mysqltuner - MySQL Performance Tuning Check-Script

MySQLTuner is ein Perlscript, das versucht die MySQL Konfiguration zu prüfen und Vorschläge zum Tuning auf Basis der laufenden Installation zu machen.

Installation:

```
wget -O mysqltuner.pl http://mysqltuner.pl,
chmod u+x mysqltuner.pl
```

Ausführung:

```
./mysqltuner.pl

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Jul 2021 14:48:07
 >>  MySQLTuner 1.8.1 - Major Hayden <major@mhtx.net>
 >>  Bug reports, feature requests, and downloads at http://mysqltuner.pl/
 >>  Run with '--help' for additional options and output filtering

[--] Skipped version check for MySQLTuner script
[OK] Logged in using credentials from Debian maintenance account.
[OK] Currently running supported MySQL version 8.0.25-15
[OK] Operating on 64-bit architecture

-------- Log file Recommendations ------------------------------------------------------------------
[OK] Log file /var/log/mysql/error.log exists
[--] Log file: /var/log/mysql/error.log(0B)
[--] Log file /var/log/mysql/error.log is empty. Assuming log-rotation. Use --server-
log={file} for explicit file

-------- Storage Engine Statistics -----------------------------------------------------------------
[--] Status: +ARCHIVE +BLACKHOLE +CSV -FEDERATED +InnoDB +MEMORY +MRG_MYISAM +MyISAM
+PERFORMANCE_SCHEMA
[--] Data in InnoDB tables: 525.5M (Tables: 650)
[--] Data in MyISAM tables: 28.9M (Tables: 160)
```

```
[OK] Total fragmented tables: 0

-------- Analysis Performance Metrics
------------------------------------------------------------------
[--] innodb_stats_on_metadata: OFF
[OK] No stat updates during querying INFORMATION_SCHEMA.

-------- Security Recommendations
--------------------------------------------------------------------
[--] Skipped due to unsupported feature for MySQL 8

-------- CVE Security Recommendations
------------------------------------------------------------
[--] Skipped due to --cvefile option undefined

-------- Performance Metrics
------------------------------------------------------------------------
[--] Up for: 4d 12h 47m 32s (33M q [85.194 qps], 482K conn, TX: 155G, RX: 6G)
[--] Reads / Writes: 98% / 2%
[--] Binary logging is enabled (GTID MODE: OFF)
[--] Physical Memory     : 23.5G
[--] Max MySQL memory    : 9.9G
[--] Other process memory: 0B
[--] Total buffers: 3.4G global + 133.6M per thread (50 max threads)
[--] P_S Max memory usage: 72B
[--] Galera GCache Max memory usage: 0B
[OK] Maximum reached memory usage: 7.7G (32.72% of installed RAM)
[OK] Maximum possible memory usage: 9.9G (42.15% of installed RAM)
[OK] Overall possible memory usage with other process is compatible with memory available
[!!] Slow queries: 10% (3M/33M)
[OK] Highest usage of available connections: 66% (33/50)
[OK] Aborted connections: 0.27%  (1314/482261)
[--] Query cache have been removed in MySQL 8
[OK] Sorts requiring temporary tables: 0% (0 temp sorts / 435K sorts)
[!!] Joins performed without indexes: 16421
[OK] Temporary tables created on disk: 12% (78K on disk / 652K total)
[OK] Thread cache hit rate: 99% (49 created / 482K connections)
[OK] Table cache hit rate: 99% (37M hits / 37M requests)
[OK] table_definition_cache(2000) is upper than number of tables(1149)
[OK] Open file limit used: 0% (2K/1M)
[OK] Table locks acquired immediately: 100% (1M immediate / 1M locks)
```

```
[OK] Binlog cache memory access: 99.99% (463714 Memory / 463765 Total)

-------- Performance schema
--------------------------------------------------------------------------
[--] Memory used by P_S: 72B
[--] Sys schema is installed.

-------- ThreadPool Metrics
--------------------------------------------------------------------------
[--] ThreadPool stat is enabled.
[--] Thread Pool Size: 24 thread(s).
[OK] thread_pool_size between 16 and 36 when using InnoDB storage engine.

-------- MyISAM Metrics
---------------------------------------------------------------------------
[--] MyISAM Metrics are disabled on last MySQL versions.

-------- InnoDB Metrics
---------------------------------------------------------------------------
[--] InnoDB is enabled.
[--] InnoDB Thread Concurrency: 9
[OK] InnoDB File per table is activated
[OK] InnoDB buffer pool / data size: 3.0G/525.5M
[OK] Ratio InnoDB log file size / InnoDB Buffer pool size: 384.0M * 2/3.0G should be equal to
25%
[OK] InnoDB buffer pool instances: 3
[--] Number of InnoDB Buffer Pool Chunk : 24 for 3 Buffer Pool Instance(s)
[OK] Innodb_buffer_pool_size aligned with Innodb_buffer_pool_chunk_size &
Innodb_buffer_pool_instances
[OK] InnoDB Read buffer efficiency: 100.00% (3574568225 hits/ 3574619782 total)
[!!] InnoDB Write Log efficiency: 64.54% (3246059 hits/ 5029381 total)
[OK] InnoDB log waits: 0.00% (0 waits / 1783322 writes)

-------- Aria Metrics
-----------------------------------------------------------------------------
[--] Aria Storage Engine not available.

-------- TokuDB Metrics
---------------------------------------------------------------------------
[--] TokuDB is disabled.
```

```
-------- XtraDB Metrics
-----------------------------------------------------------------------------
[--] XtraDB is disabled.

-------- Galera Metrics
-----------------------------------------------------------------------------
[--] Galera is disabled.

-------- Replication Metrics
-------------------------------------------------------------------------
[--] Galera Synchronous replication: NO
[--] No replication slave(s) for this server.
[--] Binlog format: MIXED
[--] XA support enabled: ON
[--] Semi synchronous replication Master: Not Activated
[--] Semi synchronous replication Slave: Not Activated
[--] This is a standalone server

-------- Recommendations
---------------------------------------------------------------------------
General recommendations:
    We will suggest raising the 'join_buffer_size' until JOINs not using indexes are found.
              See https://dev.mysql.com/doc/internals/en/join-buffer-size.html
              (specially the conclusions at the bottom of the page).
Variables to adjust:
    join_buffer_size (> 4.0M, or always use indexes with JOINs)
```

Revision #1
Created 2021-07-27 12:44:27 UTC by magenbrot
Updated 2021-07-27 12:52:04 UTC by magenbrot