



Smart Plug-In for MySQL Databases

for HP Operations Manager for Unix and HP Operations Manager for Windows

Overview

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blix Smart Plug-In for MySQL Databases



The blix Smart Plug-In for MySQL Databases

The blix Smart Plug-in (SPI) for MySQL Databases enables professional monitoring and problem detection for the MySQL database instances. The SPI adds MySQL database monitoring and management capabilities to the HP Operations (formerly named HP OpenView Operations or OVO) and Performance products.

With MySQL databases used more and more in productive environments, it becomes a key requirement to effectively manage and monitor these databases. The SPI for MySQL Databases integrates its performance and event detection features with HP Operations Manager for Unix and for Windows (http://managementsoftware.hp.com/partner/isv/Blixx_prod1.jsp).

The built-in intelligence can help to optimize business processes in the IT department, to proactively prevent problem situations, to pin-point problems and even to identify future performance behaviors based on the historical performance data.

The SPI for MySQL Databases monitors the state and throughput of the database instances and physical resources related to the database such as disks and memory. The log file analyzer tracks any messages reported by the database system and generates events for the OM operators. Configuration and runtime values are monitored to detect configuration problems, changes, and suspicious database states. Instruction texts support the operators to pinpoint and solve problems. Performance monitors are used for state monitoring (thresholds) and data collection that can be afterwards used by reporting services for historical and trend analysis.

The state-of-the-art SPI implementation is based on Java. Hence the SPI offers easy extensibility and the possibility to support a wide range of operating systems and platforms, shielding the customer from any differences these might have.

The configuration is easy and requires only a minimum effort from the customer side.

Key features

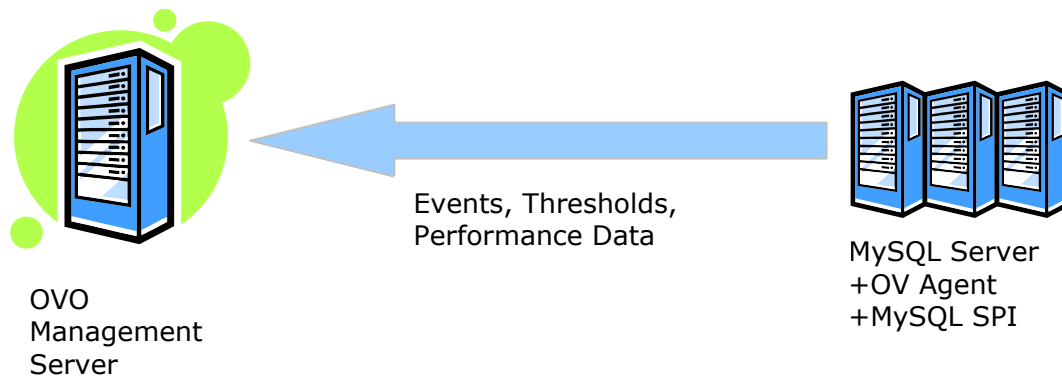
- Operations Manager for Unix and OM for Windows support
- Support for a wide range of platforms (Windows, Linux, HP-UX, SunOS)
- Support for multiple versions of the MySQL database (from v4.1 and higher)
- Easy and fast deployment and configuration
- Support of multiple MySQL database server instances running on the managed node
- Flexible and powerful collector engine
- Calculation of Average, Peak, Delta values
- More than 50 raw and aggregated performance metrics available (extended set with 1.2)
- Detection of suspicious configuration and runtime values
- Detection of security relevant events
- Status and resource monitoring
- Log file monitoring
- Performance data collection for data correlation, thresholding, trending, reporting
- New: Configuration monitoring with alerting, change tracking and comparison
- New: Support of the OMU (OVO) Server on SUN Solaris
- New: Store Performance Data to structured file for flexible integration possibilities

Covered Areas

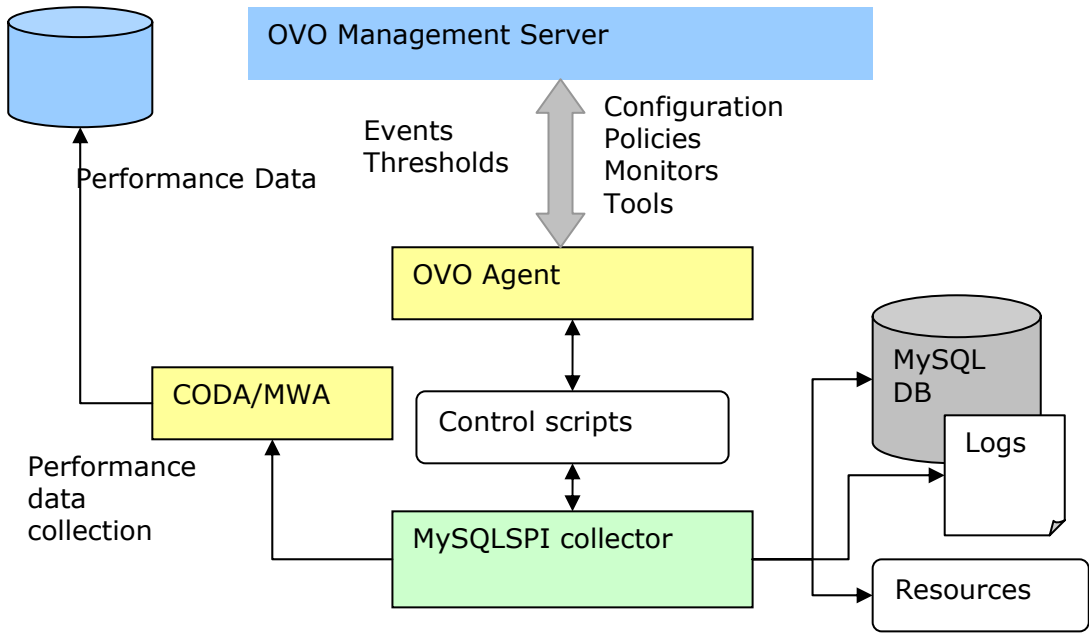
- MySQL Database Server Status Metrics
- Database Resource Utilization
- System Resource Utilization
- Database KPIs (Key Performance Indicators)
- Supporting Database Metrics for advanced correlations
- Configuration sanity checks
- Active replication monitoring to measure and alert on replication delays
- RowCount monitor to track queue tables
- Automatic detection and capture of long running queries
- Custom monitor to run any SQL statement and threshold on response time or returned value
- New: Configuration change monitoring

Architecture

The SPI for MySQL Databases can be installed on multiple MySQL database server systems and configured to monitor multiple MySQL database instances on each database server.



The SPI uses standard OVO integration mechanisms. The OV Agent must be installed on the MySQL database server before deploying and using the SPI. Monitoring of remote MySQL database instances is possible, but offers a limited set of capabilities.



The performance data collection (history data collection) has an independent schedule interval from the threshold monitoring and can be disabled or enabled at any time.

This also allows the collection of performance statistics even during planned outage periods in which the thresholding and alarming is turned off.

Most of the provided metrics are aggregated or calculated based on multiple variables from the MySQL database and on monitoring intervals. The calculated and aggregated values are dynamically recalculated based on each customer's specific scheduled monitoring interval. This allows the SPI to easily handle metrics representing States, Counters, Gauges and similar, while providing full flexibility for the configuration of the monitors.



Supported platforms and servers

HP OpenView Operations servers

HP OVO UNIX v7.1x, v8.x (DCE and HTTPS based agents)

HP OVO Windows 7.5

Operating Systems on managed nodes

Windows XP Professional

Windows 2003 Server

Linux RedHat, Novell-SUSE (Versions like specified in OV Agent support matrix)

HP-UX

SunOS

MySQL Database servers

MySQL Database 4.1

MySQL Database 5.0

MySQL Database 5.1

Reporting

OV Service Reporter 3.7

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