Integration

- Instructions: https://apps.sematext.com/ui/howto/MySQL/overview

Metrics

Metric Name	Key	Agg	Type	Description
opened table definitions	mysql.tables.opened_table_definitions	Sum	Long	The number of .frm files that have been cached

Metric Name	Key	Agg	Type	Description
created_tmp_tables	mysql.tables.tmp	Sum	long	Created_tmp_tables: The number of internal temporary tables created by the server while executing statements

Metric Name	Key	Agg	Type	Description
flush commands	mysql.tables.flushes	Sum	long	Flush_commands: The number of times the server flushes tables, whether because a user executed a FLUSH TABLES statement or due to internal server operation

Metric Name	Key	Agg	Type	Description
table locks waited	mysql.tables.locks_waited	4	Long	Table_locks_waited: The number of times that a request for a table lock could not be granted immediately and a wait was needed. If this is high and you have performance problems, you should first optimize your queries, and then either

Metric Name	Key	Agg	Type	Description
opened tables	mysql.tables.opened	Sum	Int	Opened_tables: The number of tables that have been opened. If Opened_tables is big, your table_open_cache value is probably too small

Metric Name	Key	Agg	Type	Description
table definition cache	mysql.table_definition_cache	Avg	long	The number of table definitions (from .frm files) that can be stored in the definition cache. If you use a large number of tables, you can create a large table definition cache to speed up opening of ta-

Metric Name	Key	Agg	Type	Description
open table definitions	mysql.table_definition_cache_open	Avg	long	The number of cached .frm files

Metric Name	Key	Agg	Type	Description
table open cache	mysql.tables_cache	Average	Gauge	table_open_cache: The number of open tables for all threads. Increasing this value increases the number of file descriptors that mysqld requires. You can check whether you need to increase the table cache by checking the Opened_tables status variable
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Metric Name	Key	Agg	Type	Description
created tmp disk tables	mysql.tables.tmpdisk	Sum	long	Created_tmp_disk_tables: The number of internal on-disk temporary tables created by the server while executing statements. If an internal temporary table is created initially as an in-memory table but becomes too large,

Metric Name	Key	Agg	Type	Description
open tables	mysql.tables.open	Avg	long	Open_tables: The number of tables that are open
table locks immediate	mysql.tables.locks_immediate	Avg	long	Table_locks_immediate: The number of times that a request for a table lock could be granted immediately

Metric Name	Key	Agg	Type	Description
innodb buffer pool bytes dirty	mysql.innodb.buffer_pool_bytes_dirty:	Avg	Long	The total current number of bytes held in dirty pages in the InnoDB buffer pool

Metric Name	Key	Agg	Type	Description
innodb buffer pool reads	mysql.innodb.buffer_reads	Sum	Long	Innodb_buffer_pool_reads: The number of logical reads that InnoDB could not satisfy from the buffer pool, and had to read directly from the disk

Metric Name	Key	Agg	Type	Description
innodb buffer pool pages free	mysql.innodb.buffer_pool_pages_free	Avg	Long	The number of free pages in the InnoDB buffer pool
innodb buffer pool pages total	mysql.innodb.buffer_pool_pages_total	Avg	Long	The total size of the InnoDB buffer pool, in pages

Metric Name	Key	Agg	Type	Description
innodb_buffer_pool_read_ahead_evicted	mysql.innodb.buffer.read_ahead_evicted	Sum	Long	The number of pages read into the InnoDB buffer pool by the read-ahead background thread that were subsequently evicted without having been accessed by queries. This variable was added in MySQL 5.1.41

Metric Name	Key	Agg	Type	Description
innodb.buffer_pool_pages_dirty:	mysql.innodb.buffer_pool_pages_dirty	Avg	Long	The current number of dirty pages in the InnoDB buffer pool
innodb.buffer_pool_write_requests:	mysql.innodb.buffer_pool_write_requests	Sum	Long	The number writes done to the InnoDB buffer pool

Metric Name	Key	Agg	Type	Description
innodb buffer pool pages misc	mysql.innodb_buffer_pool_pages_misc	Avg	Long	mysql.innodb_buffer_pool_pages_misc: The number of pages in the InnoDB buffer pool that are busy because they have been allocated for administrative overhead, such as row locks or the adaptive hash index

Metric Name	Key	Agg	Type	Description
innodb buffer pool pages flushed	mysql.innodb.buffer_pages_flushed	Sum	Long	Indicates the number of requests to flush pages from the InnoDB buffer pool
innodb buffer pool size	mysql.innodb.buffer_size	Avg	Long	innodb_buffer_pool_size: The size in bytes of the buffer pool, the memory area where InnoDB caches table and index data

Metric Name	Key	Agg	Type	Description
innodb buffer pool read ahead	mysql.innodb.buffer.read_ahead	Sum	Long	mysql.innodb.buffer_pool_read_ahead: The number of pages read into the InnoDB buffer pool by the read-ahead background thread. This variable was added in MySQL 5.1.41

Metric Name	Key	Agg	Type	Description
innodb buffer pool read ahead seq	mysql.innodb.buffer_read_ahead_seq	Sum	Long	Innodb_buffer_pool_read_ahead_seq: The number of sequential read-aheads initiated by InnoDB. This happens when InnoDB does a sequential full table scan

Metric Name	Key	Agg	Type	Description
innodb buffer pool bytes data	mysql.innodb.buffer_pool_bytes_data:	Avg	Long	The total number of bytes in the InnoDB buffer pool containing data. The number includes both dirty and clean pages

Metric Name	Key	Agg	Type	Description
innodb buffer pool read ahead rnd	mysql.innodb.buffer_pool_read_ahead_rnd	Sum	Long	Innodb_buffer_pool_read_ahead_rnd: The number of “random” read-aheads initiated by InnoDB. This happens when a query scans a large portion of a table but in random order

Metric Name	Key	Agg	Type	Description
innodb_buffer_pool_wait_free	mysql.innodb.buffer_pool_wait_free	Sum	Long	Normally, writes to the InnoDB buffer pool happen in the background. However, if it is necessary to read or create a page and no clean pages are available, it is also necessary to wait for pages to be flushed first. This counter

Metric Name	Key	Agg	Type	Description
innodb buffer pool read requests	mysql.innodb.buffer_pool_read_requests	Sum	Long	The number of logical read requests
innodb buffer pool pages data	mysql.innodb.buffer_pool_pages_data	Avg	Long	The number of pages in the InnoDB buffer pool containing data. The number includes both dirty and clean pages

Metric Name	Key	Agg	Type	Description
innodb_read_ahead_threshold	mysql.innodb_read_ahead_threshold	Avg	Long	innodb_read_ahead_threshold: Controls the sensitivity of linear read-ahead that InnoDB uses to prefetch pages into the buffer pool. The permissible range of values is 0 to 64. The default is 56: InnoDB must read at least 56 pages sequentially

Metric Name	Key	Agg	Type	Description
innodb.row_lock_waits	mysql.innodb.row_lock_waits	Sum	Long	mysql.innodb.row_lock_waits: The number of times a row lock had to be waited for
innodb.data_pending_writes	mysql.innodb.data_pending_writes	Avg	Long	mysql.innodb.data_pending_writes: The current number of pending writes
innodb.page_size	mysql.innodb.page_size	Last	Long	mysql.innodb.page_size: The compiled-in InnoDB page size (default 16KB)

Metric Name	Key	Agg	Type	Description
innodb_pages_written	mysql.innodb.pages.written	Sum	Long	mysql.innodb.pages.written: The number of pages written
innodb_data_read	mysql.innodb.data.read	Sum	Long	mysql.innodb.data.read: The amount of data read
innodb_os_log_pending_writes	mysql.innodb.log.pending_writes	Average	Long	mysql.innodb.log.pending_writes: The number of pending log file writes
innodb_pages_read	mysql.innodb.pages.read	Sum	Long	mysql.innodb.pages.read: The number of pages read

Metric Name	Key	Agg	Type	Description
innodb row lock time avg	mysql.innodb.row_lock_time_avg	Avg	Double	Innodb row lock time avg: The average time to acquire a row lock
innodb log write requests	mysql.innodb.log_write_requests	Sum	Long	Innodb log write requests: The number of log write requests

Metric Name	Key	Agg	Type	Description
innodb log buffer size	mysql.innodb_log_buffer_size	Avg	Log	The size in bytes of the buffer that InnoDB uses to write to the log files on disk. The default value is 8MB. A large log buffer enables large transactions to run without a need to write the log to disk before the trans-

Metric Name	Key	Agg	Type	Description
innodb data reads	mysql.innodb.data.reads	Sum	Load	Innodb_data_reads: The number of data reads
innodb data pending reads	mysql.innodb.data.pending_reads	Avg	Load	Innodb_data_pending_reads: The current number of pending reads
innodb log file size	mysql.innodb.log_file_size	Avg	Load	Innodb_log_file_size: The size in bytes of each log file in a log group

Metric Name	Key	Agg	Type	Description
innodb_os_log_pending_fsyncs	mysql.innodb.os_log_pending_fsyncs	Avg	Log	Innodb_os_log_pending_fsyncs: The number of pending log file fsync() operations
innodb_log_writes	mysql.innodb.log_writes	Sum	Log	Innodb_log_writes: The number of physical writes to the log file
innodb_pages_created	mysql.innodb.pages_created	Sum	Log	Innodb_pages_created: The number of pages created

Metric Name	Key	Agg	Type	Description
innodb row lock time max	mysql.innodb.row_lock_time_max	Avg	Long	Innodb_row_lock_time_max: The maximum time to acquire a row lock
innodb data written	mysql.innodb.data_written	Sum	Long	Innodb_data_written: The amount of data written in bytes
innodb data fsyncs	mysql.innodb.data_fsyncs	Sum	Long	Innodb_data_fsyncs: The number of fsync() operations

Metric Name	Key	Agg	Type	Description
innodb.row_lock_current_waits	mysql.innodb.row_lock_current_waits	Avg	Long	The number of row locks currently being waited for
innodb.data_pending_fsyncs	mysql.innodb.data_pending_fsyncs	Avg	Long	The current number of pending fsync() operations
innodb.row_lock_time	mysql.innodb.row_lock_time	Sum	Long	The total time spent in acquiring row locks

Metric Name	Key	Agg	Type	Description
innodb_os_log_written	mysql.innodb_os_log_written	Sum	Long	The number of bytes written to the log file
innodb_dblwr_pages_written	mysql.innodb_dblwr_pages_written	Sum	Long	The number of pages that have been written for doublewrite operations

Metric Name	Key	Agg	Type	Description
innodb dblwr writes	mysql.innodb_pages_written_dblwr_writes:	Sum	Long	The number of doublewrite operations that have been performed

Metric Name	Key	Agg	Type	Description
innodb log waits	mysql.innodb.log_waits	Sum	Long	Innodb_log_waits: The number of times that the log buffer was too small and a wait was required for it to be flushed before continuing

Metric Name	Key	Agg	Type	Description
innodb_rows_inserted	mysql.innodb.rows.inserted	Sum	Long	Innodb_rows_inserted: The number of rows inserted into InnoDB tables
innodb_os_log_fsyncs	mysql.innodb.os.log.fsyncs	Sum	Long	Innodb_os_log_fsyncs: The number of fsync() writes done to the log file
innodb_rows_deleted	mysql.innodb.rows.deleted	Sum	Long	Innodb_rows_deleted: The number of rows deleted from InnoDB tables

Metric Name	Key	Agg	Type	Description
innodb_data_writes	mysql.innodb.data.writes	Sum	Long	innodb_data_writes: The number of data writes
innodb_rows_read	mysql.innodb.rows.read	Sum	Long	Innodb_rows_read: The number of rows read from InnoDB tables
innodb_rows_updated	mysql.innodb.rows.updated	Sum	Long	Innodb_rows_updated: The number of rows updated in InnoDB tables

Metric Name	Key	Agg	Type	Description
select range check	mysql.queries.select_range_check	Sum	Long	Select_range_check: The number of joins without keys that check for key usage after each row. If this is not 0, you should carefully check the indexes of your tables

Metric Name	Key	Agg	Type	Description
queries	mysql.queries	sum	Long	Queries: The number of statements executed by the server. This variable includes statements executed within stored programs, unlike the Questions variable. It does not count COM_PING or COM_STATISTICS commands. This variable was added in MySQL 5.0.76

Metric Name	Key	Agg	Type	Description
select scan	mysql.queries.select_scan	Summary	Long	select_scan: The number of joins that did a full scan of the first table

Metric Name	Key	Agg	Type	Description
slow queries	mysql.queries.slow	Sum	Long	Slow_queries: The number of queries that have taken more than long_query_time seconds. This counter increments regardless of whether the slow query log is enabled

Metric Name	Key	Agg	Type	Description
not flushed delayed rows	mysql.queries.not_flushed_delayed_rows	Average	Long	Not_flushed_delayed_rows: The number of rows waiting to be written in INSERT DELAYED queues
sort scan	mysql.queries.sort_scan	Sum	Long	Sort_scan: The number of sorts that were done by scanning the table

Metric Name	Key	Agg	Type	Description
select full join	mysql.queries.select_full_join	sum	long	select_full_join: The number of joins that perform table scans because they do not use indexes. If this value is not 0, you should carefully check the indexes of your tables

Metric Name	Key	Agg	Type	Description
sort rows	mysql.queries.sort_rows	sum	long	Sort_rows: The number of sorted rows

Metric Name	Key	Agg	Type	Description
sort merge passes	mysql.queries.sort_merge_passes	Series	Long	Sort_merge_passes: The number of merge passes that the sort algorithm has had to do. If this value is large, you should consider increasing the value of the sort_buffer_size system variable

Metric Name	Key	Agg	Type	Description
select full range join	mysql.queries.select_full_range_join	Sum	Long	The number of joins that used a range search on a reference table

Metric Name	Key	Agg	Type	Description
select range	mysql.queries.select_range	Sum	Long	Select range: The number of joins that used ranges on the first table. This is normally not a critical issue even if the value is quite large

Metric Name	Key	Agg	Type	Description
delayed in-sert threads	mysql.queries.delayed_insert_threads	Average	Long	Delayed_insert_threads: The num-ber of IN-SERT DE-LAYED han-dler threads in use

Metric Name	Key	Agg	Type	Description
max prepared stmt count	mysql.queries.max_prepared_stmt_count	Average	Long	max_prepared_stmt_count: This variable limits the total number of prepared statements in the server. (The sum of the number of prepared statements across all sessions)

Metric Name	Key	Agg	Type	Description
long query time	mysql.queries.slow_time	Avg	Double	Long_query_time: If a query takes longer than this many seconds, the server increments the Slow_queries status variable. If you are using the log-slow-queries option, the query is logged to the slow query log file. This value is measured in real time, not
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Metric Name	Key	Agg	Type	Description
max length for sort data	mysql.queries.long_query_time	Average	Long	config_max_length_for_sort_data: The cut-off on the size of in-dex val-ues that de-ter-mines which file-sort al-go-rithm to use

Metric Name	Key	Agg	Type	Description
delayed_errors	mysql.queries.delayed_errors	Sum	Long	Delayed_errors: The number of rows written with INSERT DELAYED for which some error occurred (probably duplicate key)
sort_range	mysql.queries.sort_range	Sum	Long	Sort_range: The number of sorts that were done using ranges

Metric Name	Key	Agg	Type	Description
sort buffer size	mysql.queries.sort_buffer_size	Avg	Long	sort_buffer_size: Each session that needs to do a sort allocates a buffer of this size. sort_buffer_size is not specific to any storage engine and applies in a general manner for optimization. If you see many Sort_merge_passes per second, you can con-

Metric Name	Key	Agg	Type	Description
questions	mysql.queries	Sum	Long	Questions: The number of statements executed by the server. As of MySQL 5.0.72, this includes only statements sent to the server by clients and no longer includes statements executed within stored programs, unlike the Queries variable. This variable does not

Metric Name	Key	Agg	Type	Description
prepared stmt count	mysql.queries.prepared_stmt_count	Average	Long	Prepared_stmt_count: The current number of prepared statements. (The maximum number of statements is given by the max_prepared_stmt_count system variable)

Metric Name	Key	Agg	Type	Description
max sort length	mysql.queries.long_sort_max_sort_length	Average	long	max_sort_length: The number of bytes to use when sorting data values. Only the first max_sort_length bytes of each value are used; the rest are ignored

Metric Name Key	Agg	Type	Description
delayed_writes	mysql.queries.insert_delayed	Long	Delayed_writes: The number of INSERT DELAYED rows written

Metric Name	Key	Agg	Type	Description
binlog stmt cache size	mysql.binlog_stmt_cache_size	Avg	Int	binlog_stmt_cache_size: Beginning with MySQL 5.5.9, this variable determines the size of the cache for the binary log to hold nontransactional statements issued during a transaction. In MySQL 5.5.3 and later, separate binary log trans-

Metric Name	Key	Agg	Type	Description
binlog cache use	mysql.binlog.cache_use	Sum	Long	Binlog_cache_use: The number of transactions that used the temporary binary log cache

Metric Name	Key	Agg	Type	Description
slave retried transactions	mysql.replication.slave_retried_transactions	Sum	Long	Slave retried transactions: The total number of times since startup that the replication slave SQL thread has retried transactions

Metric Name	Key	Agg	Type	Description
slave sql running	mysql.replication.slave_sql_running	Avg	Double	Slave_SQL_Running: Whether the SQL thread is started. Value 1 means YES, value 0 means NO. Decimal value between 0 and 1 means that in monitored time period SQL thread was at some points running and at other points not running.

Metric Name	Key	Agg	Type	Description
binlog_stmt_cache_disk_use	mysql.binlog.stmt.cache.disk.use	Sum	Long	Binlog_stmt_cache_disk_use: The number of non-transaction statements that used the binary log statement cache but that exceeded the value of binlog_stmt_cache_size and used a temporary file to store those statements

Metric Name	Key	Agg	Type	Description
slave received heartbeats	mysql.repl.slave_received_heartbeats	Sum	Long	Slave_received_heartbeats: This counter increments with each replication heartbeat received by a replication slave since the last time that the slave was restarted or reset, or a CHANGE MASTER TO statement was issued

Metric Name	Key	Agg	Type	Description
seconds behind master	mysql.repl.seconds_behind_master	Avg	Level	Seconds_Behind_Master: This field is an indication of how “late” the slave is. In essence, this field measures the time difference in seconds between the slave SQL thread and the slave I/O thread. If the network connection between master and

Metric Name	Key	Agg	Type	Description
slave open temp tables	mysql.replication.slave_open_temp_tables	Avg	Long	Slave_open_temp_tables: The number of temporary tables that the slave SQL thread currently has open. If the value is greater than zero, it is not safe to shut down the slave

Metric Name	Key	Agg	Type	Description
binlog cache size	mysql.binlog.cache_size	Avg	Long	binlog_cache_size: The size of the cache to hold the SQL statements for the binary log during a transaction. A binary log cache is allocated for each client if the server supports any transactional storage engines and if the server has

Metric Name	Key	Agg	Type	Description
slave io running	mysql.replication.slave_io_	Avg.	Double	Slave_IO_Running: Whether the I/O thread is started and has connected successfully to the master. Value 1 means YES, value 0 means NO. Decimal value between 0 and 1 means that in monitored time period I/O thread was at some points running

Metric Name	Key	Agg	Type	Description
slave heartbeat period	mysql.replication.slave_heartbeat_period	Avg	Double	Shows the replication heartbeat interval on a replication slave

Metric Name Key	Agg	Type	Description
binlog cache disk use	mysql.binlog.cache.disk_use	Single	Binlog_cache_disk_use: The number of transactions that used the temporary binary log cache but that exceeded the value of binlog_cache_size and used a temporary file to store statements from the transaction

Metric Name	Key	Agg	Type	Description
binlog stmt cache use	mysql.binlog.stmt_cache_use	Sum	Long	Binlog_stmt_cache_use: The number of non-transactional statements that used the binary log statement cache
thread cache size	mysql.threads.cached	Avg	Long	Threads_cached: How many threads the server should cache for reuse

Metric Name	Key	Agg	Type	Description
max connections	mysql.connections	Avg	Long	Max_used_connections: The maximum permitted number of simultaneous client connections
opened files	mysql.files	Sum	myLong	Opened_files: The number of files that have been opened with my_open()

Metric Name	Key	Agg	Type	Description
created_tmp_files	mysql.files.tmp_created	Sum	Long	Created_tmp_files: How many temporary files mysqld has created
uptime	mysql.uptime	Avg	Long	Uptime: The number of seconds that the server has been up

Metric Name	Key	Agg	Type	Description
max used connections	mysql.connections.max_used	Avg	long	Max_used_connections: The maximum number of connections that have been in use simultaneously since the server started

Metric Name	Key	Agg	Type	Description
max user connections	mysql.conf.max_user_connections	Avg	Long	max_user_connections: The maximum number of simultaneous connections permitted to any given MySQL user account

Metric Name	Key	Agg	Type	Description
aborted_connects	mysql.connections.failed	Sum	Long	Aborted_connects: The number of failed attempts to connect to the MySQL server
threads_connected	mysql.threads.connected	Avg	Long	Threads_connected: The number of currently open connections

Metric Name	Key	Agg	Type	Description
open files	mysql.files.open	Avg	Long	Open_files: The number of files that are open. This count includes regular files opened by the server
uptime since flush	mysql.uptime_since_flush	Avg	Long	Uptime_since_flush_status: The number of seconds since the most recent FLUSH STATUS statement

Metric Name	Key	Agg	Type	Description
slow launch threads	mysql.threads.slow_launch	Sum	Long	Slow_launch_threads: The number of threads that have taken more than slow_launch_time seconds to create

Metric Name	Key	Agg	Type	Description
threads cre- ated	mysql.threads_created	Sum	Long	Threads_created: The num- ber of threads cre- ated to han- dle con- nec- tions. If Threads_created is big, you may want to in- crease the thread_cache_size value
thread stack	mysql.thread_stack	Avg	Long	thread_stack: The stack size for each thread

Metric Name	Key	Agg	Type	Description
threads running	mysql.threads_running	Avg	Long	Threads_running: The number of threads that are not sleeping
open streams	mysql.open_streams	Avg	Long	Open_streams: The number of streams that are open (used mainly for logging)

Metric Name	Key	Agg	Type	Description
aborted_clients	mysql.connections	Sum	Long	Aborted_clients: The number of connections that were aborted because the client died without closing the connection properly
threads_cached	mysql.threads	Avg	Long	Threads_cached: The number of threads in the thread cache

Metric Name	Key	Agg	Type	Description
replace	mysql.com_replace	Summation	long	Com_replace: The number of times REPLACE command has been executed
drop user	mysql.com_drop_user	Summation	long	Com_drop_user: The number of times DROP USER command has been executed

Metric Name	Key	Agg	Type	Description
update multi	mysql.com_update_multi	Summation	Long	Com_update_multi: The number of times UPDATE command with multiple-table syntax has been executed
create table	mysql.com_create_table	Summation	Long	Com_create_table: The number of times CREATE TABLE command has been executed

Metric Name	Key	Agg	Type	Description
insert_select	mysql.command.insert_select	Sum	Long	Count: insert_select: The number of times INSERT with SELECT command has been executed
replace_select	mysql.command.replace_select	Sum	Long	Count: replace_select: The number of times REPLACE with SELECT command has been executed

Metric Name	Key	Agg	Type	Description
drop table	mysql.com_drop_table	Sum	Long	Count of drop_table: The number of times DROP TABLE command has been executed
update	mysql.com_update	Sum	Long	Count of update: The number of times UPDATE command has been executed

Metric Name	Key	Agg	Type	Description
delete	mysql.com_delete	Summation	Long	The number of times DELETE command has been executed
rollback	mysql.com_rollback	Summation	Long	The number of times ROLLBACK command has been executed

Metric Name	Key	Agg	Type	Description
rollback to savepoint	mysql.com_rollback_to_savepoint	Summation	Long	Com_rollback_to_savepoint: The number of times ROLLBACK TO SAVEPOINT command has been executed
drop DB	mysql.com_drop_db	Summation	Long	Com_drop_db: The number of times DROP DATABASE command has been executed

Metric Name	Key	Agg	Type	Description
create user	mysql.command.create_user	Sum	Long	Gauge: create_user: The number of times CREATE USER command has been executed
create DB	mysql.command.create_db	Sum	Long	Gauge: create_db: The number of times CREATE DATABASE command has been executed

Metric Name	Key	Agg	Type	Description
insert	mysql.com_insert	Summation	Long	Com_insert: The number of times INSERT command has been executed
commit	mysql.com_commit	Summation	Long	Com_commit: The number of times COMMIT command has been executed

Metric Name	Key	Agg	Type	Description
load	mysql.command.load	Sum	Long	Com_load: The number of times LOAD command has been executed
delete multi	mysql.command.delete_multi	Sum	Long	Com_delete_multi: The number of times DELETE command with multiple-table syntax has been executed

Metric Name	Key	Agg	Type	Description
select	mysql.command.select	Sum	Long	Com_select: The number of times SELECT command has been executed
free cache memory	mysql.cache.bytes_free	Avg	Bytes	Qcache_free_memory: The amount of free memory for the query cache
free blocks	mysql.cache.blocks.free	Avg	Locks	Qcache_free_blocks: The number of free memory blocks in the query cache

Metric Name	Key	Agg	Type	Description
inserts	mysql.cache.queries.inserts	Sum	Queries	Qcache_inserts: The number of queries added to the query cache
queries not cached	mysql.cache.queries.not_cached	Sum	Queries	Qcache_not_cached: The number of non-cached queries (not cacheable, or not cached due to the query_cache_type setting)

Metric Name	Key	Agg	Type	Description
queries in cache	mysql.cache.queries_in_cache	Avg	Long	Qcache_queries_in_cache: The number of queries registered in the query cache
hits	mysql.cache.hits	Sum	Long	Qcache_hits: The number of query cache hits
total blocks	mysql.cache.blocks	Avg	Long	Qcache_total_blocks: The total number of blocks in the query cache

Metric Name	Key	Agg	Type	Description
lowmem prunes	mysql.cache.lowmem_prunes	Sum	Long	Query_cache_lowmem_prunes: The number of queries that were deleted from the query cache because of low memory

Metric Name	Key	Agg	Type	Description
query cache size	mysql.cache.bytes	Avg	bytes	query_cache_size: The amount of memory allocated for caching query results. The default value is 0, which disables the query cache
bytes received	mysql.traffic.rx.bytes	Sum	bytes	Bytes_received: The number of bytes received from all clients

Metric Name	Key	Agg	Type	Description
bytes sent	mysql.traffic.bytes_sent	Sum	Long	Bytes_sent: The number of bytes sent to all clients
key reads	mysql.myisam.key_reads	Sum	Long	Key_reads: The number of physical reads of a key block from disk. If Key_reads is large, then your key_buffer_size value is probably too small

Metric Name	Key	Agg	Type	Description
key buffer size	mysql.myisam.key_buffer_size	Avg	Long	key_buffer_size: Index blocks for MyISAM tables are buffered and are shared by all threads. key_buffer_size is the size of the buffer used for index blocks. The key buffer is also known as the key cache. The value of this variable indicates the amount of mem-
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Metric Name	Key	Agg	Type	Description
key writes	mysql.myisam.key_writes	Sum	Long	Key_writes: The number of physical writes of a key block to disk

Metric Name Key	Agg	Type	Description
key cache age threshold	Avg	Long	mysql.myisam.key_cache_age_threshold: This value controls the demotion of buffers from the hot sublist of a key cache to the warm sublist. Lower values cause demotion to happen more quickly

Metric Name	Key	Agg	Type	Description
key read requests	mysql.myisam.key_read_requests	Sum	Long	Key_read_requests: The number of requests to read a key block from the cache

Metric Name Key	Agg	Type	Description
key blocks unused	avg	long	mysql.myisam.key_blocks_unused: The number of unused blocks in the key cache. You can use this value to determine how much of the key cache is in use

Metric Name	Key	Agg	Type	Description
key blocks not flushed	mysql.myisam.key_blocks_not_flushed	Avg	Long	Key_blocks_not_flushed: The number of key blocks in the key cache that have changed but have not yet been flushed to disk
key write requests	mysql.myisam.key_write_requests	Sum	Long	Key_write_requests: The number of requests to write a key block to the cache

Metric Name Key	Agg	Type	Description
key blocks used	avg	long	mysql.myisam.key_blocks_used: The number of used blocks in the key cache. This value is a high-water mark that indicates the maximum number of blocks that have ever been in use at one time

Metric Name Key	Agg	Type	Description
key cache block size	mysql.myisam.key_cache_block_size	Long	key_cache_block_size: The size in bytes of blocks in the key cache
handler roll-back	mysql.handler.rollback	Long	Handler_rollback: The number of requests for a storage engine to perform a rollback operation

Metric Name	Key	Agg	Type	Description
handler read first	mysql.handler.read.first	Sum	Count	Handler_read_first: The number of times the first entry in an index was read. If this value is high, it suggests that the server is doing a lot of full index scans; for example, SELECT col1 FROM foo, assuming that col1 is

Metric Name	Key	Agg	Type	Description
handler read key	mysql.handler.read.key	Sum	Long	Handler_read_key: The number of requests to read a row based on a key. If this value is high, it is a good indication that your tables are properly indexed for your queries

Metric Name	Key	Agg	Type	Description
handler read next	mysql.handler.read.next	Sum	Long	Handler_read_next: The number of requests to read the next row in key order. This value is incremented if you are querying an index column with a range constraint or if you are doing an index scan

Metric Name	Key	Agg	Type	Description
handler_savepoint	mysql.handler.savepoint	Sum	Long	Handler_savepoint: The number of requests for a storage engine to place a savepoint
handler_delete	mysql.handler.delete	Sum	Long	Handler_delete: The number of times that rows have been deleted from tables

Metric Name	Key	Agg	Type	Description
handler_write	mysql.handler.write	Sum	Long	Handler_write: The number of requests to insert a row in a table
handler_update	mysql.handler.update	Sum	Long	Handler_update: The number of requests to update a row in a table

Metric Name	Key	Agg	Type	Description
handler_prepare	mysql.handler_prepare	Sum	Long	Handler_prepare: A counter for the prepare phase of two-phase commit operations

Metric Name	Key	Agg	Type	Description
handler read rnd	mysql.handler.read.rnd	Sum	Long	Handler_read_rnd: The number of requests to read a row based on a fixed position. This value is high if you are doing a lot of queries that require sorting of the result. You probably have a lot of queries that require

Metric Name	Key	Agg	Type	Description
handler read last	mysql.handler.read.last	Sum	Count	Handler_read_last: The number of requests to read the last key in an index. With ORDER BY, the server will issue a first-key request followed by several next-key requests, whereas with With ORDER BY DESC, the server will issue a

Metric Name	Key	Agg	Type	Description
handler savepoint rollback	mysql.handler_savepoint_rollback	Sum	Long	Handler_savepoint_rollback: The number of requests for a storage engine to roll back to a savepoint

Metric Name	Key	Agg	Type	Description
handler_discover	mysql.handler.discover	Sum	Long	Handler_discover: The MySQL server can ask the NDB-CLUSTER storage engine if it knows about a table with a given name. This is called discovery. Handler_discover indicates the number of times that tables have been discovered using this

Metric Name	Key	Agg	Type	Description
handler read prev	mysql.handler.read.prev	Sum	Long	Handler_read_prev: The number of requests to read the previous row in key order. This read method is mainly used to optimize ORDER BY ... DESC

Metric Name	Key	Agg	Type	Description
handler read rnd next	mysql.handler.read.rnd_next	Sum	Long	Handler_read_rnd_next: The number of requests to read the next row in the data file. This value is high if you are doing a lot of table scans. Generally this suggests that your tables are not properly indexed or that your queries are

Metric Name	Key	Agg	Type	Description
handler_commit	mysql.handler.commit	Sum	Long	Handler_commit: The number of internal COMMIT statements