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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):

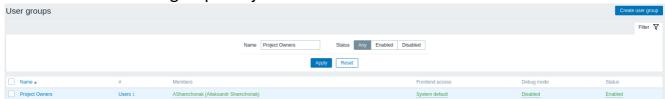
- zabbix server, provisioned by Vagrant provisioner
- Zabbix agents on both VMs, provisioned by Vagrant provisioner Configure zabbix to work on the server directly without /zabbix <a href="http://zabbix-server/zabbix">http://zabbix-server/zabbix</a> -> <a href="http://zabbix-server">http://zabbix-server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

### Task:

You should install and configure Zabbix server and agents.

## 1. Using Zabbix UI:

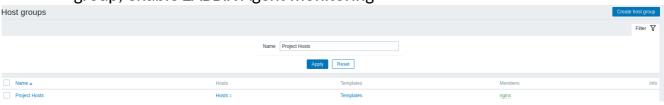
Create User group "Project Owners"



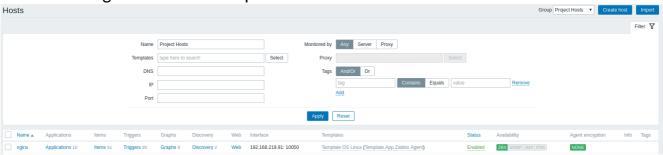
 Create User (example "Siarhei Beliakou"), assign user to "Project Owners", set email



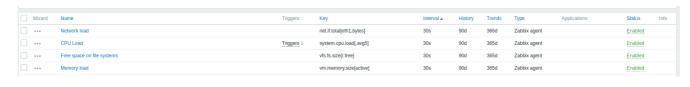
 Add 2<sup>nd</sup> VM to zabbix: create Host group ("Project Hosts"), create Host in this group, enable ZABBIX Agent monitoring



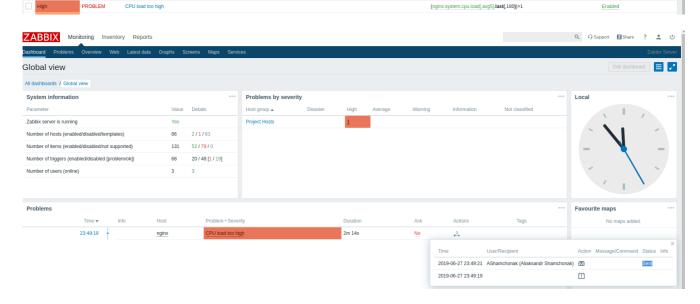
Assign to this host template of Linux

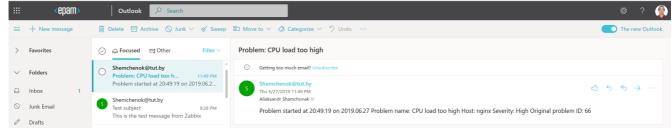


 Create custom checks (CPU Load, Memory load, Free space on file systems, Network load)

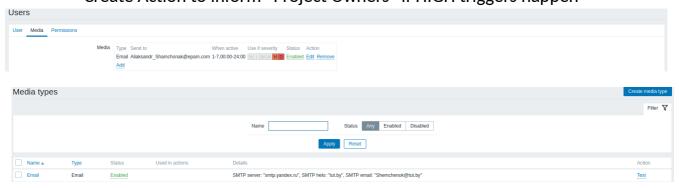


Create trigger with Severity HIGH, check if it works (Problem/Recovery)





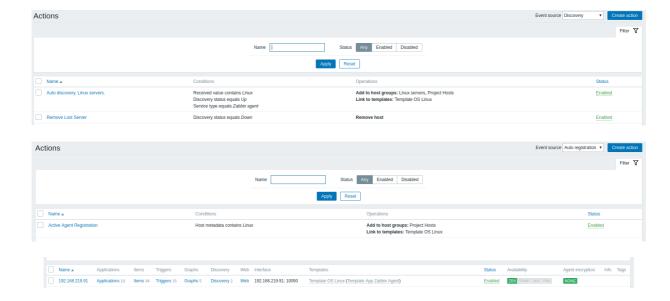
• Create Action to inform "Project Owners" if HIGH triggers happen



For both VMs use vagrant box "sbeliakou/centos"

## 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")



For both VMs use vagrant box "sbeliakou/centos"

#### Task. Zabbix Tools

### **Testing Infrastructure:**

Vagrantfile to spin up 2 VMs (virtualbox):

- zabbix server, provisioned by Vagrant provisioner
- Linux VM with zabbix agent, script for registration on zabbix server, all provisioned by Vagrant provisioner

#### Task:

Configure the agent for replying to the specific server in passive and active mode.



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

[vagrant@nginx ~]\$ zabbix\_sender -z 192.168.219.90 -p 10051 -s "zabbixsender" -k testnum -o 50 -vv zabbix\_sender [4375]: DEBUG: answer [{"response":"success","info":"processed: 1; failed: 0; total: 1; seconds spent: 0.000035"}] Response from "192.168.219.90:10051": "processed: 1; failed: 0; total: 1; seconds spent: 0.000035" sent: 1; skipped: 0; total: 1



Use zabbix get as data receiver and examine zabbix agent sending's.

[root@zabbix ~]# zabbix\_get -s 192.168.219.91 -p 10050 -k 'system.cpu.load[,avg5]'
2.220000