

MySQL Management Plug-In 1.1 for Oracle 11g Enterprise Manager

Key Features

Availability Monitoring

Standard availability monitoring for MySQL targets

100+ Metrics Collected

InnoDB, MyISAM, connections, caches efficiency, and many others

Enterprise Configuration Management

Current and historical configuration collection and comparison

Out of the box reports

Visualize MySQL database performance over time

Remote monitoring

No need to install a Management Agent on every MySQL Server

DOWNLOAD



DOWNLOAD NOW!

Download the MySQL Plug-in at www.pythian.com/mysqlplugin

The need to manage heterogeneous environments is a fact for many production engineers, making a complete monitoring solution a critical component of today's enterprise IT operations. Oracle Enterprise Manager is oriented towards providing end-to-end management for business applications, with plugins extending its management capabilities to an expanding variety of products. Pythian, as a provider of remote database and system administration services has witnessed the widespread adoption of MySQL databases by Oracle customers, and vice versa.

The MySQL monitoring plug-in for Oracle 11g Enterprise Manager, together with plug-ins for DB2, SQL Server, Sybase and TimesTen databases, extends its monitoring capabilities so that database administrators and managers can now use a single monitoring solution to monitor all databases throughout the enterprise. The MySQL Management Plug-in is developed by Alex Gorbachev, CTO of Pythian and is available for download at www.pythian.com/mysqlplugin

MySQL Availability and Alerts

General

Status **Up** Black Out

Availability (%) **100**
(Last 24 Hours)

Host gc.oracleoid.com

◀ *The plug-in implements standard target availability status monitoring, alerts notifications and history.*

Alerts

Metric	Severity	Alert Triggered	Last Value	Last Checked
InnoDB buffer pool read hit ratio %	✘	Apr 13, 2008 11:10:34 PM	0	Apr 14, 2008 1:20:34 AM
Threads cache miss ratio %	✘	Apr 13, 2008 11:09:54 PM	100	Apr 14, 2008 1:24:54 AM
Response time (ms)	⚠	Apr 14, 2008 12:42:15 AM	233	Apr 14, 2008 1:28:15 AM

MySQL Metrics Collection

All Metrics		
Metrics	Thresholds	Collection Schedule
Expand All Collapse All		
▼ Test MySQL Server 2		
▼ Binlog Cache	None	Every 10 Minutes
Binlog cache transactions per second	Not Set	
Binlog cache transactions spilled to disk per second	Not Set	
Binlog disk transactions %	Not Set	
▶ Commands Executions	None	Every 15 Minutes
▶ Connections & Threads	Some	Every 5 Minutes
▶ Current Processes by Action	None	Every 1 Minute
▶ Handlers Statistics	None	Every 15 Minutes
▶ InnoDB Buffer Pool	Some	Every 10 Minutes
▶ InnoDB IO	None	Every 10 Minutes
▶ InnoDB Row Locks	Some	Every 10 Minutes
▶ InnoDB Row Operations	None	Every 10 Minutes
▶ Joins	Some	Every 15 Minutes
▶ MyISAM Key Cache	Some	Every 5 Minutes
▶ Network Statistics	None	Every 15 Minutes
▶ Other Statistics	Some	Every 15 Minutes
▶ Query Cache	None	Every 5 Minutes
▶ Response	All	Every 1 Minute
▶ Slave Statistics	None	Every 15 Minutes
▶ Sort Statistics	Some	Every 15 Minutes
▶ Table Locks	Some	Every 5 Minutes
▶ Temporary Tables & Files	Some	Every 15 Minutes

◀ *The plug-in collects more than 100 metrics covering various MySQL components. Critical and warning thresholds can be set for every collected metric. Most significant metrics have sensible predefined thresholds, which provide the DBA with an initial setup that can be further tailored to a particular environment.*

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Requirements

Oracle Management Server

The MySQL Management Plug-in requires Oracle Enterprise Manager 11g Grid Control Release 3 (10.2.0.3) or higher. The preferred version is 10.2.0.4.

Oracle Management Agent

The MySQL Management Plug-in requires Oracle Enterprise Manager 11g Grid Control Management Agent 10.2.0.3 or higher. Prior releases are not guaranteed to work.

MySQL

The MySQL Management Plug-in can monitor MySQL version 4.1, 4.0 and 5.1. It supports both master and slave servers. It doesn't support MySQL Cluster-specific monitoring. Support for MySQL 6.0 and MySQL clusters is planned.

Platforms

The MySQL Management Plug-in works on Linux, Windows and on UNIX platforms that are supported by the Oracle Management Agent.

Remote monitoring

Monitoring remote MySQL servers works without MySQL client on the host where Oracle Management Agent is running. The plug-in uses a native Perl interface to MySQL. No need to install and compile any Perl packages.

MySQL Configuration Management

View Configuration: Configuration Data
 Collected From Target: **Apr 13, 2008 11:14:08 PM**
 Description: **Latest Configuration**

MySQL Variables

Variable Name	Variable Value
back_log	50
basedir	/usr/local/mysql-5.1.24/
big_tables	OFF
binlog_cache_size	32768
binlog_format	STATEMENT
bulk_insert_buffer_size	8388608
character_set_client	utf8
character_set_connection	utf8
character_set_database	utf8
character_set_filesystem	binary

MySQL Storage Engines

Engine	Support	Description	Transactional	XA support	Savepoints support
InnoDB	DEFAULT	Supports transactions, row-level locking, and foreign keys	YES	YES	YES
MRG_MYISAM	YES	Collection of identical MyISAM tables	NO	NO	NO
BLACKHOLE	YES	/dev/null storage engine (anything you write to it disappears)	NO	NO	NO
CSV	YES	CSV storage engine	NO	NO	NO
MEMORY	YES	Hash based, stored in memory, useful for temporary tables	NO	NO	NO
FEDERATED	YES	Federated MySQL storage engine	NO	NO	NO
ARCHIVE	YES	Archive storage engine	NO	NO	NO
MyISAM	YES	Default engine as of MySQL 3.23 with great performance	NO	NO	NO

The MySQL plug-in implements Enterprise Configuration Management (ECM) features. Oracle Enterprise Manager collects MySQL configuration and tracks changes over time so that a DBA can easily track down configuration changes

Compare: Configuration Data
 First Host: **Test MySQL Server** (gc.oracleoid.com) Collected: **Apr 13, 2008 11:23:05 PM**
 Second Host: **Test MySQL Server 2** (gc.oracleoid.com) Collected: **Apr 13, 2008 11:22:24 PM**

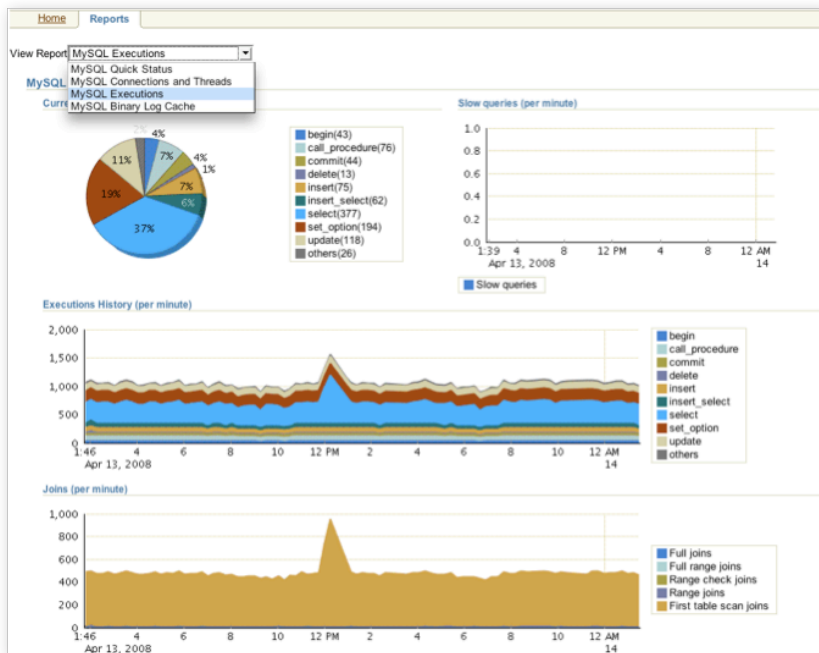
MySQL Variables

Result	Variable Name	Test MySQL Server	Test MySQL Server 2
⊘	datadir		
⊘	event_scheduler	ON	OFF
⊘	hostname		
⊘	innodb_data_home_dir		
⊘	innodb_log_group_home_dir		
⊘	log_error		
⊘	log_output	TABLE	FILE
⊘	log_slave_updates	OFF	ON
⊘	read_buffer_size	2097152	1048576
⊘	read_rnd_buffer_size	262144	2097152

MySQL Storage Engines

Result	Engine	Test MySQL Server	Test MySQL Server 2
No differences found			

MySQL Reports



◀ The plug-in comes with predefined reports: MySQL Quick Status, MySQL Connections and Threads, MySQL Executions, MySQL Binary Log Cache.

Remote Monitoring

Name	Value
Hostname	192.168.33.31
Port	
Database User	monitor
Database User Password	*****

◀ The MySQL Management Plug-in supports monitoring of remote MySQL servers so that Oracle Management Agent doesn't have to be installed on every server running MySQL databases. This simplifies the deployment process. The host running the Management Agent, however, doesn't even need MySQL client installed. The MySQL target configuration includes the Hostname property, which should be set to the IP address or alias of the remote server running the monitored MySQL database.

Support

Free support is available on the Pythian Blog at <http://www.pythian.com/news/mysql-plugin-for-oracle-grid-control/>, and commercial support is available to customers as part of Pythian's standard service offerings.

For more information on Pythian Services for MySQL or our MySQL Adoption Accelerator contact sales@pythian.com.

Contact Us Today

Pythian is a global industry-leader in remote database administration services and consulting for Oracle, Oracle Applications, SQL Server and MySQL.