

Nimsoft Monitor for Oracle

Optimizing Performance and Availability of Your Oracle Environment

Features

- Supported Platforms: Oracle 8.x/9.x/10.x.
- Multiple local and/or remote monitoring of Oracle instances.
- Oracle Alert Log monitoring.
- Real-time dashboards, historical performance reports, and SLA reports.

Benefits

- Short time to value.
- Pre-empt outage and degrading conditions through heightened proactive awareness.
- Increase database response time and availability.
- Helps to isolate and resolve possible service outages.

Introduction

Nimsoft Monitor for Oracle constantly monitors the internal performance and space allocation throughout the Oracle database and feeds essential information based on pre-defined criteria to the Nimsoft Monitor console for appropriate alert notification when required. An extensive range of check-points can be selected and individually scheduled to meet the needs of specific monitoring requirements.

Nimsoft Monitor for Oracle is a comprehensive solution that includes the Nimsoft Monitor for Oracle probe, which continuously monitors key performance metrics, and the Nimsoft Monitor Oracle_logmon probe, which contains predefined watcher definitions for monitoring the Oracle Alert Log.

This Nimsoft Monitor Oracle probe will periodically scan through a configurable set of monitoring profiles and apply these checks to local or remote Oracle instances. You can tailor the configuration according to specific monitoring requirements. The probe does not modify any tables in Oracle, and works with a standard Oracle installation.



Part of the Nimsoft Monitor Family

Nimsoft Monitor provides a comprehensive solution for improving the end-user experience. From monitoring the application response time at the desktop through to monitoring the performance and availability of the entire IT infrastructure, Nimsoft Monitor is the only product that can give you a complete, 360 degree view of business critical services. All Nimsoft Monitor information is correlated to business service dashboards and measured against pre-defined service level agreements (SLA) to warn you against SLA threatening conditions.

In addition to Nimsoft Monitor for Oracle, modules exist for other databases such as SQL Server, Sybase, Informix, and DB2 UDB. Nimsoft Monitor also monitors a wide variety of platforms such as Windows, UNIX, Linux, IBM Power Systems (formerly AS/400 and iSeries), and Novell Open Enterprise Server (formerly NetWare). These are complemented by application monitoring modules for many common applications and full management of your network

infrastructure, including routers, switches, firewalls, and more.

Nimsoft Monitor is a rapidly deployed solution that requires minimal customization and administration.

Oracle Probe Monitors

- **Buf_cachehit_ratio & Buf_cachehit_ratio_users:** Tells, how often data has been found in cache compared to how often it has to be read from the disk.
- **Chained_rows:** Measures number of chained rows in a table.
- **Check_dbalive:** This checkpoint tries to connect to an instance and alerts are generated if it can't.
- **Datafile_status:** Reports all files being in other status as 'ONLINE'
- **Dbfile_io:** The higher of the above values is taken for checking. It helps to identify database files with higher I/O contention.
- **Dict_cachehit_ratio:** Measures number of times where Oracle metadata are found in memory.
- **Enqueue_timeouts:** Measures number of table and row locks that timed-out before they could complete.
- **Extents:** Reports tables that have more extents as threshold.
- **index_status:** Lists all invalid indexes.
- **invalid_objects:** Lists all invalid objects.
- **lib_cachehit_ratio:** Measures percentage of times object metadata have been found in memory.
- **locked_users:** Measures number of locked users in an instance and displays their list.
- **login_count:** Measures number of currently active user session except for user "SYS" and "SYSTEM".
- **memory_usage:** Measures total amount of memory (in bytes) user sessions consume (PGA).
- **mts_response:** Monitors the average MTS server response time in ms.
- **mts_uga_memory:** Monitors the MTS user memory consumption
- **mts_wait:** Monitors the MTS server wait time in ms.
- **no_next_extents:** Monitors objects, which are not able to allocate
- **next extent.** It considers only objects with AUTOEXTEND OFF.
- **redo_logs:** Measures redo log contention.
- **remaining_extents:** Measures remaining number of extents for object.
- **rollback_seg_status:** Lists rollback segments which are not 'ONLINE'.
- **rollback_seg_status:** Measures number of waits for rollback segment.
- **session_waits:** Measures number of waits in interval.
- **sga_memory:** Measures SGA memory usage in bytes by pool.
- **sort_ratio:** Measures the disk sort ratio.

- **system_statistics:** Displays available system statistics counters. These counters contain number of events since the instance start.
- **system_waits:** Measures number of system waits by event.
- **tablespace_alloc_free:** Measures percentage of free space in already allocated files.
- **tablespace_deficit:** Lists tablespaces with AUTOEXTEND OFF, which cannot allocate new extent.
- **tablespace_free:** Measures percentage of free space in a tablespace
- **tablespace_status:** Lists tablespaces that have status different as 'ONLINE' or 'SYSTEM'.
- **user_locks:** Lists user holding a lock.

Oracle 9i and Above

- **gc_convert_timeouts:** Measures number of times lock converts in global cache timed out.
- **gc_cr_timeouts:** Measures number of times process request for a consistent read block timed out.
- **gc_fusion_wrt_rto:** Measures percentage of blocks written to disk that have been "global dirty".
- **gc_service_util:** Measures global cache utilization.
- **Gc_av_lock_get_time:** Measures average interval global lock get time.
- **gc_blocks_corrupt, gc_blocks_lost:** Measures number of blocks corrupted/lost during transfer.



About Nimsoft

Nimsoft provides integrated, modern IT management solutions for more than 1,000 enterprise and service provider customers globally, including 1&1, CDW, SoftLayer, Sur La Table, TriNet, and Virgin America. The company's Nimsoft Unified Manager is an industry-leading solution that helps organizations easily monitor and manage IT services in increasingly complex business environments. Nimsoft products integrate with existing solutions at any point from the data center to the cloud. For more information, visit www.nimsoft.com.

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