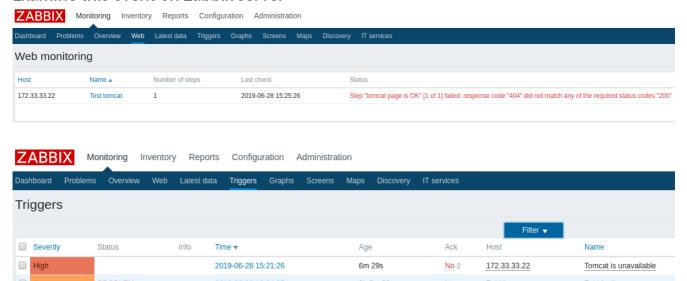
## 2. Configure Triggers to alert once WEB resources become unavailable



#### Undeploy sample.war

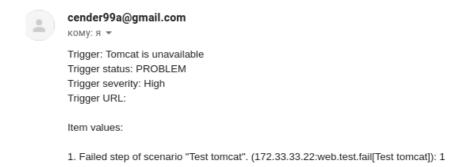


#### Examine this event on Zabbix server



#### Receive email

#### PROBLEM: Tomcat is unavailable Входящие х



### Task. Java Monitoring with Java

#### Tasks:

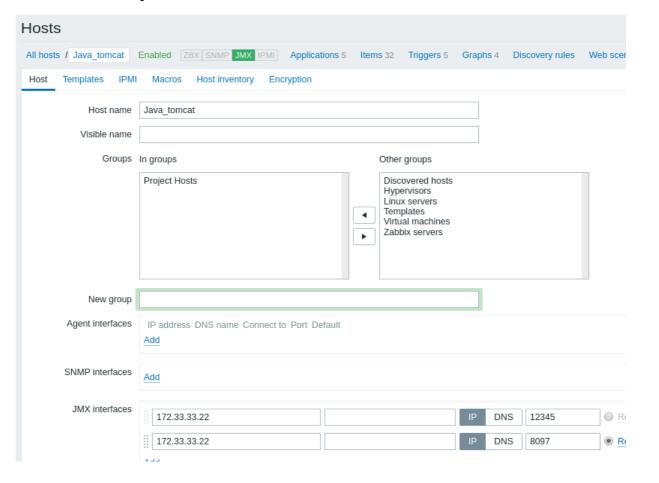
1. Configure Zabbix to examine Java parameters via Java Gateway

After configure - test connections via Visual VM



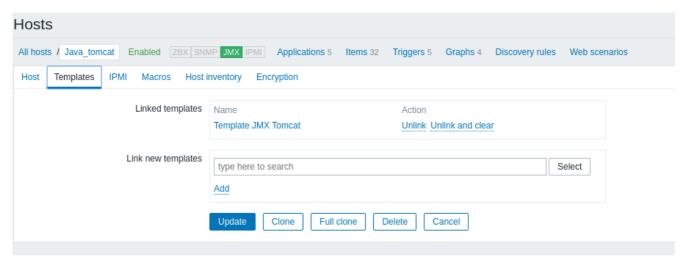
Connect Zabbix via Java Gateway to Java

Create new host for jmx connections

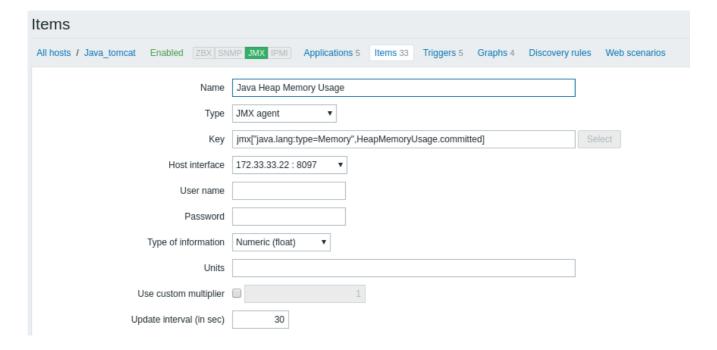


© EPAM Systems, 2017 Page: 5/9

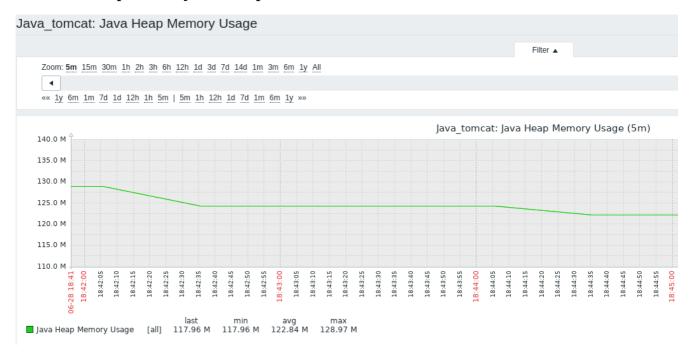
# Add template



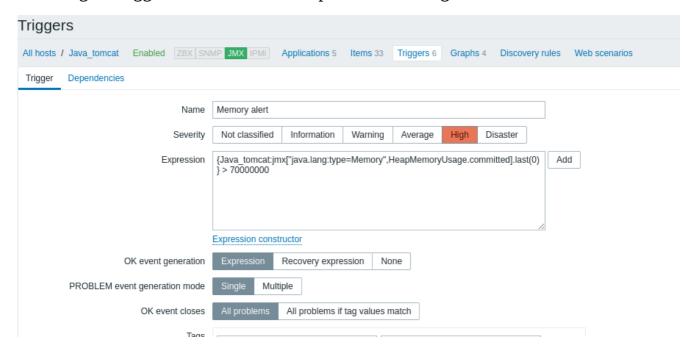
## Create item



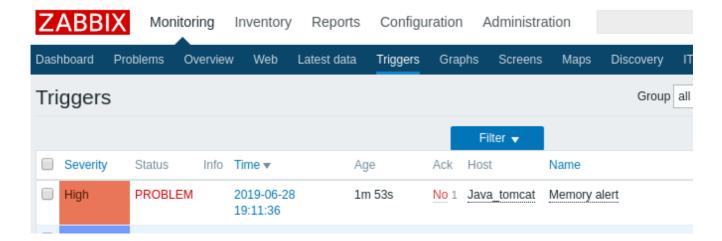
## Examine Heap memory consumption



# 2. Configure triggers to alert once these parameters changed.



© EPAM Systems, 2017 Page: 7/9



## Get email

PROBLEM: Memory alert Входящие х



#### cender99a@gmail.com

кому: я 🕶

Trigger: Memory alert Trigger status: PROBLEM Trigger severity: High

Trigger URL:

Item values:

1. Java Heap Memory Usage (Java\_tomcat:jmx["java.lang:type=Memory",HeapMemoryUsage.committed]): 70254592

3. SE EVINCEO CONTRES ASE EVENTO CONTRESSE EVENTO CONTRESSE SE EVENTO CONTRESSE EVENTO CONTRESSE SE EVENTO CONTRESSE EVENTO CONTRESSE EVENTO CONTRESSE EVENTO CONTRESSE EVENTO CONTRESSE EVENTO CONTRESSE EVEN