

# MySQL Databases

(cPanel >> Home >> Databases >> MySQL Databases)

## Overview

Use this interface to create, manage, and delete MySQL® databases and database users.

### Warning:

Do **not** use phpMyAdmin to create databases or database users. phpMyAdmin does **not** map databases, which causes backups and restores to not function.

### Notes:

- We recommend that you use the [MySQL Database Wizard](#) interface (cPanel >> Home >> Databases >> MySQL Database Wizard) to create your **first** database and user.
- A database name may contain a maximum of 64 characters.
  - Due to the method that cPanel & WHM uses to store MySQL database names, each underscore character requires **two** characters of that limit.
  - If you enable database prefixing, a database name may contain a maximum of **63 characters**, which includes the database prefix and the underscore character. Each additional underscore requires another **two** characters of that limit.
- To enter information in an existing database, use the [phpMyAdmin](#) interface (cPanel >> Home >> Databases >> phpMyAdmin).

## Create a database

To create a database, perform the following steps:

1. In the *New Database* text box, enter a name for the database.

### Note:

If your hosting provider has enabled database prefixing, a prefix based on your account username and underscore character ( \_ ) will precede the *New Database* text box. The system automatically prepends this prefix to the database name.

2. Click *Create Database*. A new interface will appear.
3. Click *Go Back*. The new database appears in the *Current Databases* table.

## Modify Databases

If you experience problems with a database, check your databases for errors.

## Check a database

To check a database for errors, perform the following steps:

1. In the *Check Database* menu, select the database that you wish to check.
2. Click *Check Database*. A new interface will appear, and the system will check whether the database functions correctly.
  - If the system detects a problem in the database, it displays the name of the corrupt table.
  - If the *Check Complete* message displays, the database functions correctly.
3. Click *Go Back* to return to the main interface.

## Repair a database

## In This Document

## Related Documentation

- [Remote MySQL](#)
- [PostgreSQL Database Wizard](#)
- [PostgreSQL Databases](#)
- [MySQL Database Wizard](#)
- [MySQL Databases](#)

## For Hosting Providers

- [How to Restore a User's Database Access](#)
- [CVE-2016-6662 MySQL](#)
- [How to Delete a MySQL Database](#)
- [Troubleshoot MySQL Profiles](#)
- [SQL](#)

If one of your databases becomes corrupt, you can attempt to repair it.

To repair a database, perform the following steps:

1. In the *Repair Database* menu, select the database that you wish to repair.
2. Click *Repair Database*. A new interface will appear, and the system will attempt to automatically repair the database.
  - a. If the system cannot repair the database, it will attempt to determine the source of the corrupt data.
  - b. If the *Repair Complete* message displays, the system successfully repaired the database.
3. Click *Go Back* to return to the main interface.


## Current Databases

The *Current Databases* table lists the following information for each database in your account:

- *Database* — The name of the database.
- *Size* — The size of the database.
- *Privileged Users* — The users who can manipulate the database.

**Note:**

When you modify database users, make **certain** that you modify the user's access to the correct database. Users may have access to more than one database.

- To remove a user from a database, click the trashcan icon (  ) for the desired user, and then click *Revoke User Privileges from Database*.
- To modify a user's [privileges for a specific database](#), click the desired username, select and deselect checkboxes to configure the desired privileges, and then click *Make Changes*.
- *Actions* — The available actions for this database. Click the appropriate icon in this column to rename or delete a database.

## Rename a database

**Warning:**

- It is potentially dangerous to rename a MySQL database. We **strongly** recommend that you perform a backup of the MySQL database before you attempt to rename it.
- When you rename a database, the system terminates all active connections to the database.
- You **must** manually update configuration files and applications to use the new database name.
- The system requires more time to rename larger and more complex databases.

To rename a database, perform the following steps:

1. In the *Current Databases* table, click *Rename* for the desired database.
2. Enter the new database name in the *New name* text box.
3. Click *Proceed*.

MySQL does **not** allow you to rename a database. When cPanel & WHM "renames" a database, the system performs the following steps:

1. The system creates a new database.
2. The system moves data from the old database to the new database.
3. The system recreates grants and stored code in the new database.
4. The system deletes the old database and its grants.

**Warning:**

- If **any** of the first three steps fail, the system returns an error and attempts to restore the database's original state. If the restoration process fails, the API function's error response describes these additional failures.
- In rare cases, the system creates the second database successfully, but fails to delete the old database or grants. The system treats the rename action as a success; however, the API function returns warnings that describe the failure to delete the old database or grants.

## Delete a database

To delete a database, perform the following steps:

1. In the *Current Databases* table, click *Delete* for the desired database.
2. To permanently delete the database, click *Delete Database*.

3. Click *Go Back* to return to the main interface.

## Add a MySQL user

After you create a database, add users to the database and configure their privileges.

**Notes:**

- You **must** create MySQL user accounts separately from mail and web administrator accounts.
- You **must** create a user before you can add the user to an existing database.

To create a new user account, perform the following steps:

1. Enter a username in the *Username* text box.

**Important:**

To learn more about database username limits, click your database type:

▼ [MySQL](#)

MySQL limits the database username to 16 characters. The system includes the database prefix (the first eight characters of the cPanel account's username and an underscore character) in the character count for the username.

For example:

- A MySQL database with the `db_` prefix allows usernames that contain up to 13 characters.
- A MySQL database with the `example_` prefix allows usernames that contain up to eight characters.

▼ [MariaDB](#)

MariaDB limits the database username to 47 characters. The system includes the database prefix (all of the cPanel account's username and an underscore character) in the character count for the username.

For example:

- A MariaDB database with the `db_` prefix allows usernames that contain up to 44 characters.
- A MariaDB database with the `example_` prefix allows usernames that contain up to 39 characters.

2. Enter and confirm the new password in the appropriate text boxes.

**Notes:**

- The system evaluates the password that you enter on a scale of 100 points. 0 indicates a weak password, while 100 indicates a very secure password.
- Some web hosts require a minimum password strength. A green password *Strength* meter indicates that the password is equal to or greater than the required password strength.
- Click *Password Generator* to generate a strong password. For more information, read our [Password & Security](#) documentation.

3. Click *Create User*.
4. Click *Go Back* to return to the main interface.

## Add a user to a database

To add a user to a database, perform the following steps:

1. In the *Add User To Database* section of the interface, select the desired user and database from the menus.
2. Click *Add*. The *MySQL Account Maintenance* interface will appear.
3. Select the checkboxes that correspond to the privileges that you wish to grant to the user.

**Note:**

To grant all of the available privileges to the user, select the *ALL PRIVILEGES* checkbox.

4. Click *Make Changes*.
5. Click *Go Back* to return to the main interface.

For more information about user privileges, read the [MySQL documentation](#).

## Current Users

The *Current Users* table lists all of your MySQL database users, and allows you to perform the following actions:

- *Change Password* — Click to modify a database user's password. Enter and confirm the desired password, and then click *Change Password*.
- *Rename* — Click to rename a database user. Enter the desired username, and then click *Change Username*.
- *Delete* — Click to permanently delete a database user, and then click *Delete User* to continue.