

# How to connect mysql client over SSH tunnel to Mariadb server

For setting up your working Mariadb server, [read this howto](#).

You may want to connect clients to the database server over network securely. Instead of using TLS (which is [available natively](#)) for this, the same can also be achieved by tunneling over SSH by following the below steps.

## On the database server

1. Ensure there is no blocking by firewall for the ports/protocols/hosts.. The default Mariadb port is TCP 3306.
2. Ensure that the SKIP="..skip-networking.." line in /etc/rc.d/rc.mysql is commented out. This will allow external client connections to the server.
3. Identify a user who will be the SSH tunnel user. This refers to the Linux user. You may use the command 'adduser <username>' to create a new user.
4. Edit /etc/ssh/sshd\_config, if necessary, to ensure that key based authentication is allowed for this user. The /etc/rc.sshd service will of course have to be restarted if any edits had been made.

## On the client machine

Generate keys for authentication using ssh-keygen without a passphrase as follows. You may use RSA also. The below command will create a private and public key after giving you file name option. Just hit enter to avoid using a passphrase. Create and login as a similar tunnel user when doing this.

```
ssh-keygen -t ecdsa -b 521 -C my-comments
```

The public key with filename extension .pub should be installed in the database server user's authorized\_keys. The contents of the .pub file can be copy pasted or you can use a command line utility like ssh-copy-id as shown below. Never copy the private key to other server.

```
ssh-copy-id -i ~/.ssh/mykey user@database-server-host
```

It is recommended to use autossh, which is available in [slackbuilds](#), to make persistent connections. Once autossh is installed, you can now create the tunnel with a command like below. The port 334 on the client machine can be any unassigned port you choose.

```
autossh -M 10984 -o "PubkeyAuthentication=yes" -o  
"PasswordAuthentication=no" -o "ServerAliveInterval 60" -o  
"ServerAliveCountMax 3" -i ~/.ssh/mykey -L 334:127.0.0.1:3306 user@database-  
server-host
```

Connect the client

```
mysql -u root -p --host=127.0.0.1 --port=334
```

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You thus have a secure ssh tunneling for mysql client now.

## Sources

Adapted from original source:

<https://mariadb.com/resources/blog/connecting-to-mariadb-through-an-ssh-tunnel/>

Originally written by [mahafyi](#)

[howtos](#), [mariadb](#), [mysql](#), [tunneling](#), [ssh](#), [tunnel](#)

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