

ZABBIX on Oracle RDBMS





About me

- currently Nordea IT sp. z o.o.
- on a DBA position here and there since 2004
- mostly Oracle RDBMS-es, but also some experience with databases in general
- blog at http://remigium.blogspot.com



System overview

Parameter	Value	Details
Zabbix server is running	Yes	prodmon: 10051
Number of hosts (monitored/not monitored/templates)	468	313 / 9 / 146
Number of items (monitored/disabled/not supported)	95464	45188 / 1503 / 48773
Number of triggers (enabled/disabled)[problem/unknown/ok]	17547	14653 / 2894 [499 / 40 / 14114]
Number of users (online)	117	4
Required server performance, new values per second	541.42	-



How much ado about it

- NLS character set
- hard parsing
- memory management
- migration to 2.2.3



How much ado about it

- improvements
 - √ indexing
 - √ images
 - ✓ partitioning
 - √ data compression
 - √ services



NLS character set

- NLS charcter set
 - ✓ default AL16UTF16
 - √ required AL32UTF8
 - ✓ change requires migration
- why N-types?



Hard parsing

- what is it?
- why, with ZABBIX in use?
- CURSOR_SHARING=FORCE
- 2.2.3 and bind variables
 ✓ GUI



Memory management

- Oracle RDBMS memory management short overview
- ORA-04031
- built-in memory 'leakage' between buffer cache and shared pool
- _MEMORY_IMM_MODE_WITHOUT_AUTOSGA
- _ENABLE_SHARED_POOL_DURATIONS



Migration to 2.2.3

- bind variables in server implementation
 ✓ but not in GUI
- ZBX-7373



Improvements

- http://zabbixzone.com/zabbix/partitioning-tables
 by Ricardo Santos
- history rotation
 - ✓ partitions
 - ✓ partitioning by intervals
 - ✓rotation by scheduler job
- other partitions



Improvements

- data compression
- services
 - √ server
 - √ GUI



DDL changes

- changes in indexing (fixed with 2.2.2 and above)
- package for loading images and other utils



Why?

- experience
- technology (no MySQL at all)
- because it is possible



Q&A

