

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		

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## 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 2<sup>nd</sup> VM, deploy any “hello world” application

### Tasks:

1. Configure WEB check:

Step of web scenario

\*

Name

Tomcat SampleApp Page

\*

URL

http://192.168.56.22:8080/sample/hello

Parse

Query fields

Name

Value

name

⇒

value

Add

Remove

Post type

Form data

Raw data

Post fields

Name

Value

name

⇒

value

Add

Remove

Variables

Name

Value

name

⇒

value

Add

Remove

Headers

Name

Value

name

⇒

value

Add

Remove

Follow redirects

☐

Retrieve mode

Body

Headers

Body and headers

\*

Timeout

15s

Required string

This is the output of a servlet that is part of

Required status codes

200

Update

Cancel

## Web monitoring

All hosts / 192.168.56.22 Enabled ZBX SNMP JMX IPMI Applications 5 Items 36 Triggers 7 Graphs 4 Discovery rules Web scenarios 2

Scenario Steps Authentication

* Steps	Name	Timeout	URL	Required	Status codes	Action
1:	Tomcat Frontpage	15s	http://192.168.56.22:8080	Required	200	<a href="#">Remove</a>
2:	Tomcat SampleApp Page	15s	http://192.168.56.22:8080/sample/		200	<a href="#">Remove</a>
3:	Tomcat SampleApp Hello Page Available	15s	http://192.168.56.22:8080/sample/hello		200	<a href="#">Remove</a>

[Add](#)

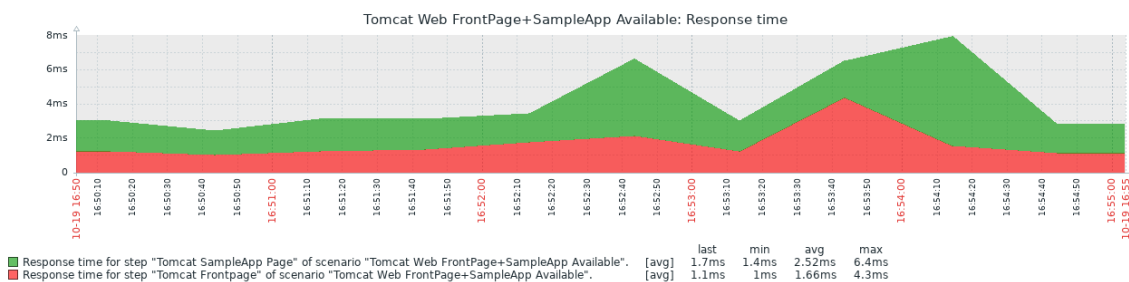
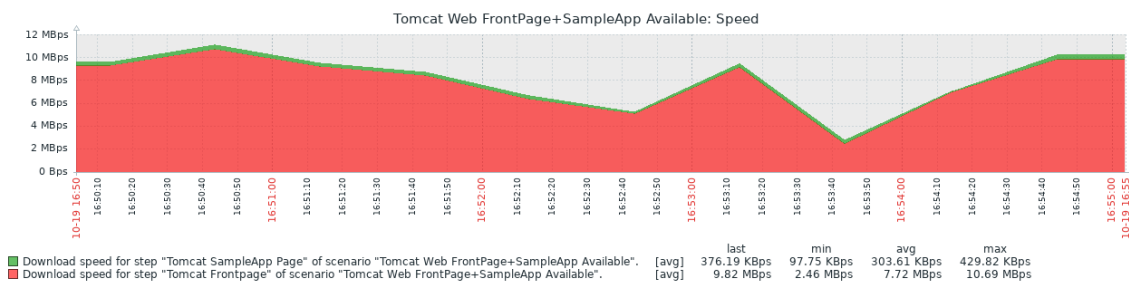
[Update](#)

[Clone](#)

[Clear history and trends](#)

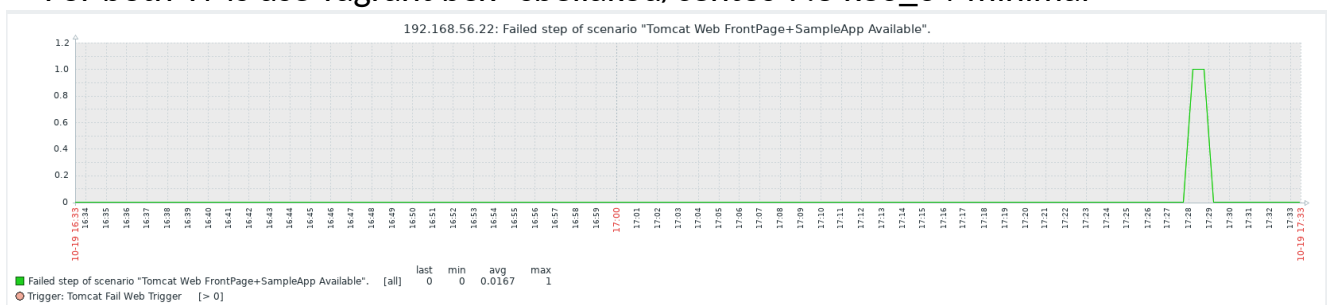
[Delete](#)

[Cancel](#)



- 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"



# Triggers

All hosts / 192.168.56.22 Enabled ZBX SNMP JMX IPMI Applications 5 Items 36 Triggers 7 Graphs 4 Discovery rules Web scenarios 2

Trigger Tags Dependencies

\* Name Tomcat Web Fail Trigger

Operational data

Severity Not classified Information Warning Average High Disaster

\* Expression {192.168.56.22:web.test.fail[Tomcat Web FrontPage+SampleApp Available].last()}>0

Add

[Expression constructor](#)

OK event generation Expression Recovery expression None

PROBLEM event generation mode Single Multiple

OK event closes All problems All problems if tag values match

Time	Severity	Recovery time	Status	Info	Host	Problem	Duration	Ack	Actions	Tags
17:28:19	High	17:29:19	RESOLVED		192.168.56.22	Tomcat Fail Web Trigger	1m	No		
17:00										