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# EPAM Systems, RD Dep., RD Dep.

# MTN.NIX.05.Zabbix.Basics

REVISION HISTORY					
Ver.	Description of Change	Author	Date	Approved	
				Name	Effective Date
1.0	Initial Version	Siarhei Beliakou	23/May/201 7		

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## Task. Zabbix. Basics

## **Testing Infrastructure:**

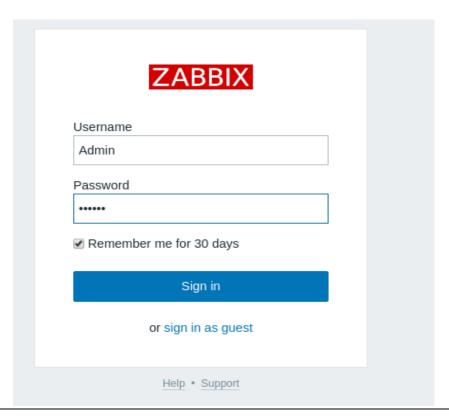
Vagrantfile to spin up 2 VMs (virtualbox):

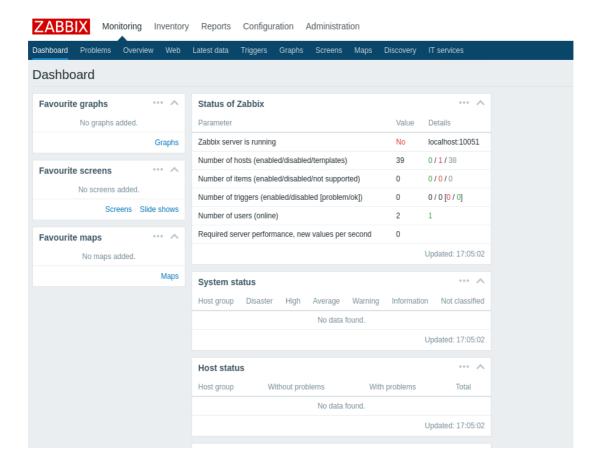
- zabbix server, provisioned by Vagrant provisioner
- Zabbix agents on both VMs, provisioned by Vagrant provisioner Configure zabbix to work on the server directly without /zabbix <a href="http://zabbix-server/zabbix">http://zabbix-server/zabbix</a> -> <a href="http://zabbix-server">http://zabbix-server</a>

## Task:

You should install and configure Zabbix server and agents.

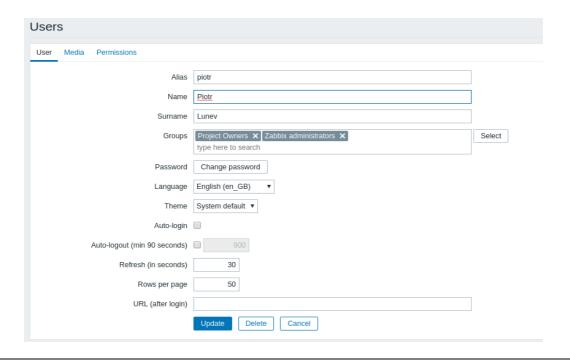


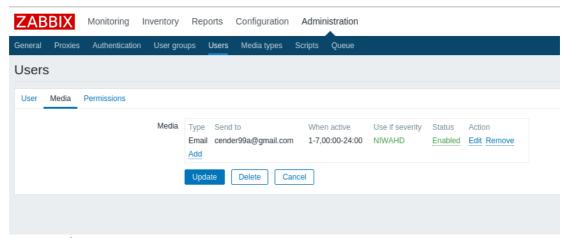




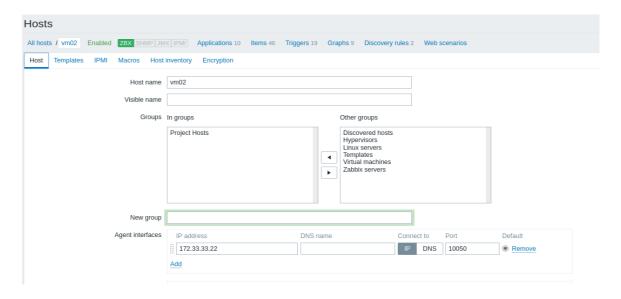
# 1. Using Zabbix UI:

- Create User group "Project Owners"
- User, assign user to "Project Owners", set email

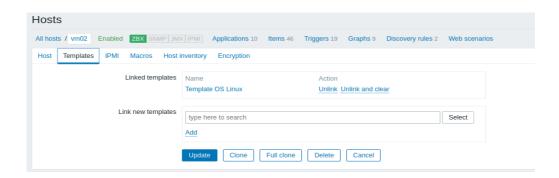




 Add 2<sup>nd</sup> VM to zabbix: create Host group ("Project Hosts"), create Host in this group, enable ZABBIX Agent monitoring

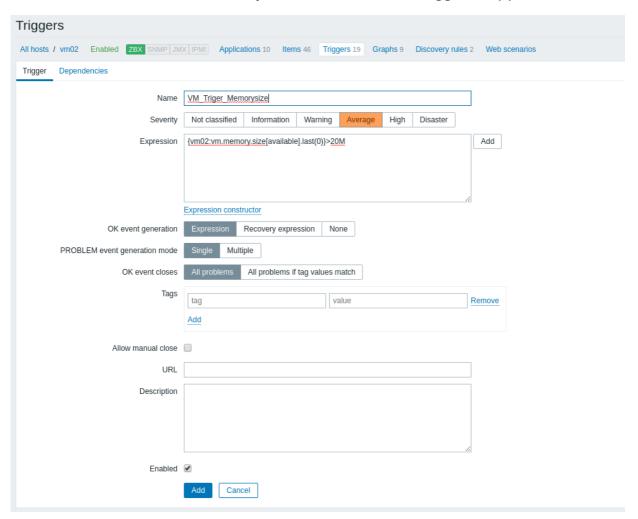


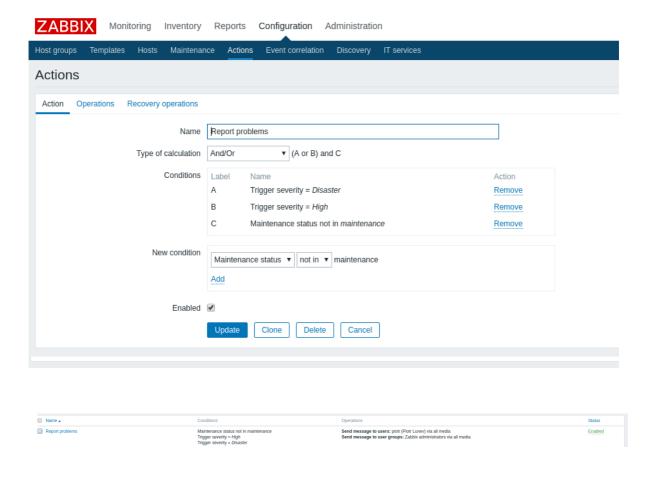
Assign to this host template of Linux

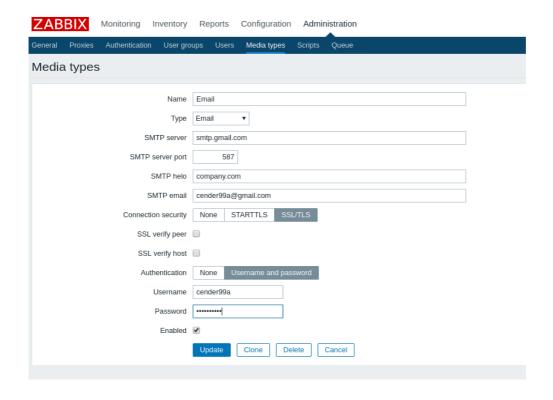




- Create custom checks (CPU Load, Memory load, Free space on file systems, Network load
- Create trigger with Severity HIGH, check if it works (Problem/Recovery)
- Create Action to inform "Project Owners" if HIGH triggers happen







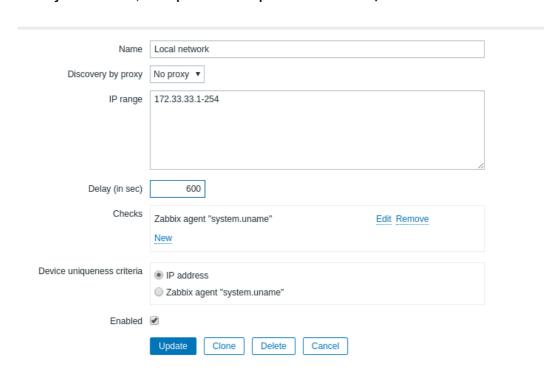


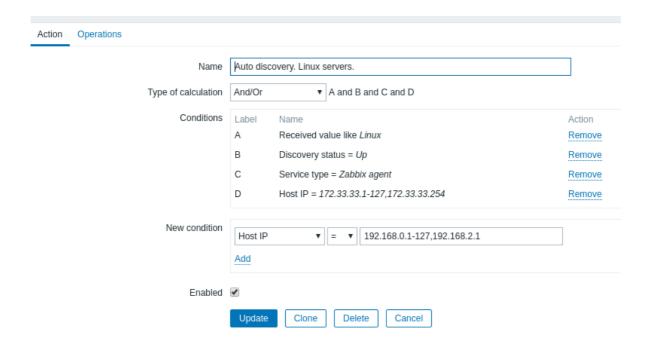
# PROBLEM: VM\_Triger\_Memorysize Входящие ×

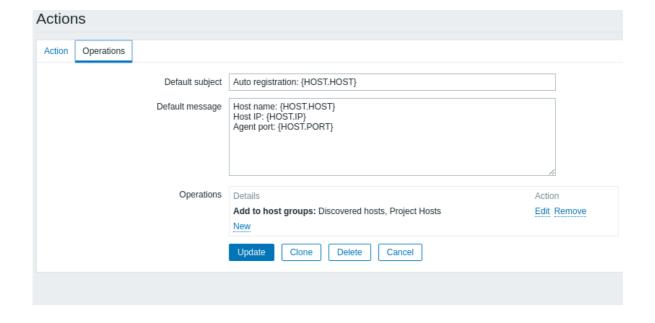


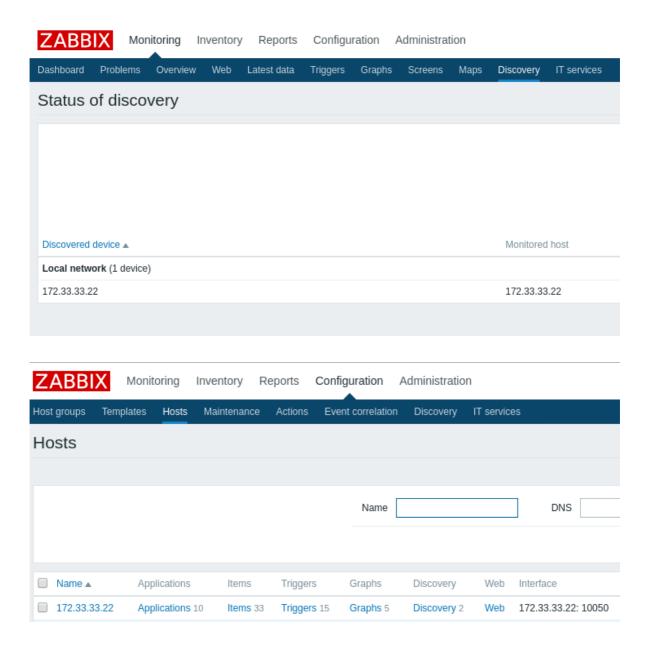
# 2. Using Zabbix UI:

 Configure "Network discovery" so that, 2<sup>nd</sup> VM will be joined to Zabbix (group "Project Hosts", Template "Template OS Linux")



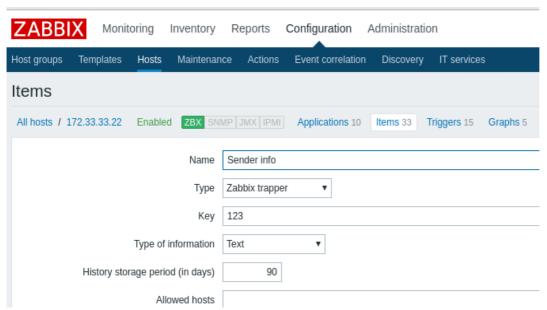






Use zabbix\_sender to send data to server manually (use zabbix\_sender with key -vv for maximal verbosity).

#### Create item on zabbix server



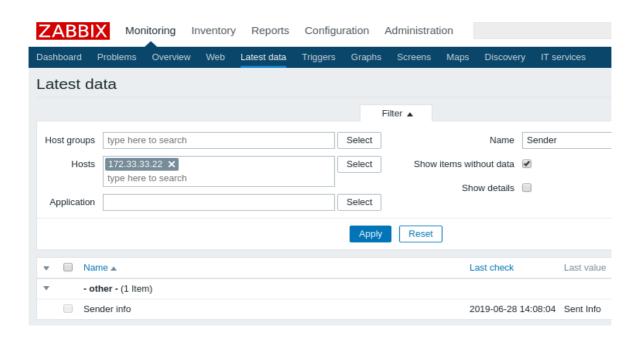
On agent use

#### command

# zabbix sender -z 172.33.33.11 -s "172.33.33.22" -k 123 -o "Sent Info" -vv

[root@zabbix02 vagrant]# zabbix\_sender -z 172.33.33.11 -s "172.33.33.22" -k 123 -o "Sent Info" -vv zabbix\_sender [4850]: DEBUG: answer [{"response":"success","info":"processed: 1; failed: 0; total: 1; seconds spent: 0.000028"}] info from server: "processed: 1; failed: 0; total: 1; seconds spent: 0.000028" sent: 1; skipped: 0; total: 1

## And see information on server



```
Use zabbix_get as data receiver
[root@zabbix01 vagrant]# zabbix_get -s 172.33.33.22 -p 10050 -k 'system.cpu.load[all,avg1]'
0.000000
[root@zabbix01 vagrant]# zabbix_get -s 172.33.33.22 -p 10050 -k 'system.cpu.load[all,avg1]'
0.480000
```