



User Guide Tiny Linux Firewall

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- **Introduction**
- **Multiple Operating Systems**

Tiny Linux Firewall Runs On Multiple Operating Systems

Tiny Linux Firewall is a software running by commands of linux server (server-based) and a way to protect the machine from any unwanted traffic from outside.

- **Guide to Setup Mysql**

Create Mysql Database

Step 1: Restart Httpd or Nginx

Httpd Command: service httpd restart

Nginx Command: service nginx restart

Step 2: Restart mysql

Mariadb Command: service mariadb restart

or

Mysqld Command: service mysqld restart

Step 3: Setup and secure mysql server

Command: mysql_secure_installation

Step 4: Enter current password for root

Enter (enter for none password)

Step 5: Set root password

Y/n?: y

Step 6: New password

Enter: new mysql password

Step 7: Re-enter new password

Enter: new mysql password

Step 8: Remove anonymous users

Y/n?: Y

Step 9: Disallow root login remotely

Y/n?: Y

Step 10: Remove test database and access to it

Y/n?: Y

Step 11: Reload privilege table now

Y / n ? : Y

Step 12: Restart mysql

Command: service mariadb restart

or

Command: service mysqld restart

mysql password changed successful !

Create Database Name , Database User, Database Password

Command: mysql -u root -p

- **Create The Database Name**
Example: database_name

```
mysql > FLUSH PRIVILEGES;
```

```
mysql > create database database_name;
```

- **Create The Database User**
Example: database_user

```
mysql > FLUSH PRIVILEGES;
```

```
mysql > create user database_user;
```

Verify

```
mysql > show databases;
```

- **Create password for database name and database user**
Example: database_password

```
mysql > FLUSH PRIVILEGES;
```

```
mysql > grant all on database_name.* to 'database_user'@'localhost' identified by 'database_password';
```

Logout

```
mysql > quit;
```

Test > Change mysql root password

Command: mysql -u root -p

```
mysql > use mysql;
```

```
mysql > FLUSH PRIVILEGES;
```

```
mysql > UPDATE mysql.user SET Password=PASSWORD('NEW-PASSWORD') WHERE User='root';
```

Logout

```
mysql > quit;
```

Restart mysql by reboot

```
shutdown -r now
```

- **Reset MySQL Root Password**

Stop the mysql service

```
service mariadb.service stop
```

or

```
service mysqld stop
```

or

```
service mysql stop
```

Start mysql without a password

```
mysqld_safe --skip-grant-tables &
```

Ctrl + c

Connect to MySQL

Change mysql new password

```
mysql -uroot
```

```
use mysql;
```

```
update user set authentication_string=PASSWORD("mynewpassword") where User='root';
```

```
flush privileges;
```

```
quit;
```

Restart mysql by reboot

shutdown -r now

- **Setup phpMyAdmin**

Restart Httpd or Nginx

Httpd Command: service httpd restart

Nginx Command: service nginx restart

Restart mysql

Mariadb Command: service mariadb restart

or

Mysqld Command: service mysqld restart

Setup and secure mysql server

Command: mysql_secure_installation

Enter current password for root

Enter (enter for none password)

Set root password

Y / n ? : y

New password

Enter: new mysql password

Re-enter new password

Enter: new mysql password

Remove anonymous users

Y / n ? : Y

Disallow root login remotely

Y / n ? : Y

Remove test database and access to it

Y / n ? : Y

Reload privilege table now

Y / n ? : Y

Restart mysql by reboot

shutdown -r now

mysql password changed successful !

Now you need to whitelist your home ip

nano /etc/httpd/conf.d/phpMyAdmin.conf

Find your home ip and add your home ip same as below:

```

Alias /phpMyAdmin /usr/share/phpMyAdmin
Alias /phpmyadmin /usr/share/phpMyAdmin

<Directory /usr/share/phpMyAdmin/>
    AddDefaultCharset UTF-8

    <IfModule mod_authz_core.c>
        # Apache 2.4
        <RequireAny>
            Require ip 127.0.0.1 67.168.41.219 home ip <-----
            Require ip ::1
        </RequireAny>
    </IfModule>
    <IfModule !mod_authz_core.c>
        # Apache 2.2
        Order Deny,Allow
        #Deny from All #<-----
        Allow from 127.0.0.1 67.168.41.219 home ip <-----
        #Allow from ::1 #<-----
    </IfModule>
</Directory>

<Directory /usr/share/phpMyAdmin/setup/>
    <IfModule mod_authz_core.c>
        # Apache 2.4
        <RequireAny>
            Require ip 127.0.0.1 67.168.41.219 home ip <-----
            Require ip ::1
        </RequireAny>
    </IfModule>
    <IfModule !mod_authz_core.c>
        # Apache 2.2
        Order Deny,Allow
        #Deny from All #<-----
        Allow from 127.0.0.1 67.168.41.219 home ip <-----
        #Allow from ::1 #<-----
    </IfModule>
</Directory>

```

After whitelist your ip restart httpd or nginx

Restart Http Web Server:

Command: service httpd restart

Restart Nginx Web Server:

Command: service nginx restart

Now open up HTTPD + phpMyAdmin Panel: <http://serverip:81/phpMyAdmin>

Login phpMyAdmin Panel with mysql password you changed and create database:

username: root

password: mysqlpassword

Website Test: <http://serverip/>

Apache: store your website data in /var/www/domain.com

Nginx: store your website data in /usr/share/nginx/domain.com