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MySQL Management Plug-in 1.1 for Oracle 10g Enterprise Manager

MySQL Plug-in?

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 plug-ins extending its management capabilities to an expanding variety of products.

Over the last years, MySQL databases have gained tremendous popularity. The Pythian Group, 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 10g 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.

General

Status Up Black Out
Availability (%) 100 (Last 24 Hours)
Host gc.oracloid.com

MySQL Availability and Alerts

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

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.

All Metrics

Expand All | Collapse All

Metrics	Thresholds	Collection Schedule
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

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MySQL Configuration Management

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

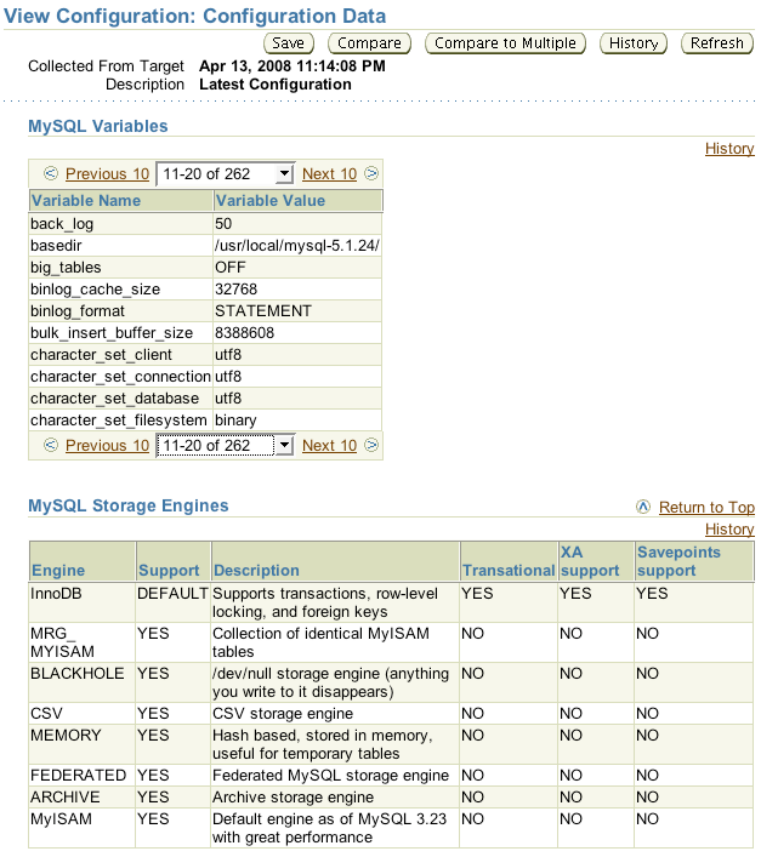
The latest version of the MySQL plug-in is available for download from its home page, located at the pythian.com web site - MySQL Plug-in for Oracle Grid Control (http://www.pythian.com/blogs/mysql-plug-in-for-oracle-grid-control).

Support

The MySQL Management Plug-in is developed by Alex Gorbachev of The Pythian Group. Free support is available at the Pythian Group Blog, and commercial support is available to customers as part of Pythian's standard service offerings.

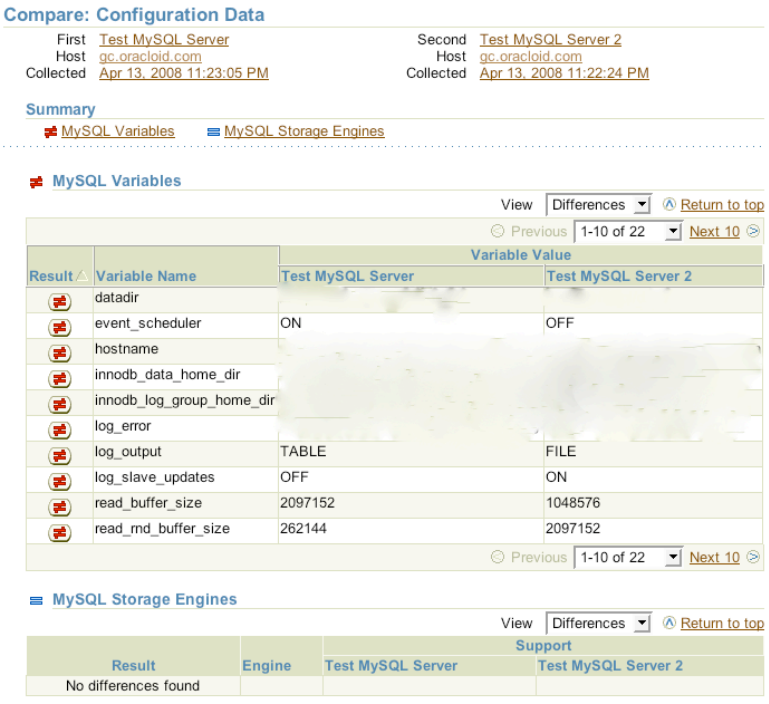
The MySQL plug-in implements Enterprise Configuration Management (ECM) features.

Oracle Enterprise Manager collects MySQL configuration and tracks changes over time so that a DBA can easily track down configuration changes.



Configuration of MySQL targets can be easily compared to verify that MySQL deployment follows the same standard throughout the enterprise.

Configuration comparison allows the DBA to detect differences between MySQL master and slave servers.



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Requirements

✦Oracle Management Server

The MySQL Management Plug-in requires Oracle Enterprise Manager 10g 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 10g 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.

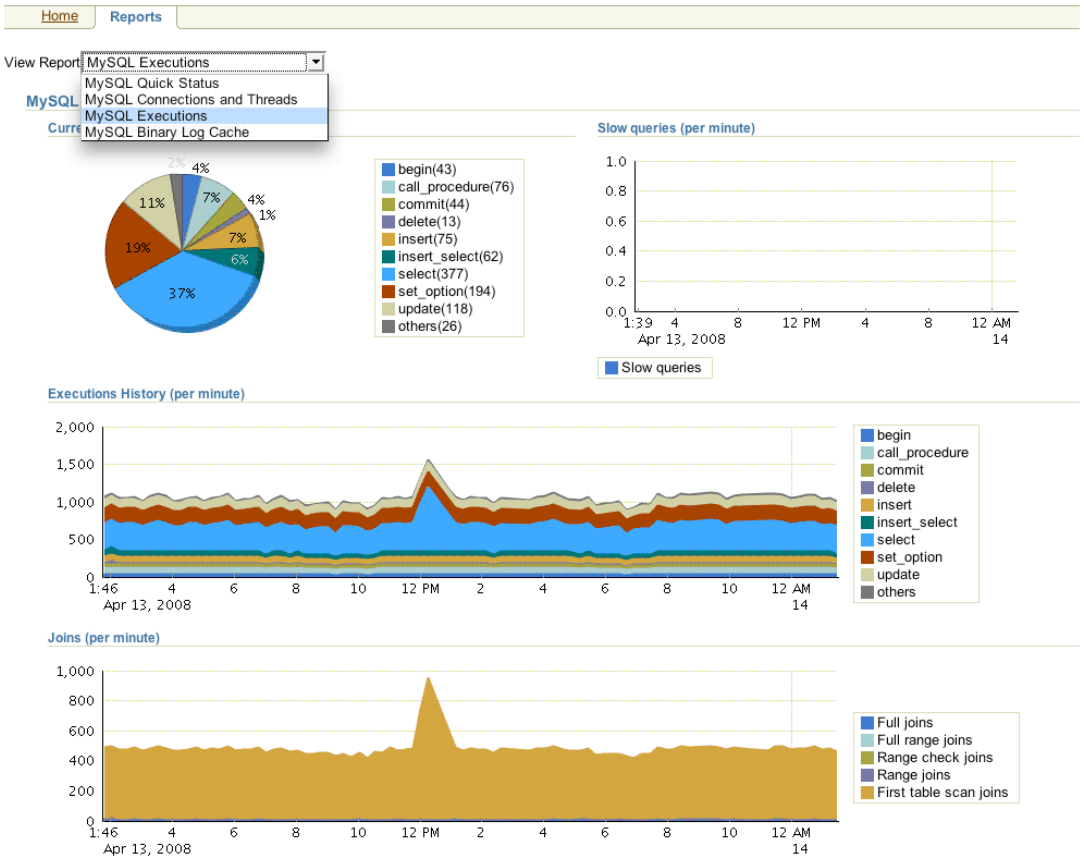
✦Remote monitoring

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

MySQL Reports

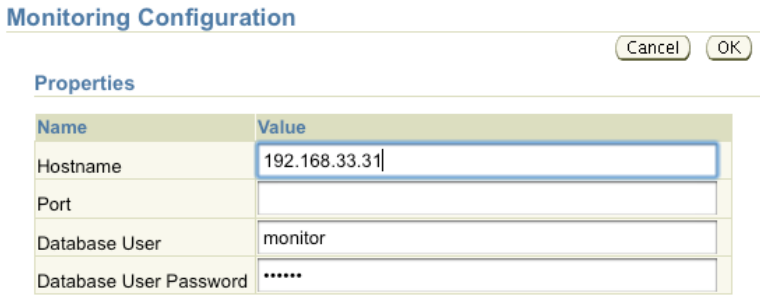
The plug-in comes with predefined reports:

- MySQL Quick Status
- MySQL Connections and Threads
- MySQL Executions
- MySQL Binary Log Cache



Remote Monitoring

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 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.

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Contact Us

Go to www.pythian.com or contact us directly at one of our worldwide offices nearest you. To provide our clients with the highest quality support on a 24x7x365 basis, the Pythian Group has staff and offices in five locations around the globe.

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Masters of the art – and the science – of remote database administration