

Welcome to Zabbix Conference 2016!



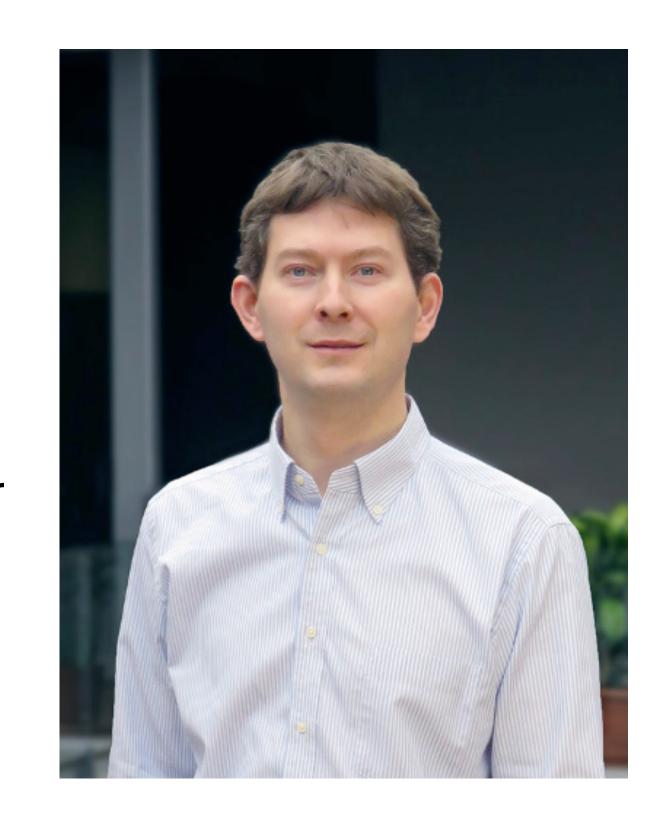
Who am 1?

Alexei Vladishev

Creator of Zabbix

CEO, Architect and Product Manager

Twitter: @avladishev





Our sponsors









Conference stats



223 participants



223 participants from 38 countries



Top five countries

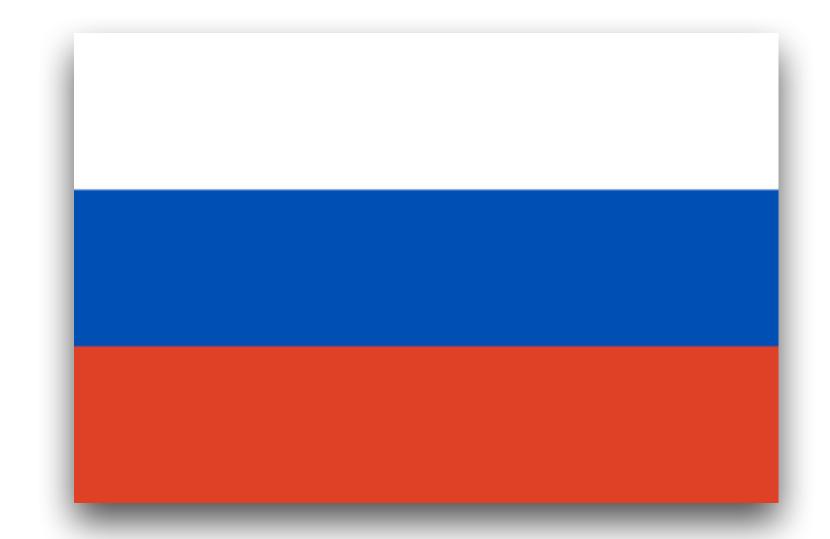
- 1. 16
- 2. France **13**
- 3. Netherlands 11
- 4. Lithuania **10**
- 5. Germany 9

^{*} excluding Latvia



Top five countries

- 1. Russia 16
- 2. France **13**
- 3. Netherlands 11
- 4. Lithuania **10**
- 5. Germany 9



^{*} excluding Latvia



What's happened in 2016



Release of Zabbix 3.0 LTS

Long Term Support (LTS) till 2021



Faster development, better support

45 people in Riga, Tokyo and New York



Last but not least...

Zabbix is a True Open Source software and will always be.



Let's talk about Zabbix 3.2



Quick reminder

Zabbix 3.2 is the next major release, non LTS, 6-7 months support period



Event correlation



Example of a local event correlation



Log file monitoring

/var/log/services.log

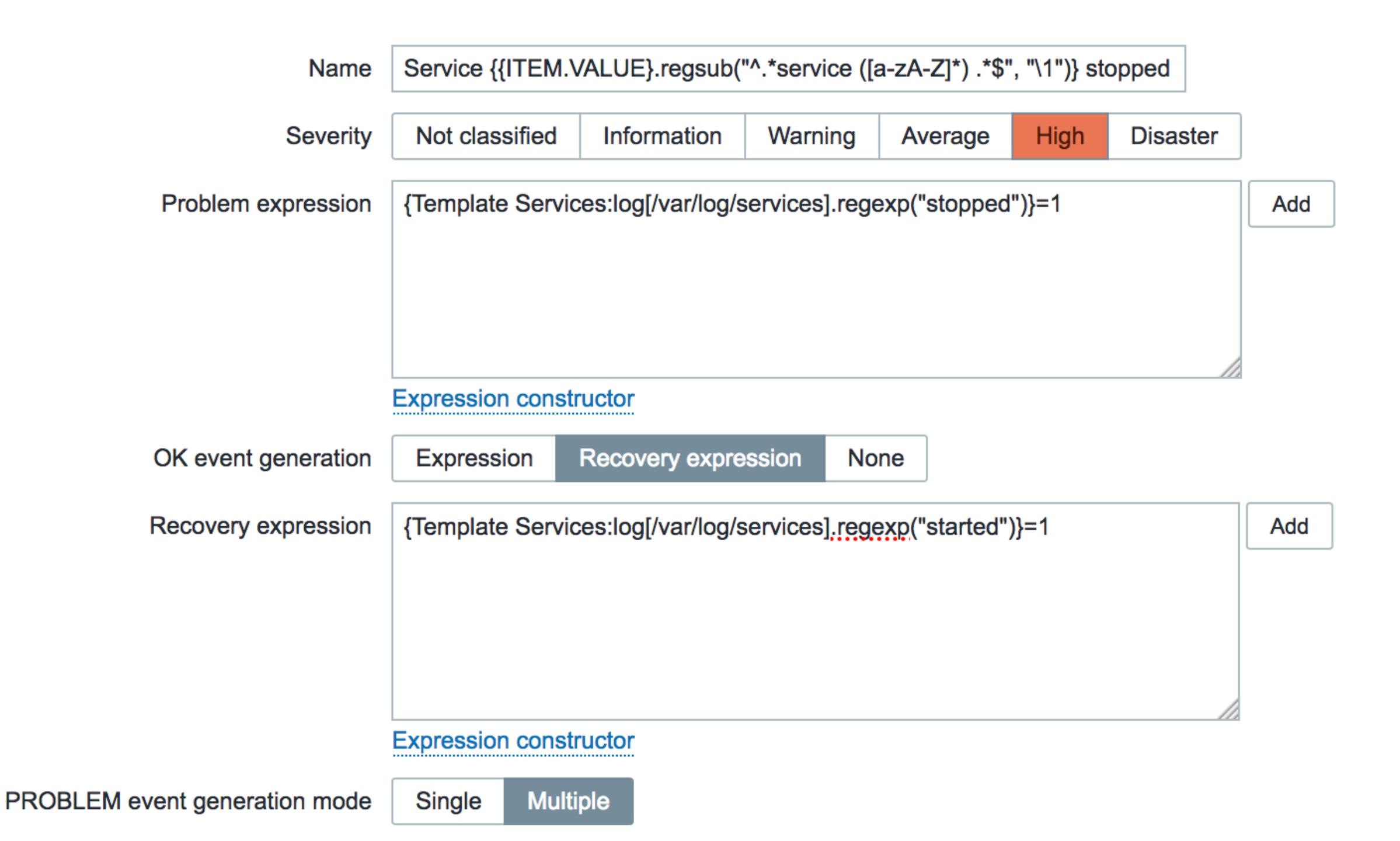
```
10/Aug/2016:06:25:30 service Jira stopped
10/Aug/2016:06:25:32 service MySQL stopped
10/Aug/2016:06:26:11 service MySQL started
10/Aug/2016:06:26:22 service Redis stopped
10/Aug/2016:06:26:58 service Redis started
10/Aug/2016:06:27:31 service Jira started
```

How many items and triggers we need to monitor state of each service and have independent notification?



Zabbix 3.2:

One item and one trigger to monitor all services!





PROBLEM event generation mode	Single Multiple	e		
OK event closes	All problems	All problems if tag values match		
Tag for matching	Service			
Tags	Datacenter	FR2		Remove
	Env	Staging		Remove
	Service	{{ITEM.VALUE}.regsu	ıb("^.*service ([a-zA-Z]*) .*\$", "\1")}	Remove
	Add			

Allow manual close <



10/Aug/2016:06:25:30 service **Jira** stopped

"Service Jira stopped"

PROBLEM



10/Aug/2016:06:25:30 service Jira stopped 10/Aug/2016:06:27:32 service **MySQL** stopped

"Service Jira stopped" PROBLEM
"Service MySQL stopped" PROBLEM



10/Aug/2016:06:25:30 service Jira stopped 10/Aug/2016:06:27:32 service MySQL stopped 10/Aug/2016:06:28:11 service **MySQL** started

"Service Jira stopped" PROBLEM
"Service MySQL stopped" RESOLVED



10/Aug/2016:06:25:30 service Jira stopped 10/Aug/2016:06:27:32 service MySQL stopped 10/Aug/2016:06:28:11 service MySQL started 10/Aug/2016:06:34:22 service **Redis** stopped "Service Jira stopped" PROBLEM "Service MySQL stopped" RESOLVED

"Service Redis stopped" PROBLEM



10/Aug/2016:06:25:30 service Jira stopped 10/Aug/2016:06:27:32 service MySQL stopped 10/Aug/2016:06:28:11 service MySQL started 10/Aug/2016:06:34:22 service Redis stopped 10/Aug/2016:06:37:58 service **Redis** started

"Service Jira stopped" PROBLEM "Service MySQL stopped" RESOLVED

"Service Redis stopped" RES

RESOLVED



10/Aug/2016:06:25:30 service Jira stopped 10/Aug/2016:06:27:32 service MySQL stopped 10/Aug/2016:06:28:11 service MySQL started 10/Aug/2016:06:34:22 service Redis stopped 10/Aug/2016:06:37:58 service Redis started 10/Aug/2016:06:55:31 service **Jira** started

"Service **Jira** stopped" **RESOLVED**"Service MySQL stopped" **RESOLVED**

"Service Redis stopped" RESOLVED



Tags give us ability to switch from hostto service-centric problem reporting and notifications



But it's not limited only to services!



Different dimensions

Service: Oracle

Service: {{ITEM.VALUE}.regsub('...', '\1 \2')}

Datacenter: NY2

Datacenter: {\$DATACENTER}

Area: Performance

Area: Availability

Area: Security

Environment: Staging

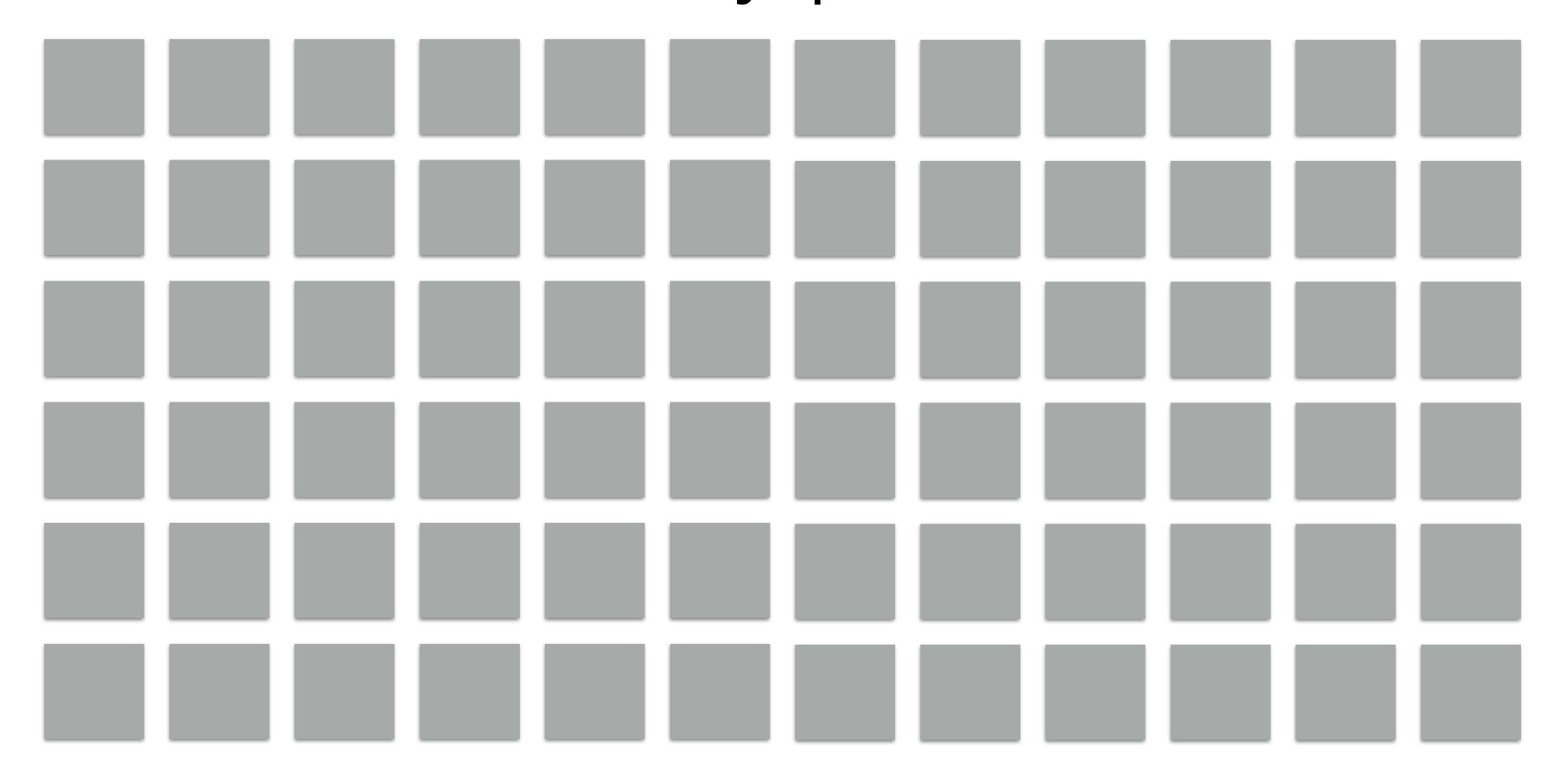
Environment: Test

User impact: None

User impact: Critical

So many problems

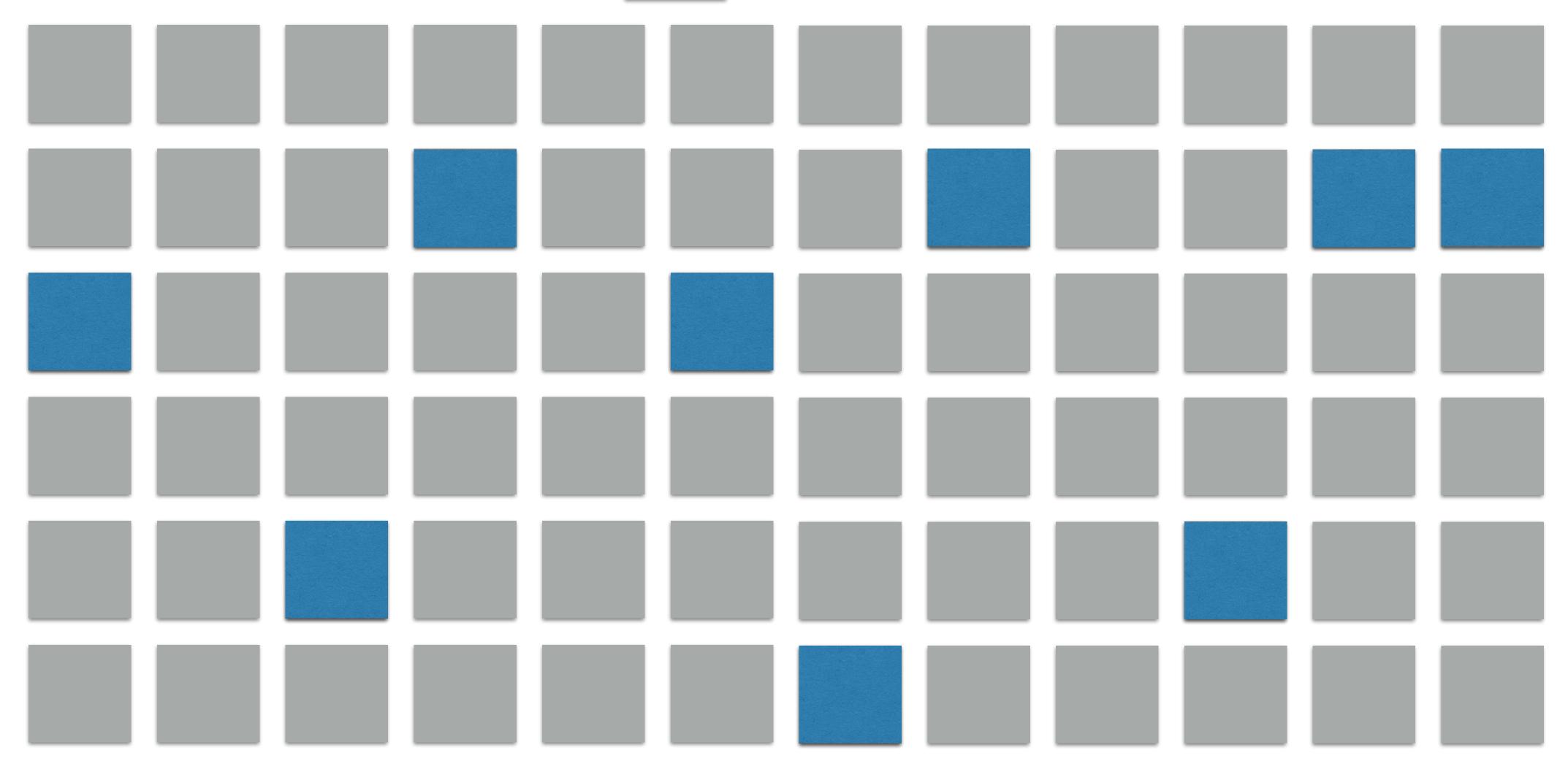








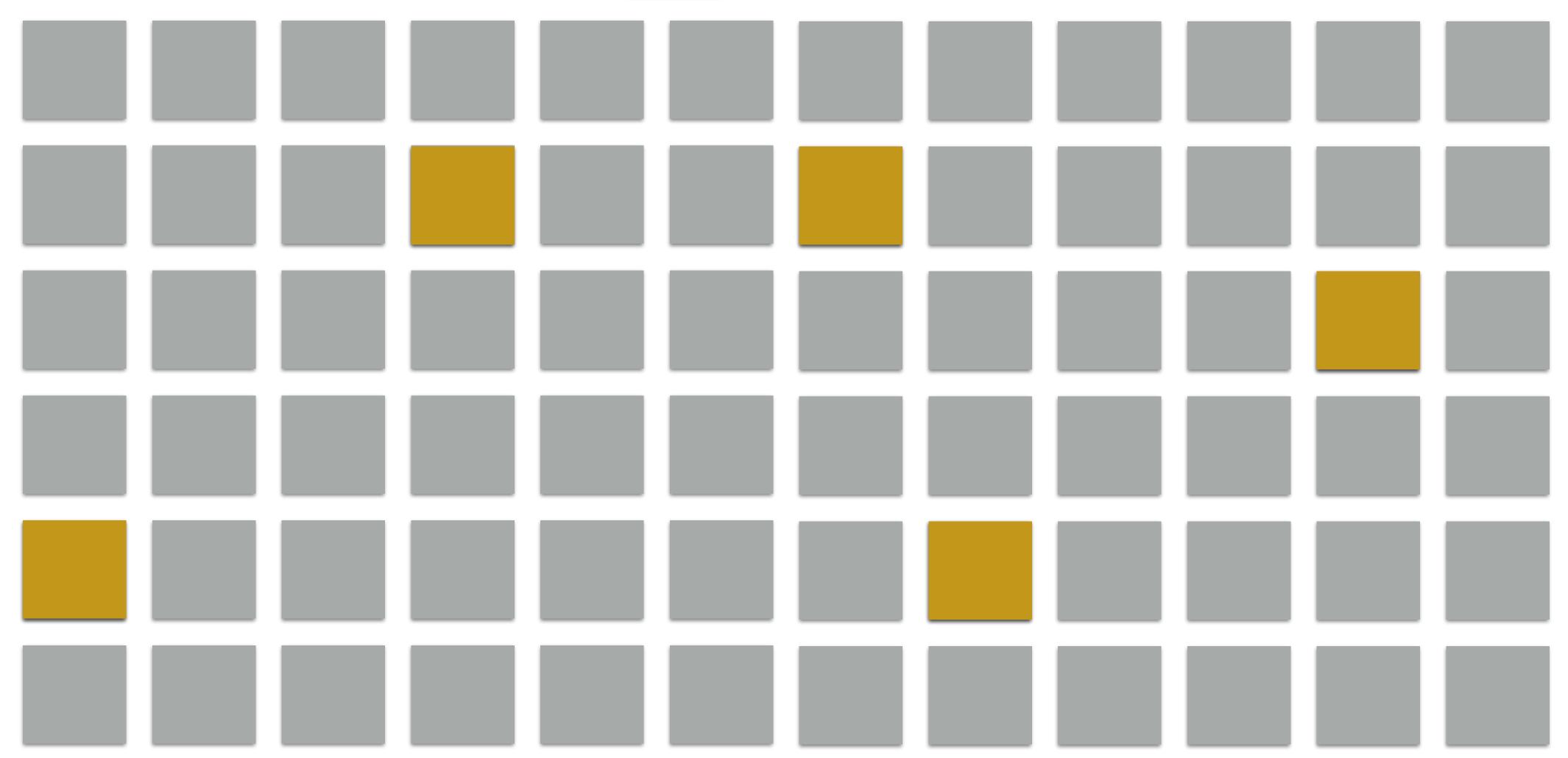
By environment: Production







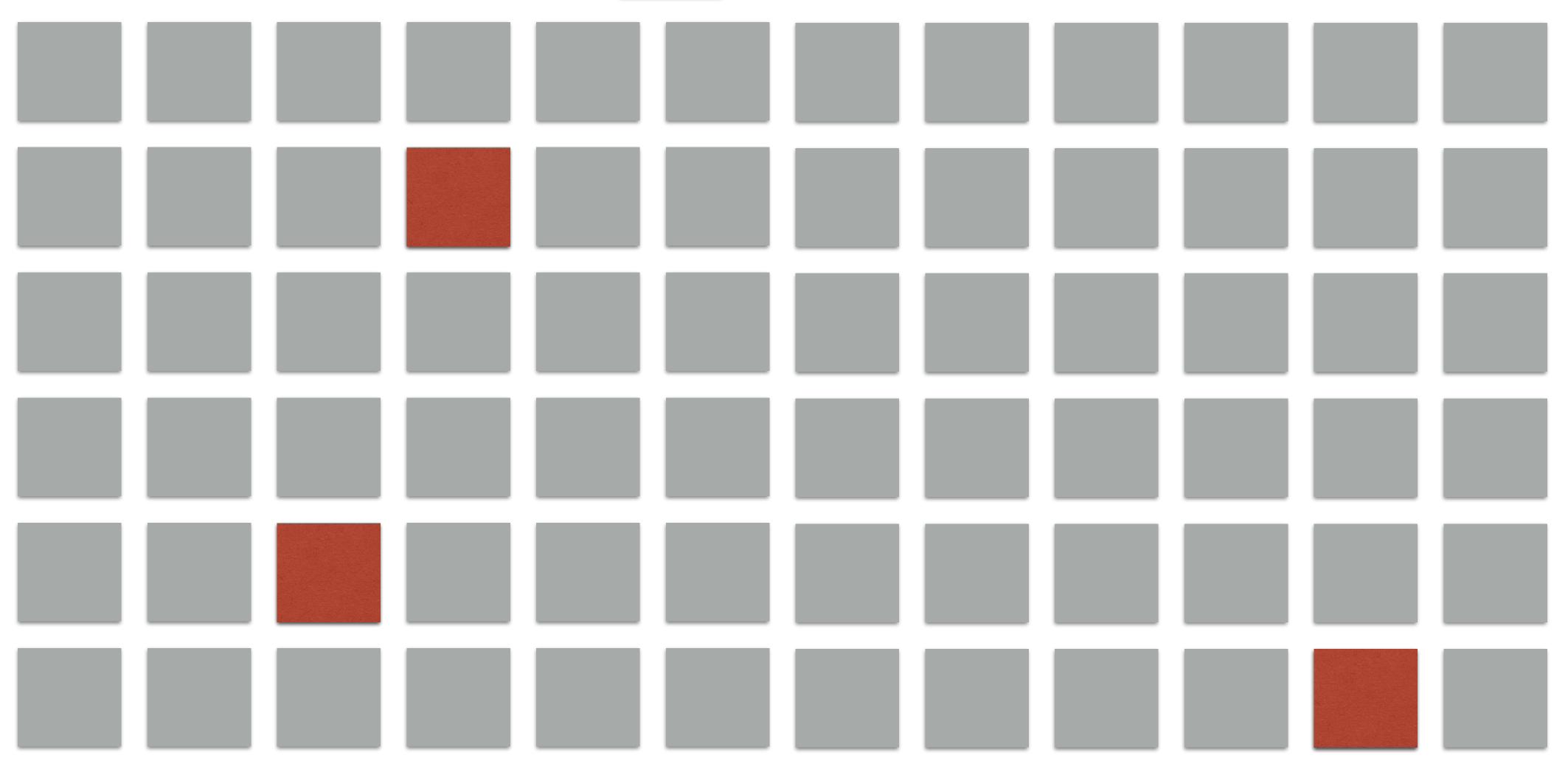
By datacenter: NY2







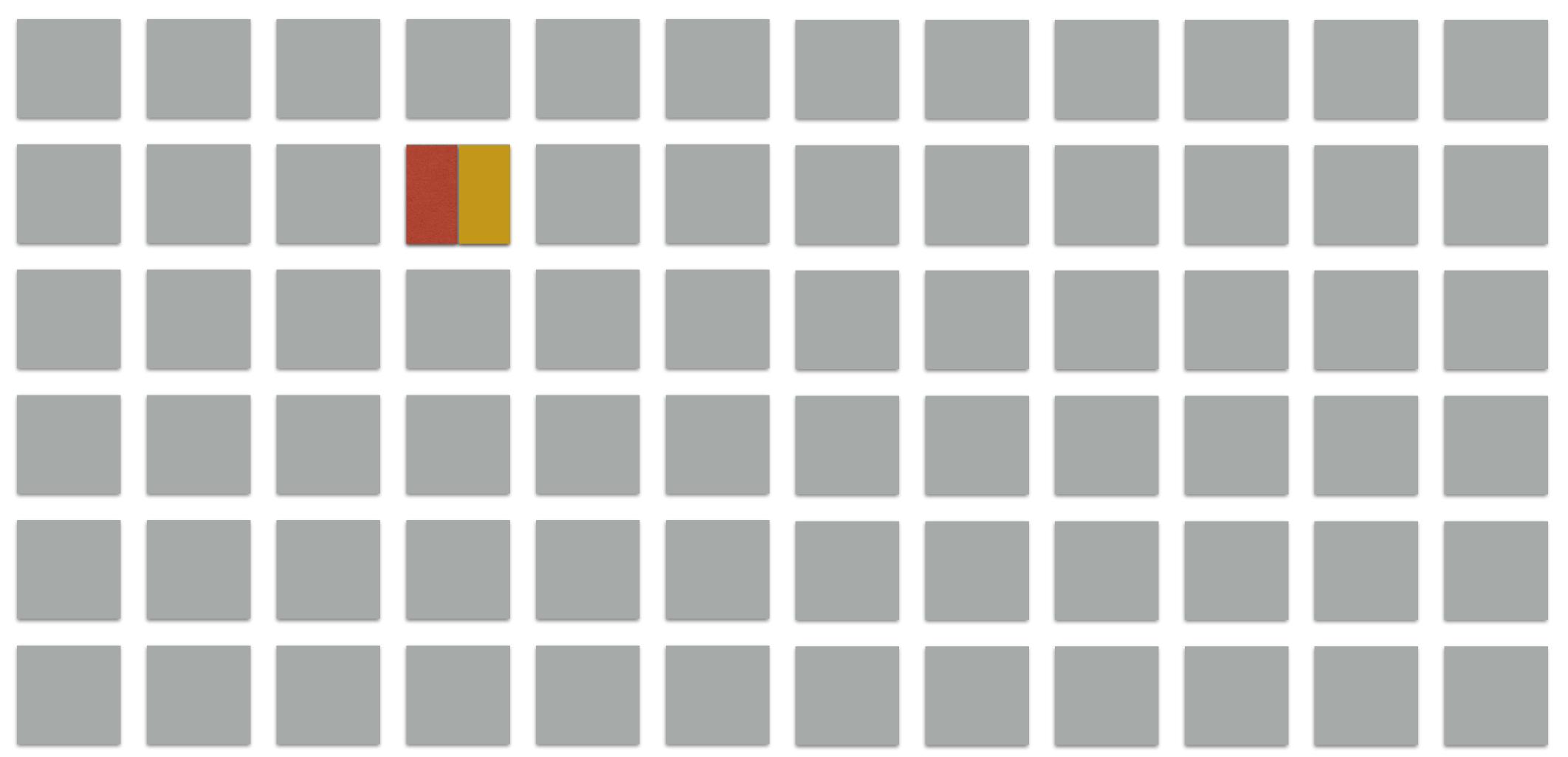
By impact: Critical





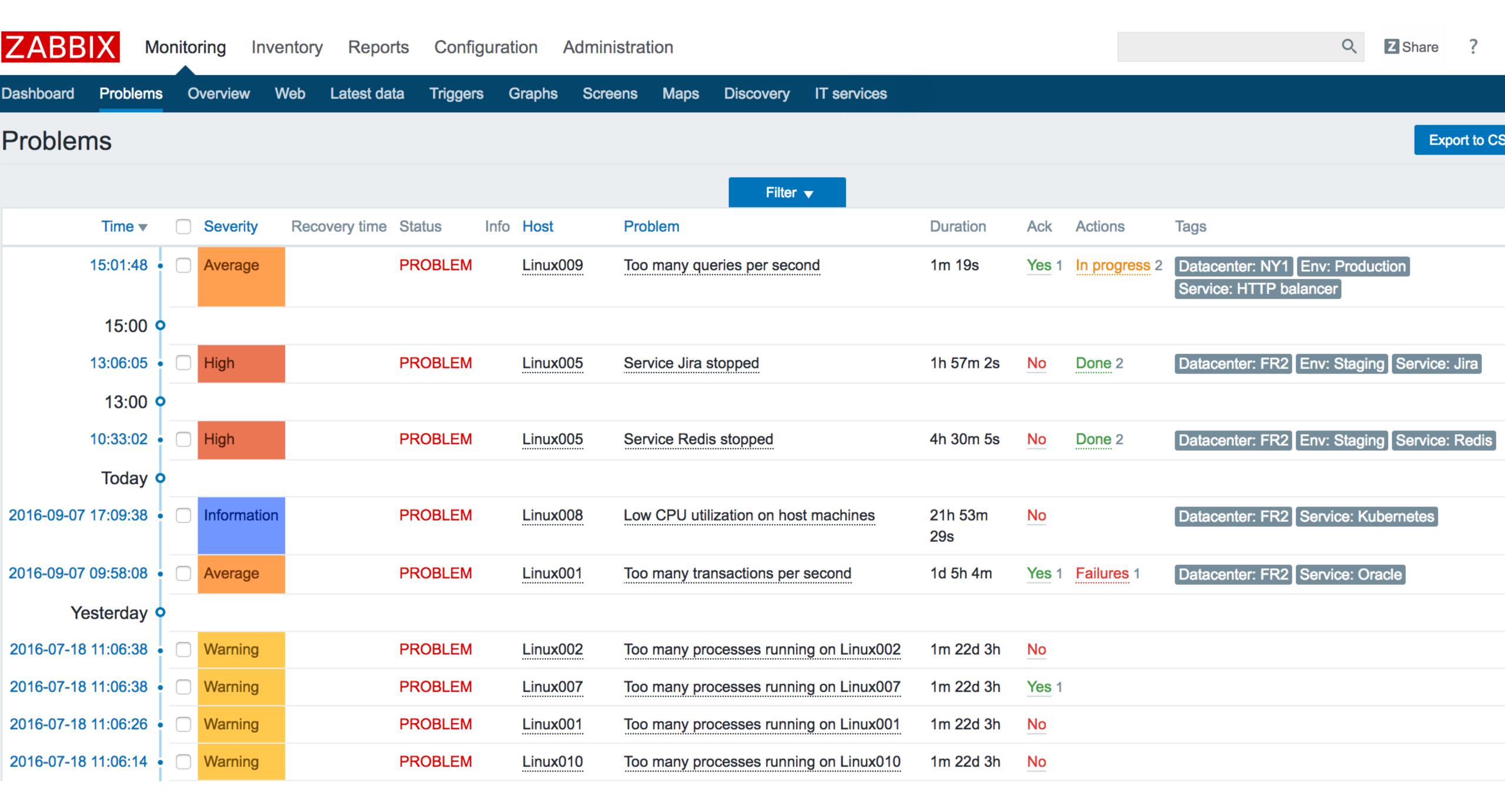


By impact: Critical AND in NY2



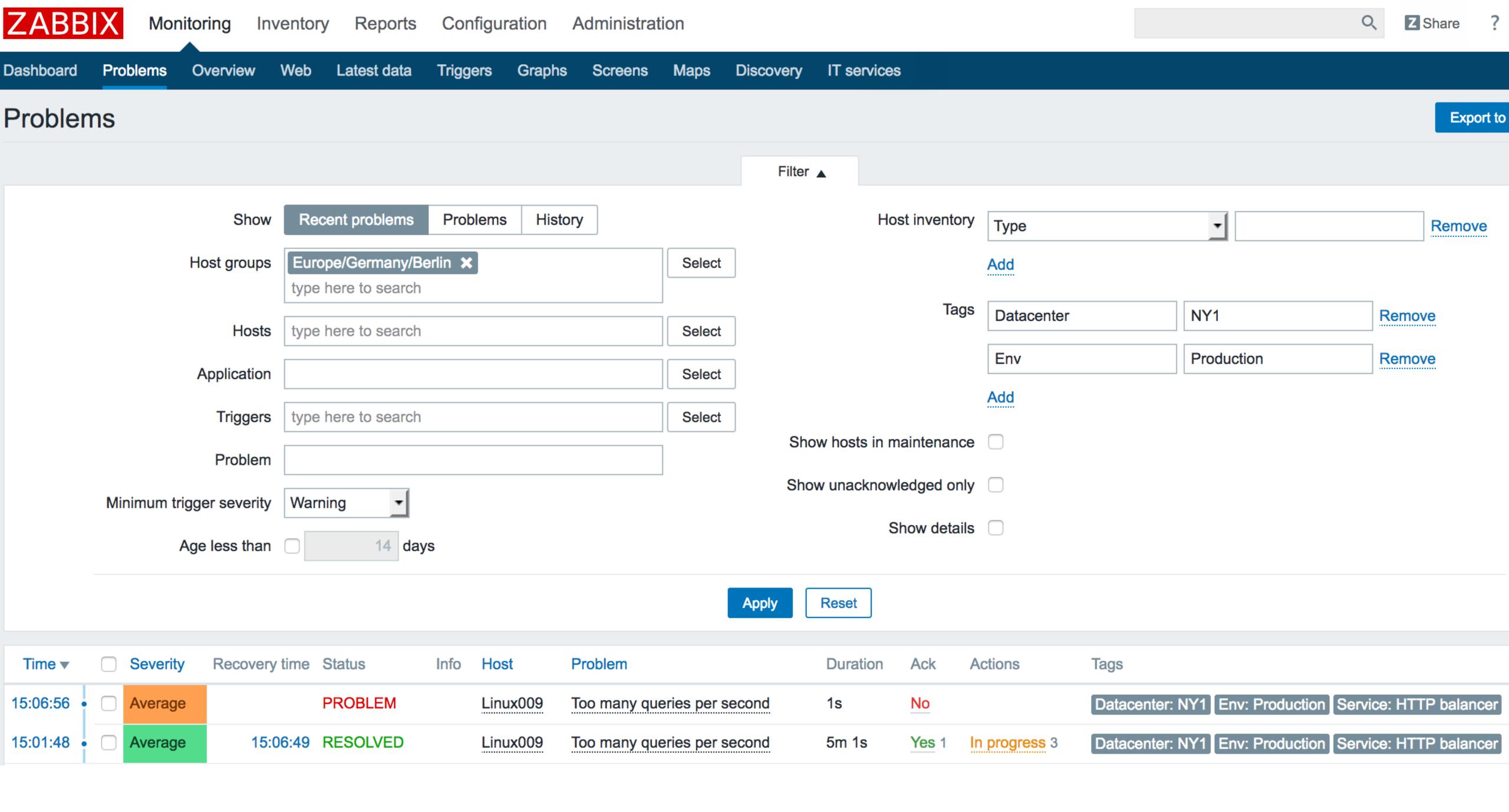


Problem view





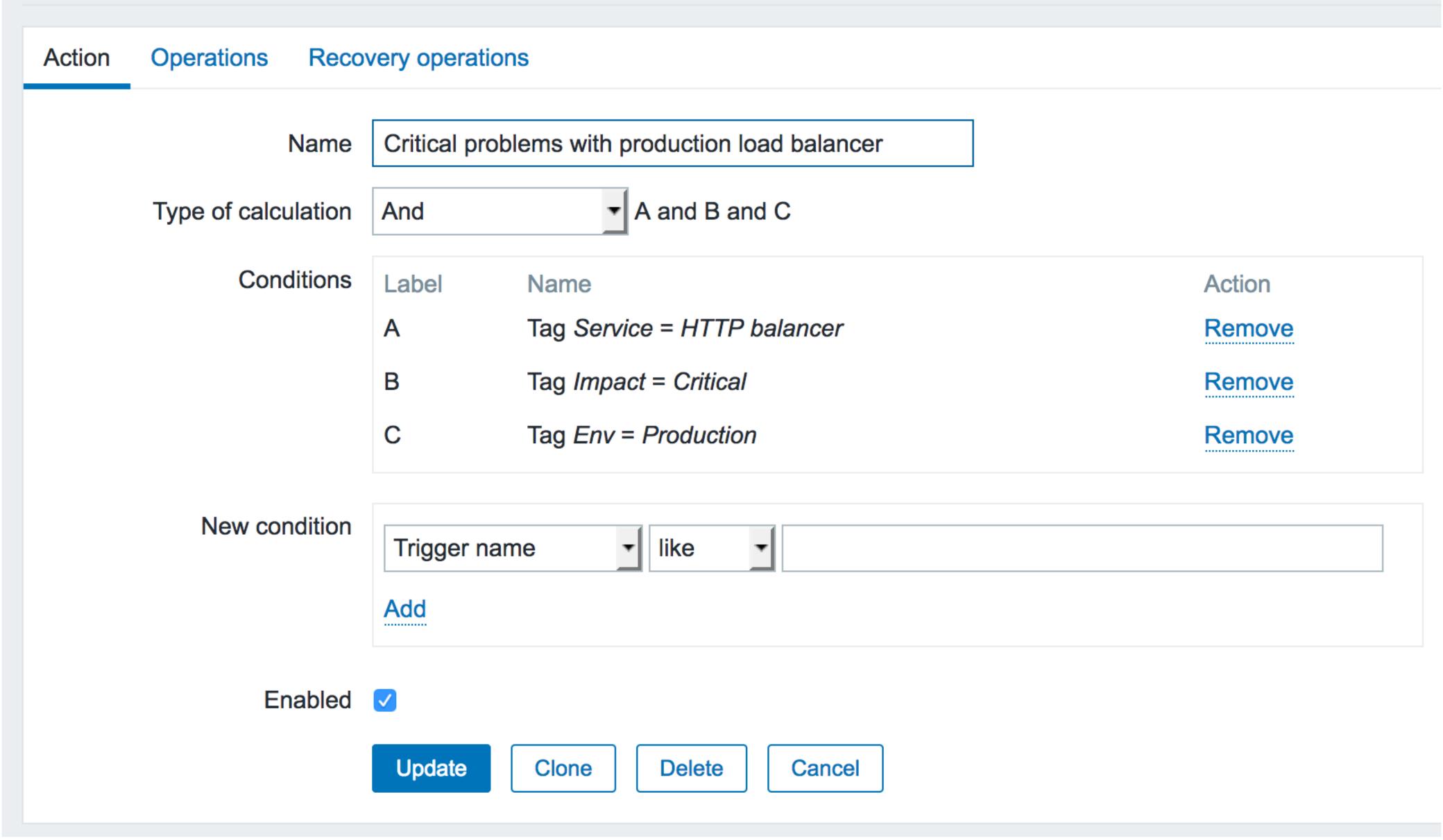
Filtering!





Notifications

Actions

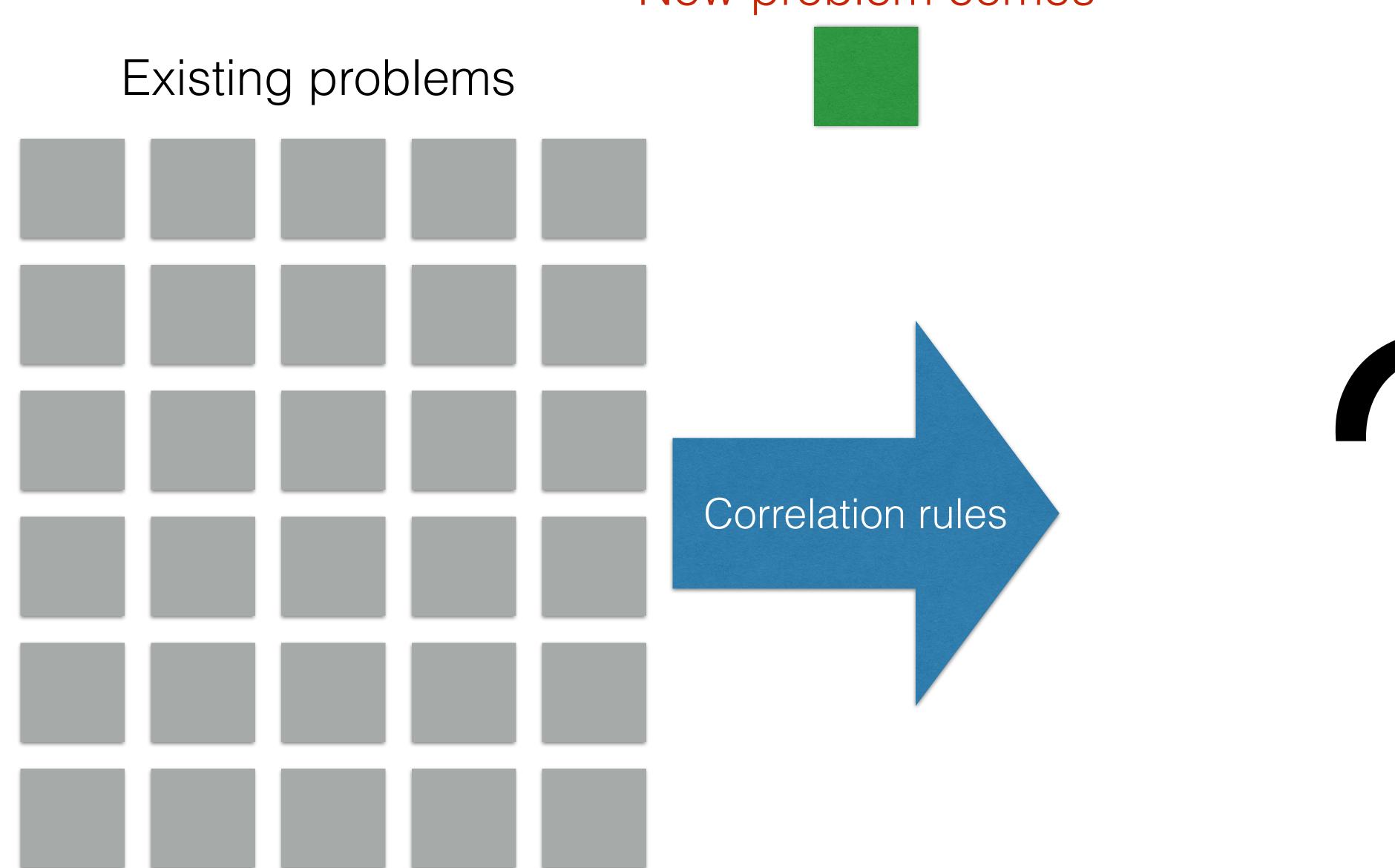




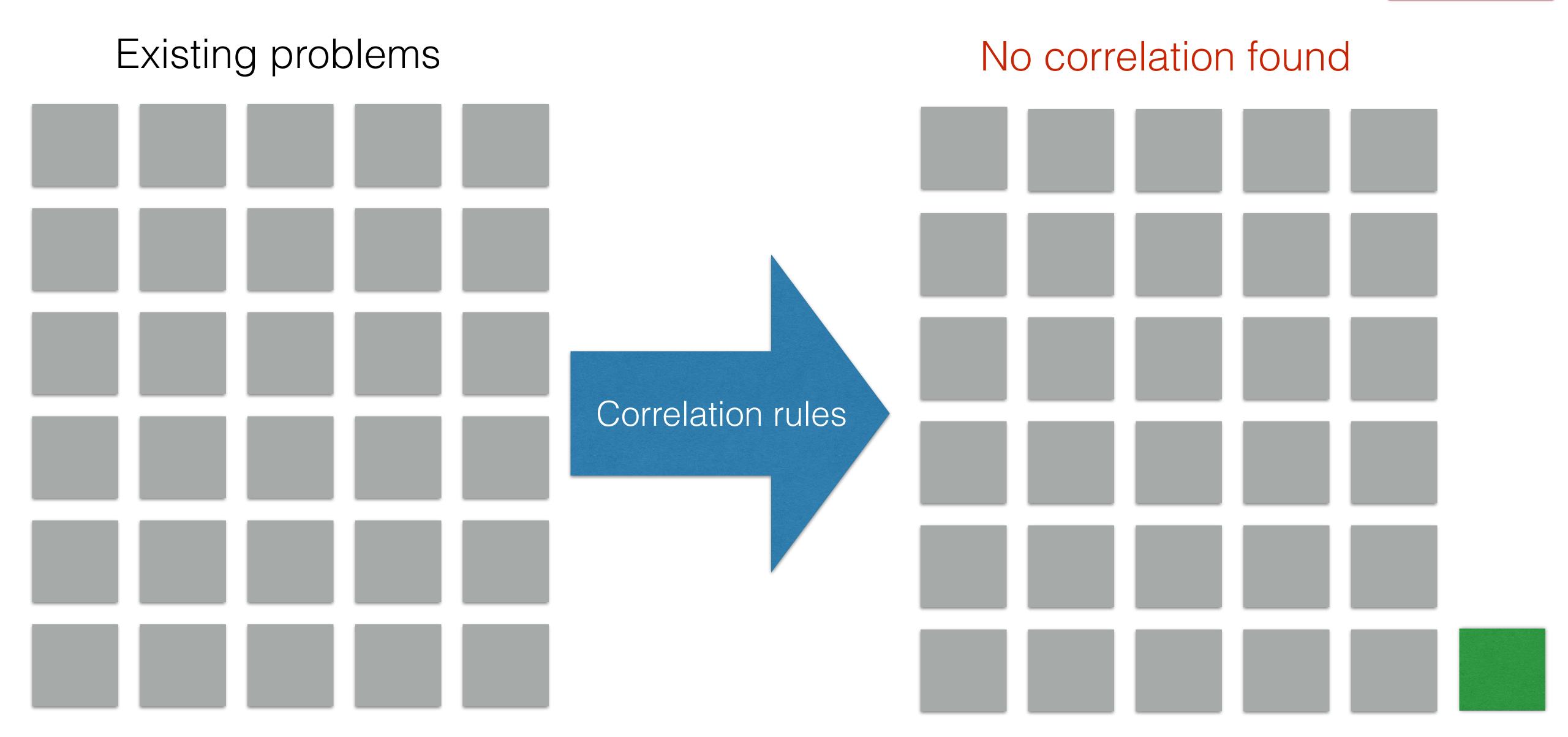
Global correlation

New problem comes

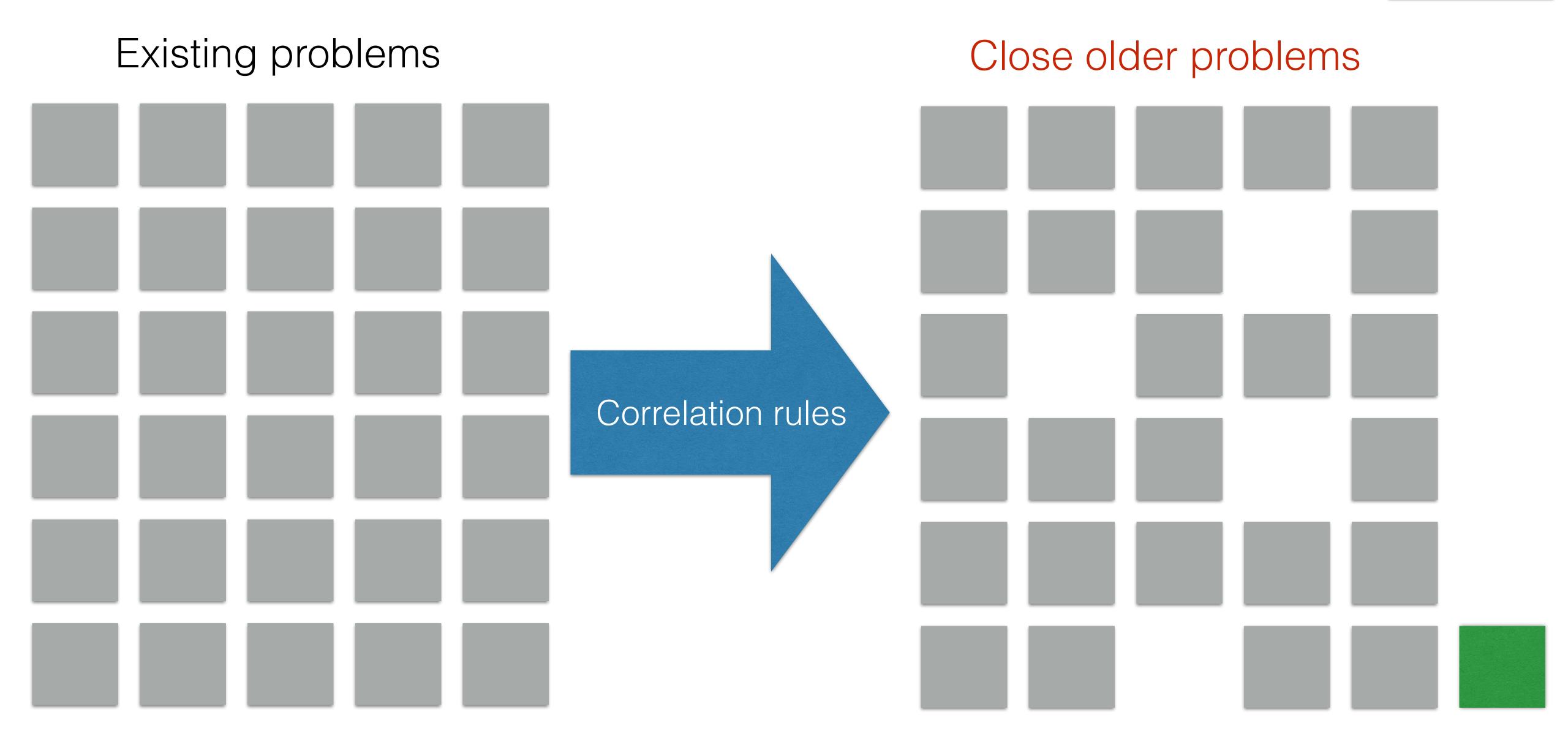




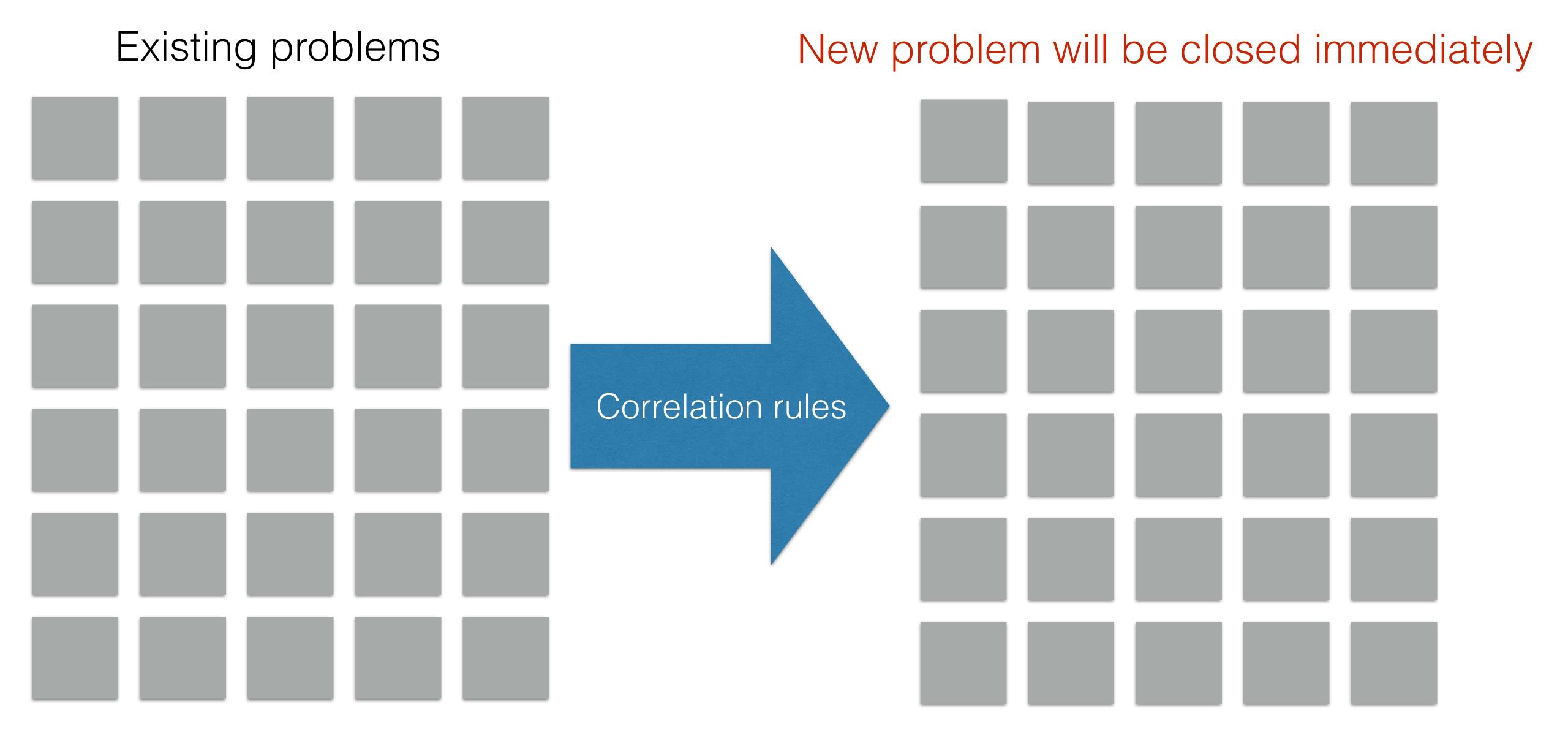




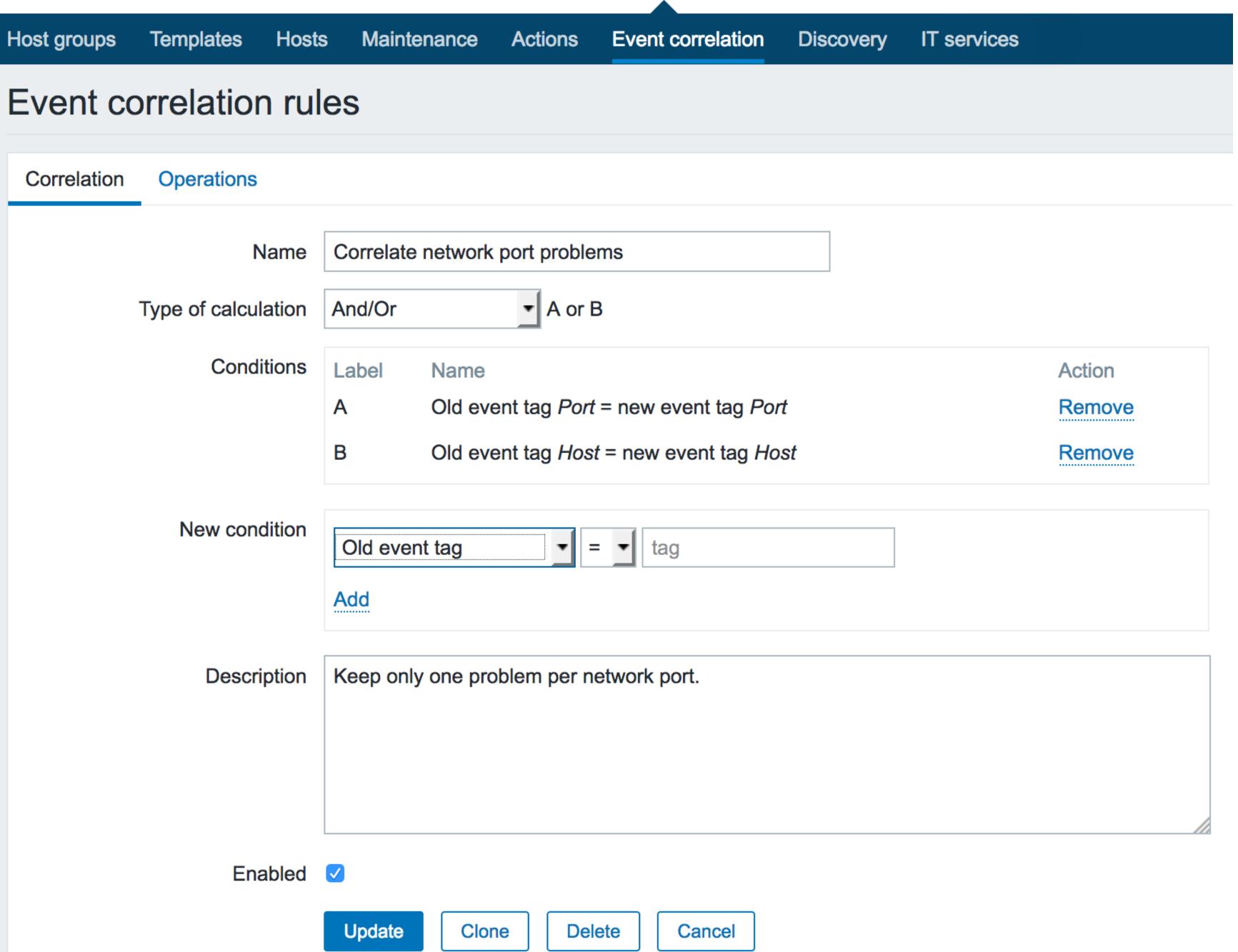




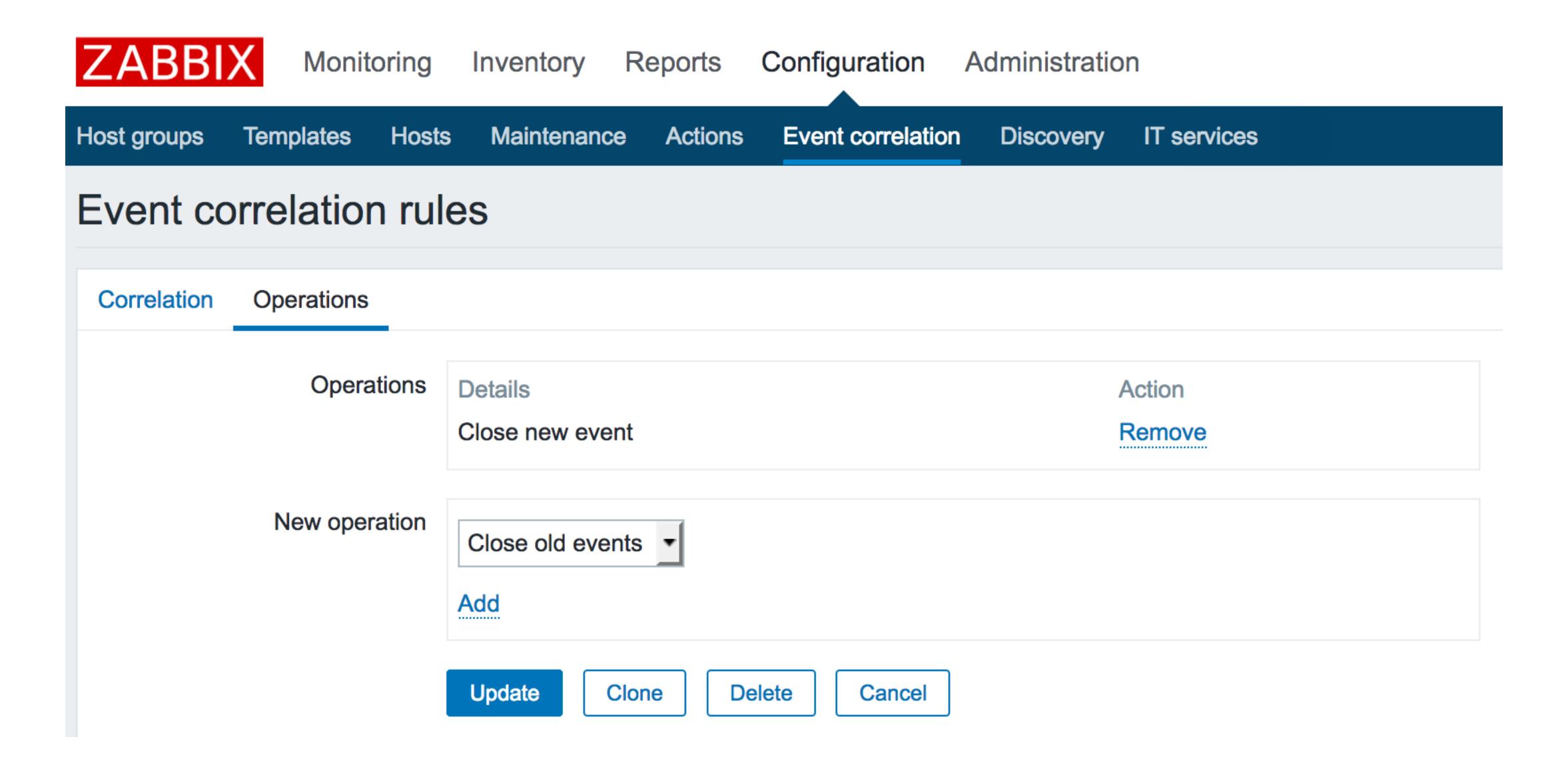














Problem tags and correlation is a solid foundation for further improvements



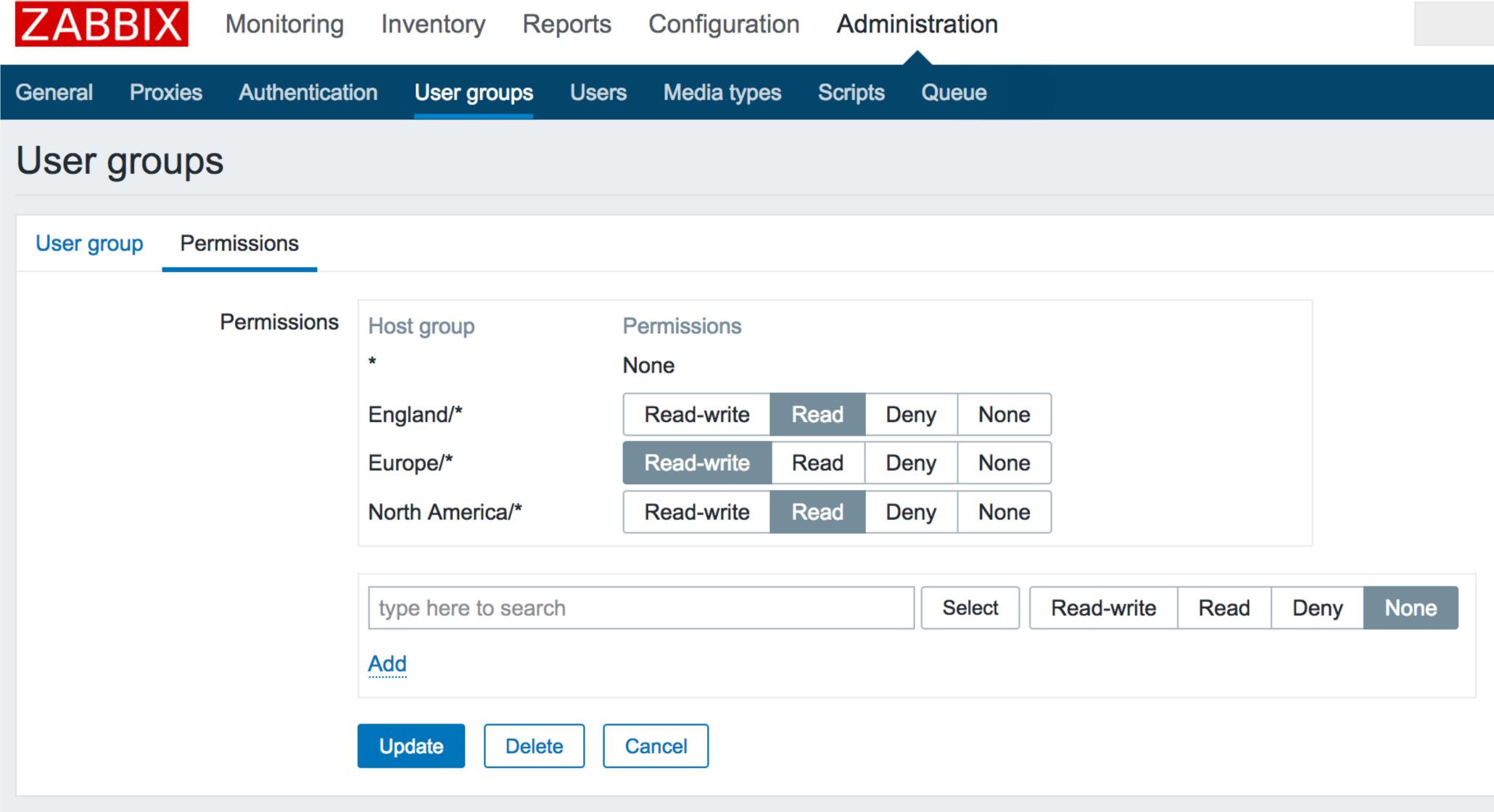
Nested host groups

Servers
Servers/Physical
Servers/VMs

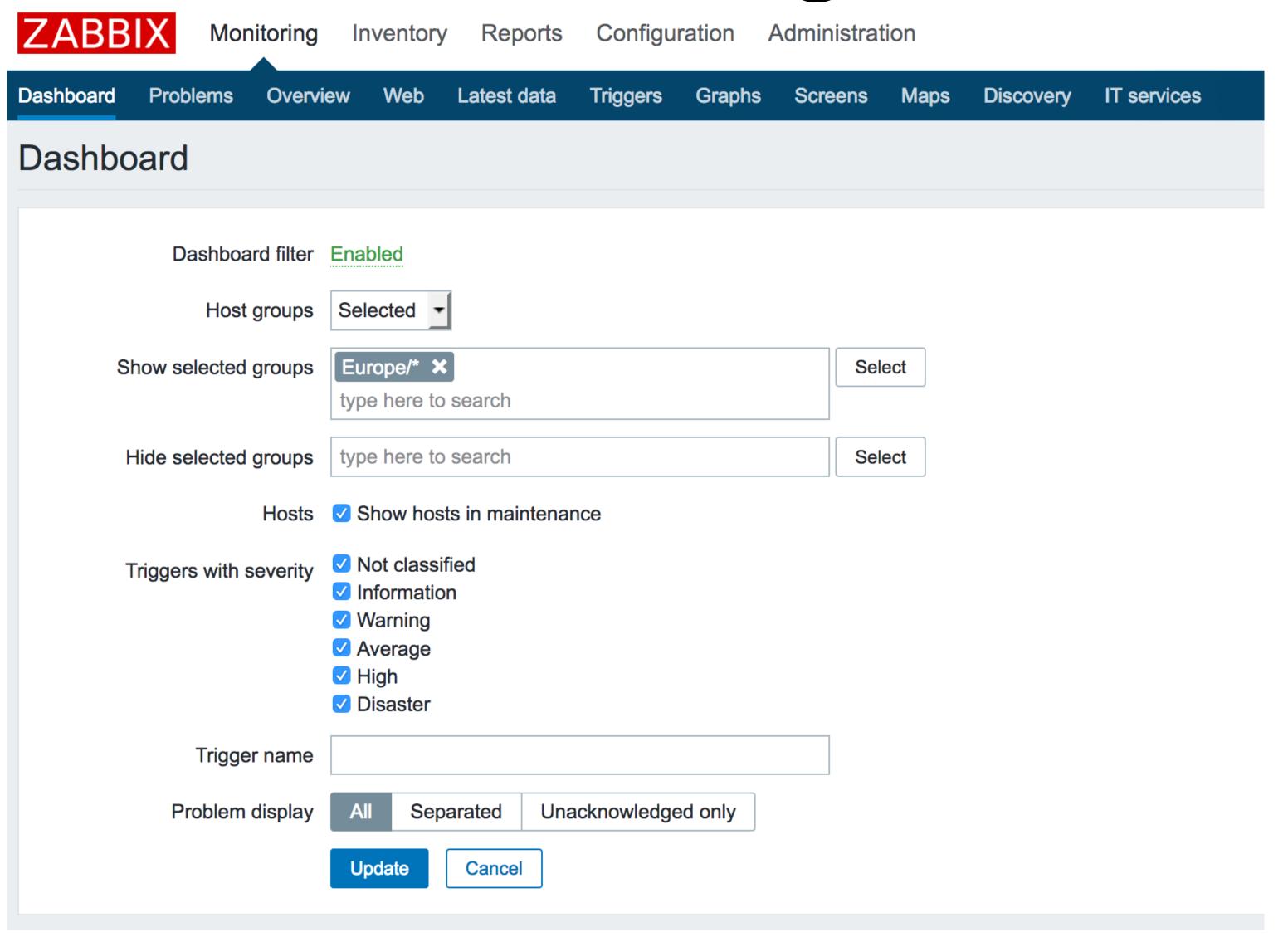
Location/Africa Location/Europe Location/Japan Location/North America

Templates
Templates/Official
Templates/SNMP
Templates/Services
Templates/Vendors
Templates/Vendors/HP

Redesigned permissions



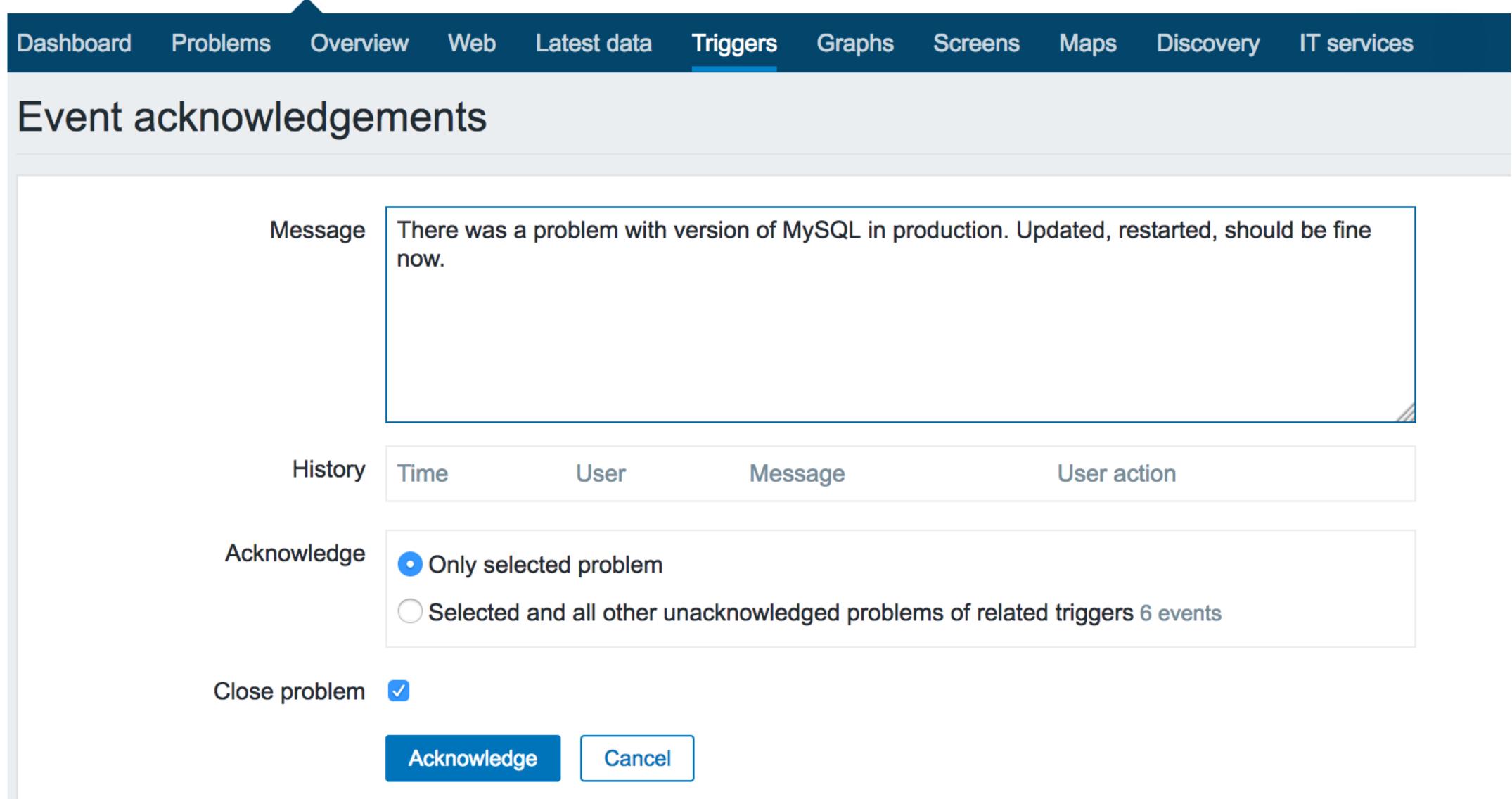
Filtering

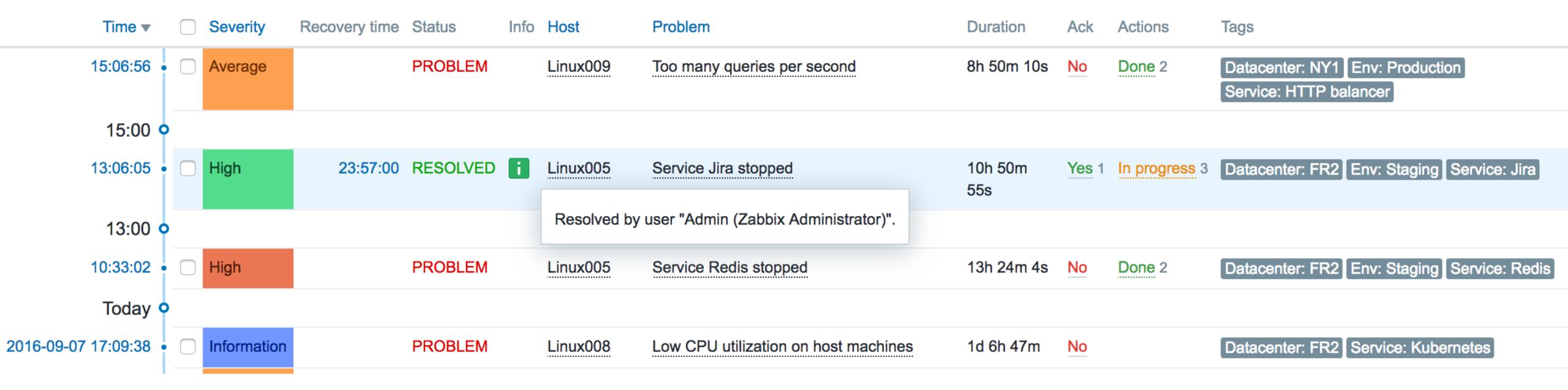




Manually close problems

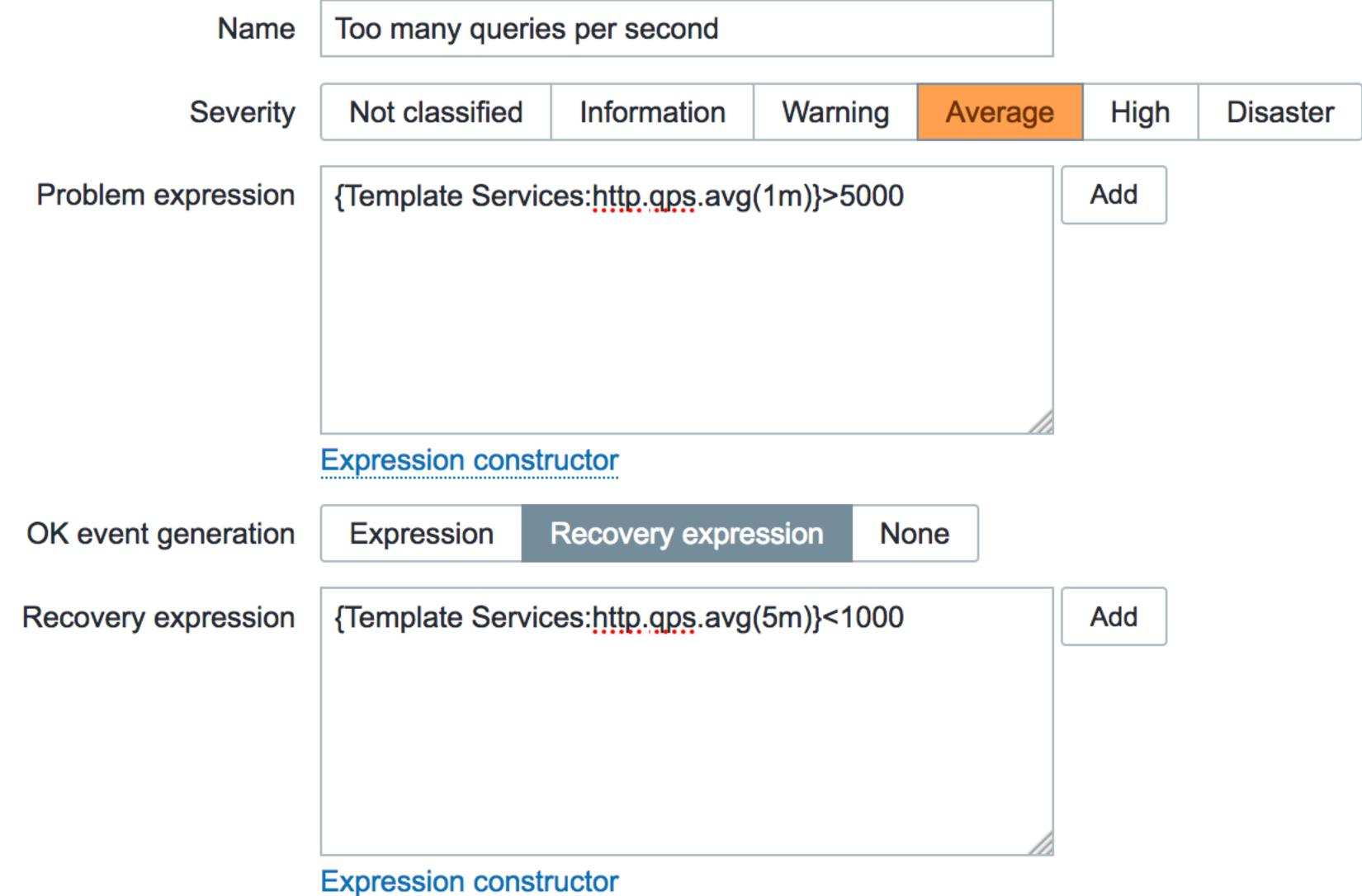








Trigger hysteresis? Easy!





Viewable items, triggers, graphs created by LLD

Items

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 / (percentage)	Triggers 1	vfs.fs.size[/,pfree]	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 inodes on / (percentage)	Triggers 1	vfs.fs.inode[/,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

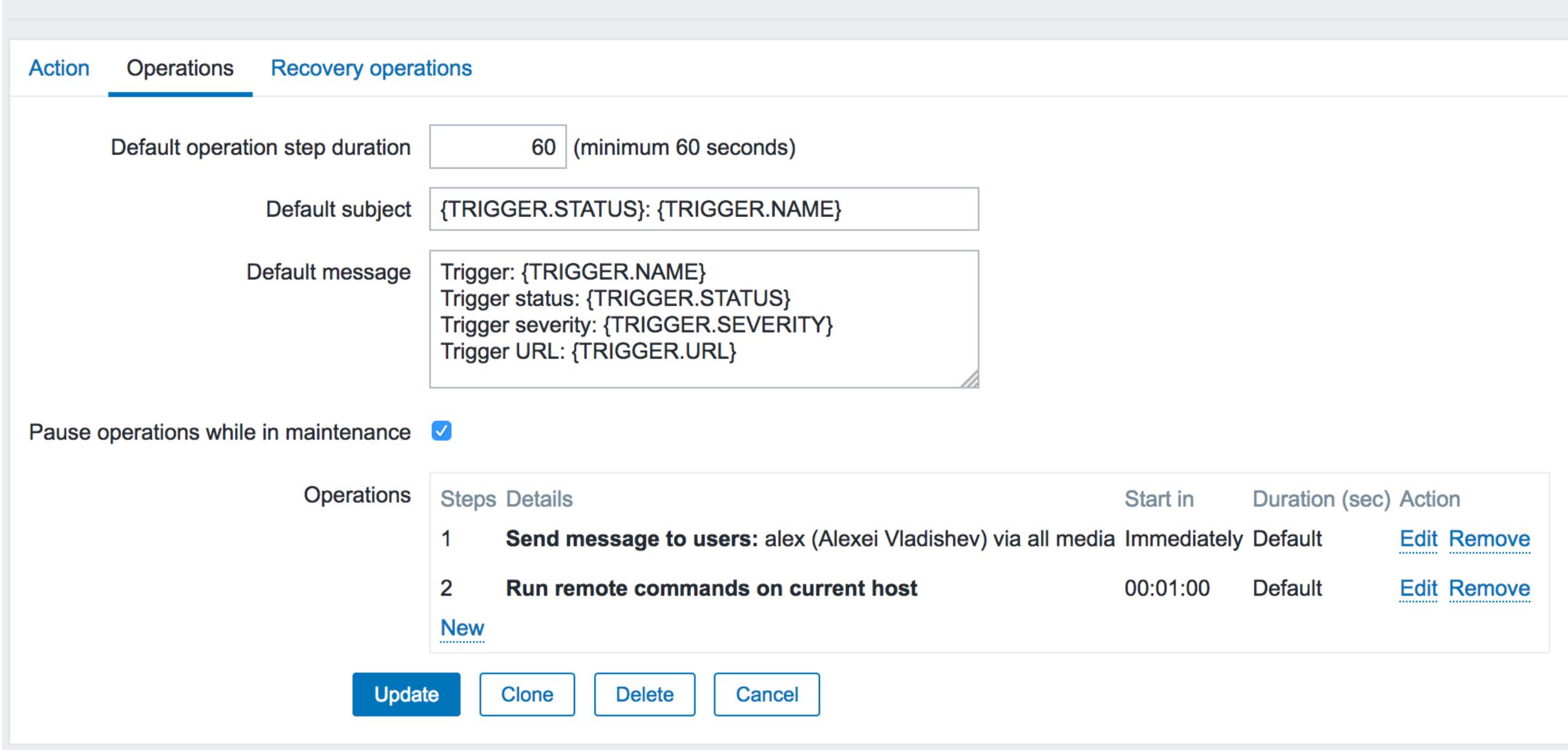
Triggers

Warning	Mounted filesystem discovery: Free disk space is less than 20% on volume /	{Linux001:vfs.fs.size[/,pfree].last(0)}<20	Enabled
Warning	Mounted filesystem discovery: Free disk space is less than 20% on volume /boot	{Linux001:vfs.fs.size[/boot,pfree].last(0)}<20	Enabled
Warning	Mounted filesystem discovery: Free inodes is less than 20% on volume /	{Linux001:vfs.fs.inode[/,pfree].last(0)}<20	Enabled
Warning	Mounted filesystem discovery: Free inodes is less than 20% on volume /boot	{Linux001:vfs.fs.inode[/boot,pfree].last(0)}<20	Enabled



Better actions and escalations

Actions



Actions Recovery operations Operations **Action** {TRIGGER.STATUS}: {TRIGGER.NAME} Default subject Trigger: {TRIGGER.NAME} Default message Trigger status: {TRIGGER.STATUS} Trigger severity: {TRIGGER.SEVERITY} Trigger URL: {TRIGGER.URL} Item values: Operations **Details** Action Send message to users: alex (Alexei Vladishev) via all media Edit Remove New Update Clone Delete Cancel



Also...

Web scenario export/import
Function evaluation for NOTSUPPORTED items
Coping with fast-growing log files
Support of regex in count ()
and much more!



For detailed list of new features see Documentation of Zabbix 3.2



Zabbix 3.2 is a result of active cooperation with our partners and customers.

Special thanks to S&T Slovakia s.r.o.





How to upgrade?



Nothing special, except ...

Some history tables are affected: history_log, history_text

It may take time to execute depending on size of log and text data stored in the database



Where is Zabbix 3.2?



Zabbix 3.2.0 is expected to be released very soon



Enjoy the conference!

Thanks for your support





