

# MySQL Remote connection

Assume you have your web application (eg: wordpress) running in one machine and Database hosted on another. This tutorial help you establish a connection to Database remotely (From Web Server to Database machine ).

Consider 2 machines, created in a VPC that has IP block 10.10.0.0/16.

- 1) Your web server machine, later referred as **web001** is rest of this tutorial has a private IP **10.10.0.1** .
- 2) Your database machine, later referred as **db001** is rest of this tutorial has a private IP **10.10.0.2** .

You want your Web Application, which run in web001 (eg: wordpress), to connect to the database on db001. Steps are below.

- 1) Install MySQL, Create database and Create a user who has permission to connect from web001 machine.

Run below commands in your db001 mahcine:

- apt-get -y install mysql-server
- mysql
- *GRANT ALL ON \*.\* to wpuser@'10.10.0.1' IDENTIFIED BY 'your-password';*

As you may have noticed, I mentioned IP address of web001 machine in above command. If you want to give all wordpress subnets access to the database, you can replace 10.10.0.1 with 10.10.0.%

- 2) Open port 3306 in Security group of AWS (db001 machine)

- 3) Make mysql listen on all interfaces.

Edit the file ~~etc/mysql/mysql.conf.d/mysqld.cnf~~ and comment out the line which bind mysql to only to localhost. Use below commands:

- nano /etc/mysql/mysql.conf.d/mysqld.cnf

change the line  
bind-address = 127.0.0.1  
  
to

#bind-address = 127.0.0.1

Now restart mysql by running

- service mysql restart

- 4) Modify wp-config.php on web001 and replace DB\_HOST with 10.10.0.2 (IP of db001)