Saved: 25-May-2017 21:31

EPAM Systems, RD Dep., RD Dep.

MTN.NIX.05.Zabbix.Items

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

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Task. Items

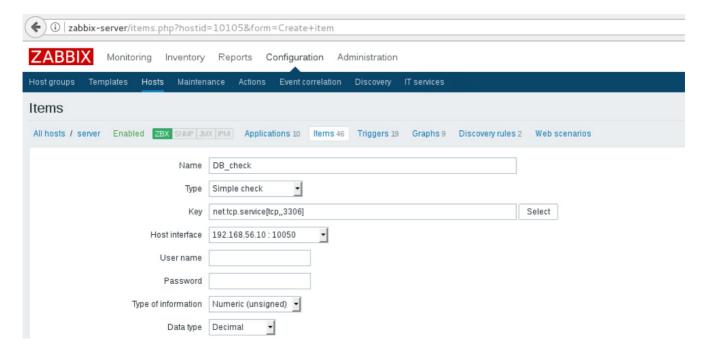
Task:

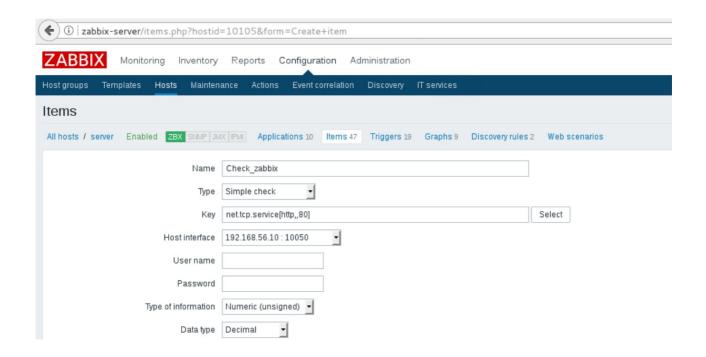
Assuming we have 2 servers (VMs) – ZabbixServer and Tomcat, Configure:

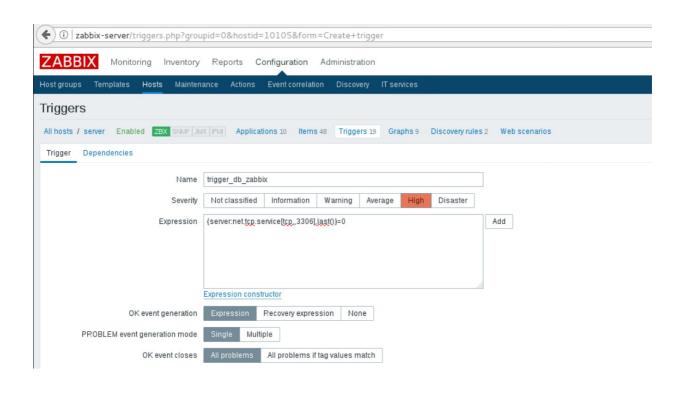
- 1. Simple checks:
 - Zabbix Server WEB availability (80)
 - Zabbix DB is available (3306)
 - Tomcat availability (80, 8080)
 - Tomcat Server is available by ssh (22)
- 2. Calculated Checks:
 - CPU Load per Core (1, 5, 15min)
- 3. Internal Checks:
 - How many items are enabled
 - How many Servers are being monitored

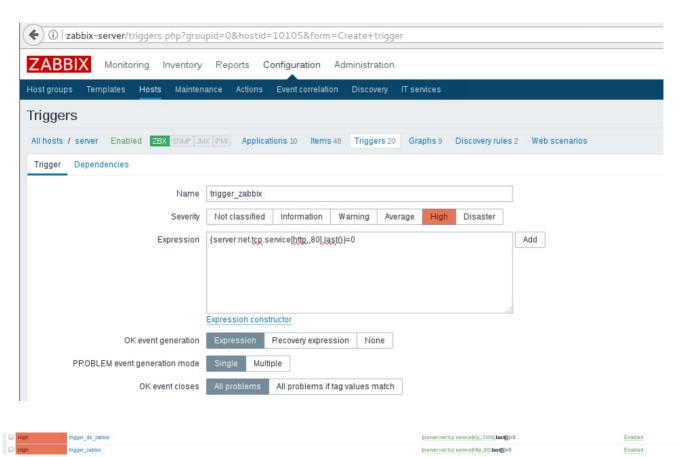
T1

Create items and triggers for Zabbix

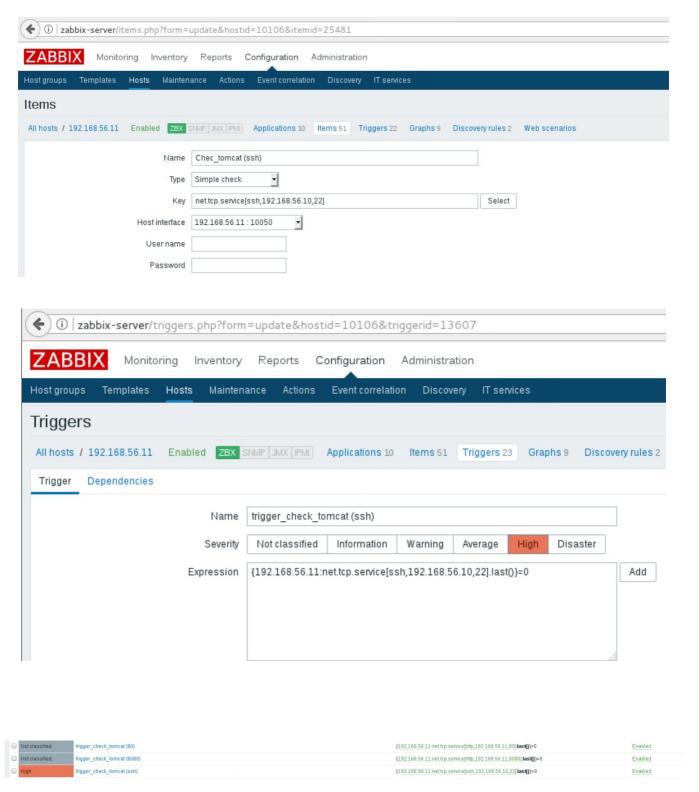


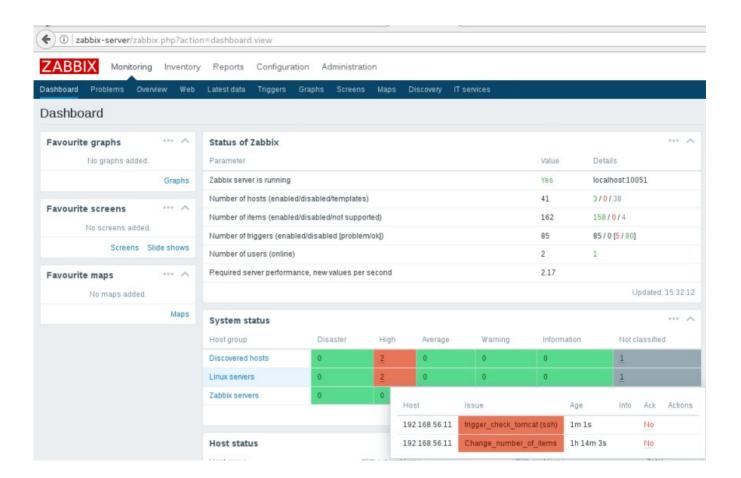




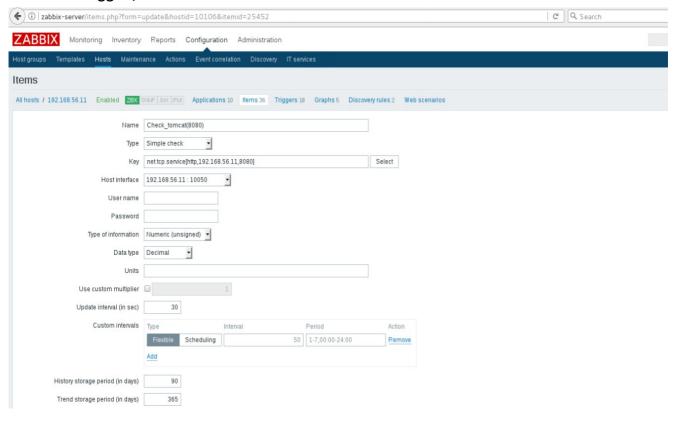


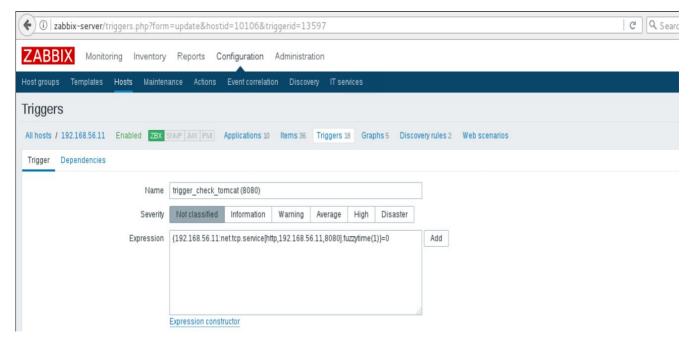
Create tomcat ssh item and trigger



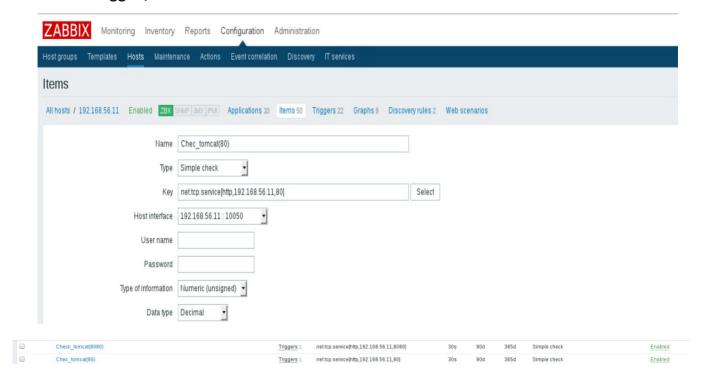


Item and trigger for tomcat 8080

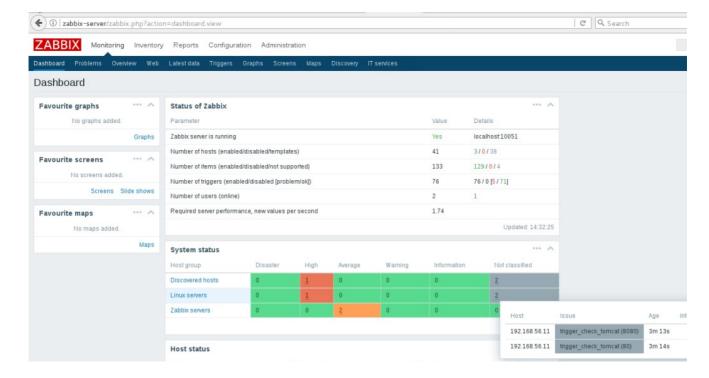




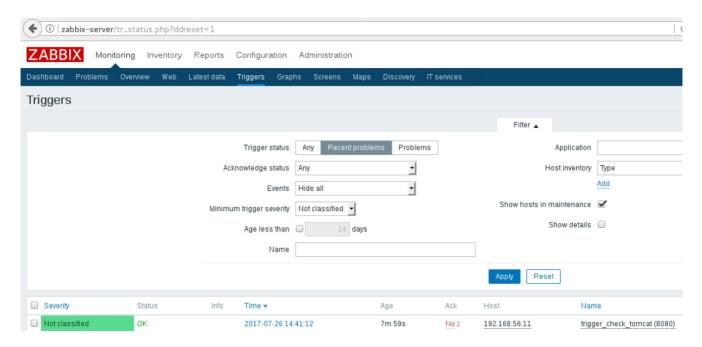
Item and trigger for tomcat 80



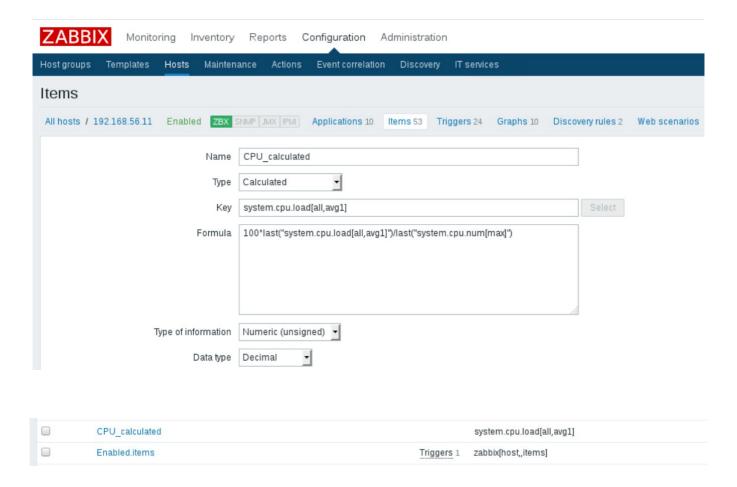
Stop tomcat and see that triggers are working



And now start tomcat



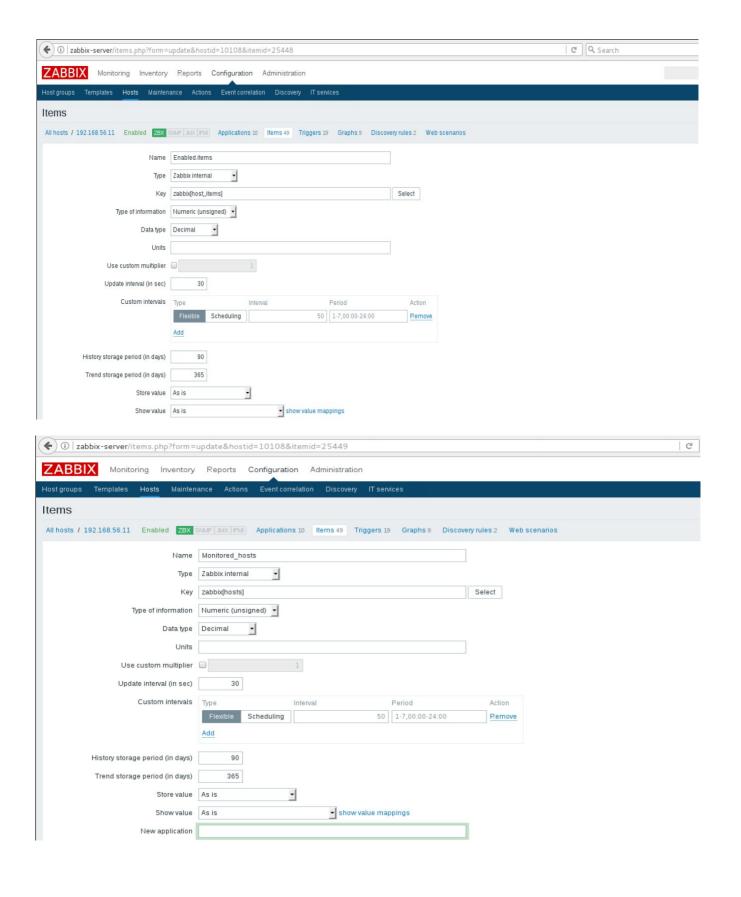
T2 #Create new items (Calculated)



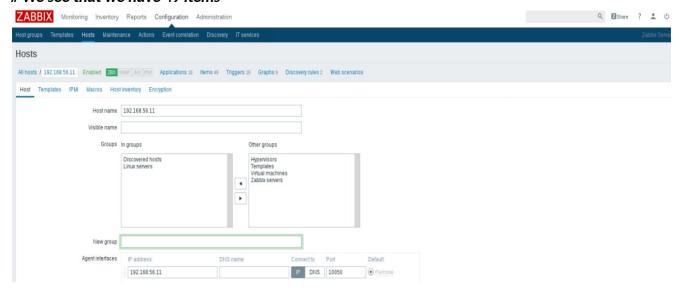
T3 #Create new items for monitoring number of items and number of monitored hosts

	Enabled.items		zabbix[host,,items]	30s	90d	365d	Zabbix internal		Enabled
	Mounted filesystem discovery: Free disk space on /		vfs.fs.size[/,free]	1m	7d	365d	Zabbix agent	Filesystems	Enabled
	Mounted filesystem discovery: Free disk space on /boot		vfs.fs.size(/boot,free)	1m	7d	365d	Zabbix agent	Filesystems	Enabled
	Mounted filesystem discovery: Free disk space on /boot (percentage)	Triggers 1	vfs.fs.size[/boot,pfree]	1m	7d	365d	Zabbix agent	Filesystems	Enabled
	Mounted filesystem discovery: Free disk space on / (percentage)	Triggers 1	vfs.fs.size[/,pfree]	1m	7d	365d	Zabbix agent	Filesystems	Enabled
	Mounted filesystem discovery: Free inodes on /boot (percentage)	Triggers 1	vfs.fs.inode[/boot,pfree]	1m	7d	365d	Zabbix agent	Filesystems	Enabled
	Mounted filesystem discovery: Free inodes on / (percentage)	Triggers 1	vfs.fs.inode[/,pfree]	1m	7 d	365d	Zabbix agent	Filesystems	Enabled
	Template OS Linux: Free swap space		system.swap.size[free]	1m	7d	365d	Zabbix agent	Memory	Enabled
	Template OS Linux: Free swap space in %	Triggers 1	system.swap.size[.pfree]	1m	7d	365d	Zabbix agent	Memory	Enabled
	Template OS Linux: Host boot time		system.boottime	10m	7d	365d	Zabbix agent	General, OS	Enabled
	Template OS Linux Host local time		system.localtime	1m	7d	365d	Zabbix agent	General, OS	Enabled
B	Template OS Linux: Host name	Triggers 1	system.hostname	1h	7d		Zabbix agent	General, OS	Enabled
□	Template App Zabbix Agent: Host name of zabbix_agentd running	Triggers 1	agenthostname	1h	7d		Zabbix agent	Zabbix agent	Enabled
	Network interface discovery: Incoming network traffic on enp0s8		net.if.in[enp0s8]	1m	7 d	365d	Zabbix agent	Network interfaces	Enabled
0	Network interface discovery: Incoming network traffic on enp0s3		net.if.in[enp0s3]	1m	7d	365d	Zabbix agent	Network interfaces	Enabled
0	Template OS Linux Interrupts per second		system.cpu.intr	1m	7d	365d	Zabbix agent	CPU, Performance	Enabled
	Template OS Linux: Maximum number of opened files	Triggers 1	kernel.maxfiles	1h	7d	365d	Zabbix agent	OS	Enabled
	Template OS Linux: Maximum number of processes	Triggers 1	kernel.maxproc	1h	7d	365d	Zabbix agent	OS	Enabled
0	Monitored_hosts		zabbix[hosts]	30s	90d	365d	Zabbix internal		Enabled

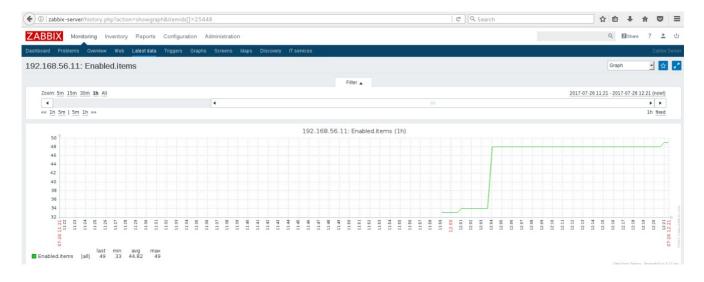
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We see that we have 49 items

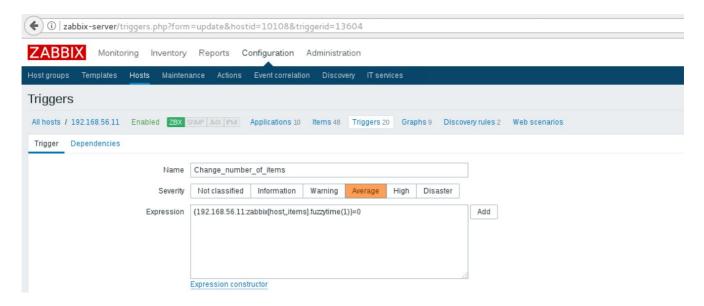


Now we open our graphs and see diagram with all items

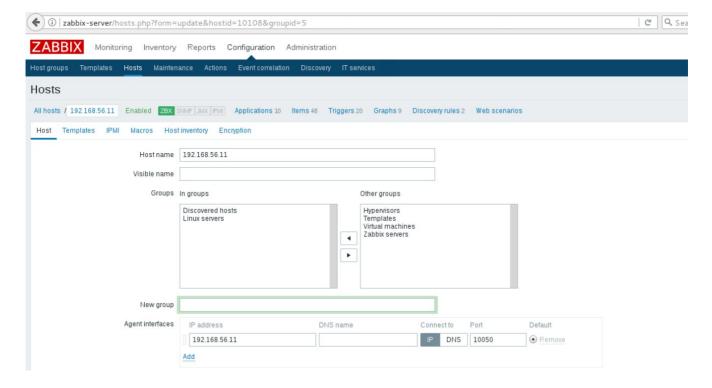


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#Add a new trigger of number of items



Delete one item (was 49 and now 48)



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And our trigger is working



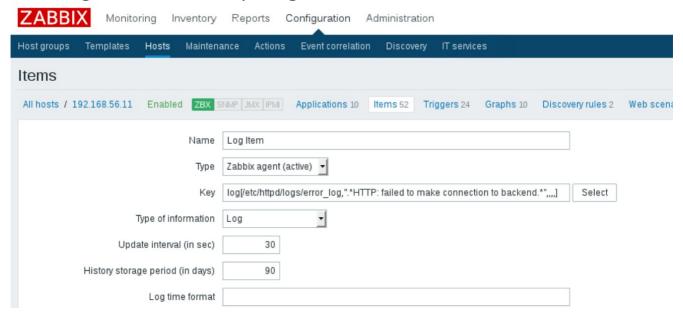
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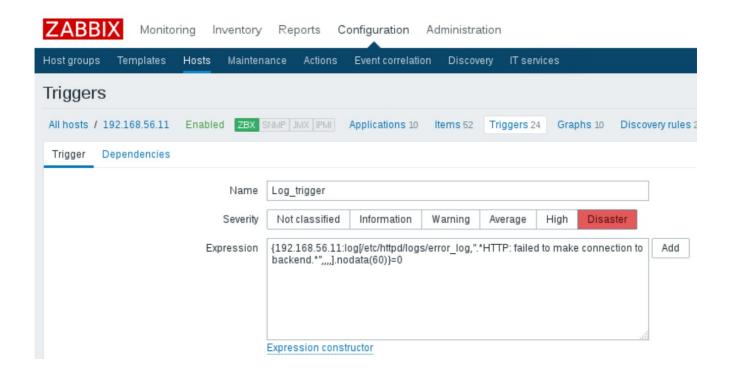
Create item and develop custom trigger for log monitoring

For that task I create vh in httpd section with ProxyPass (80 → 192.168.56.11:8080)

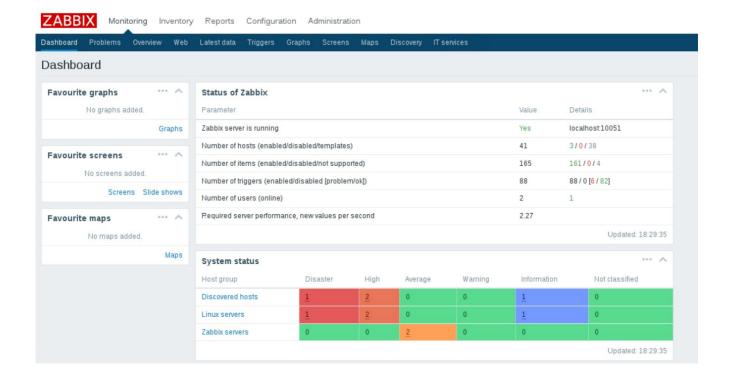
<VirtualHost *:80>
 ProxyPass / http://192.168.56.11:8080/
</VirtualHost>

Change owners for httpd log files (chown zabbix -R)

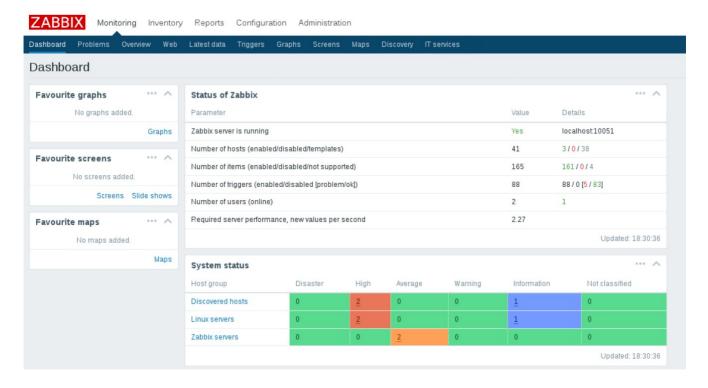




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And after 1 minute we see empty Disaster block



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