

# Welcome to Zabbix Conference 2012

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A few facts about the conference

# About me

**Name:** [Alexei Vladishev](#)

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**Home:** [www.zabbix.com](http://www.zabbix.com)

Author of Zabbix

Founder and CEO of Zabbix SIA (Ltd)



# The conference in numbers

- 156 registered participants from 27 countries
- Top 5 countries (excluding Latvia)
  - United Kingdom: 10
  - Russia: 9
  - Lithuania: 8
  - Japan & Germany: 7
  - Denmark & Estonia: 5

# Our sponsors



# Zabbix: life after 2.0

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What's coming next?

# What is all about

- Brief overview of Zabbix services
- Zabbix in 2012
- Zabbix 2.2 roadmap
- Bug free policy

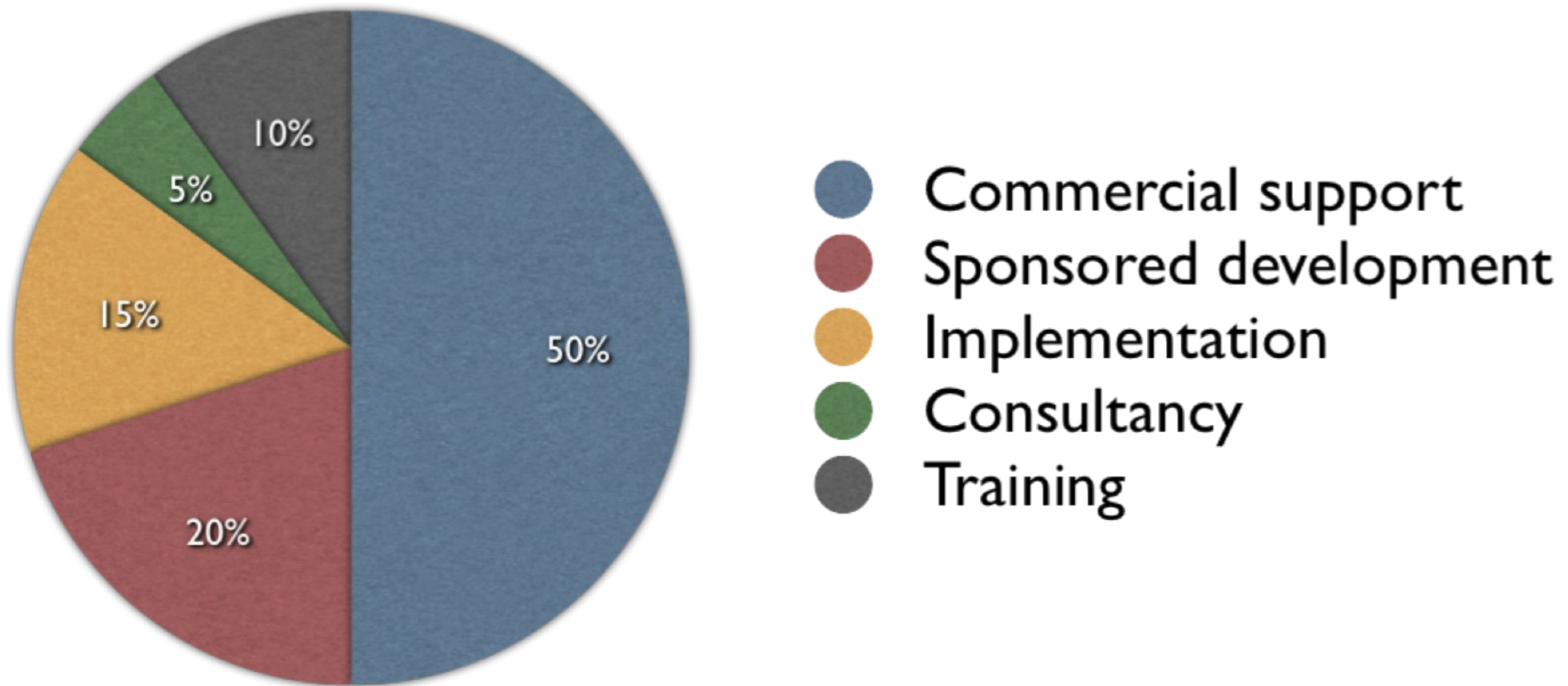
# Our services

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Business model of a true open source company



# True open source company, no license fees



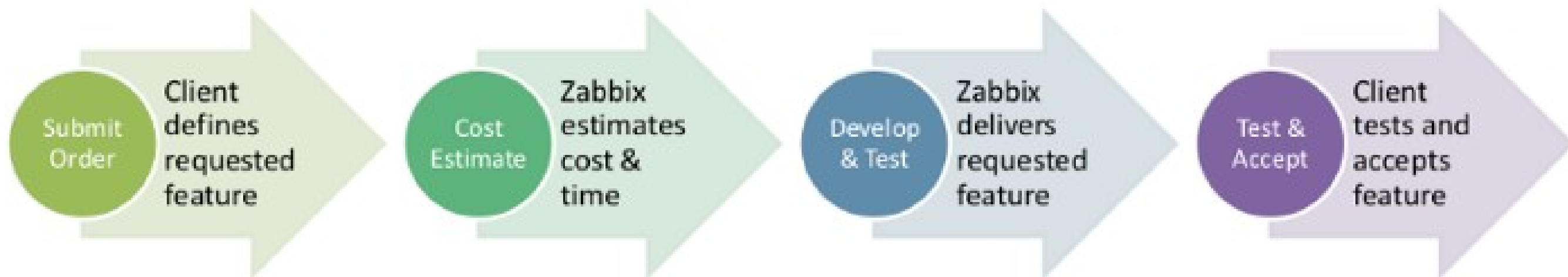


# New offering: Enterprise support

- Turn key solution
- 24x7 Support for unlimited number of Zabbix Servers
- Technical Account Manager included
- On-site implementation work
- On-site training

# Sponsored development

- Most of major Zabbix features are there thanks to our users
- Maintenance is free of charge



# Zabbix in 2012

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One year later...

# Zabbix 2.0 released!

- Low level discovery
- JMX monitoring
- Automatic inventory collection
- Polished front-end, map related improvements
- Better performance
- Support of multiple host interfaces
- High performance SNMP Trapper
- Visible host name

# Better development policy

- Coding standards available
  - [https://zabbix.org/wiki/Docs/specs/development\\_guidelines](https://zabbix.org/wiki/Docs/specs/development_guidelines)
  - [https://zabbix.org/wiki/Docs/specs/coding\\_style](https://zabbix.org/wiki/Docs/specs/coding_style)
  - <https://zabbix.org/wiki/Docs/specs/syntax>
- Analysis and specification phases
  - <https://zabbix.org/wiki/Category:Specifications>

# Longer developers desk



The screenshot shows a web browser window displaying the Zabbix Wiki page for 'Docs/specs/ZBXNEXT-1322'. The browser's address bar shows the URL 'www.zabbix.org/wiki/Docs/specs/ZBXNEXT-1322'. The page features the Zabbix logo and a navigation sidebar on the left. The main content area includes a table of contents for the document, which lists sections such as 'Automatic upgrade of database structure', 'Summary', 'Specification', 'Documentation', 'Test cases', and 'ChangeLog'. Below the table of contents, the page title 'Automatic upgrade of database structure' is displayed, followed by the document ID 'ZBXNEXT-1322', its status 'v1.4', and the owner 'Alexei Vladishev'. A 'Summary' section begins with the text 'Currently in order to upgrade from one major version to another manual execution of database patches is required. It will be improved so that Zabbix itself would update the database automatically.'

- <https://zabbix.org/wiki/Category:Specifications>



# Shall I migrate to 2.0?

## My Answer: **Yes**

- There are no reasons of not doing so
- **Huge improvements** comparing to 1.8 (quality-wise)
- Good to know: we **do not introduce new features** in 2.0.x
- There are couple of exceptions related to screens

# Zabbix 2.2 roadmap

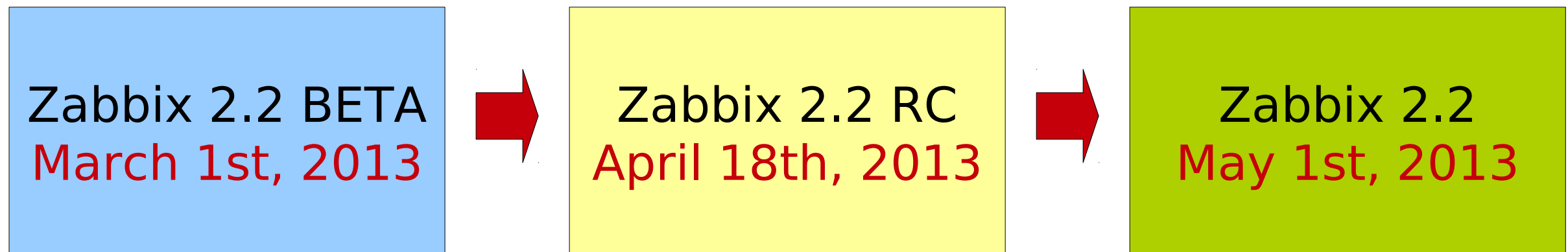
Looking in the future

# Release policy

- Fixed 12 months release cycle
- A new feature is committed only when it is:
  - Code reviewed
  - Independently tested
  - Documented
- Trunk is kept as stable as possible

# Zabbix 2.2 timeline

- Published at:  
<http://www.zabbix.org/wiki/Docs/roadmap>



--- Our plan ---

# Epic: finish half-baked features

- Remote commands execution by Zabbix Proxy and Zabbix Active agent
- Templated WEB scenarios
- Database monitoring: [experimental feature](#) in 2.0
- Support of SES/SHA authentication for SNMPv3
- Improved trigger dependencies
- Alerts on [unknown triggers and not supported items](#)
- Nodata() for not supported items

# Epic: easier maintenance

- Automatic DB upgrade to new versions
  - Includes stable as well as alpha releases
- Automatic backup of configuration data
- Official RPM and DEB packages for popular platforms
- Repository of Zabbix templates

# Epic: front-end improvements and API

- Better navigation for the WEB interface
- Other usability improvements
- No page reload (using Ajax instead)
- Rework of API (see Pavel's talk for details)



# Epic: reporting

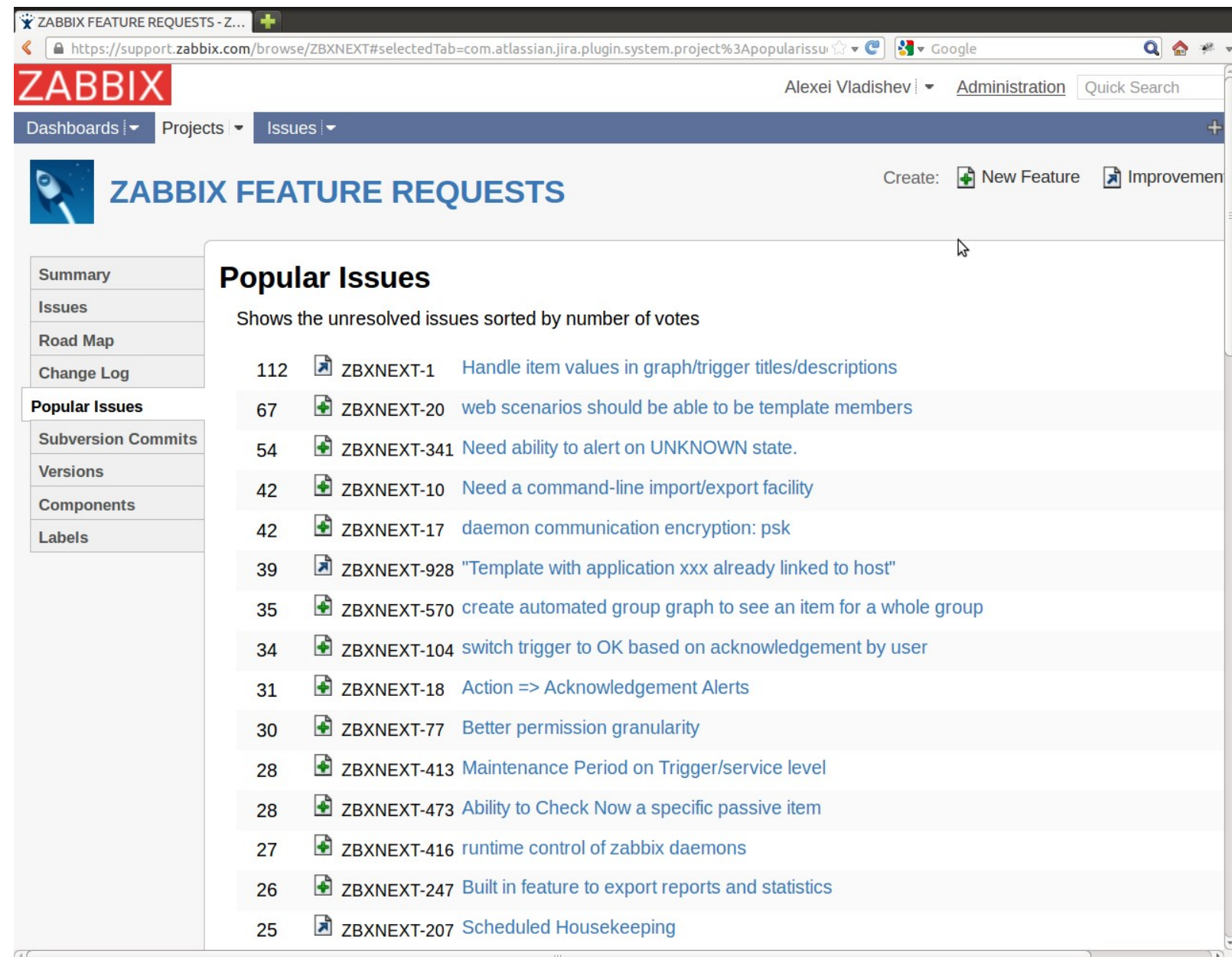
- Top N report on resource usage
  - Customizable
- Bandwidth reports

# Other Epics

- Built-in monitoring of VMware virtualization
- Performance improvements: cache for historical data
- Encryption

## Vote for your favorites!

- The roadmap **is not fixed** yet
- ZBXNEXT voting



The screenshot shows the ZABBIX Feature Requests page. The page title is "ZABBIX FEATURE REQUESTS". The navigation menu includes "Dashboards", "Projects", and "Issues". The "Issues" section is active, showing a list of "Popular Issues" sorted by number of votes. The list includes the following items:

Number of Votes	Issue ID	Issue Description
112	ZBXNEXT-1	Handle item values in graph/trigger titles/descriptions
67	ZBXNEXT-20	web scenarios should be able to be template members
54	ZBXNEXT-341	Need ability to alert on UNKNOWN state.
42	ZBXNEXT-10	Need a command-line import/export facility
42	ZBXNEXT-17	daemon communication encryption: psk
39	ZBXNEXT-928	"Template with application xxx already linked to host"
35	ZBXNEXT-570	create automated group graph to see an item for a whole group
34	ZBXNEXT-104	switch trigger to OK based on acknowledgement by user
31	ZBXNEXT-18	Action => Acknowledgement Alerts
30	ZBXNEXT-77	Better permission granularity
28	ZBXNEXT-413	Maintenance Period on Trigger/service level
28	ZBXNEXT-473	Ability to Check Now a specific passive item
27	ZBXNEXT-416	runtime control of zabbix daemons
26	ZBXNEXT-247	Built in feature to export reports and statistics
25	ZBXNEXT-207	Scheduled Housekeeping

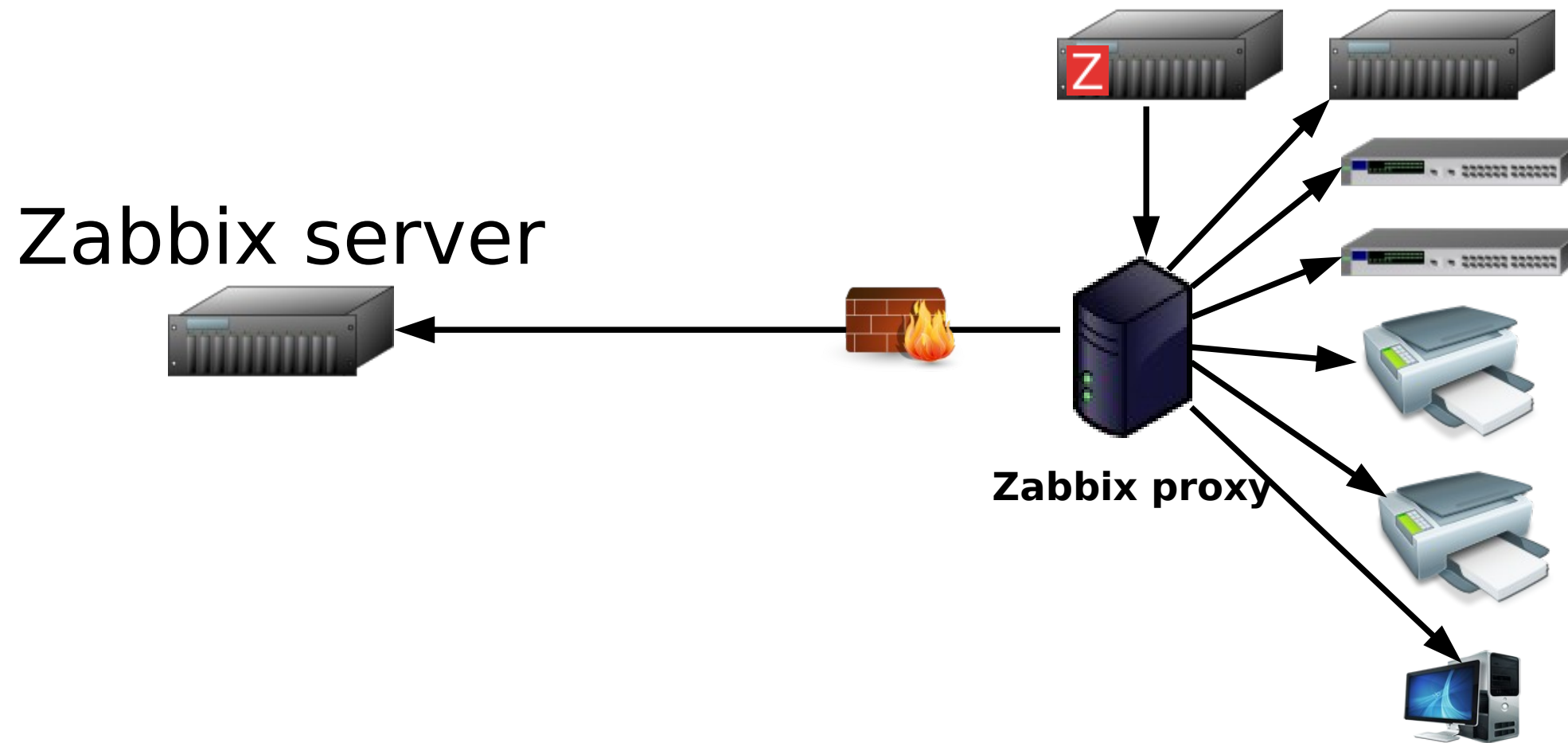
# Next generation DM

**Better** distributed monitoring

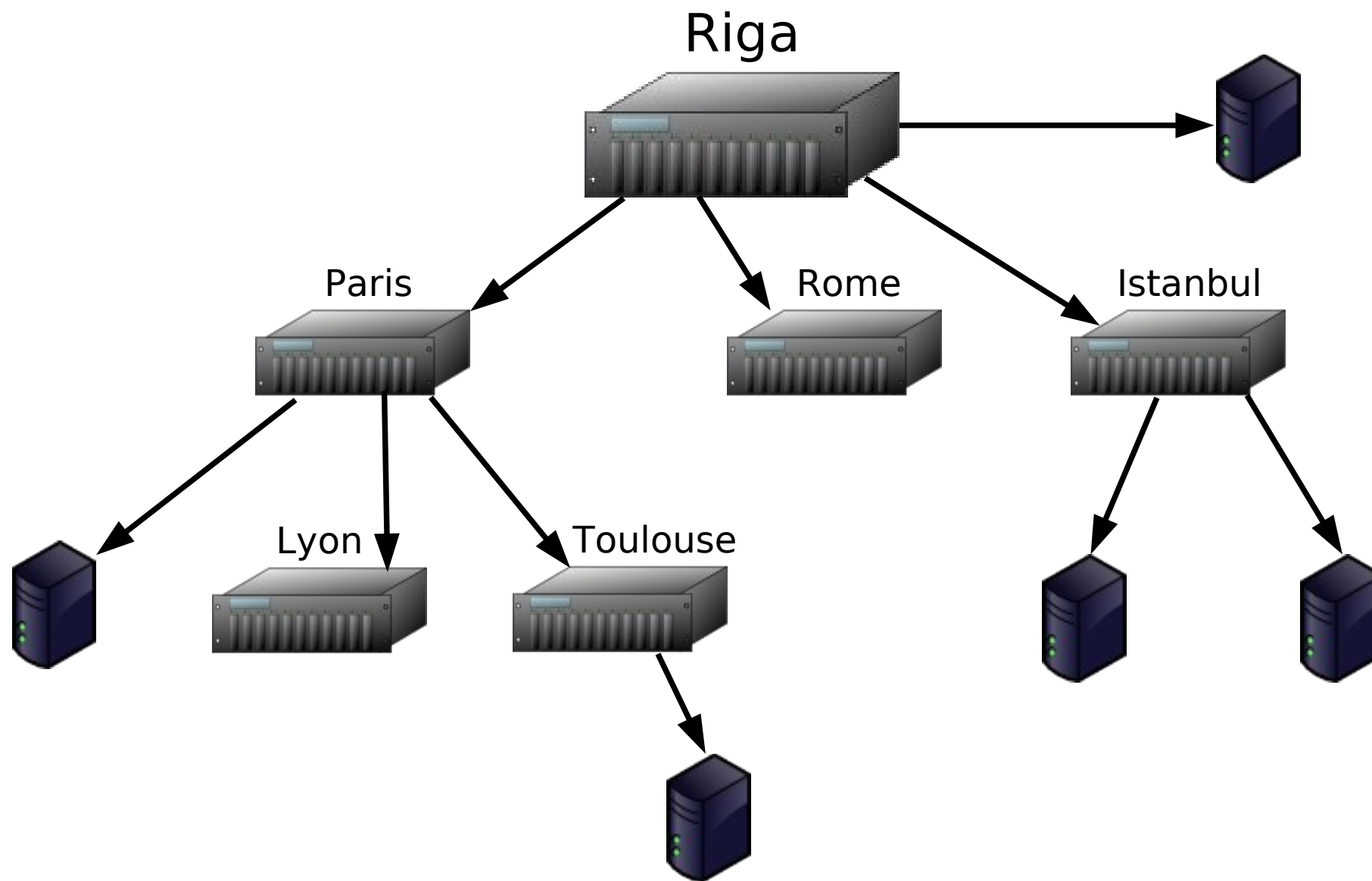
# Two approaches

- Proxy based approach
  - One Zabbix Server and many Proxies
- Multiple Zabbix Servers

# Proxy based DM



# Server based DM





# What's wrong with server based DM?

- Doesn't scale to larger environments
- Central node gets overloaded
- Possible collisions because of two-way replication
- Unable to maintain global templates

# Current state of DM

- It will be dropped in 2.2
- The following problems will be solved immediately
  - Random database deadlocks
  - Getting rid of IDS table
  - Use of sequences

# Next generation DM

We are doing all our best to have it implemented in [2.2](#)

(but no promises)

# Zero bug policy

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Slow but **steady** progress

# Current state

- 564 – total number of opened tickets (100 less than year ago)

<https://support.zabbix.com/browse/ZBX>

- 132 – RTF, Ready to fix
- 268 – RTD, Ready to discuss
- 46 – RTI, Ready to ... ignore (mostly related to old DM)
- 44 – RTR, Ready to reproduce
- 62 – NMR, Next Major Release

# Recent progress

- Closed issues: last three weeks
  - -54
  - -32
  - +11 – this week due to freeze of trunk branch

[WWW.ZABBIX.COM](http://WWW.ZABBIX.COM)

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Any questions?

We are hiring good  
people! :)