

Integration

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

Metrics

Metric				
Name	Key	Agg	Type	Description
openedmysql.tables_definition				
openedmysql.tables_definition				opened table definitions:
ta-				The
ble				num-
def-				ber
ini-				of
tions				.frm
				files
				that
				have
				been
				cached

Metric				
Name	Key	Agg	Type	Description
created_tmp_tables	mysql.Sizes	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 com- mands	mysql. table. flush	count	long	Flush_commands: The num- ber of times the server flushes ta- bles, whether be- cause a user exe- cuted a FLUSH TA- BLES state- ment or due to in- ter- nal server op- era- tion

Metric				
Name	Key	Agg	Type	Description
table_locks_waited	mysql.Slaves	sum	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
openedmysql. ta- bles	Tables.Opened	avg	Opened_tables	<p>The number of tables that have been opened. If Opened_tables is big, your table_open_cache value is probably too small</p>

Metric				
Name	Key	Agg	Type	Description
table definition cache	mysql.table_definition_cache	Avg	Integer	definition_cache: 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	mysql.tables_definition	avg	long	Openable definitions:
ta-				The
ble				num-
def-				ber
ini-				of
tions				cached
				.frm
				files

Metric				
Name	Key	Agg	Type	Description
table open cache	mysql.table	avg	long	<p>table_open_cache:</p> <p>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</p>

Metric				
Name	Key	Agg	Type	Description
created_tmp_disk_tables	mysql.CPU	sum	long	Created tmp disk tables:
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 ta- bles	mysql.tables_open	avg	long	Open_tables: The num- ber of ta- bles that are open
table locks im- me- di- ate	mysql.table_locks_immediate	sum	long	Table_locks_immediate: The num- ber of times that a re- quest for a ta- ble lock could be granted im- me- di- ately

Metric				
Name	Key	Agg	Type	Description
innodbmysql_innodb_buffer_pool_bytes_dirty		avg	Long	buffer_pool_bytes_dirty:
buffer				The
pool				to-
bytes				tal
dirty				cur-
				rent
				num-
				ber
				of
				bytes
				held
				in
				dirty
				pages
				in
				the
				Inn-
				oDB
				buffer
				pool

Metric	Name	Key	Agg	Type	Description
innodbmysql.SumofInnoDB_buffer_pool_reads	innodbmysql.SumofInnoDB_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
innodbmysql_avgdbbuffer_pool_pages_free		Long	Pages	innodb_buffer_pool_pages_free:
buffer pool pages free				The number of free pages in the Inn-oDB buffer pool
innodbmysql_avgdbbuffer_pool_pages_total		Long	Pages	innodb_buffer_pool_pages_total:
buffer pool pages total				The total size of the Inn-oDB buffer pool, in pages

Metric				
Name	Key	Agg	Type	Description
innodbmysql.Smemblufferheadtheadevictpool_read_ahead_evicted:				
buffer				The
pool				num-
read				ber
ahead				of
evicted				pages
				read
				into
				the
				Inn-
				oDB
				buffer
				pool
				by
				the
				read-
				ahead
				back-
				ground
				thread
				that
				were
				sub-
				se-
				quently
				evicted
				with-
				out
				hav-
				ing
				been
				ac-
				cessed
				by
				queries.
				This
				vari-
				able
				was
				added
				in
				MySQL
				5.1.41

Metric				
Name	Key	Agg	Type	Description
innodbmysql.AvgInnoDBBufferPagesDirty			Long	buffer_pool_pages_dirty:
buffer				The
pool				cur-
pages				rent
dirty				num-
				ber
				of
				dirty
				pages
				in
				the
				Inn-
				oDB
				buffer
				pool
innodbmysql.SumInnoDBBufferWriteRequests			Long	buffer_pool_write_requests:
buffer				The
pool				num-
write				ber
re-				writes
quests				done
				to
				the
				Inn-
				oDB
				buffer
				pool

Metric				
Name	Key	Agg	Type	Description
innodbmysql_avgdbbuffer_pages_misc:				
buffer pool pages misc				The number of pages in the Inn-oDB 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
innodbmysql.Sumdb_buffer_pages_flushed:				
buffer pool pages flushed				The number of requests to flush pages from the Inn-oDB buffer pool
innodbmysql.Avgdb_buffer_size:				
buffer pool size				The size in bytes of the buffer pool, the memory area where Inn-oDB caches table and index data

Metric				
Name	Key	Agg	Type	Description
innodbmysql.Smemblongbufferheadtheadbuffer_pool_read_ahead:				
buffer				The
pool				num-
read				ber
ahead				of
				pages
				read
				into
				the
				Inn-
				oDB
				buffer
				pool
				by
				the
				read-
				ahead
				back-
				ground
				thread.
				This
				vari-
				able
				was
				added
				in
				MySQL
				5.1.41

Metric				
Name	Key	Agg	Type	Description
innodbmysql.Simdbbufferheadbuffer_pool_read_ahead_seq:				
buffer				The
pool				num-
read				ber
ahead				of
seq				se-
				quen-
				tial
				read-
				aheads
				ini-
				ti-
				ated
				by
				Inn-
				oDB.
				This
				hap-
				pens
				when
				Inn-
				oDB
				does
				a
				se-
				quen-
				tial
				full
				ta-
				ble
				scan

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Metric				
Name	Key	Agg	Type	Description
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innodbmysql_avgdbbuffer_bytes_data			Long	buffer_pool_bytes_data:
buffer				The
pool				to-
bytes				tal
data				num-
				ber
				of
				bytes
				in
				the
				Inn-
				oDB
				buffer
				pool
				con-
				tain-
				ing
				data.
				The
				num-
				ber
				in-
				cludes
				both
				dirty
				and
				clean
				pages

Metric				
Name	Key	Agg	Type	Description
innodbmysql.Smudblonger headthe buffer pool_read_ahead_rnd:				
buffer				The
pool				num-
read				ber
ahead				of
rnd				“ran-
				dom”
				read-
				aheads
				ini-
				ti-
				ated
				by
				Inn-
				oDB.
				This
				hap-
				pens
				when
				a
				query
				scans
				a
				large
				por-
				tion
				of a
				ta-
				ble
				but
				in
				ran-
				dom
				or-
				der

Metric				
Name	Key	Agg	Type	Description
innodbmysql.Slowlogbuffer_wait_free:				
buffer				Nor-
pool				mally,
wait				writes
free				to
				the
				Inn-
				oDB
				buffer
				pool
				hap-
				pen
				in
				the
				back-
				ground.
				How-
				ever,
				if it
				is
				nec-
				es-
				sary
				to
				read
				or
				cre-
				ate
				a
				page
				and
				no
				clean
				pages
				are
				avail-
				able,
				it is
				also
				nec-
				es-
				sary
				to
				wait
				for
				pages
				to
				be
				flushed
				first.
				This
				counter

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Metric				
Name	Key	Agg	Type	Description
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innodbmysql.SumdbBufferHeaderRequests	buffer_header_requests			buffer_pool_read_requests:
buffer				The
pool				num-
read				ber
re-				of
quests				logi-
				cal
				read
				re-
				quests
innodbmysql.AvgdbBufferPagesInData	buffer_pages_in_data			buffer_pool_pages_data:
buffer				The
pool				num-
pages				ber
data				of
				pages
				in
				the
				Inn-
				oDB
				buffer
				pool
				con-
				tain-
				ing
				data.
				The
				num-
				ber
				in-
				cludes
				both
				dirty
				and
				clean
				pages

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

Metric				
Name	Key	Agg	Type	Description
innodbmysql.SmdbLockWait				innodb_row_lock_waits:
row lock waits				The number of times a row lock had to be waited for
innodbmysql.AvgdbDataWritesPending				innodb_pending_writes:
data pending writes				The current number of pending writes
innodbmysql.AvgdbPageSize				innodb_page_size:
page size				The compiled-in InnoDB page size (default 16KB)

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Metric				
Name	Key	Agg	Type	Description
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innodbmysql.SumodbPagesWritten			Sum	innodb_pages_written:
pages writ- ten				The num- ber of pages writ- ten
innodbmysql.SumodbDataRead			Sum	innodb_data_read:
data read				The amount of data read
innodbmysql.AvgdbLogWrites			Avg	innodb_log_pending_writes:
os log pend- ing writes				The num- ber of pend- ing log file writes
innodbmysql.SumodbPagesRead			Sum	innodb_pages_read:
pages read				The num- ber of pages read

Metric				
Name	Key	Agg	Type	Description
innodbmysql.InnoDBLockAcquiringTimeAvg		avg	double	log_time_avg:
row lock time avg				The average time to acquire a row lock
innodbmysql.SlowLogWriteRequests		sum	long	log_write_requests:
log write requests				The number of log write requests

Metric				
Name	Key	Agg	Type	Description
innodbmysql_log_buffer_size	innodbmysql_log_buffer_size	avg	Long	<p>buffer_size: The size in bytes of the buffer that Inn-oDB uses to write to the log files on disk. The default value is 8MB. A large log buffer enables large trans-actions to run without a need to write the log to disk before the trans-</p>

Metric				
Name	Key	Agg	Type	Description
innodbmysql.Smdb_data_reads		Sum	Int	innodb_data_reads:
data reads				The number of data reads
innodbmysql.Avgdb_data_pending_reads		Avg	Int	innodb_data_pending_reads:
data pending reads				The current number of pending reads
innodbmysql.Avgdb_log_file_size		Avg	Long	innodb_log_file_size:
log file size				The size in bytes of each log file in a log group

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Metric				
Name	Key	Agg	Type	Description
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innodbmysql.AvgdbLogfsyncs		Long	Long	log_pending_fsyncs:
os				The
log				num-
pend-				ber
ing				of
fsyncs				pend-
				ing
				log
				file
				fsync()
				op-
				era-
				tions
innodbmysql.SmdbLogwrites		Long	Long	innodb_log_writes:
log				The
writes				num-
				ber
				of
				phys-
				ical
				writes
				to
				the
				log
				file
innodbmysql.SmdbPagesCreated		Long	Long	innodb_pages_created:
pages				The
cre-				num-
ated				ber
				of
				pages
				cre-
				ated

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Metric				
Name	Key	Agg	Type	Description
<hr/>				
innodbmysql.innodb_log_ahead_time_max:				
row				The
lock				max-
time				i-
max				mum
				time
				to
				ac-
				quire
				a
				row
				lock
innodbmysql.innodb_data_written:				
data				The
writ-				amount
ten				of
				data
				writ-
				ten
				in
				bytes
innodbmysql.innodb_data_fsyncs:				
data				The
fsyncs				num-
				ber
				of
				fsync()
				op-
				era-
				tions

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Metric				
Name	Key	Agg	Type	Description
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innodbmysql.innodb_row_lock_current_waits:				
row lock current waits		Avg	Long	The number of row locks currently being waited for
innodbmysql.innodb_data_pending_fsyncs:		Avg	Long	The current number of pending fsync() operations
innodbmysql.innodb_lock_acquire_time:		Sum	Long	The total time spent in acquiring row locks

Metric				
Name	Key	Agg	Type	Description
innodbmysql.SumdbLogWritten			innodb_os_log_written:	
os log writ- ten				The num- ber of bytes writ- ten to the log file
innodbmysql.SumdbPagesWritten			innodb_dblwr_pages_written:	
dblwr pages writ- ten				The num- ber of pages that have been writ- ten for dou- blewrite op- era- tions

Metric				
Name	Key	Agg	Type	Description
innodbmysql.SumofInnodbPagesWritten	innodbmysql.SumofInnodbPagesWritten	Sum	Long	innodbmysql.SumofInnodbPagesWritten
dblwr_writes	dblwr_writes	Sum	Long	The number of doublewrite operations that have been performed

Metric				
Name	Key	Agg	Type	Description
innodbmysql.SlowLog		Sum	Long	innodb_log_waits:
log				The
waits				num-
				ber
				of
				times
				that
				the
				log
				buffer
				was
				too
				small
				and
				a
				wait
				was
				re-
				quired
				for
				it
				to
				be
				flushed
				be-
				fore
				con-
				tin-
				u-
				ing

Metric				
Name	Key	Agg	Type	Description
innodbmysql.SumofRowsInserted			Sum	innodb_rows_inserted:
rows in- serted				The num- ber of rows in- serted into Inn- oDB ta- bles
innodbmysql.SumofLogfsyncs			Sum	innodb_os_log_fsyncs:
os log fsyncs				The num- ber of fsync() writes done to the log file
innodbmysql.SumofRowsDeleted			Sum	innodb_rows_deleted:
rows deleted				The num- ber of rows deleted from Inn- oDB ta- bles

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Metric				
Name	Key	Agg	Type	Description
<hr/>				
innodbmysql.SucdbIdatg.writes	data			innodb_data_writes:
	writes			The number of data writes
innodbmysql.SucdbIrows.read	rows			innodb_rows_read:
	read			The number of rows read from Inn-oDB tables
innodbmysql.SucdbIrows.updated	rows			innodb_rows_updated:
	up-dated			The number of rows updated in Inn-oDB tables

Metric				
Name	Key	Agg	Type	Description
select range check	mysql.Sun	sum	Isolated	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
queriesmysql.sum	queriesmysql.sum	sum	Long	<p>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</p>

Metric				
Name	Key	Agg	Type	Description
select scan	mysql.Sunies	Is select	Sum	select scan: The number of joins that did a full scan of the first table

Metric				
Name	Key	Agg	Type	Description
slow_queries	mysql.Slow_queries	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 de-layed rows	mysql_queries	sum	Insert_NonFlushedDelayed_rows:	The number of rows waiting to be written in IN-SERT DE-LAYED queues
sort scan	mysql_queries	sum	Sort_scan:	The number of sorts that were done by scanning the table

Metric				
Name	Key	Agg	Type	Description
select full join	mysql.Sun	mysql.Sun	mysql.Sun	mysql.Sun
				fullfull_join:
				The num- ber of joins that per- form ta- ble scans be- cause they do not use in- dexes. If this value is not 0, you should care- fully check the in- dexes of your ta- bles

Metric				
Name	Key	Agg	Type	Description
sort rows	mysql.Sunies	sum	long	Sort_rows: The num- ber of sorted rows

Metric				
Name	Key	Agg	Type	Description
sort merge passes	mysql.Sunies	sum	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	Sum	Isolated	select, select range join: The number of joins that used a range search on a reference table

Metric				
Name	Key	Agg	Type	Description
select range	mysql	sum	series	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
delayedmysql_queries_insert_threads		Avg	Insert	Delayed insert threads: The number of IN-SERT DE-LAYED handler threads in use

Metric				
Name	Key	Agg	Type	Description
max pre- pared stmt count	mysql_queries	avg	long	max_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	avg	Double	<p>slow_log_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</p>

Metric				
Name	Key	Agg	Type	Description
max length for sort data	mysql_queries	avg	long	<p>config.max_length_for_sort_data:</p> <p>The cut-off on the size of index values that determines which file-sort algorithm to use</p>

Metric				
Name	Key	Agg	Type	Description
delayedmysql_errors	mysql.SlavesInsertDelayedErrors	Sum	Integer	Delayed errors: The number of rows written with IN-SERT DE-LAYED for which some error occurred (probably duplicate key)
sort_range	mysql.SlavesSortRange	Sum	Integer	Sort_range: The number of sorts that were done using ranges

Metric				
Name	Key	Agg	Type	Description
sort buffer size	mysql_queries	avg	long	<p>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-</p>

Metric				
Name	Key	Agg	Type	Description

questions	mysql	Sum	Long	Questions:
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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	avg	long	PreparedStatement count:
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	avg	long	<p>config.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</p>

Metric				
Name	Key	Agg	Type	Description
delayedmysql_summaries_insert_delayed_writes	mysql_summaries_insert_delayed_writes	sum	Insert	The number of IN-SERT DE-LAYED rows writ-ten

Metric				
Name	Key	Agg	Type	Description
binlog_stmt_cache_size	mysql_binlog_size	sum	long	stmt_cache_size: Beginning with MySQL 5.5.9, this variable determines the size of the cache for the binary log to hold non-transac-tional state-ments is-sued dur-ing a trans-ac-tion. In MySQL 5.5.3 and later, sep-a-rate bi-nary log trans-ac-

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

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

Metric				
Name	Key	Agg	Type	Description
slave sql run- ning	mysql.slave	avg	Double	Slave_SQL_Running: Whether the SQL thread is started. Value 1 means YES, value 0 means NO. Dec- i- mal value be- tween 0 and 1 means that in mon- i- tored time pe- riod SQL thread was at some points run- ning and at other points not run- ning.

Metric				
Name	Key	Agg	Type	Description
binlog_stmt_cache_disk_use	mysql.Binlog_stmt_cache_disk_use	Sum	Integer	The number of non-trans-action state-ments that used the bi-nary log state-ment cache but that ex-ceeded the value of bin-log_stmt_cache_size and used a tem-porary file to store those state-ments

Metric				
Name	Key	Agg	Type	Description
slave_re-heartbeats	mysql.slave_re-heartbeats	sum	Long	Slaves received heartbeats: This counter increments with each replication heart-beat received by a replication slave since the last time that the slave was restarted or re-set, or a CHANGE MASTER TO statement was issued

Metric				
Name	Key	Agg	Type	Description
seconds be- hind mas- ter	mysql.slave	avg	Long	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 ta- bles	mysql.slave	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	sum	long	binlog_cache_size: The size of the cache to hold the SQL state-ments for the bi-nary log dur-ing a trans-ac-tion. A bi-nary log cache is allo-cated for each client if the server sup-ports any trans-ac-tional stor-age en-gines and if the server has

Metric				
Name	Key	Agg	Type	Description
slave_io_running	mysql.slave_io_running	DOUBLE	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_heart-beat-period	mysql_slave_heart-beat-period	avg	Double	Shows the replication heart-beat interval on a replication slave

Metric				
Name	Key	Agg	Type	Description
binlog_cache_disk_use	mysql.Binlog_cache_disk_use	Sum	Long	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	The number of non-transac-tional state-ments that used the bi-nary log state-ment cache
thread_cache_size	mysql.thread_cache_size	Avg	Long	How many threads the server should cache for reuse

Metric				
Name	Key	Agg	Type	Description
max_connections	mysql.connections	avg	Long	max_connections: The maximum number of permitted simultaneous client connections
opened_files	mysql.open_files	sum	Long	Opened_files: The number of files that have been opened with my_open()

Metric				
Name	Key	Agg	Type	Description
created_tmp_files	mysql.Created_tmp_files	Sum	Long	Created tmp files:
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	connections	Maximum 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.connections	max	user_connections	The maximum number of simultaneous connections permitted to any given MySQL user account

Metric				
Name	Key	Agg	Type	Description
aborted_connections	mysql.connections	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.leg.open	Long		Open_files: The number of files that are open. This count includes regular files opened by the server
uptime since flush	mysql.uptime	Long	Since flush	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.Slow_launch_threads	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_created	mysql.threads_created	Sum	Long	Threads_created: The number of threads created to handle connections. If Threads_created is big, you may want to increase 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	Open_streams: 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	Aborted_clients	The number of connections that were aborted because the client died without closing the connection properly
threads_cached	mysql.threads	avg	Threads_cached	The number of threads in the thread cache

Metric				
Name	Key	Agg	Type	Description
replace	mysql	Sum	Index	drop_replace:
				The number of times REPLACE command has been executed
drop user	mysql	Sum	Index	drop_user:
				The number of times DROP USER command has been executed

Metric				
Name	Key	Agg	Type	Description
updatemysql.SummahdsgpCdn_multi:				
multi				The number of times UP-DATE command with multiple-table syntax has been executed
create mysql.SummahdsgpCdn_multi:				
ta-ble				The number of times CREATE-TABLE command has been executed

Metric				
Name	Key	Agg	Type	Description
insert se- lect	mysql.Summari- zation	Count	Insert	insert_select: The num- ber of times IN- SERT with SE- LECT com- mand has been exe- cuted
replace se- lect	mysql.Summari- zation	Count	Replace	replace_select: The num- ber of times RE- PLACE with SE- LECT com- mand has been exe- cuted

Metric				
Name	Key	Agg	Type	Description
drop ta- ble	mysql.Summary	Index	Countable	drop_table: The num- ber of times DROP TA- BLE com- mand has been exe- cuted
update	mysql.Summary	Index	Countable	update: The num- ber of times UP- DATE com- mand has been exe- cuted

Metric				
Name	Key	Agg	Type	Description
delete	mysql	Summa	Index	Cmd_delete:
				The number of times DELETE command has been executed
rollback	mysql	Summa	Index	Cmd_rollback:
				The number of times ROLLBACK command has been executed

Metric				
Name	Key	Agg	Type	Description
rollback to save-point	mysql_commands	sum	Integer	<p>mysql_commands.rollback_savepoint: The number of times ROLLBACK TO SAVE-POINT command has been executed</p>
drop DB	mysql_commands	sum	Integer	<p>mysql_commands.drop_db: The number of times DROP DATABASE command has been executed</p>

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

Metric				
Name	Key	Agg	Type	Description
insert	mysql	Sum	Index	Com_insert:
				The number of times IN-SERT command has been executed
commit	mysql	Sum	Index	Com_commit:
				The number of times COMMIT command has been executed

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

<hr/>				
Metric				
Name	Key	Agg	Type	Description
<hr/>				
select	mysql.summa	And	select	Com_select:
				The number of times SE-LECT command has been executed
free cache mem-ory	mysql.cache	bytes	free	cache_free_memory:
				The amount of free mem-ory for the query cache
free blocks	mysql.cache	blocks	free	cache_free_blocks:
				The number of free mem-ory blocks in the query cache

Metric				
Name	Key	Agg	Type	Description
insertsmysql.Slave.Queries.Query_cache_inserts:				The number of queries added to the query cache
queriesmysql.Slave.Queries.Query_cache_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	sum	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	sum	Long	Qcache_total_blocks: The total number of blocks in the query cache

Metric				
Name	Key	Agg	Type	Description
lowmem_prunes	mysql.SlowQueryCache	Sum	Long	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_size	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_in	bytes	Bytes_received:	The number of bytes received from all clients

Metric				
Name	Key	Agg	Type	Description
bytes sent	mysql.Slave	Sum	Long	Bytes_sent: The number of bytes sent to all clients
key reads	mysql.Slave	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	mysqlmysam	avg	Long	<p>buffer_size: In- dex blocks for My- ISAM ta- bles are buffered and are shared by all threads. key__buffer_size is the size of the buffer used for in- dex blocks. The key buffer is also known as the key cache. The value of this vari- able in- di- cates the amount of mem-</p>

Metric				
Name	Key	Agg	Type	Description
key writes	mysql.Sy	sum	Long	Key blocks: The num- ber of phys- ical writes of a key block to disk

Metric				
Name	Key	Agg	Type	Description
key read re-quests	mysql.SlowLogKeyReads	sum	Long	The number of re-quests to read a key block from the cache

Metric				
Name	Key	Agg	Type	Description
key blocks un-used	mysql.mysandbox	avg	Long	Keys_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.Variables	Long	Key blocks not flushed	Keys not flushed:
				The number of key blocks in the key cache that have changed but have not yet been flushed to disk
key write re-quests	mysql.Slaves	Long	Key write re-quests	Keys requests:
				The number of re-quests to write a key block to the cache

Metric				
Name	Key	Agg	Type	Description
key blocks used	mysql_keys_used	avg	Long	Keys 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	mysqlmysandbox	avg	Long	key_block_size: The size in bytes of blocks in the key cache
handler_rollback	mysqlmysandbox	sum	Long	Handler_rollback: The number of requests for a storage engine to perform a roll-back operation

Metric				
Name	Key	Agg	Type	Description
handlemysql.Sampler.read_first		Sum	Long	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
handlemysql. read key	Sample read key	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
handlemysql.Sampler Lag.Handler_read_next:	read			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
handlemysql.SamplesLong	SampleLong	Sum	Handler__savepoint:	
save-point				The number of requests for a storage engine to place a save-point
handlemysql.SamplesLong	SampleLong	Sum	Handler__delete:	
delete				The number of times that rows have been deleted from tables

Metric				
Name	Key	Agg	Type	Description
handlemysql. write	Sample	Long	write	Handler_write: The number of requests to insert a row in a table
handlemysql. up-date	Sample	Long	update	Handler_update: The number of requests to update a row in a table

Metric				
Name	Key	Agg	Type	Description
handlemysql. pre-prepare	Sample	Long	Handler_prepare:	A counter for the pre-prepare phase of two-phase commit operations

Metric				
Name	Key	Agg	Type	Description
handler_read_rnd	mysql	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
handlemysql. read last	Sample mysql. read last	Sum	Long	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 ORDER BY DESC, the server will issue a

Metric				
Name	Key	Agg	Type	Description
handlemysql_savepoint_rollback	SampleLongPoint	Sum	Long	The number of requests for a storage engine to roll back to a savepoint

Metric				
Name	Key	Agg	Type	Description
handlemysql.SamplerDiscoverHandler_discover:				
dis-				The
cover				MySQL
				server
				can
				ask
				the
				ND-
				B-
				CLUS-
				TER
				stor-
				age
				en-
				gine
				if it
				knows
				about
				a
				ta-
				ble
				with
				a
				given
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				This
				is
				called
				dis-
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				ta-
				bles
				have
				been
				dis-
				cov-
				ered
				us-
				ing
				this

Metric				
Name	Key	Agg	Type	Description
handlemysql.Sampler.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
handlemysql.SamplerLoadHandler.read_rnd_next	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
handlemysql. com- mit	Sample	Long	Handler_commit:	The num- ber of in- ter- nal COM- MIT state- ments