

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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```
>> 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
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```
-----  
[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)

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