

Welcome to Zabbix
Conference 2015!

Who am I?

Alexei Vladishev

Creator of Zabbix

CEO, Architect and Product Manager

Twitter: [@avladishev](https://twitter.com/avladishev)



Our sponsors



Conference stats

183 participants

from 28 countries

Top five countries

1. ?
2. Germany, Netherlands **12**
3. France, Norway **9**
4. Italy, Lithuania, Russia **7**
5. Japan, UK **5**

* excluding Latvia

Top five countries

1. Estonia **14**
2. Germany, Netherlands **12**
3. France, Norway **9**
4. Italy, Lithuania, Russia **7**
5. Japan, UK **5**

* excluding Latvia



What's happened in 2015

More than 100
partners

Expansion to the USA

Europe: Riga

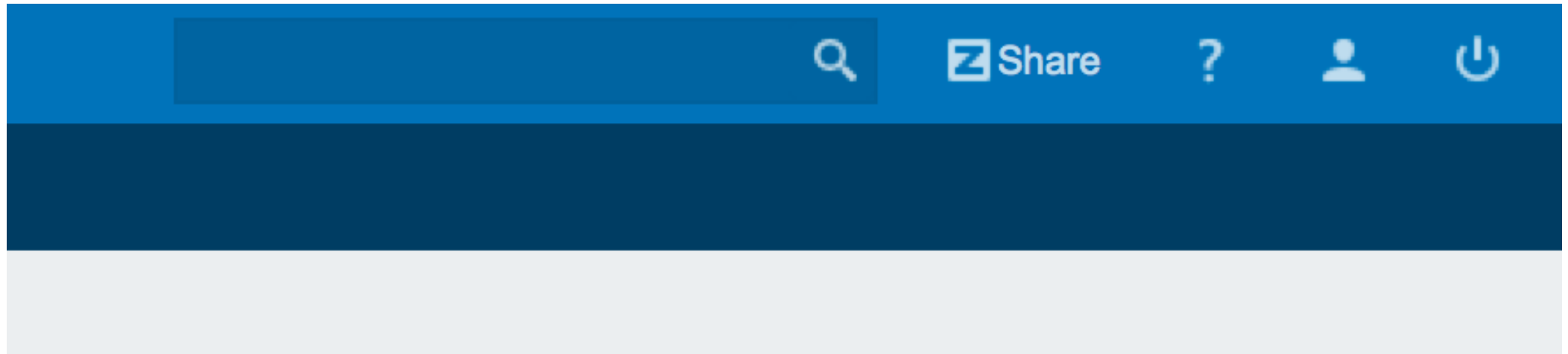
Japan: Tokyo

USA: New York City



Zabbix technology evangelist:
Vladimir Ulogov

share.zabbix.com



Share everything!

- Templates
- Modules
- HOWTOs

How does it work?

Choose social to login: ×

1. Login



2. Create description of your listing

3. Upload screenshots, template or add a link to external resource (GitHub)

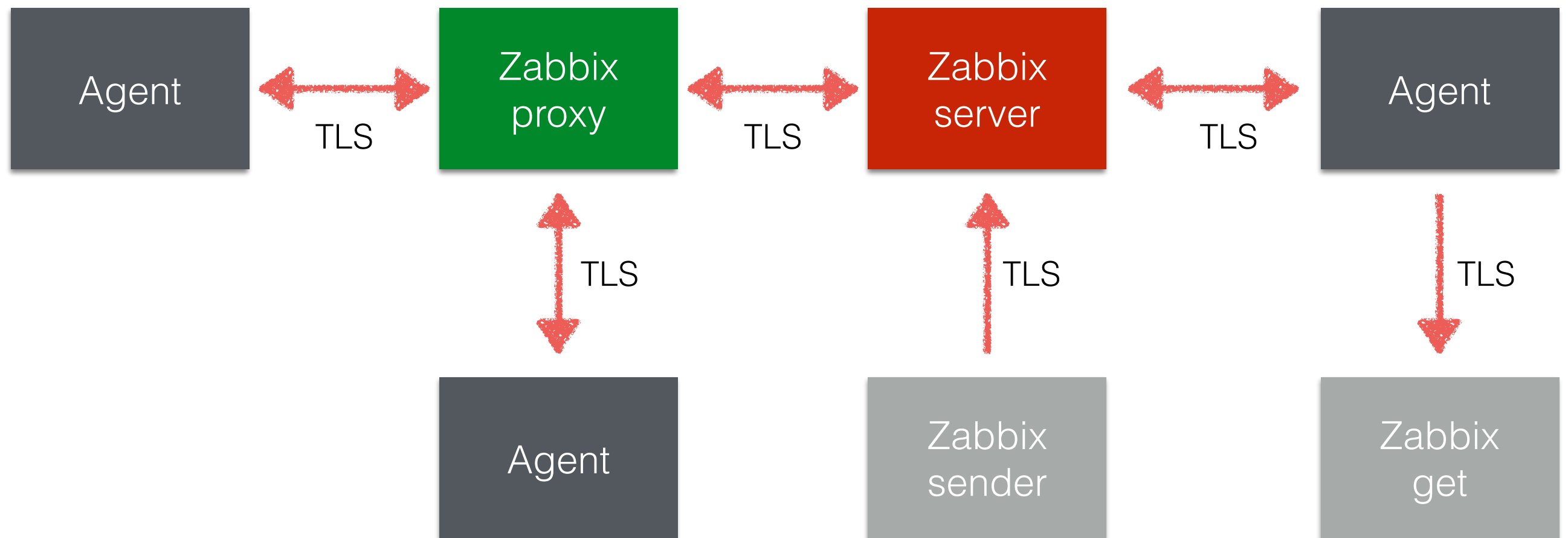
4. Done!

3 new features of Zabbix 3.0

Encryption and authentication

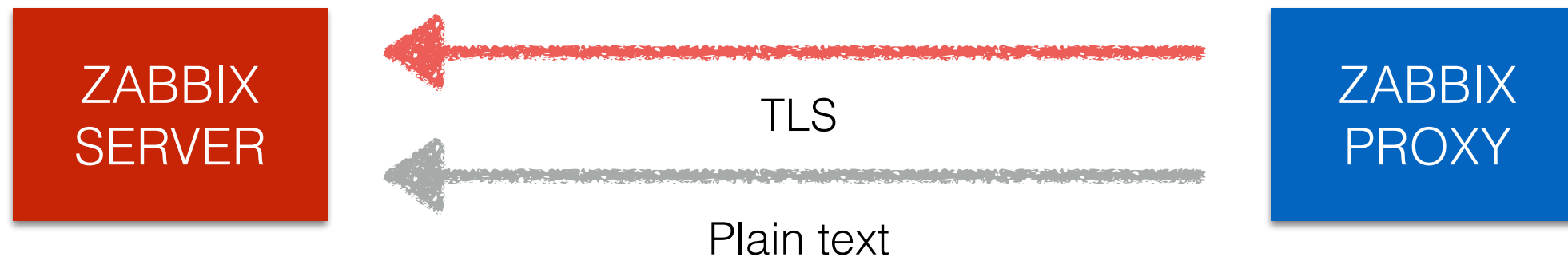
Encryption and authentication

Strong encryption and authentication for all components based on **TLS v1.2**



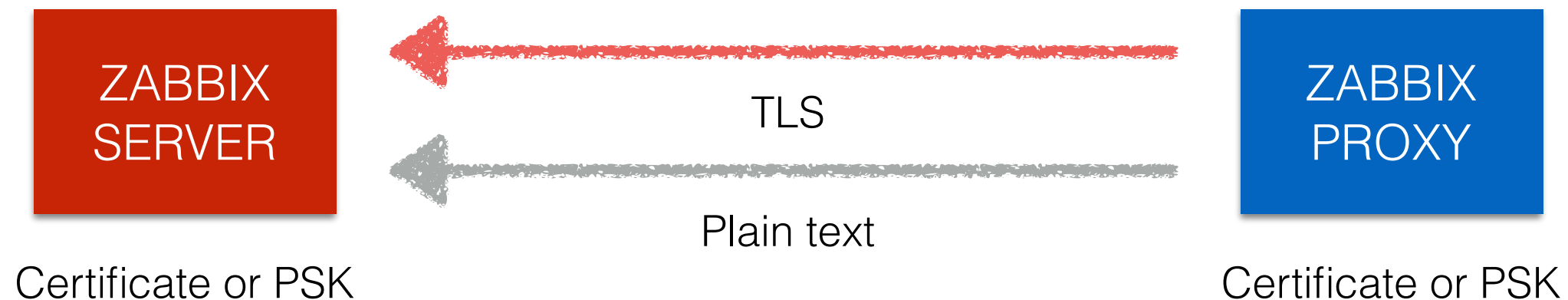
Easy upgrade to better security

Step 1 Enable end-point to accept both encrypted and plain text communications



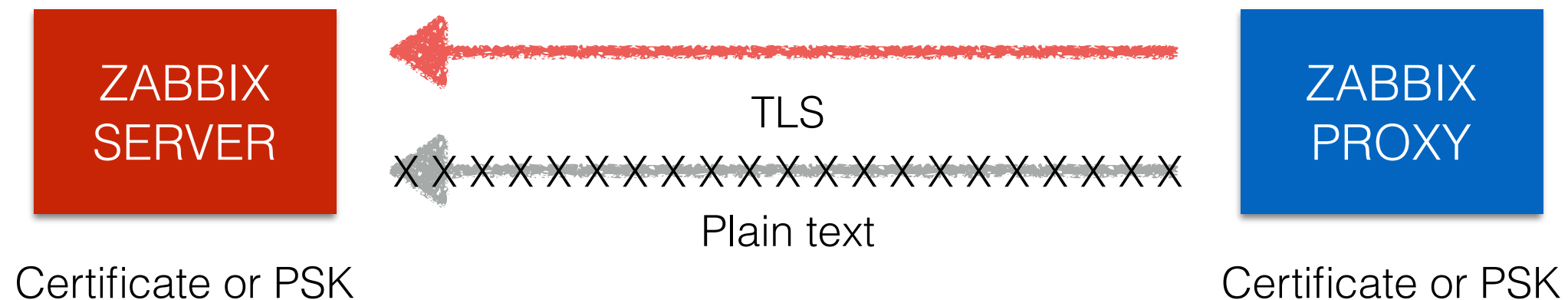
Easy upgrade to better security

Step 2 Configure certificate or PSK based encryption and authentication



Easy upgrade to better security

Step 3 Verify that TLS works and reject plain text connections



More on new features
today from Rihard & Pavel

Interface

Have a look at older versions

Zabbix 1.8

ZABBIX

[Monitoring](#)
[Inventory](#)
[Reports](#)
[Configuration](#)
[Administration](#)

[Dashboard](#)
[Overview](#)
[Web](#)
[Latest data](#)
[Triggers](#)
[Events](#)
[Graphs](#)
[Screens](#)
[Maps](#)
[Discovery](#)
[IT services](#)

[History](#)
[トリガーの設定](#)
[ダッシュボード](#)
[ユーザープロフィール](#)
[Dashboard](#)
[Overview](#)

Help

Get support

Print

Profile

Logout

Search

PERSONAL DASHBOARD

Status of Zabbix

Parameter	Value	Details
Zabbix server is running	Yes	localhost:10051
Number of hosts (monitored/not monitored/templates)	85	47 / 0 / 38
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Number of triggers (enabled/disabled) [problem/ok]	291	291 / 0 [10 / 281]
Number of users (online)	2	1
Required server performance, new values per second	7.7	-

Updated: 02:45:41 AM

Favorite graphs

[vSphere 001: CPU utilization](#)

[vSphere 002: CPU utilization](#)

[vSphere 003: CPU utilization](#)

Graphs »

Favorite screens

[Zabbix server performance](#)

[JBoss performance](#)

[Oracle RAC](#)

[Network map](#)

Screens »

Favorite maps

[Network devices](#)

[VMWare production](#)

Maps »

System status

Host group	Disaster	High	Average	Warning	Information	Not classified
Business System	0	0	0	0	0	0
Clouds	0	0	0	0	0	0
Database servers	0	0	0	0	0	0
JBoss instances	0	0	0	3	0	0
Network Devices	0	0	0	0	0	0
Private Cloud	0	0	0	5	0	0
Web servers	0	0	0	0	0	0
Zabbix servers	0	0	0	2	0	0

Updated: 02:45:41 AM

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Last 20 issues

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Zabbix server	Lack of free swap space on Zabbix server	Nov 12th, 2013 11:48:30 AM	1m 27d 14h		No	

10 of 10 issues are shown

Updated: 02:45:41 AM

Scripts

[Detect operating system](#)
[Ping](#)
[Traceroute](#)

Go to

[Latest data](#)
[Host inventory](#)
[Host screens](#)

Zabbix 2.0

ZABBIXHelp | Get support | Print | Profile | Logout

Monitoring | Inventory | Reports | Configuration | Administration

Dashboard | Overview | Web | Latest data | Triggers | Events | Graphs | Screens | Maps | Discovery | IT services

History: トリガーの設定 » ダッシュボード » ユーザープロフィール » Dashboard » Overview

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Updated: 02:45:41 AM

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Updated: 02:45:41 AM

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Maps »

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Go to

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- Host inventory
- Host screens

Zabbix 2.2

ZABBIXHelp | Get support | Print | Profile | Logout

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Graphs »

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Zabbix 2.4

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Updated: 02:45:41 AM

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- [vSphere 003: CPU utilization](#)

Graphs »

Favorite screens

- [Zabbix server performance](#)
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Screens »

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Maps »

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10 of 10 issues are shown

Updated: 02:45:41 AM

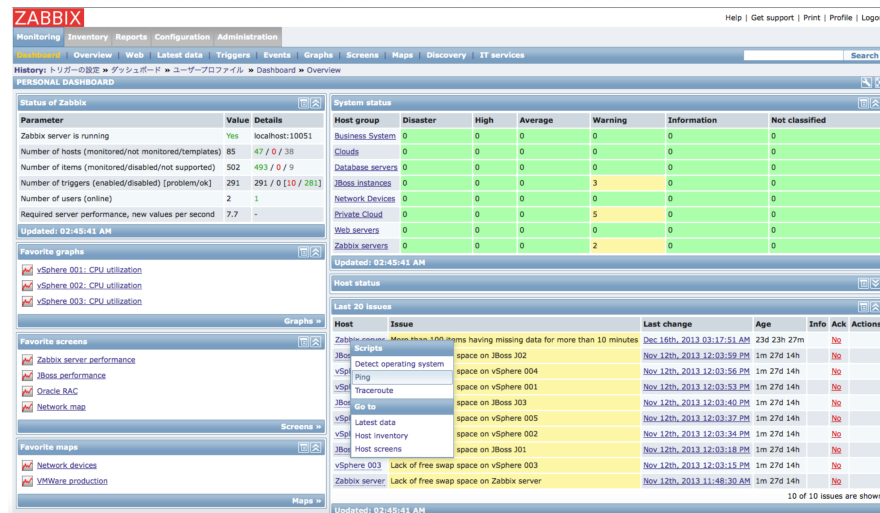
Scripts

- Detect operating system
- Ping
- Traceroute

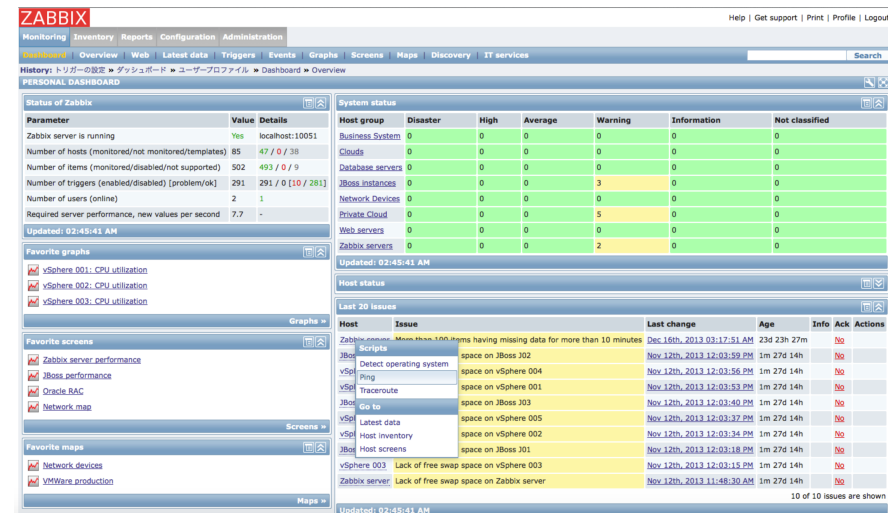
Go to

- Latest data
- Host inventory
- Host screens

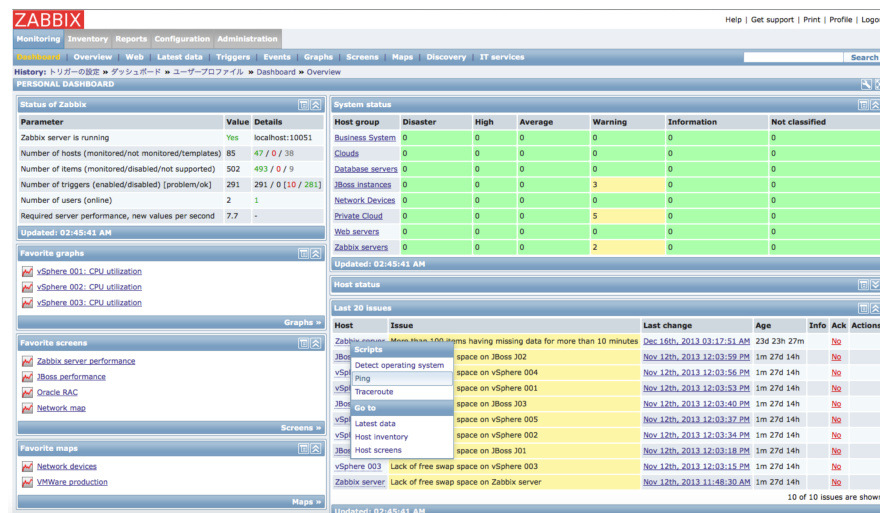
Very little progress



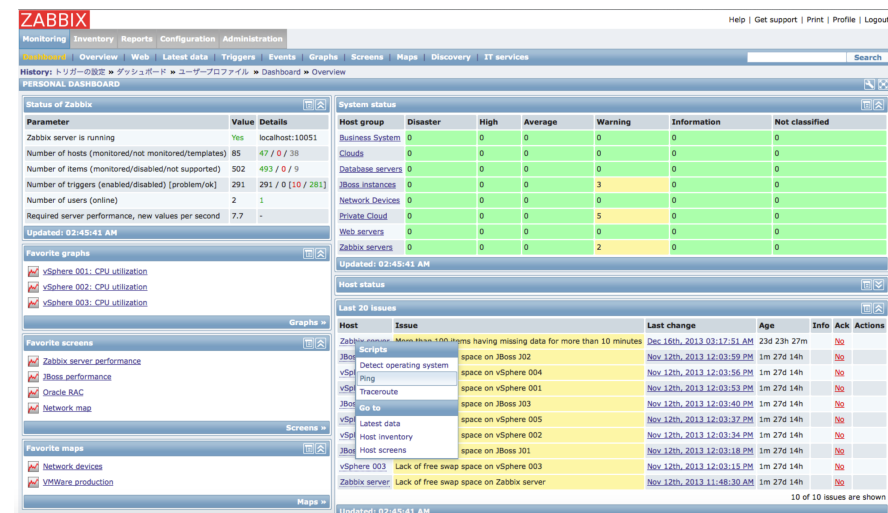
2009: Zabbix 1.8



2012: Zabbix 2.0



2013: Zabbix 2.2



2014: Zabbix 2.4

It's time to fix it!

Zabbix 3.0

Zabbix 3.0: interface

MonitoringInventoryReportsConfigurationAdministration

DashboardOverviewWebLatest dataTriggersEventsGraphsScreensMapsDiscoveryIT services

Dashboard

Favourite graphs

Zabbix server: CPU utilization

Zabbix server: Memory usage

Graphs

System status

HOST GROUP	DISASTER	HIGH	AVERAGE	WARNING	INFORMATION	NOT CLASSIFIED
Zabbix servers	0	0	1	2	0	0

Updated: 18:53:57

Host status

HOST GROUP	WITHOUT PROBLEMS	WITH PROBLEMS	TOTAL
Zabbix servers	0	1	1

Updated: 18:53:57

Favourite screens

Zabbix server

ScreensSlide shows

Web monitoring

HOST GROUP	OK	FAILED	UNKNOWN
No data found			

Updated: 18:53:57

Favourite maps

Local network

Maps

Last 20 issues

HOST	ISSUE	LAST CHANGE	AGE	INFO	ACK	ACTIONS
Zabbix server	Zabbix discoverer processes more than 75% busy	2015-06-26 18:53:35	22s		No	
Zabbix server	Lack of free swap space on Zabbix server	2015-06-26 18:53:30	27s		No	
Zabbix server	Processor load is too high on Zabbix server	2015-06-26 18:53:16	41s		No	

3 of 3 issues are shown

Updated: 18:53:57

Discovery status

DISCOVERY RULE	UP	DOWN
----------------	----	------

Zabbix 3.0: interface

MonitoringInventoryReportsConfigurationAdministration

DashboardOverviewWebLatest dataTriggersEventsGraphsScreensMapsDiscoveryIT services

Favourite graphs

[Zabbix server: CPU utilization](#)

[Zabbix server: Memory usage](#)

Graphs

Favourite screens

[Zabbix server](#)

ScreensSlide shows

Favourite maps

[Local network](#)

Maps

System status

HOST GROUP	DISASTER	HIGH	AVERAGE	WARNING	INFORMATION	NOT CLASSIFIED
Zabbix servers	0	0	1	2	0	0

Updated: 18:54:19

Last 20 issues

HOST	ISSUE	LAST CHANGE	AGE	INFO	ACK	ACTIONS
Zabbix server	Zabbix discoverer processes more than 75% busy	2015-06-26 18:53:35	44s		No	
Zabbix server	Lack of free swap space on Zabbix server	2015-06-26 18:53:30	49s		No	
Zabbix server	Processor load is too high on Zabbix server	2015-06-26 18:53:16	1m 3s		No	

3 of 3 issues are shown

Updated: 18:54:19

Discovery status

DISCOVERY RULE	UP	DOWN
----------------	----	------

Host status

HOST GROUP	WITHOUT PROBLEMS	WITH PROBLEMS	TOTAL
Zabbix servers	0	1	1

Updated: 18:54:19

Web monitoring

HOST GROUP	OK	FAILED	UNKNOWN
No data found			

Updated: 18:54:19

Zabbix 3.0: interface

Search: za

Hosts

HOST	IP	DNS	LATEST DATA	TRIGGERS	EVENTS	GRAPHS	SCREENS	WEB	APPLICATIONS	ITEMS	TRIGGERS	GRAPHS	DISCOVERY	WEB
Zabbix server	127.0.0.1		Latest data	Triggers	Events	Graphs	Screens	Web	Applications 11	Items 63	Triggers 42	Graphs 10	Discovery 2	Web

Displaying 1 of 1 found

Host groups

HOST GROUP	LATEST DATA	TRIGGERS	EVENTS	GRAPHS	WEB	HOSTS	TEMPLATES
Zabbix servers	Latest data	Triggers	Events	Graphs	Web	Hosts 1	Templates

Displaying 1 of 1 found

Templates

TEMPLATE	APPLICATIONS	ITEMS	TRIGGERS	GRAPHS	SCREENS	DISCOVERY	WEB
Template App Zabbix Agent	Applications 11	Items 63	Triggers 42	Graphs 10	Screens 1	Discovery 2	Web
Template App Zabbix Proxy	Applications 11	Items 63	Triggers 42	Graphs 10	Screens 1	Discovery 2	Web
Template App Zabbix Server	Applications 11	Items 63	Triggers 42	Graphs 10	Screens 1	Discovery 2	Web

Displaying 3 of 3 found

Interface: under the hood

- **MVC** : separation of HTML generation and logic
- Ability to **create** your own pages

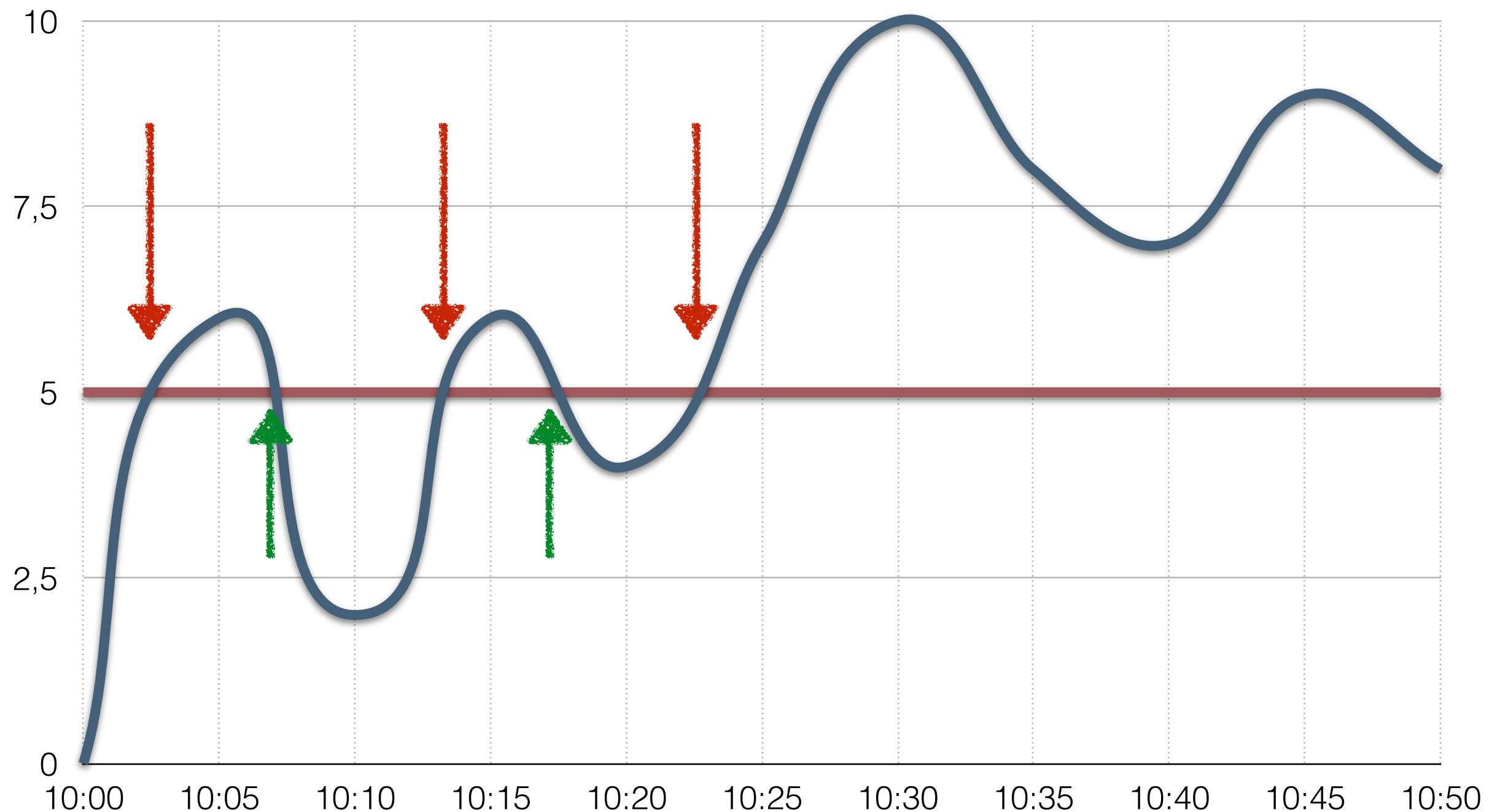
```
alex@dev:~/public_html/ZBXNEXT-2662-5/frontends/php$ ls app/  
controllers  views  
alex@dev:~/public_html/ZBXNEXT-2662-5/frontends/php$ ls local/app/  
controllers  views
```

- Ability to **extend** existing pages

Problem detection

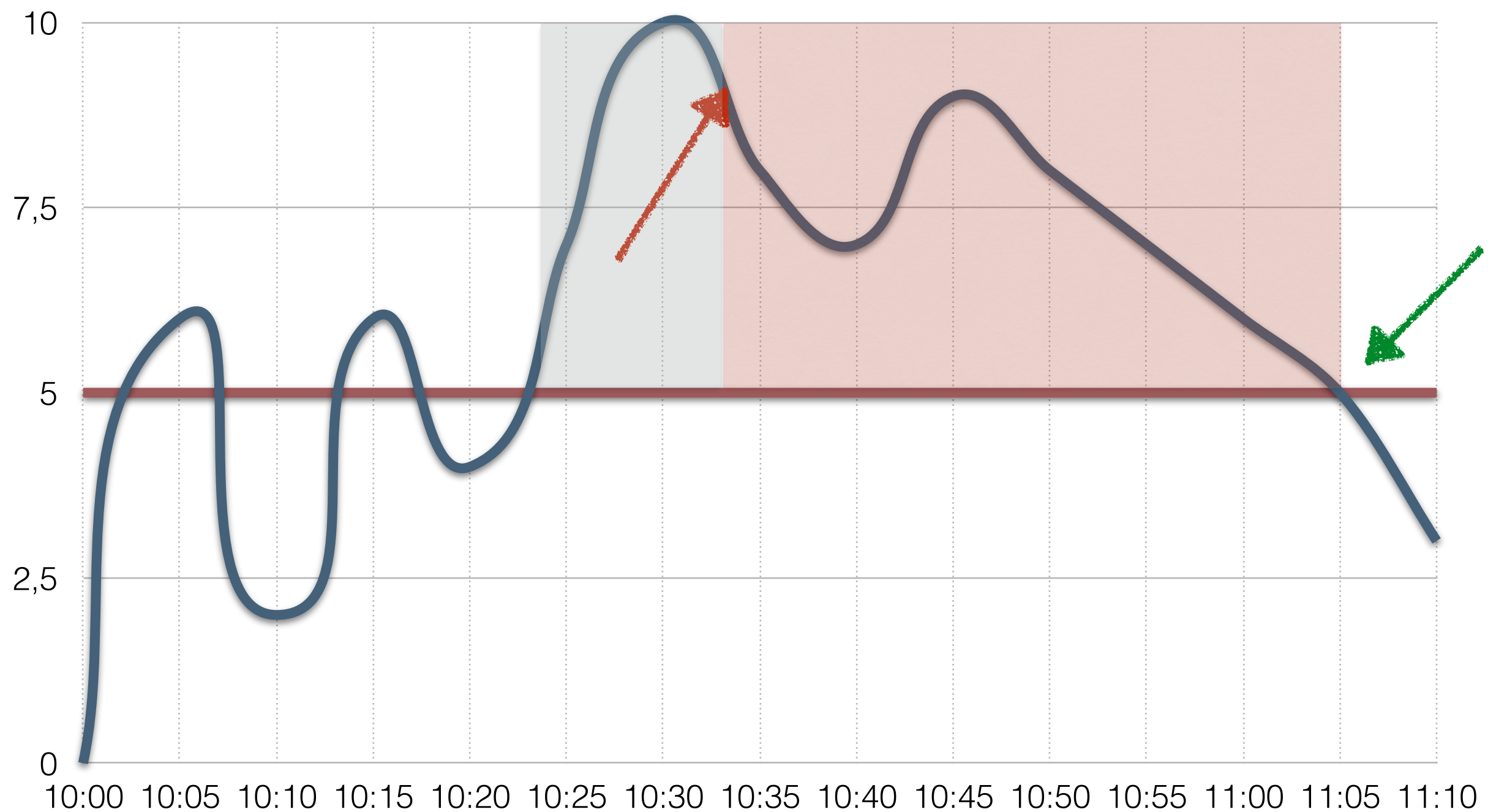
Simple threshold

`{server:system.cpu.load.last()} > 5`



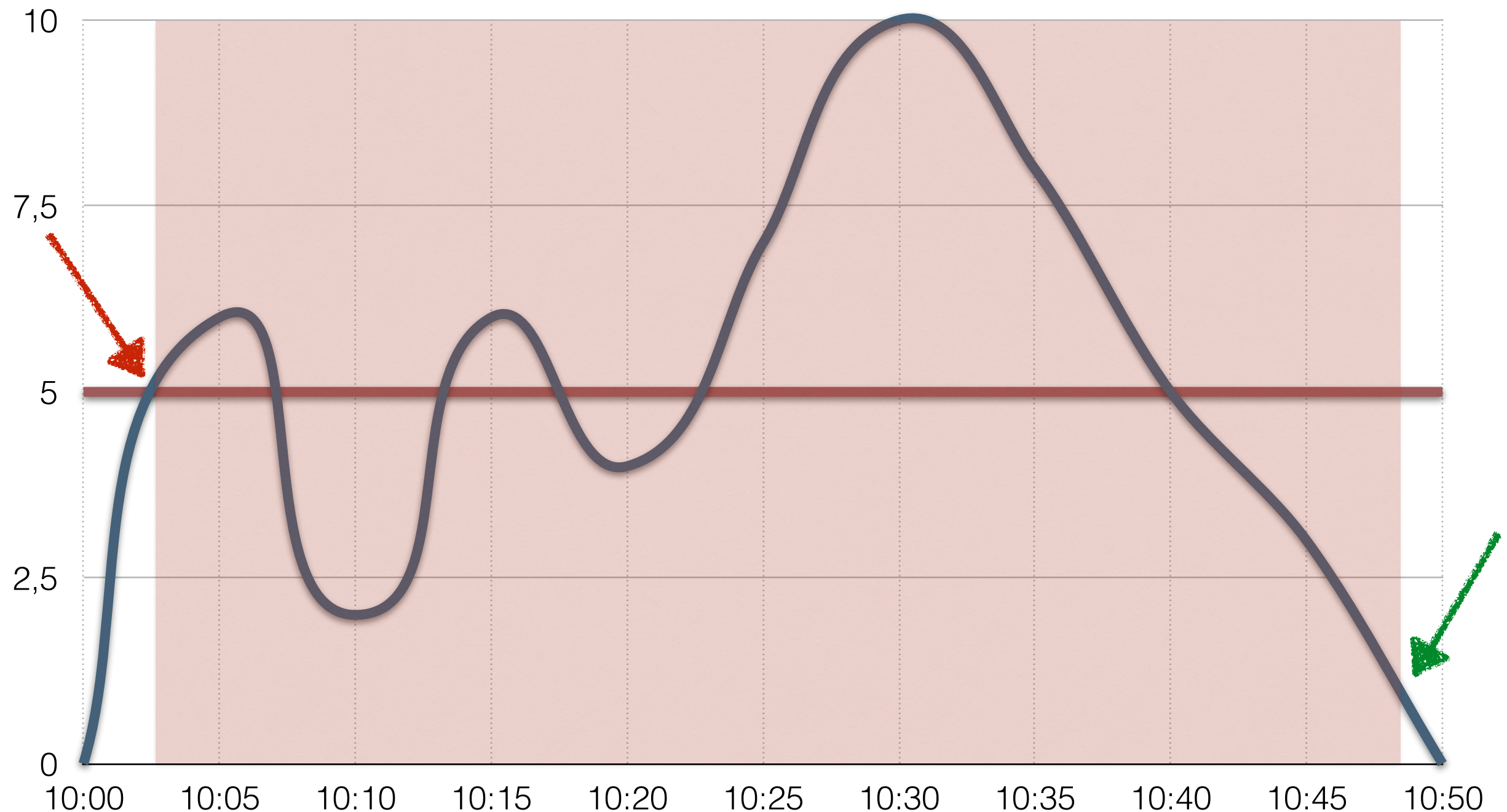
Analyse history

{server:system.cpu.load.min(10m)} > 5

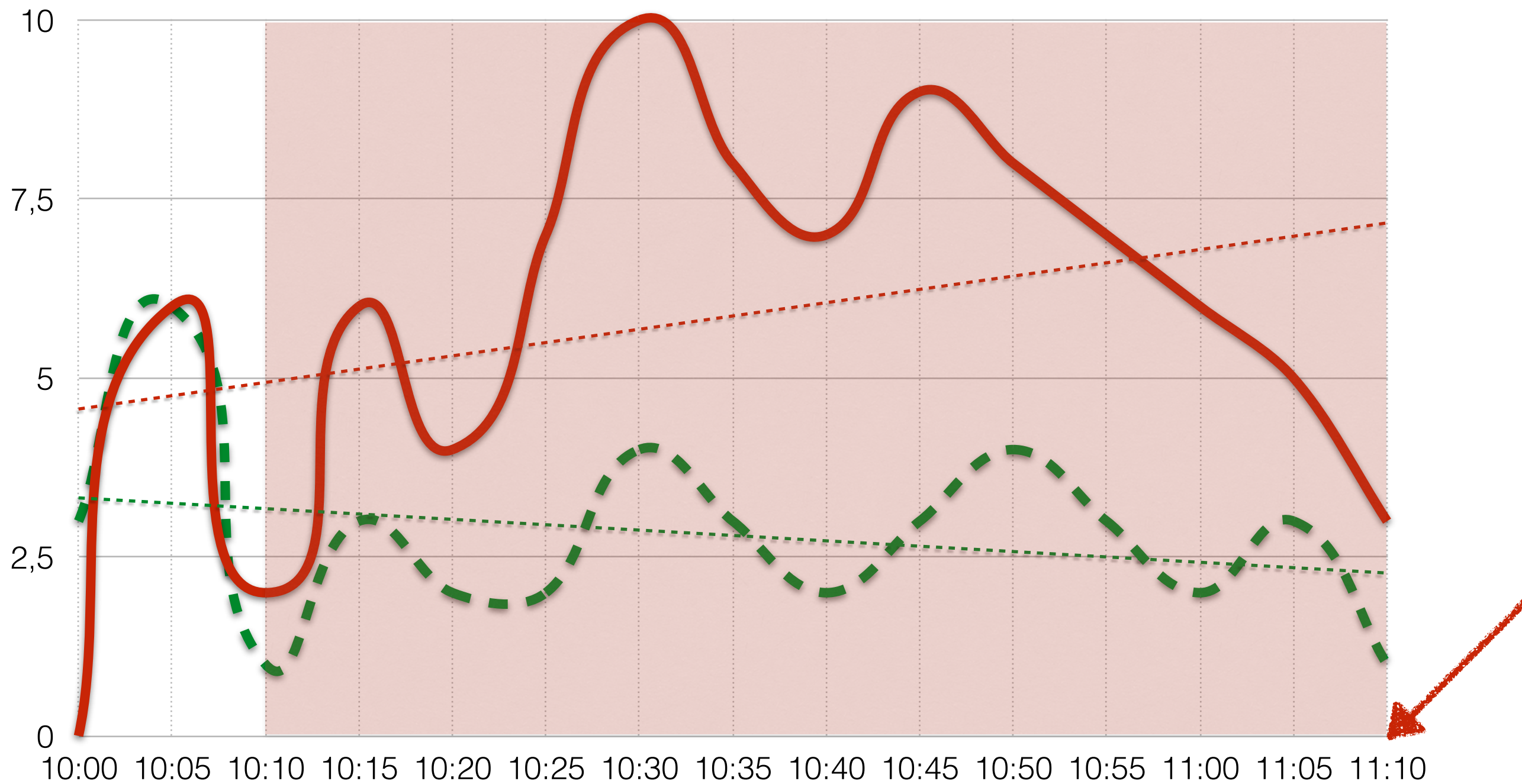


No problem != it's fixed

`{server:system.cpu.load.last()} > 5 ... {server:system.cpu.load.last()} > 1`



Anomaly detection



Compare with 7 days ago

Zabbix 3.0: Problem & trend prediction!

When we hit a
threshold?

What's metric
value in the future?

Where is Zabbix
3.0?

Zabbix 3.0alpha2
released

Why not beta? What's missing

1. Front-end improvements
2. Personalised maps, screens and slideshows
3. Bunch of other smaller features
4. Then -> Beta -> RC -> Stable release!

Good things are
worth waiting for.

Enjoy the
conference!