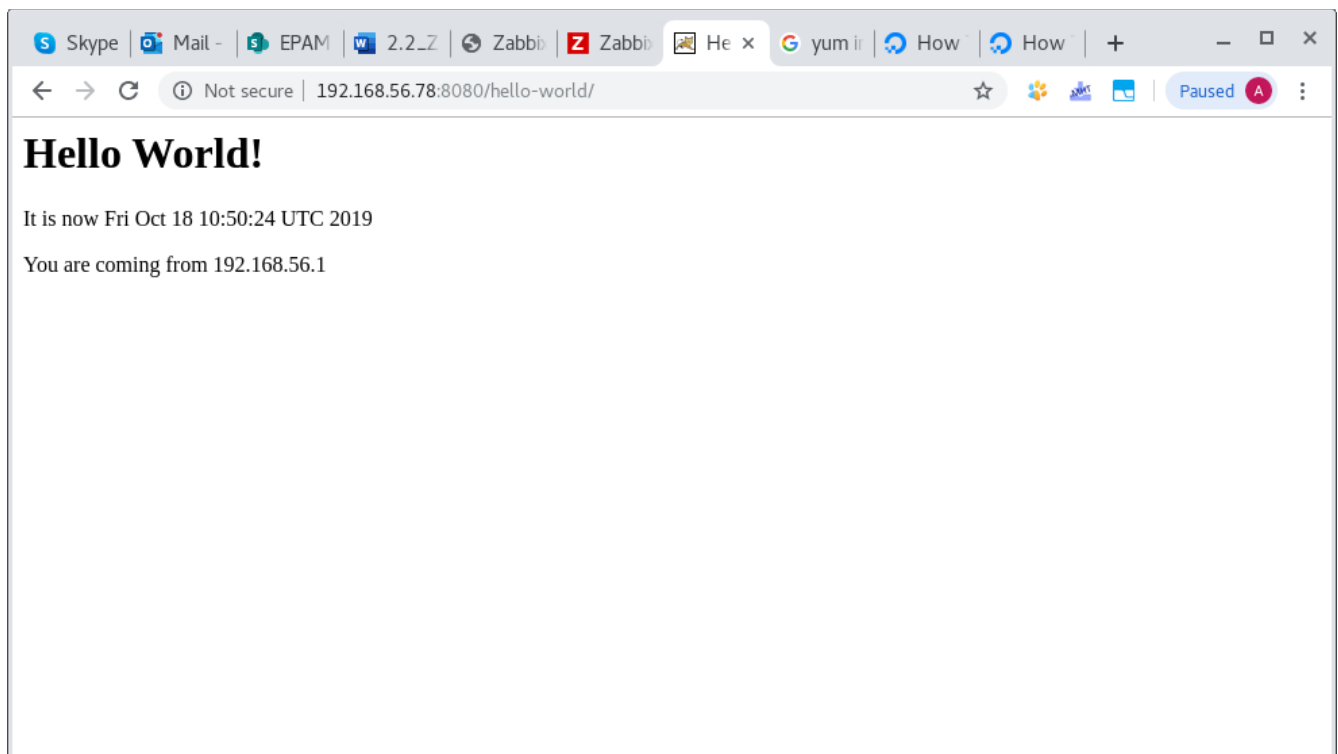


## Task. Web Monitoring with Zabbix

### Testing Infrastructure:

Vagrantfile to spin up 2 VMs (virtualbox):

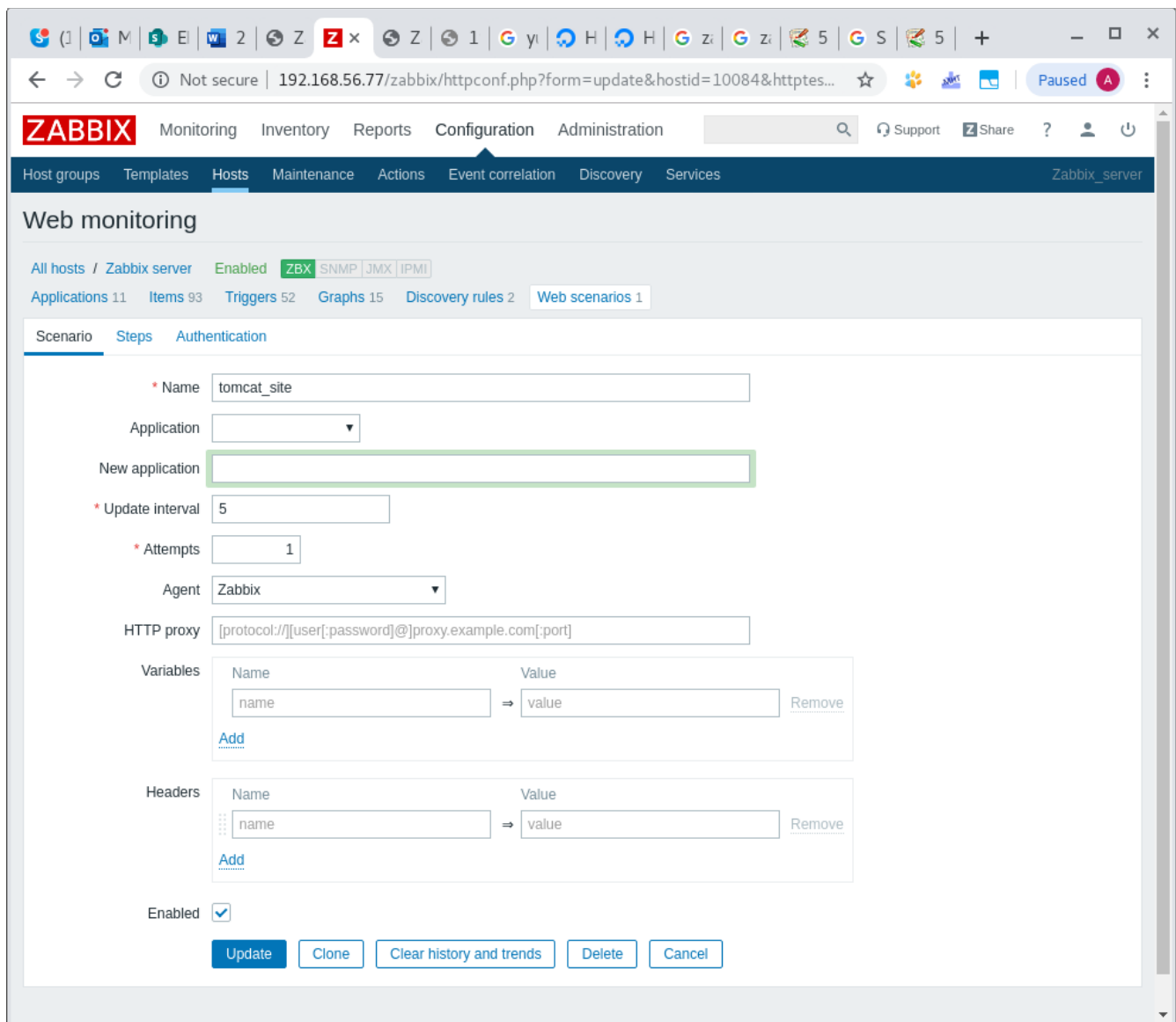
- zabbix server, provisioned by Vagrant provisioner
- Zabbix agents on both VMs, provisioned by Vagrant provisioner
- Install Tomcat 7 on 2nd VM, deploy any “hello world” application



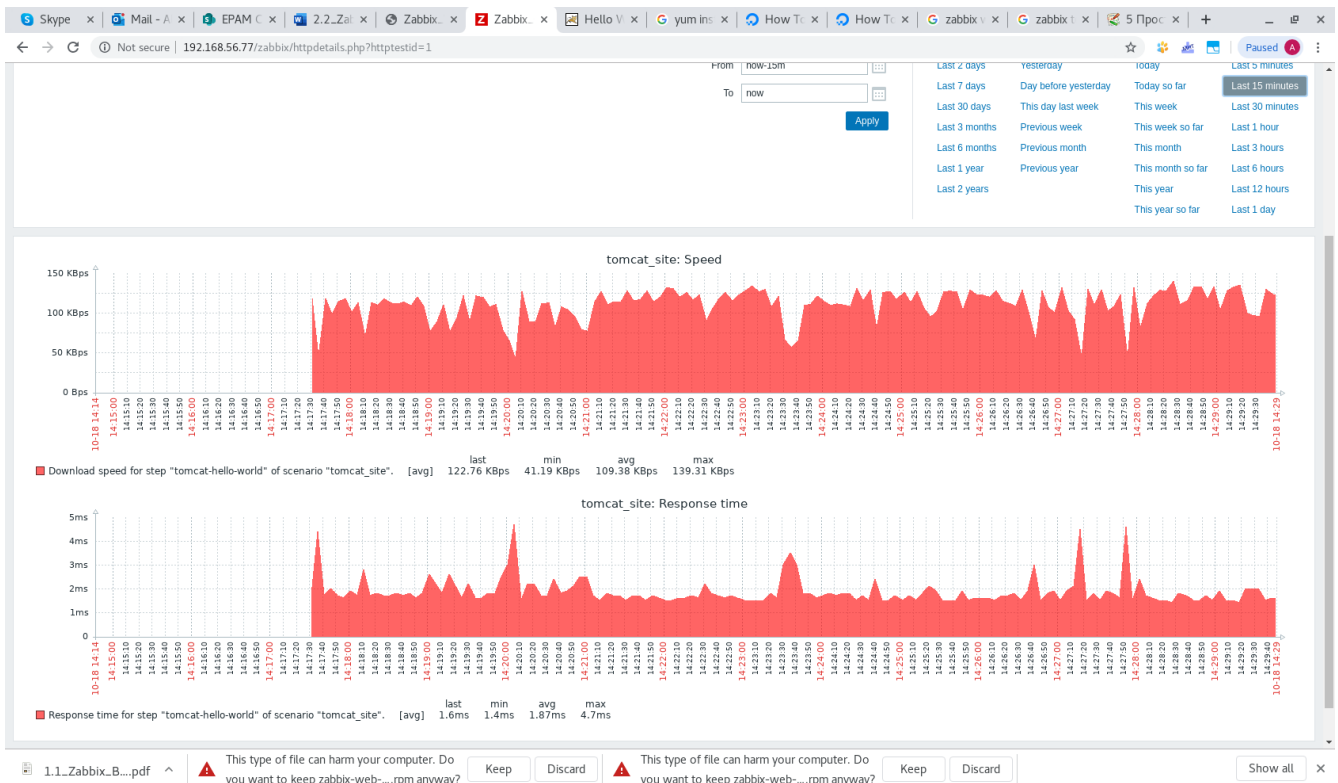
### Tasks:

#### 1. Configure WEB check:

- Scenario to test Tomcat availability as well as Application health







(1) Skype x Mail - Aliaksandr D x EPAM Cloud and D x 2.2\_Zabbix\_WEB x Zabbix\_WEB.ppt x Zabbix\_server: Co x Zabbix\_Basics.ppt x Hello World! x +

Not secure | 192.168.56.77/zabbix/hosts.php?form=update&hostid=10263&groupid=0

**ZABBIX** Monitoring Inventory Reports Configuration Administration

Host groups Templates **Hosts** Maintenance Actions Event correlation Discovery Services

Hosts

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

Host Templates IPMI Tags Macros Inventory Encryption

\* Host name: tomcat

Visible name:

\* Groups: Linux servers X Select

\* At least one interface must exist.

Agent interfaces	IP address	DNS name	Connect to	Port	Default
	192.168.56.78		ip DNS	8080	<input checked="" type="radio"/> Remove

Add

SNMP interfaces Add

JMX interfaces Add

IPMI interfaces Add

Description:

Monitored by proxy (no proxy)

Enabled ☒

Update Clone Full clone Delete Cancel

Zabbix 4.2.7. © 2001–2019, Zabbix SIA

Browser tabs: (1) Skype, Mail - Aliaksandr, EPAM Cloud and, 2.2.Zabbix\_WEB, Zabbix\_WEB.ppt, Zabbix\_server: Co, Zabbix\_Basics.ppt, Hello World!

Address bar: 192.168.56.77/zabbix/items.php?filter\_set=1&filter\_hostids%5B0%5D=10263

ZABBIX Monitoring Inventory Reports Configuration Administration

Host groups Templates Hosts Maintenance Actions Event correlation Discovery Services

### Items

Create item

All hosts / tomcat Enabled [ZBX] SNMP JMX IPMI Applications 1 Items 1 Triggers Graphs Discovery rules Web scenarios Filter

Host groups: type here to search Select

Hosts: tomcat X type here to search Select

Application: Select

Name:

Key:

Type: all

Type of information: all

State: all

Update interval:

History:

Trends:

Status: all

Triggers: all

Template: all

Discovery: all

Apply

Reset

Subfilter affects only filtered data

<input type="checkbox"/> Wizard	Name	Triggers	Key	Interval	History	Trends	Type	Applications	Status	Info
<input type="checkbox"/>	***		tomcat-service	net.tcp.service[http,8080]	10s	90d	365d	Simple check	tomcat-service	Enabled

Displaying 1 of 1 found

0 selected

Enable

Disable

Check now

Clear history

Copy

Mass update

Delete

Zabbix 4.2.7. © 2001–2019, Zabbix SIA

Browser tabs: (1) Skype, Mail - Aliaksandr, EPAM Cloud and, 2.2.Zabbix\_WEB, Zabbix\_WEB.ppt, Zabbix\_server: His, Zabbix\_Basics.ppt, Hello World!

Address bar: 192.168.56.77/zabbix/history.php?sid=604d55bea5230b7a&form\_refresh=2&itemids%5B0%5D=28646&page=1&action=showgraph

ZABBIX Monitoring Inventory Reports Configuration Administration

Dashboard Problems Overview Web Latest data Graphs Screens Maps Discovery Services

### tomcat: tomcat-service

View as: Graph

From: now-15m To: now Apply

Last 2 days

Yesterday

Today

Last 5 minutes

Last 7 days

Day before yesterday

Today so far

Last 15 minutes

Last 30 days

This day last week

This week

Last 30 minutes

Last 3 months

Previous week

This week so far

Last 1 hour

Last 6 months

Previous month

This month

Last 3 hours

Last 1 year

Previous year

This month so far

Last 6 hours

Last 2 years

This year

This year so far

Last 12 hours

Last 1 day

tomcat: tomcat-service

■ tomcat-service [all] last 1 min 0 avg 0.6966 max 1

javascript:void(0)

Zabbix 4.2.7. © 2001–2019, Zabbix SIA

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

For both VMs use vagrant box “sbeliakou/centos-7.3-x86\_64-minimal

The screenshot shows the Zabbix 4.2.7 web interface. The top navigation bar includes links for Monitoring, Inventory, Reports, Configuration, and Administration. The main menu on the left lists Host groups, Templates, Hosts, Maintenance, Actions, Event correlation, Discovery, and Services. The 'Triggers' page is active, displaying a configuration form for a new trigger.

**Configuration Form:**

- Host groups:** A search box with 'tomcat' entered and a 'Select' button.
- Hosts:** A search box with 'tomcat' entered and a 'Select' button.
- Name:** A text input field.
- Severity:** Radio buttons for Not classified, Information, Warning, Average, High, and Disaster.
- State:** Radio buttons for all, Normal, and Unknown.
- Status:** Radio buttons for all, Enabled, and Disabled.
- Value:** Radio buttons for all, Ok, and Problem.
- Tags:** A section with 'And/Or' and 'Or' options, a 'tag' input, and buttons for 'Contains', 'Equals', and 'value'. There is also an 'Add' button and a 'Remove' button.
- Inherited:** Radio buttons for all, Yes, and No.
- Discovered:** Radio buttons for all, Yes, and No.
- With dependencies:** Radio buttons for all, Yes, and No.

**Buttons:** 'Apply' and 'Reset' buttons are located at the bottom of the configuration form.

**Table:**

Severity	Value	Name	Expression	Status	Info	Tags
High	PROBLEM	tomcat-service-down	{tomcatnet.tcp.service[http,8080].last[]}=0	Enabled		

0 selected [Enable] [Disable] [Copy] [Mass update] [Delete]

Displaying 1 of 1 found

Zabbix 4.2.7. © 2001–2019, Zabbix SIA