

Install Apache, FreeRadius, daloRADIUS, and MariaDB on Ubuntu 20.04

This quick guide assumes you are root or using sudo on a fresh install of Ubuntu Server 20.04.

Install apache2, MariaDB, and PHP

Install Apache

```
apt install apache2
```

Install PHP

```
sudo apt install php libapache2-mod-php php-{gd,common,mail,mail-mime,mysql,pear,db,mbstring,xml,curl}
```

Install MariaDB

```
apt install mariadb-server mysql_secure_installation
```

Install FreeRADIUS w/ MariaDB

Install FreeRADIUS

```
apt install freeradius freeradius-mysql freeradius-utils systemctl enable --now freeradius
```

Use MariaDB with FreeRADIUS

Login to MariaDB with the password you just created (Remember to replace password with your own password).

```
mysql -u root -p
```

Create database and database user

```
MariaDB [(none)]> CREATE DATABASE radius; MariaDB [(none)]> GRANT ALL ON radius.* TO radius@localhost IDENTIFIED BY "password"; MariaDB [(none)]> FLUSH PRIVILEGES; MariaDB [(none)]> quit
```

Import FreeRADIUS schema into MariaDB

```
mysql -u root -p radius < /etc/freeradius/3.0/mods-config/sql/main/mysql/schema.sql
```

Link to the SQL module

```
ln -s /etc/freeradius/3.0/mods-available/sql /etc/freeradius/3.0/mods-enabled/
```

Edit the FreeRADIUS config file at /etc/freeradius/3.0/mods-enabled/sql

- Change dialect = "sqlite" to dialect = "mysql".
- Comment out driver = "rlm_sql_null" and uncomment driver = "rlm_sql_\${dialect}"
- Comment out the entire tls section. We will not be using TLS here.
- Uncomment the Connection info: section and fill out the database details using the values you created previously.

```
# Connection info:
#
server = "localhost"
port = 3306
login = "radius"
password = "radpass"
```

- Uncomment read_clients = yes.

Fix file ownership

```
chgrp -h freerad /etc/freeradius/3.0/mods-available/sql chown -R freerad:freerad /etc/freeradius/3.0/mods-enabled/sql
```

Restart FreeRADIUS

```
systemctl restart freeradius.service
```

this is unfinished

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