

**EPAM Systems, RD Dep.****MTN.NIX.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 2<sup>nd</sup> VM, deploy any “hello world” application

### Tasks:

1. Configure WEB check:

- Scenario to test Tomcat availability as well as Application health

Let's check availability (response time) of tomcat test page

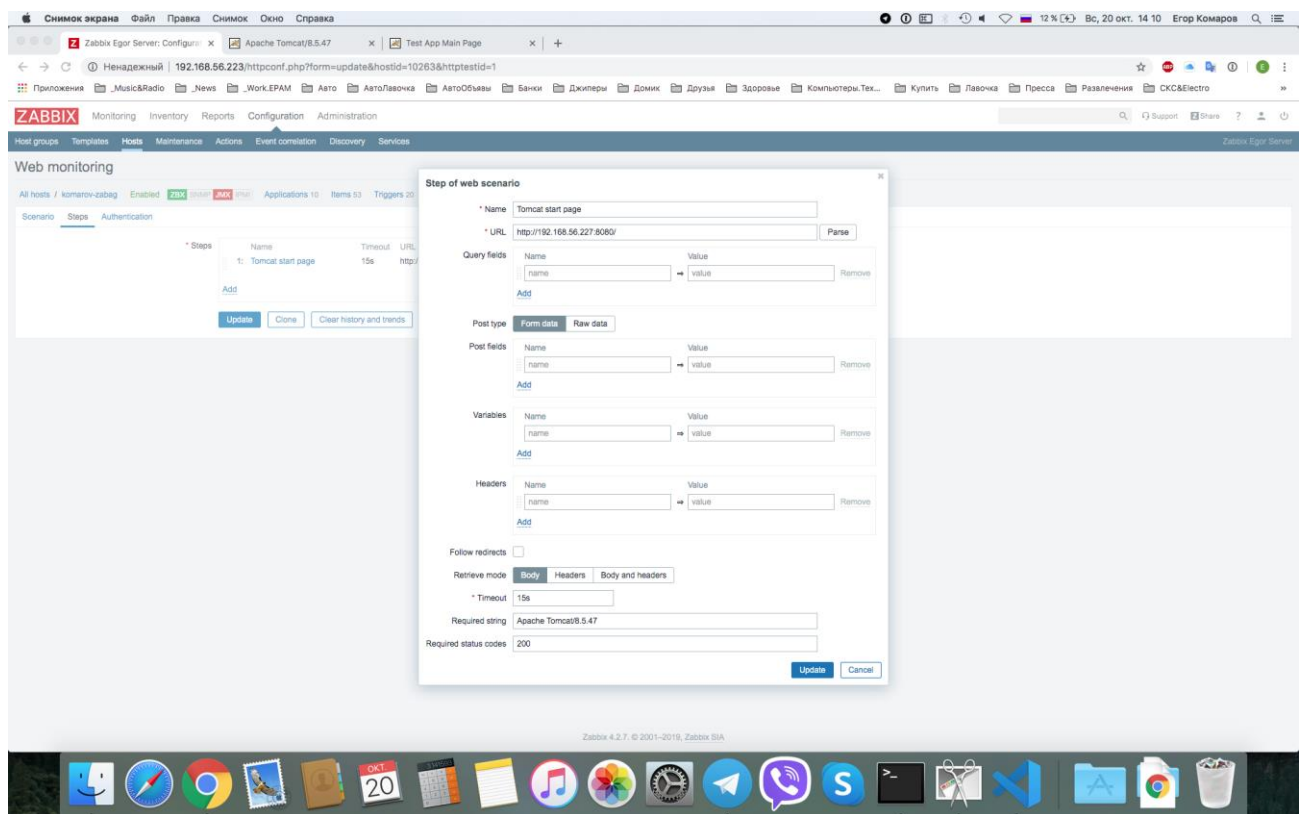
(<http://192.168.56.227:8080/>):

The screenshot shows the Zabbix web interface for configuring a web monitoring scenario. The 'Scenario' tab is selected, and the configuration form is displayed. The form includes the following fields and options:

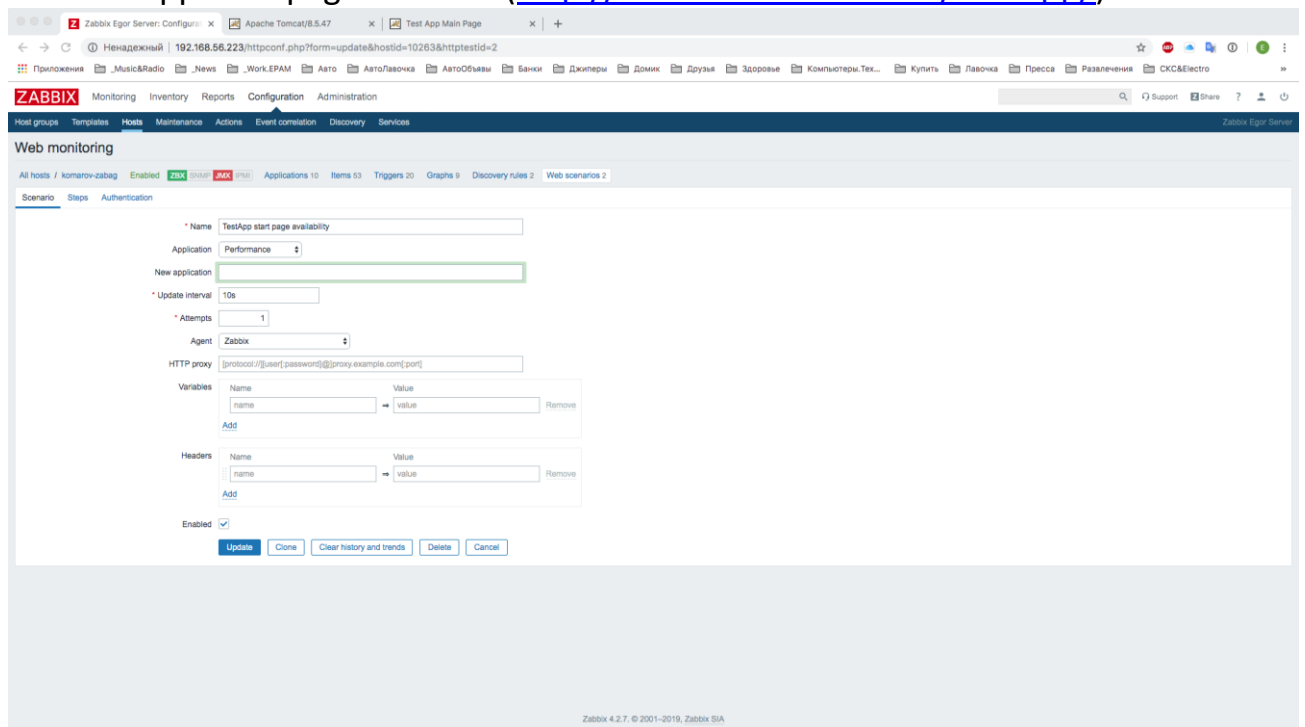
- Name:** Tomcat availability
- Application:** Performance
- New application:** (empty text box)
- Update interval:** 1m
- Attempts:** 1
- Agent:** Zabbix
- HTTP proxy:** [protocol://[user[:password]@]proxy.example.com[:port]]
- Variables:** A table with columns 'Name' and 'Value'. There is an 'Add' button below.
- Headers:** A table with columns 'Name' and 'Value'. There is an 'Add' button below.
- Enabled:** Checked (indicated by a checkmark in a box).

At the bottom of the form, there are five buttons: 'Update', 'Clone', 'Clear history and trends', 'Delete', and 'Cancel'.

Saved: 20-Oct-2019 05:05



and TestApp start page scenario (<http://192.168.56.227:8080/TestApp/>):



Saved: 20-Oct-2019 05:05

Step of web scenario

Name: TestApp start page response time check

URL: http://192.168.56.227:8080/TestApp/

Query fields

Name	Value
name	value

Post type: Form data

Post fields

Name	Value
name	value

Variables

Name	Value
name	value

Headers

Name	Value
name	value

Follow redirects: ☐

Retrieve mode: Body

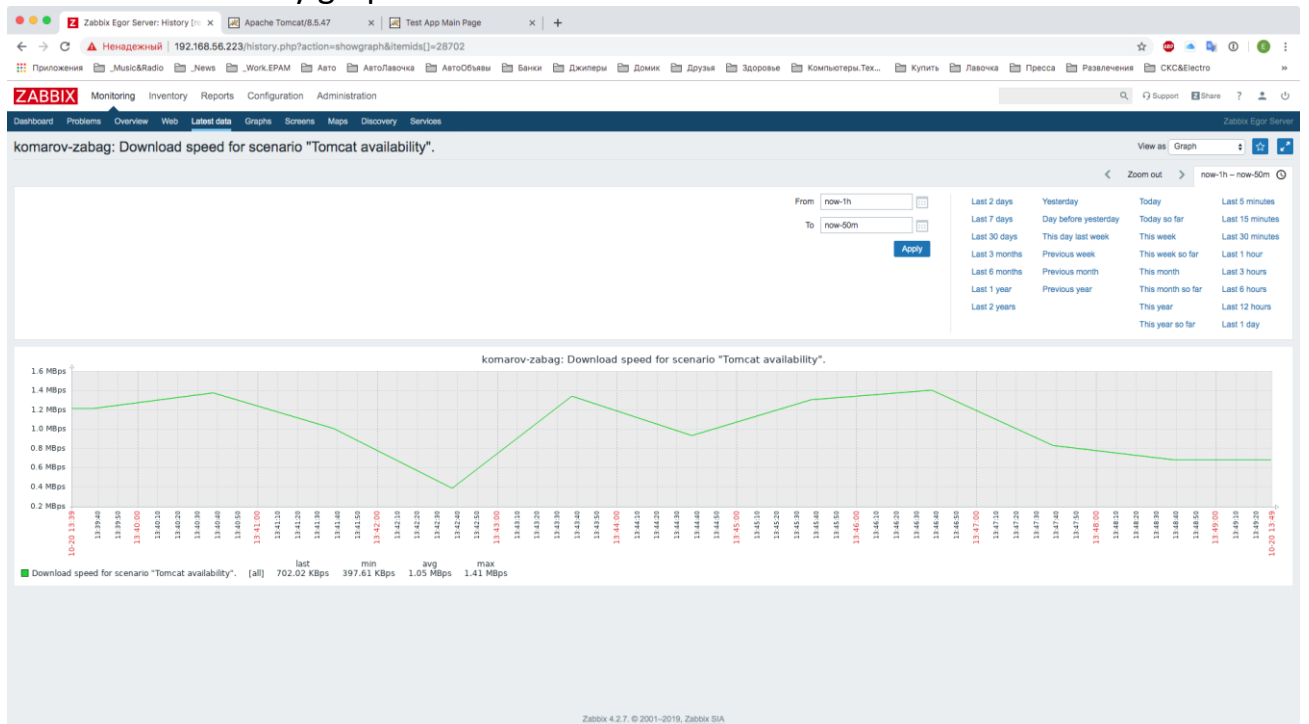
Timeout: 15s

Required string: Welcome to the test app!

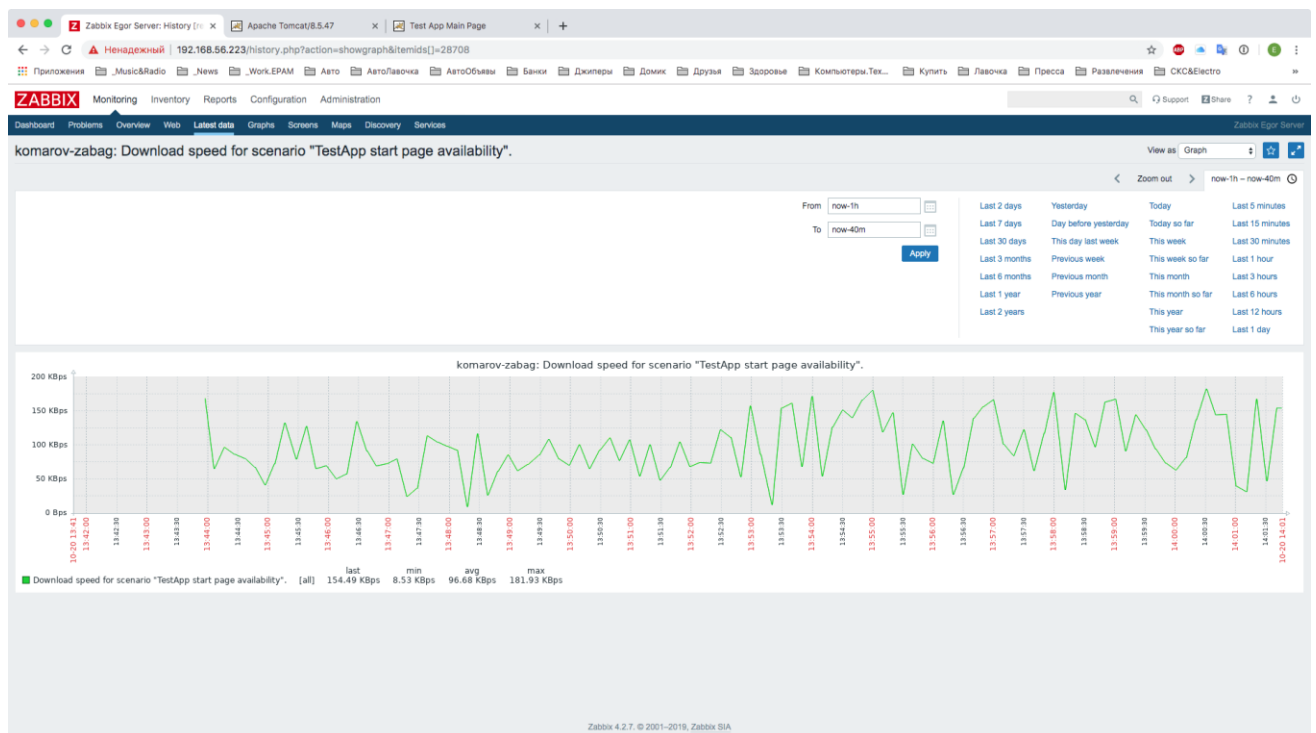
Required status codes: 200

Update Cancel

Let's see availability graphs:



Saved: 20-Oct-2019 05:05

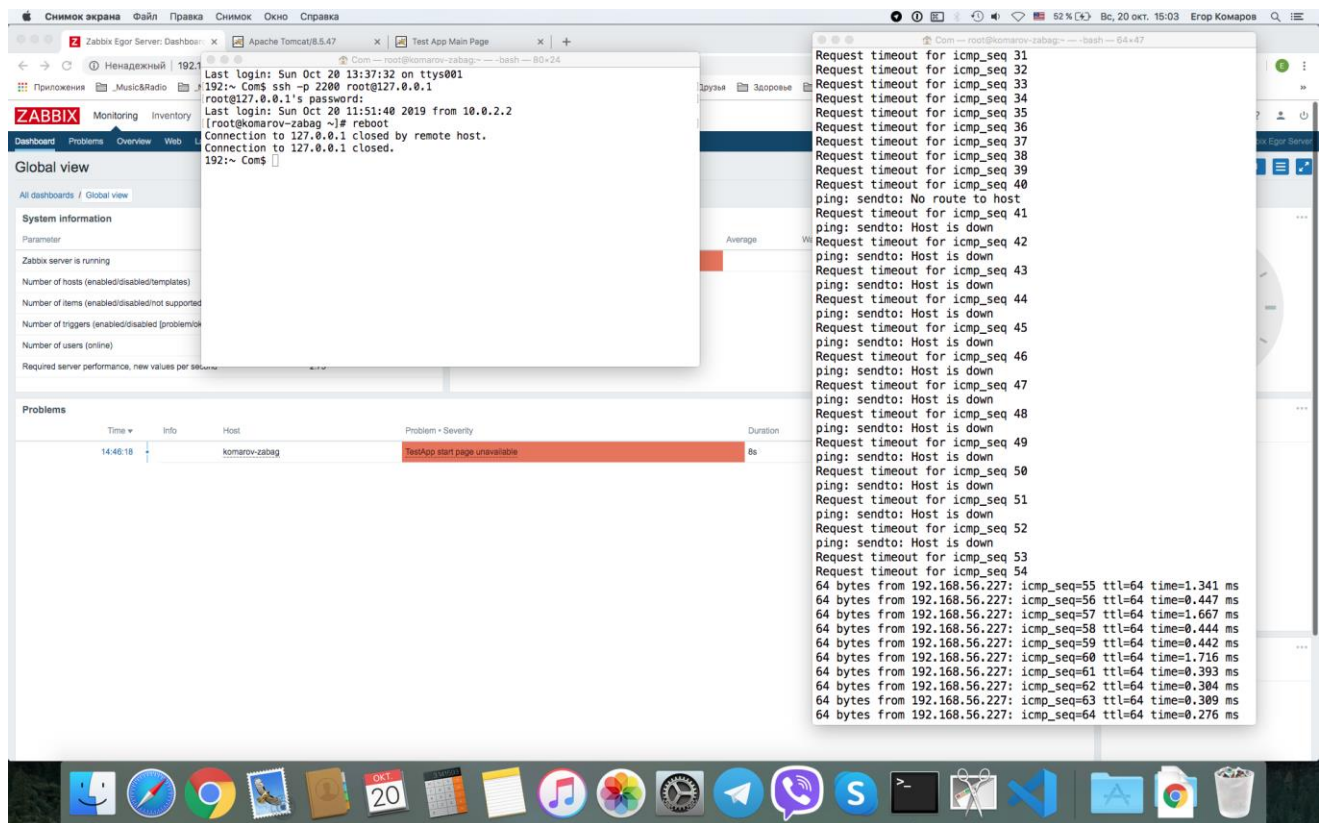


## 2. Configure Triggers to alert once WEB resources become unavailable Let's configure trigger "TestApp start page unavailable"

Alert appears when last 5 tries were unsuccessful (it means 50s TestApp unavailability).

Let's reboot komarov-zabag host and see:

Saved: 20-Oct-2019 05:05



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