### Task. Zabbix. Basics

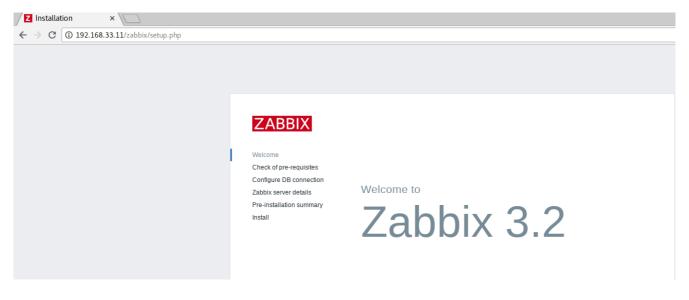
### **Testing Infrastructure:**

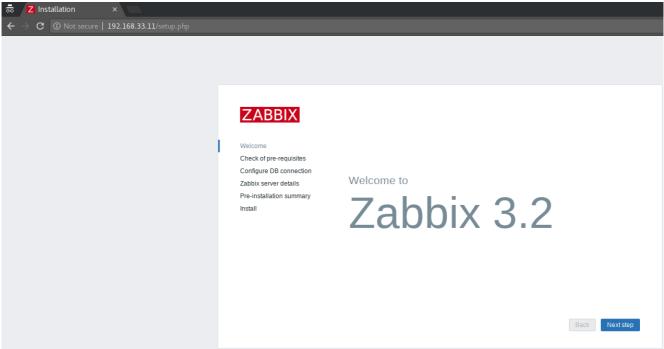
Vagrantfile to spin up 2 VMs (virtualbox):

- 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 http://zabbix-server/zabbix -> http://zabbix-server

### Task:

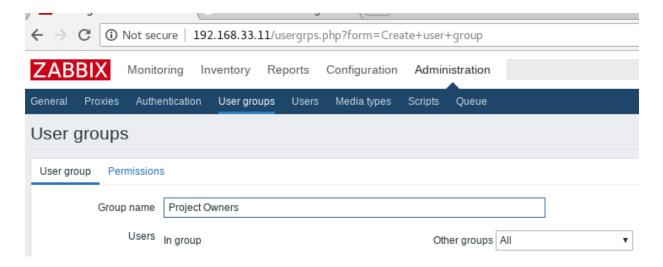
You should install and configure Zabbix server and agents.



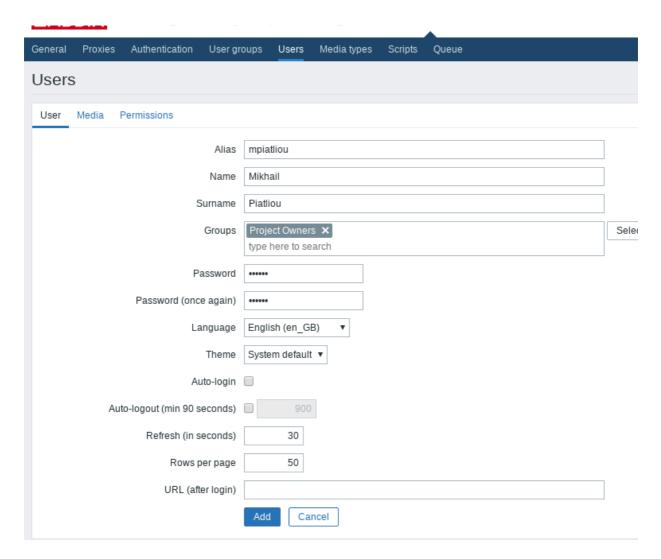


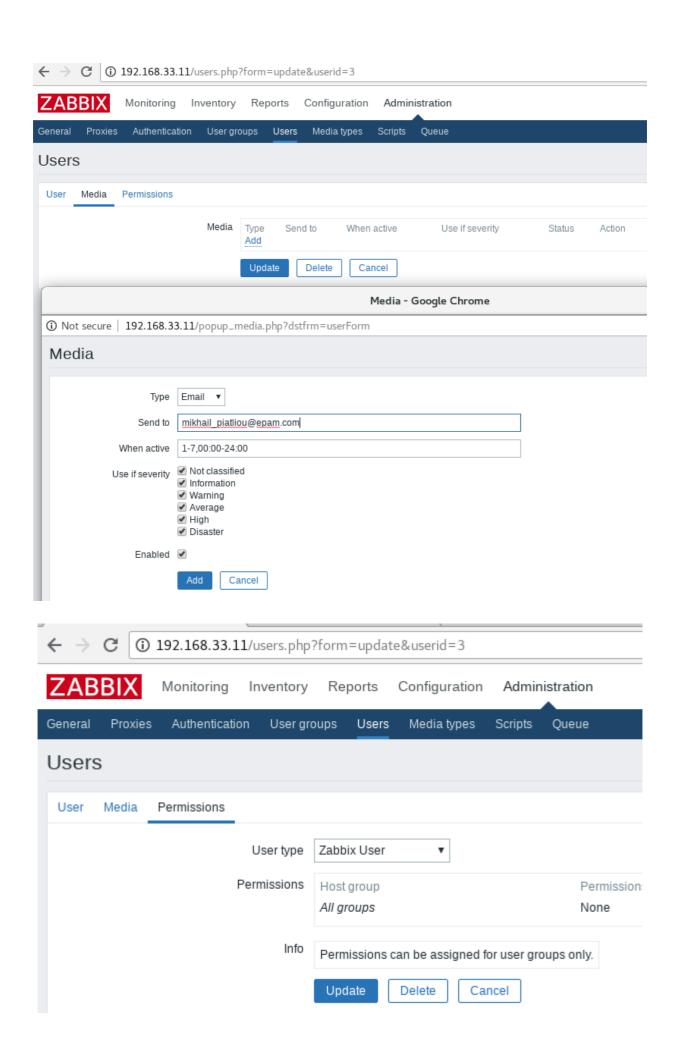
# 1. Using Zabbix UI:

• Create User group "Project Owners"

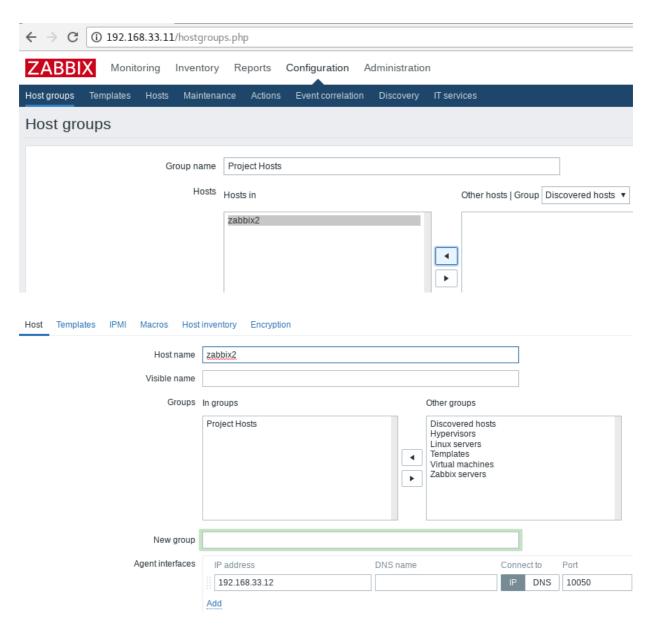


• Create User (example "Siarhei Beliakou"), assign user to "Project Owners", set email

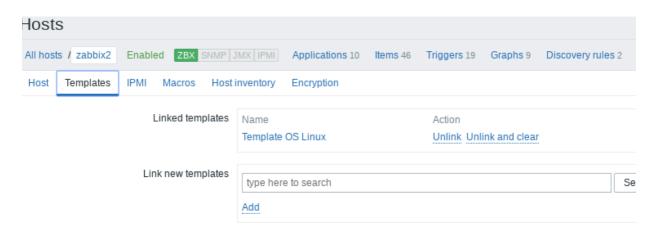


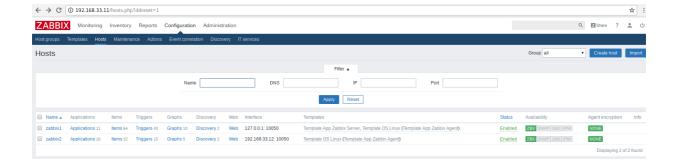


 Add 2<sup>nd</sup> VM to zabbix: create Host group ("Project Hosts"), create Host in this group, enable ZABBIX Agent monitoring

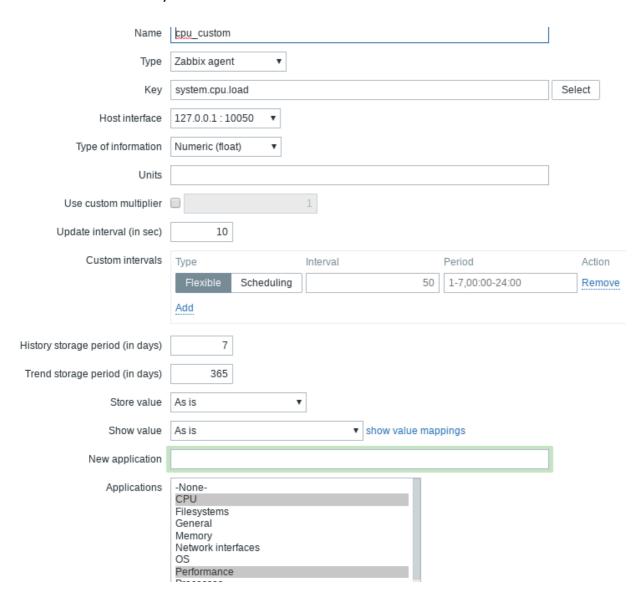


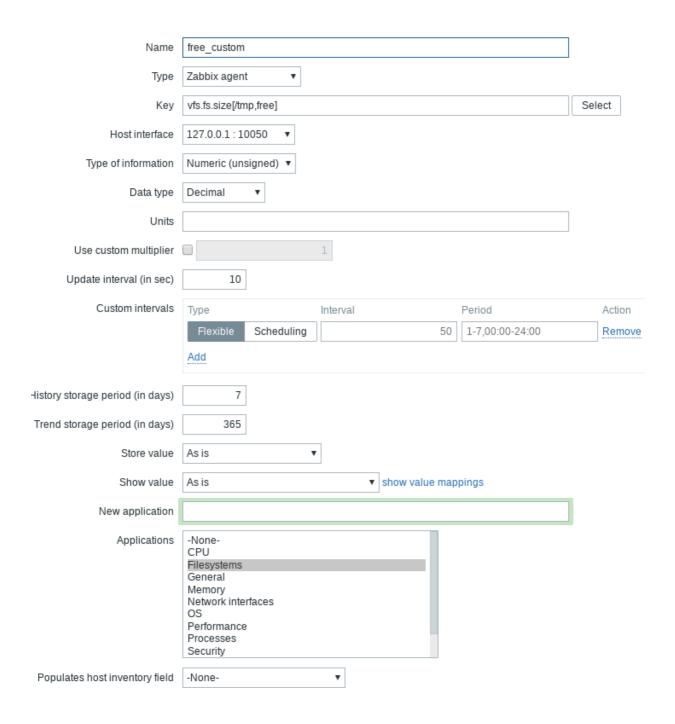
Assign to this host template of Linux



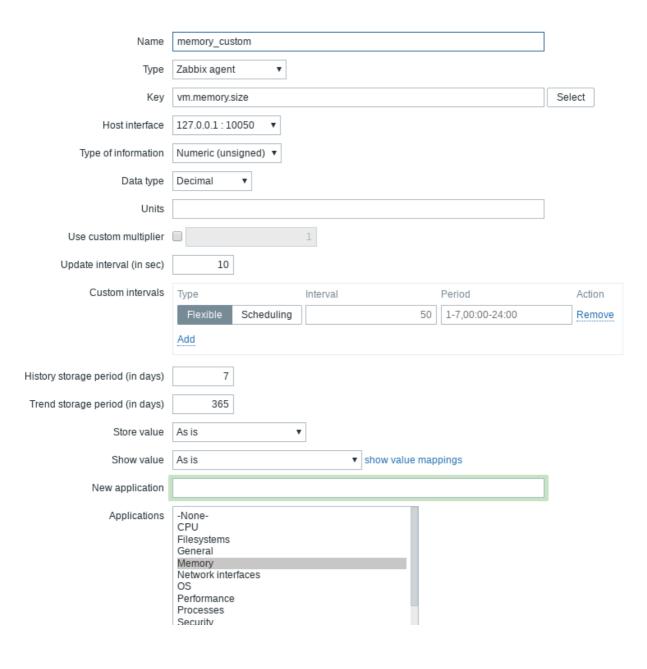


 Create custom checks (CPU Load, Memory load, Free space on file systems, Network load)

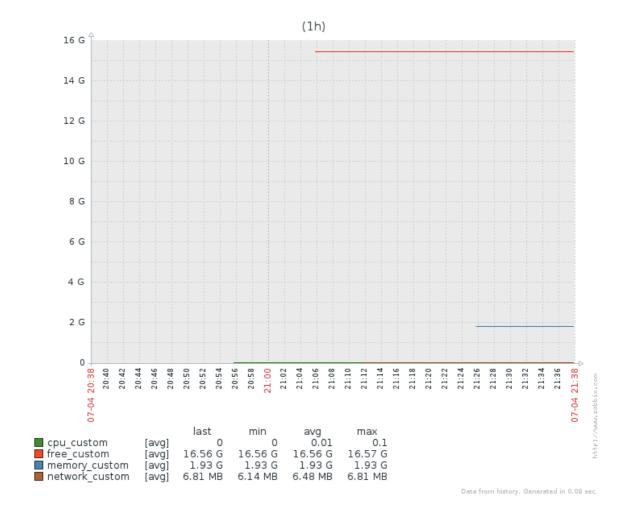




Name	network_custom	
Туре	Zabbix agent ▼	
Key	net.if.in[enp0s8,bytes]	Select
Host interface	127.0.0.1 : 10050 ▼	
Type of information	Numeric (unsigned) ▼	
Data type	Decimal ▼	
Units	В	
Use custom multiplier	1	
Update interval (in sec)	10	
Custom intervals	Type Interval Period	Action
	Flexible Scheduling 50 1-7,00:00-24:00	Remove
	Add	
History storage period (in days)	7	
Trend storage period (in days)	365	
Store value	As is •	
Show value	As is ▼ show value mappings	
New application		
Applications	-None- CPU Filesystems General Memory Network interfaces OS Performance Processes Security	



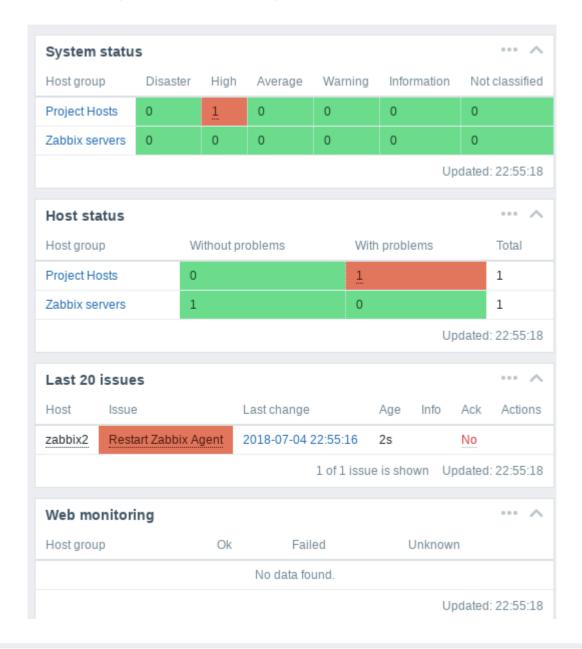
U TELEBIU	rvanie	Higgera	rvey	miter ven 🛋	Houry	Helius	type	Uhhiiranona	Jiano
	cpu_custom		system.cpu.load	10s	7d	365d	Zabbix agent	CPU, Performance	Enabled
	free_custom		vfs.fs.size[/tmp,free]	10s	7d	365d	Zabbix agent	Filesystems	Enabled
	network_custom		net.if.in[enp0s8,bytes]	10s	7d	365d	Zabbix agent	Network interfaces	Enabled
	memory_custom		vm.memory.size	10s	7d	365d	Zabbix agent	Memory	Enabled



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

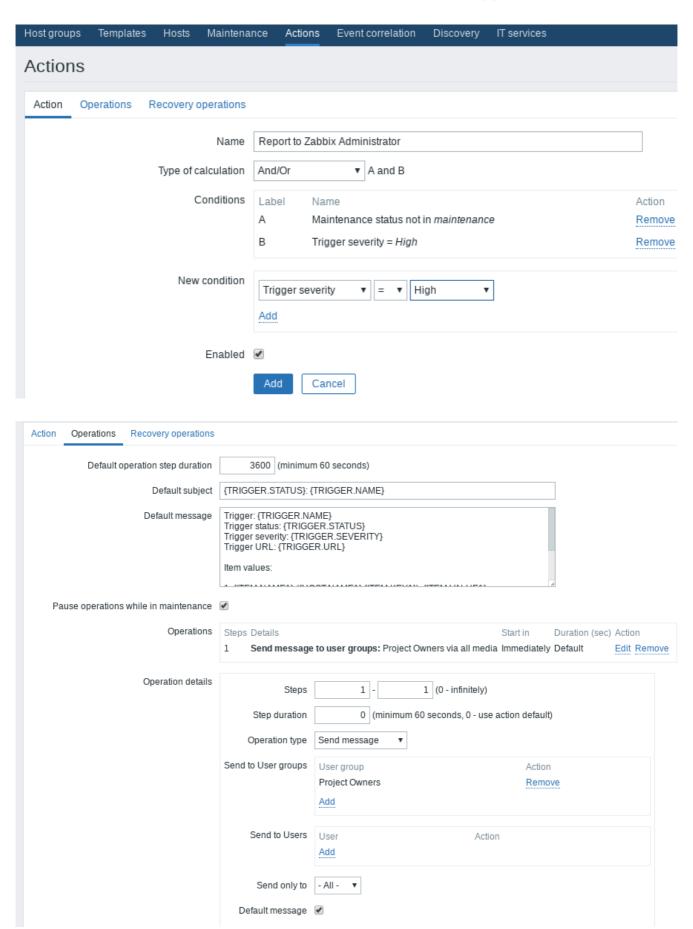
rigger	Dependencies								
	Name	Restart Zabbix Agent							
	Severity	Not classified	Information	Warning	Average	High	Disaster		
	Expression	{zabbix2:system.uptime.change(0)}<0						Add	
		Expression constructor							
	OK event generation	Expression	Expression Recovery expression None						
	PROBLEM event generation mode	Single Multiple							
	OK event closes	All problems All problems if tag values match							
	Tags	tag		val	lue			Remove	
		Add							
	Allow manual close								
	URL								
	Description								

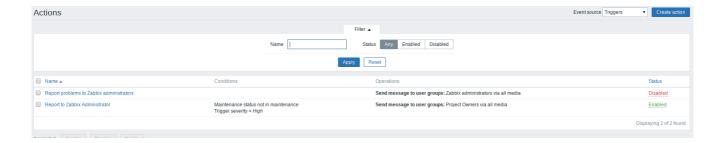
# After rebooting VM2 with Zabbix Agent zabbix2:





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





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

# 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")

