MariaDB 10.3

Installation from Debian 10 repositories

```
# apt update
# apt install mariadb-server
# mysql_secure_installation
```

Enter a root password.

- How To Install MariaDB on Debian 9
- How To Install MariaDB on Debian 11
- How to Transfer All MySQL Databases From Old to New Server

phpMyAdmin

- phpMyAdmin

apt update

```
# apt install phpmyadmin php-mbstring php-gettext
# phpenmod mbstring
# systemctl restart apache2
```

Select Yes when asked whether to use dbconfig-common to set up the database.

- How To Install and Secure phpMyAdmin on Debian 9

Adjusting User Authentication and Privileges

```
# mariadb -u root -p
MariaDB [(none)]> CREATE USER 'user'@'localhost' IDENTIFIED BY 'password';
MariaDB [(none)]> GRANT ALL PRIVILEGES ON *.* TO 'user'@'localhost' WITH
GRANT OPTION;
MariaDB [(none)]> exit
```

Securing Your phpMyAdmin Instance

Edit /etc/apache2/conf-available/phpmyadmin.conf:

```
Alias /phpmyadmin /usr/share/phpmyadmin
<Directory /usr/share/phpmyadmin>
  Options FollowSymLinks
```

```
  DirectoryIndex index.php

  # Allow user to access without password
  Include conf-available/user-access.conf

  <IfModule mod_php5.c>
      <IfModule mod_mime.c>
          AddType application/x-httpd-php .php
      </IfModule>
      <FilesMatch ".+\.php$">
          SetHandler application/x-httpd-php
      </FilesMatch>

      php_flag magic_quotes_gpc Off
      php_flag track_vars On
      php_flag register_globals Off
      php_admin_flag allow_url_fopen Off
      php_value include_path .
      php_admin_value upload_tmp_dir /var/lib/phpmyadmin/tmp
      php_admin_value open_basedir
/usr/share/phpmyadmin/:/etc/phpmyadmin/:/var/lib/phpmyadmin/:/usr/share/php/
php-gettext/:/usr/share/javascript/:/usr/share/php/tcpdf/
  </IfModule>
</Directory>
```

conf-available/user-access.conf contains:

```
# Allow user to access without password
Require ip www.xx.yyy.zzz
```

Settings

- Modify the following in /etc/mysql/mariadb.conf.d/50-server.conf

  ```
  # * Query Cache Configuration
  query_cache_limit = 64M
  query_cache_size = 256M
  # * InnoDB
  innodb_buffer_pool_size = 1024M
  # * Aria
  aria_pagecache_buffer_size = 256M
  ```

- On my Debian 9 server with MariaDB 10.1 I had occasional db crashes with *** buffer overflow detected ***, so I added a CRON job to restart MariaDB once a week.

Trouble shooting

- Install MariaDB 10.4 on Debian 10

- How To Install MariaDB 10.4 on Debian 10
- Possible to make MySQL use more than one core?
- How to Optimize MySQL Queries for Speed and Performance
- InnoDB variables and status explained

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