

# Let's report bugs and post patches

Takanori Suzuki



# Takanori Suzuki

- Member of Zabbix-JP, Zabbix community in Japan.
- Working at MIRACLE LINUX corp.
- Reported bugs and Posted patches.
  - Crashing bug patch
  - Zabbix proxy stop sending data bug patch
  - Disk monitoring improvement patch for LVM
  - etc...



**ZABBIX**

**is OpenSource**

# What means OpenSource

- **"The Open Source Definition" from OSI**

1.Free Redistribution

**2.Source Code** <-- Any user can access to the code.

**3.Derived Works** <-- Any user can write patches.

4.Integrity of The Author's Source Code

5.No Discrimination Against Persons or Groups

6.No Discrimination Against Fields of Endeavor

7.Distribution of License

8.License Must Not Be Specific to a Product

9.License Must Not Restrict Other Software

10.License Must Be Technology-Neutral

- Zabbix SIA has Bug Tracking System.
- Zabbix SIA is accepting reporting bugs and posting patches.

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

**ZABBIX** Takanori Suzuki | Quick Search

Dashboards | Projects | Issues | [+ Create Issue](#)

**ZABBIX BUGS AND ISSUES** Create: [Bug](#) [Task](#) [Other](#)

Summary

**Summary** Reports Filters

Description

The project is for bug reports.

This is **NOT** for feature requests, consultancy, support requests. Please, use Zabbix Forums instead.

Please make sure that you tried latest stable release before posting anything here.

URL: <http://www.zabbix.com>

Lead: richlv

Key: ZBX

Issues: Due

[ZBX-1121](#)  
graph layout issues

September 29 - 11:00 PM

Vladimir Levijev commented on ZBX-3693 (Reading from columns of 'NCL0B' data type not possible) saying: See new problems in ZBX-4188 .

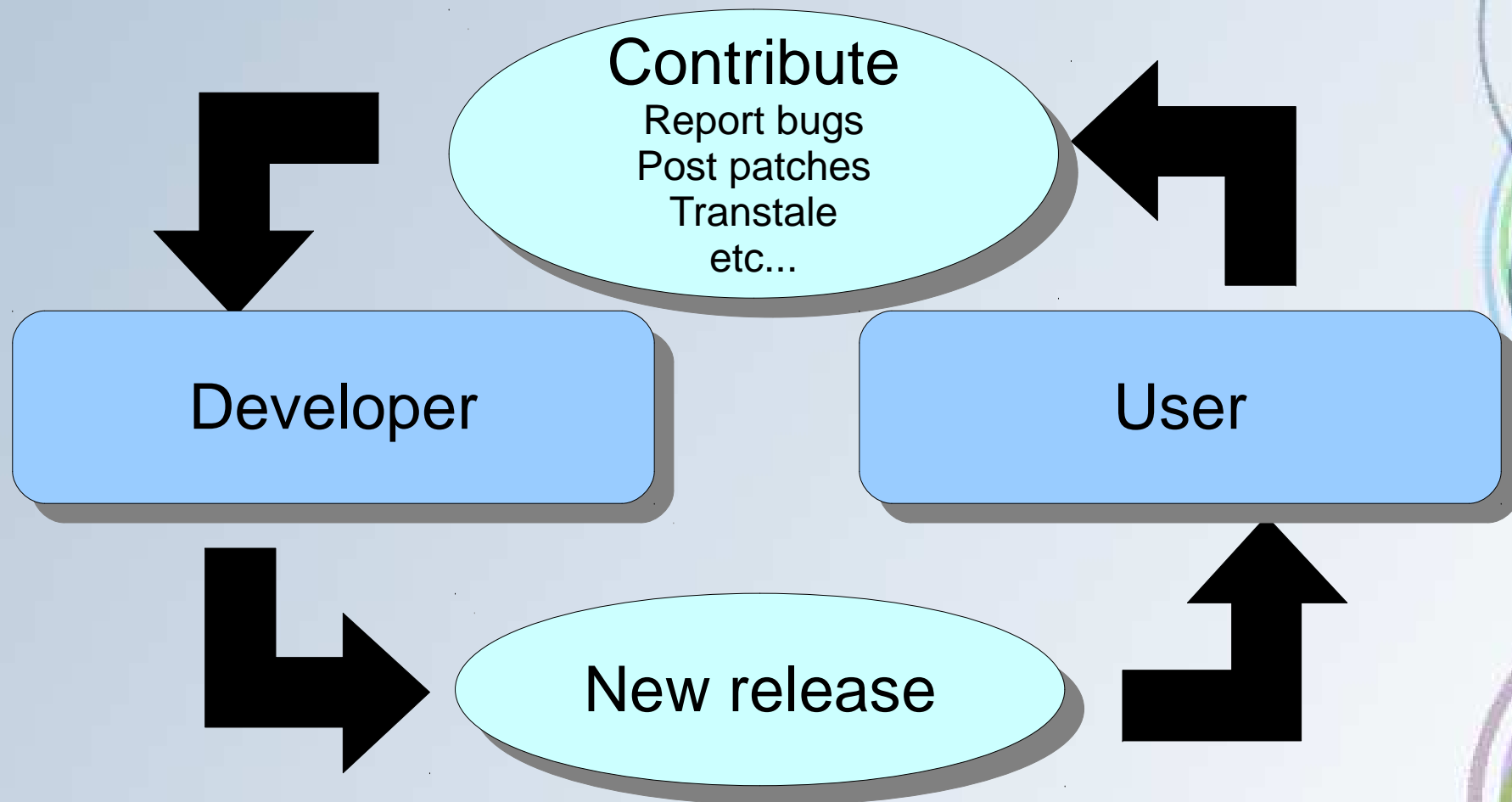
Vladimir Levijev commented on ZBX-4188 (Oracle SQL errors since description field in Item changed from "nvarchar2(255)" to "NCL0B") saying: If you do a fresh install in trunk when viewing Items you won't get any output at all (even in debug mode). Same goes for triggers. In order to be able to see the error:

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

**Every user can  
contribute to Zabbix**



# OpenSource Eco-System



# Good point of OpenSource

- For Developers
  - More bug reports make software more stable
  - Accepting good patches makes software better.
- For users
  - If users make bug reports, others can know the bug and they may be fixed.
  - If patches are accepted, applying patches by yourself is no more needed.



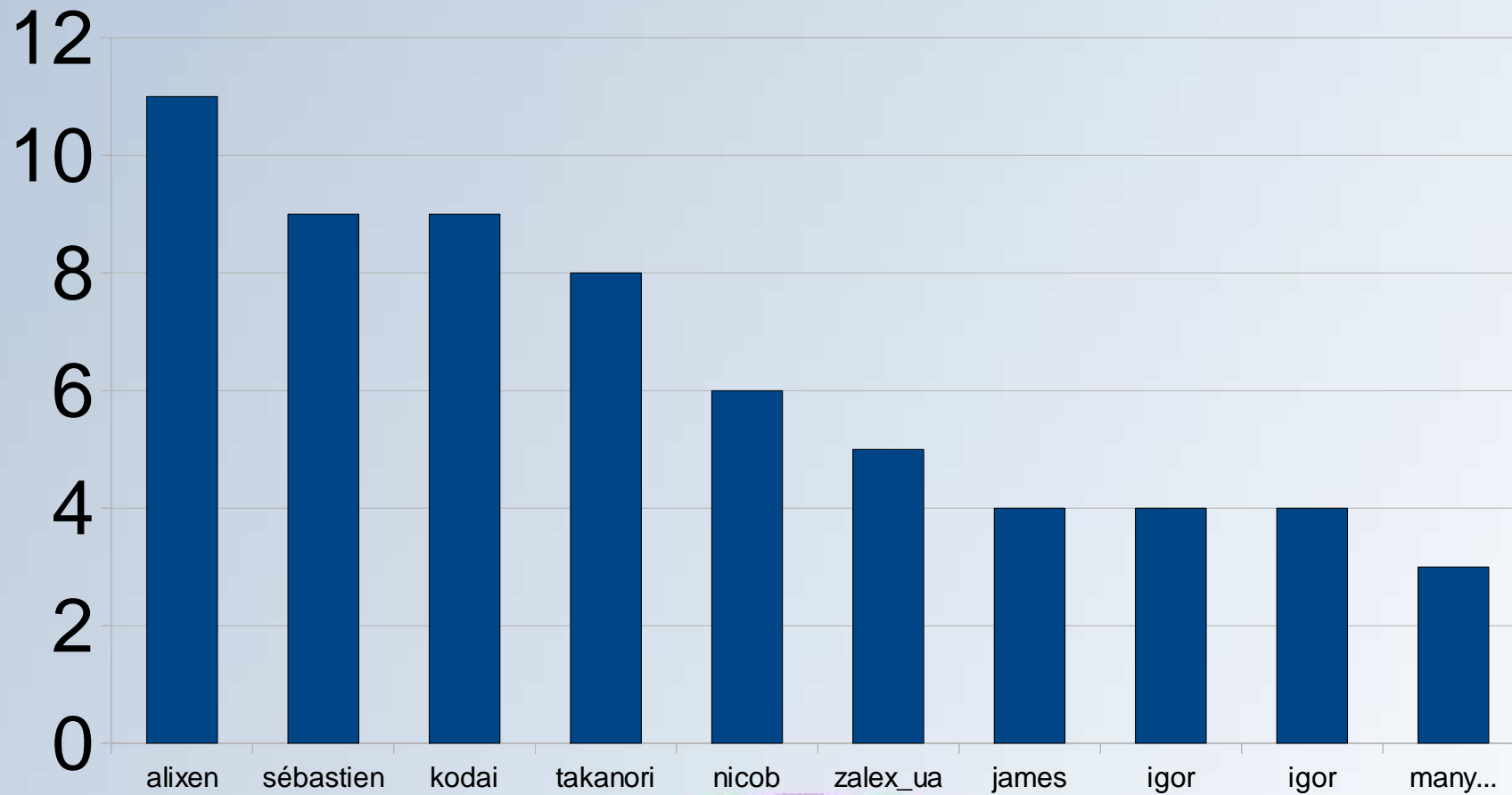
# In Zabbix Changelog

- Fixed bug list is in Changelog
- Some of them are refer to bug reported person with “thanks to”
- It is interesting indicator for contribution

For example...

- [ZBX-3490] added support for LVM devices and full path to devices to `vfs.dev.read` and `vfs.dev.write`; thanks to Takanori Suzuki (dimir, sasha)

# Number of fixed bug with “thanks to” per person (Zabbix 1.8.8) - Top10 -



# You can also go into top 10

- If only more than 3 contributions are written in Changelog, you can go into top 10.
- It must be fun.

# **How to contribute**

- Reporting bugs -



# Before reporting bug

- Should **NOT**
  - feature requests ---> use Zabbix Forums or "ZABBIX FEATURE REQUESTS"
  - consultancy ---> use Zabbix Forums
  - support requests ---> use Zabbix Forums
  - uncertain bug report ---> use Zabbix Forums

# Before reporting bug

- Needed
  - How to reproduce and the result
  - How should it work
  - Environment (OS, version, network and so on)
  - Checking the issue is not yet reported in BTS(JIRA)
  - Checking the issue in latest Zabbix version
- Preferable
  - Workaround
  - How to fix it

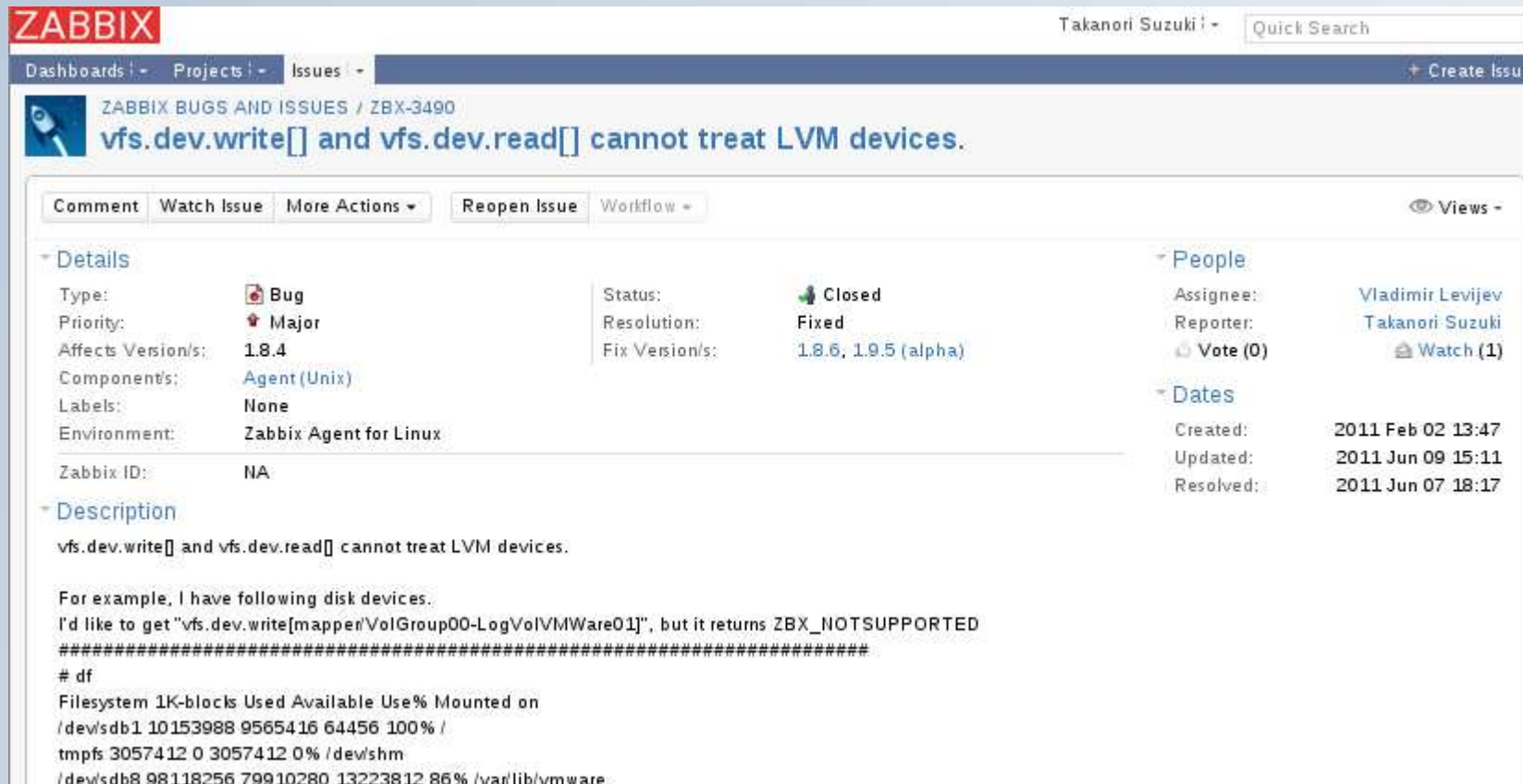
# Reporting bug

- Make BTS(JIRA) account at <https://support.zabbix.com>
- Make issue with
  - Summary about the issue
  - How to reproduce and the result
  - How should it work

If you can...

- Workaround
- How to fix it

# Reporting bug



**ZABBIX** Takanori Suzuki | Quick Search

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ZABBIX BUGS AND ISSUES / ZBX-3490  
**vfs.dev.write[] and vfs.dev.read[] cannot treat LVM devices.**

Comment | Watch Issue | More Actions | Reopen Issue | Workflow | Views

**Details**

Type:	Bug	Status:	Closed	Assignee:	Vladimir Levijev
Priority:	Major	Resolution:	Fixed	Reporter:	Takanori Suzuki
Affects Version/s:	1.8.4	Fix Version/s:	1.8.6, 1.9.5 (alpha)	Vote (0)	Watch (1)
Component/s:	Agent (Unix)				
Labels:	None				
Environment:	Zabbix Agent for Linux				
Zabbix ID:	NA				

**People**

Assignee: Vladimir Levijev  
Reporter: Takanori Suzuki  
Vote (0) | Watch (1)

**Dates**

Created: 2011 Feb 02 13:47  
Updated: 2011 Jun 09 15:11  
Resolved: 2011 Jun 07 18:17

**Description**

vfs.dev.write[] and vfs.dev.read[] cannot treat LVM devices.

For example, I have following disk devices.  
I'd like to get "vfs.dev.write[mapper/VolGroup00-LogVolVMWare01]", but it returns ZBX\_NOTSUPPORTED  
#####

```
# df
Filesystem 1K-blocks Used Available Use% Mounted on
/dev/sdb1 10153988 9565416 64456 100% /
tmpfs 3057412 0 3057412 0% /dev/shm
/dev/sdb8 98118256 79910280 13223812 86% /var/lib/vmware
```



# After reporting

- Some response will come
  - Higher priority issue is faster response
  - Maybe the response is by richlv owner of "ZABBIX BUGS AND ISSUES"
  - If the bug report is appropriate, it will be fixed.

# **How to contribute**

- Posting patches -



# Before posting patch

- Have to check "Zabbix Wiki - contribution - 1.5 Patches"

<http://www.zabbix.com/wiki/contrib/contributing>

- 1.5.1 Patch lifecycle and requirements
  - 1.5.2 Coding guidelines
- 
- Small, clean, well discussed
  - Make patch for svn trunk

# Posting patch

- Post patch to bug report page.
- With explanation of the logic.

ZABBIX BUGS AND ISSUES / ZBX-3490  
**`vfs.dev.write[]` and `vfs.dev.read[]` cannot treat LVM devices.**

Comment Watch Issue More Actions Reopen Issue Workflow Views -

[Why it occurs]  
`vfs.dev.write[]` and `vfs.dev.read[]` get device name from argument.  
They search same name in `/proc/diskstats` and If they found same name, they return the statistics values.  
But there is no "mapper/VolGroup00-LogVolVMWare01".  
"dm-2" is the LVM device name in `/proc/diskstats`.

So, Zabbix returns ZBX\_NOTSUPPORTED

**explanation of the logic**

[How to fix]  
The current Zabbix is searching device by name in `/proc/diskstats`.  
If Zabbix search it by device major number and minor number, Zabbix can find the LVM device.  
It is almost same fix in [ZBX-1015](#)

For example, "`ls -al /dev/mapper/VolGroup00-LogVolVMWare01`" shows LVM device has major number and minor number as "253, 2".  
Then, we can find LVM device as "dm-2"  
`# ls -al /dev/mapper/VolGroup00-LogVolVMWare01`  
`brw-rw- 1 root disk253, 2 Sep 8 19:39 /dev/mapper/VolGroup00-LogVolVMWare01`  
`# cat /proc/diskstats |grep "253 2"`  
`253 2 dm-2 1806769 0 55546954 34161598 1701502889 0 13612023112 2452860745 0 2294837356 2487742578`

Attachments

**posted patch** 6 kB 2011 Feb02 13:49

# After posting

- Some response will come
  - Higher priority issue is faster response
  - Maybe the response is by richlv owner of "ZABBIX BUGS AND ISSUES"
  - If the patch is appropriate, it will be fixed.

Zabbix is OpenSource.

So, it is easy to become a contributor from an user.

**Let's report bugs and  
post patches**

# Questions



# Thank you

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