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		

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
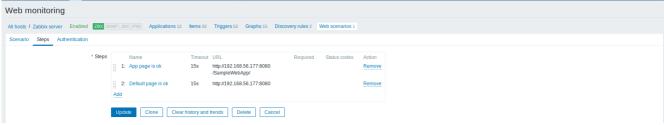

Tasks:

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

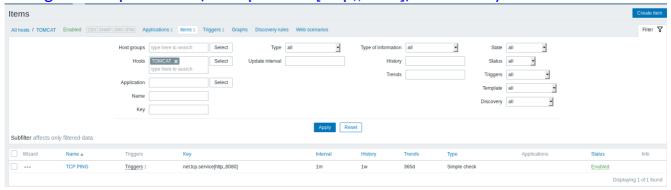Made scenario -availability of default tomcat page and availability of page with application.

Configured simple check. (net.tcp.service[http,,8080]). Availability of service.

Items								Create item

All hosts / TOMCAT   Enabled   ZBX SNMP JMX IPMI   Applications 1   Items 1   Triggers 1   Graphs   Discovery rules   Web scenarios   Filter ▼

Host groups	type here to search	Select	Type	all ▼	Type of information	all ▼
Hosts	TOMCAT ✕	Select	Update interval		History	
	type here to search				Trends	
Application		Select			State	all ▼
Name					Status	all ▼
Key					Triggers	all ▼
					Template	all ▼
					Discovery	all ▼

Apply   Reset

Subfilter affects only filtered data

	Wizard	Name ▲	Triggers	Key	Interval	History	Trends	Type	Applications	Status	Info
☐	⋯	TCP PING	Triggers 1	net.tcp.service[http,,8080]	1m	1w	365d	Simple check		Enabled	

Displaying 1 of 1 found

TOMCAT: TCP PING

■ TCP PING [all] last 0 min 0 avg 0.2 max 1
◯ Trigger: Unavailable by TCP PING [= 0]

2. Configure Triggers to alert once WEB resources become unavailable

Triggers		Create trigger

All hosts / TOMCAT   Enabled   ZBX SNMP JMX IPMI   Applications 1   Items 1   Triggers 1   Graphs   Discovery rules   Web scenarios   Filter ▼

Host groups	type here to search	Select	Tags	And/Or Or		
Hosts	TOMCAT ✕	Select		tag	Contains Equals value	Remove
	type here to search			Add		
Name			Inherited	all Yes No		
Severity	☐ Not classified ☐ Information ☐ Warning		Discovered	all Yes No		
	☐ Average ☐ High ☐ Disaster		With dependencies	all Yes No		
State	all Normal Unknown					
Status	all Enabled Disabled					
Value	all Ok Problem					

Apply   Reset

	Severity	Value	Name ▲	Expression	Status	Info	Tags
☐	High	PROBLEM	Unavailable by TCP PING	{TOMCAT:net.tcp.service[http,,8080].max(#3)}=0	Enabled		

Displaying 1 of 1 found

Problems									⋯
Time ▼	Info	Host	Problem • Severity			Duration	Ack	Actions	Tags
15:45:27		TOMCAT	Unavailable by TCP PING			36s	No		
15:00									

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