

EPAM Systems, RD Dep., RD Dep.

MTN.NIX.05.Zabbix.WEB

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. Web Monitoring with Zabbix

Testing Infrastructure:

Vagrantfile to spin up 2 VMs (virtualbox):

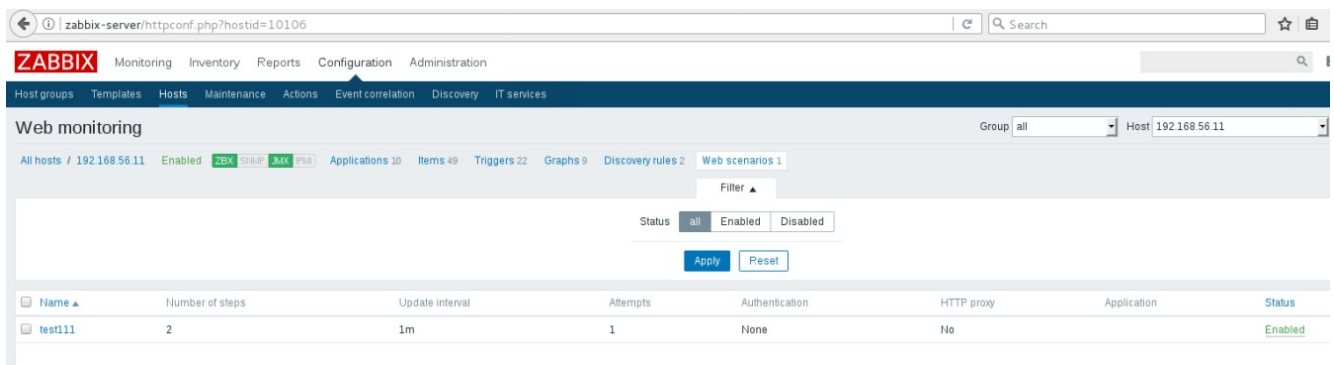
- zabbix server, provisioned by Vagrant provisioner
- Zabbix agents on both VMs, provisioned by Vagrant provisioner
- Install Tomcat 7 on 2nd VM, deploy any “hello world” application

Tasks:

1. Configure WEB check:
 - Scenario to test Tomcat availability as well as Application health
2. Configure Triggers to alert once WEB resources become unavailable

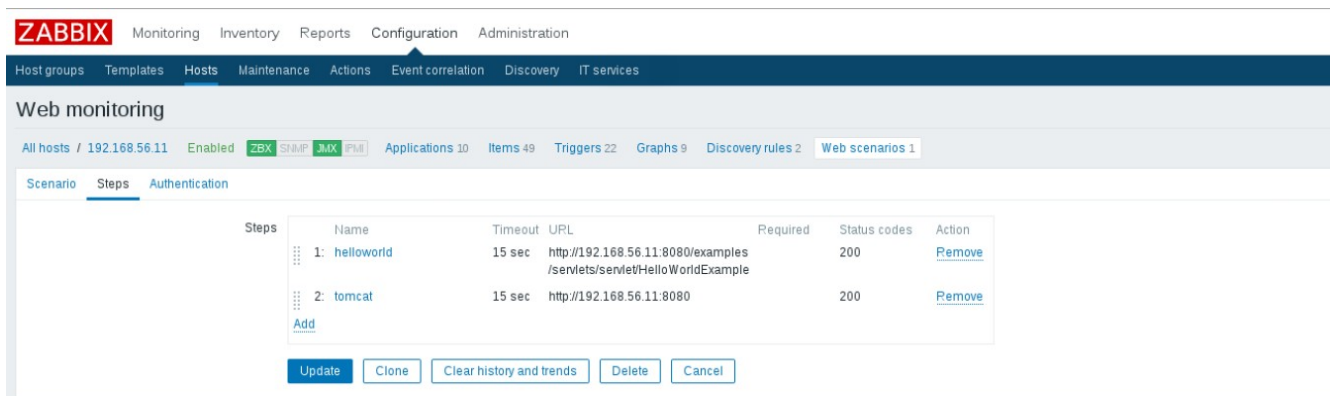
For both VMs use vagrant box “sbeliakou/centos-7.3-x86_64-minimal”

Configure web-scenario and new trigger



The screenshot shows the Zabbix web interface. The top navigation bar includes Monitoring, Inventory, Reports, Configuration, and Administration. The main menu on the left lists Host groups, Templates, Hosts, Maintenance, Actions, Event correlation, Discovery, and IT services. The current page is 'Web monitoring' for host '192.168.56.11'. It shows a table with one web scenario named 'test111' with 2 steps, 1m update interval, 1 attempt, and status 'Enabled'.

Name	Number of steps	Update interval	Attempts	Authentication	HTTP proxy	Application	Status
test111	2	1m	1	None	No		Enabled



The screenshot shows the 'Steps' configuration page for the 'test111' web scenario. It displays a table with two steps: '1: helloworld' and '2: tomcat'. Each step has a timeout of 15 sec, a specific URL, a required status code of 200, and a 'Remove' action link. There are also 'Add', 'Update', 'Clone', 'Clear history and trends', 'Delete', and 'Cancel' buttons at the bottom.

Name	Timeout	URL	Required	Status codes	Action
1: helloworld	15 sec	http://192.168.56.11:8080/examples/servlets/servlet/HelloWorldExample	200		Remove
2: tomcat	15 sec	http://192.168.56.11:8080	200		Remove

zabbix-server/triggers.php?form=update&hostid=10106&triggerid=13627

ZABBIX Monitoring Inventory Reports Configuration Administration

Host groups Templates **Hosts** Maintenance Actions Event correlation Discovery IT services

Triggers

All hosts / 192.168.56.11 Enabled ZBX SNMP JMX IPMI Applications 10 Items 49 **Triggers 22** Graphs 9 Discovery rules 2 Web scenarios 1

Trigger Dependencies

Name

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

Expression

[Expression constructor](#)

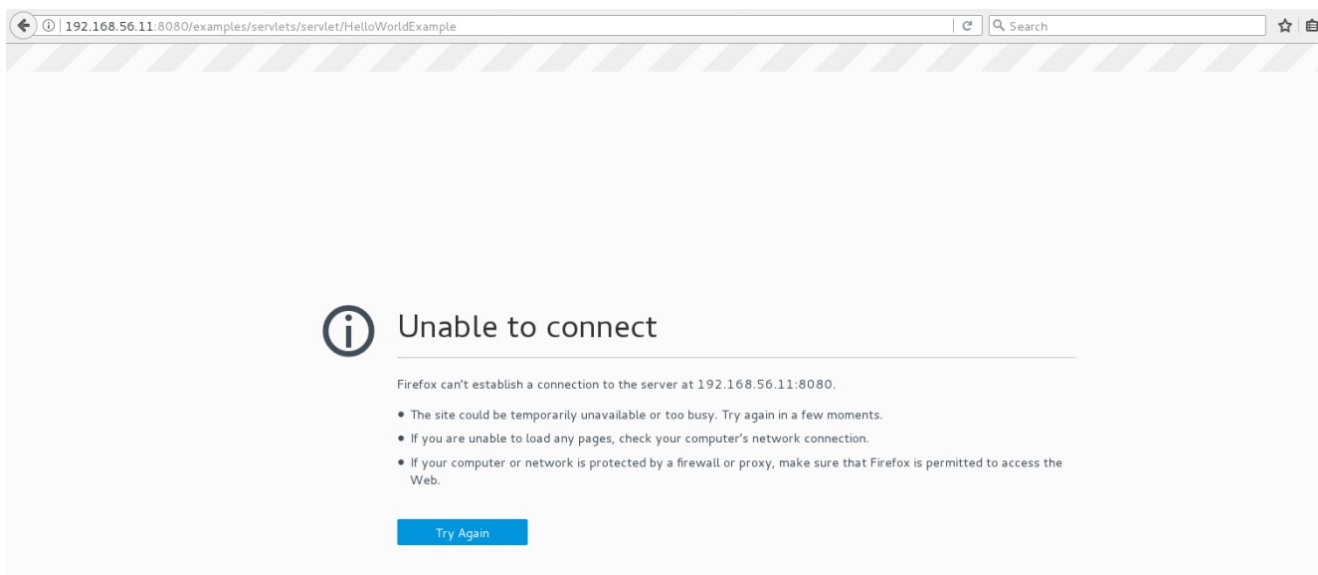
OK event generation **Expression** Recovery expression None

192.168.56.11:8080/examples/servlets/servlet/HelloWorldExample

Hello World!

Stop tomcat and check status

```
[root@host-agent1 vagrant]# ls /var/lib/tomcat/webapps/examples/servlets/  
chat/      cookies.html  helloworld.html  images/      index.html    reqheaders.html  reqinfo.html    reqparams.html  sessions.html  
[root@host-agent1 vagrant]# systemctl stop tomcat  
[root@host-agent1 vagrant]#
```



Last 20 issues



Host	Issue	Last change	Age	Info	Ack	Actions
192.168.56.11	helloworld_trigger	2017-07-25 19:15:11	10s		No	
192.168.56.11	trig_jmx	2017-07-25 15:38:37	3h 36m 44s		No	
192.168.56.11	Heap Memory Trigger	2017-07-25 15:35:36	3h 39m 45s		No	
Zabbix server	Zabbix agent on Zabbix server is unreachable for 5 minutes	2017-07-25 14:34:30	4h 40m 51s		No	
Zabbix server	Zabbix discoverer processes more than 75% busy	2017-07-25 14:29:35	4h 45m 46s		No	

5 of 5 issues are shown Updated: 19:15:21