

How to Install And Run mysqltuner?

written by sysadmin | 17 December 2025

If you have a MariaDB database, then you definitely want the performance of the database to improve. Therefore, you should have done several configurations to achieve your goals. There is a script called mysqltuner that you can use to improve the performance of your MariaDB database by providing recommendations.

Problem

How to install and run mysqltuner?

Solution

mysqltuner is a Perl script designed to quickly assess a MySQL setup and implement changes to enhance performance and stability. It supports ~300 indicators for MySQL/MariaDB/Percona Server in this latest version and is actively maintained, supporting many configurations such as Galera Cluster, TokuDB, Performance schema, Linux OS metrics, InnoDB, MyISAM, Aria, and so on. To download it, you can run the command:

```
git clone https://github.com/major/MySQLTuner-perl.git
```

Or use the commands below:

```
wget http://mysqltuner.pl/ -O mysqltuner.pl
wget
https://raw.githubusercontent.com/major/MySQLTuner-perl/master/basic_password
s.txt -O basic_passwords.txt
wget
https://raw.githubusercontent.com/major/MySQLTuner-perl/master/vulnerabilitie
s.csv -O vulnerabilities.csv
```

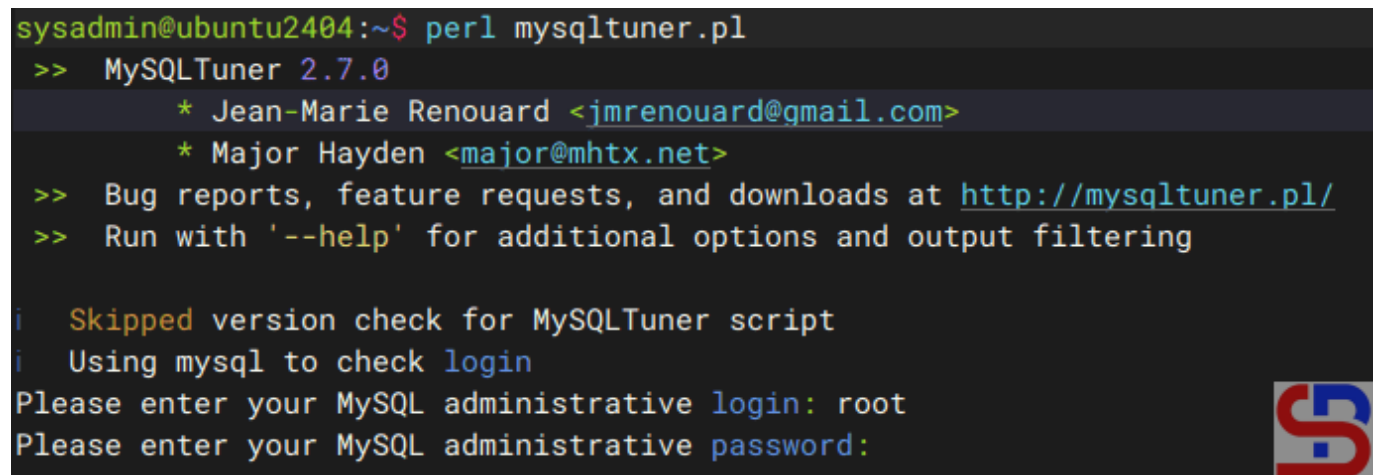
To run this script, you must have Perl installed on your server. So, to run this script, you can use the command (if you download mysqltuner using git, you have to go to **the MySQLTuner-perl** folder):

```
perl mysqltuner.pl
```

Or you permit this script to be executed by using the command:

```
chmod +x mysqltuner.pl  
./mysqltuner.pl
```

After you run the command, there will be a display as below:



The screenshot shows a terminal window with the following output:

```
sysadmin@ubuntu2404:~$ perl mysqltuner.pl  
>> MySQLTuner 2.7.0  
    * Jean-Marie Renouard <jmrenouard@gmail.com>  
    * Major Hayden <major@mhtx.net>  
>> Bug reports, feature requests, and downloads at http://mysqltuner.pl/  
>> Run with '--help' for additional options and output filtering  
  
i Skipped version check for MySQLTuner script  
i Using mysql to check login  
Please enter your MySQL administrative login: root  
Please enter your MySQL administrative password:  
Enter username and password
```

The terminal output shows the MySQLTuner script running. It displays the version (2.7.0) and the authors (Jean-Marie Renouard and Major Hayden). It provides a link to the project page and instructions on how to run the script. It then prompts the user to enter their MySQL administrative login and password. The user enters 'root' for the login and a password (indicated by a redacted box). The script then displays the MariaDB state.

Enter the username and password, and if there is no error, mysqltuner displays your MariaDB state as shown in the image below:

```

----- Storage Engine Statistics -----
| Status: +Aria +CSV +InnoDB +MEMORY +MRG_MyISAM +MyISAM +PERFORMANCE_SCHEMA +SEQUENCE
| Data in InnoDB tables: 107.3M (Tables: 227)
| Data in Aria tables: 32.0K (Tables: 1)
✓ Total fragmented tables: 0

✓ Currently running supported MySQL/MariaDB version 10.11.13-MariaDB(LTS)

----- Log file Recommendations -----
✗ Log file doesn't exist

----- Analysis Performance Metrics -----
| innodb_stats_on_metadata: OFF
✓ No stat updates during querying INFORMATION_SCHEMA.

----- Views Metrics -----

----- Triggers Metrics -----

----- Routines Metrics -----

----- Security Recommendations -----
| Ubuntu 24.04 - 10.11.13-MariaDB
✓ There are no anonymous accounts for any database users
✓ All database users have passwords assigned
✗ User 'snipe_user'@% does not specify hostname restrictions.
| There are 620 basic passwords in the list.

----- CVE Security Recommendations -----
✓ NO SECURITY CVE FOUND FOR YOUR VERSION

----- Performance Metrics -----
| Up for: 2m 4s (2K q [16.960 qps], 104 conn, TX: 14M, RX: 233K)
| Reads / Writes: 83% / 17%
| Binary logging is disabled
| Physical Memory      : 961.6M
| Max MySQL memory     : 861.2M
| Other process memory : 0B
| Total buffers: 417.0M global + 2.9M per thread (151 max threads)
| Performance_schema Max memory usage: 0B

```



mysqltuner view

And at the end, mysqltuner will recommend that your MariaDB improve its performance:

```
----- Recommendations -----
General recommendations:
  Restrict Host for 'snipe_user'@ '%' to 'snipe_user'@LimitedIPRangeOrLocalhost
  RENAME USER 'snipe_user'@ '%' TO 'snipe_user'@LimitedIPRangeOrLocalhost;
  MySQL was started within the last 24 hours: recommendations may be inaccurate
  Reduce your overall MySQL memory footprint for system stability
  Configure your accounts with ip or subnets only, then update your configuration with skip-name-resolve=ON
  We will suggest raising the 'join_buffer_size' until JOINS not using indexes are found.
    See https://dev.mysql.com/doc/refman/8.0/en/server-system-variables.html#sysvar\_join\_buffer\_size
  Performance schema should be activated for better diagnostics
  Be careful, increasing innodb_log_file_size / innodb_log_files_in_group means higher crash recovery mean time
Variables to adjust:
  skip-name-resolve=ON
  join_buffer_size (> 256.0K, or always use indexes with JOINS)
  table_definition_cache (400) > 519 or -1 (autosizing if supported)
  performance_schema=ON
  innodb_log_file_size should be (=32M) if possible, so InnoDB total log file size equals 25% of buffer pool size.
  innodb_log_buffer_size (> 16M)
sysadmin@ubuntu2404:~$
```

Recommendations on mysqltuner

Note

If you want to run mysqltuner with the verbose option, use the command below:

```
perl mysqltuner.pl --verbose
```

If you want to display Maximum Output Information around MySQL, like display database(s) and table(s) on mysqltuner, use the command below:

```
perl mysqltuner.pl --buffers --dbstat --idxstat --sysstat --pfstat --tbstat
```

Use the command below to use CVE(Common Vulnerabilities and Exposures) in mysqltuner:

```
perl mysqltuner.pl --cvefile=vulnerabilities.csv
```

Use the command below to save the results from mysqltuner in a file without displaying it on the screen:

```
perl mysqltuner.pl --silent --outputfile /tmp/result_mysqltuner.txt
```

To update mysqltuner, run the command below:

```
perl mysqltuner.pl --checkversion --updateversion
```

References

mysqltuner.com

github.com

hevodata.com