

# configure jump server to use SSL for MySQL server 5.7 version

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## How to configure Ezeelogin to use SSL for MySQL database connections on ubuntu 16.04?

### Mysql - SSL setup on Ubuntu Mysql server 5.7 version

#### 1. Check the Current SSL/TLS Status

Log into MySQL session



Show the state of the SSL/TLS variables by typing:



The **have\_openssl** and **have\_ssl variables** are both marked as DISABLED. This means that SSL functionality has been compiled into the server, but that it is not yet enabled.

## 2. Generate SSL/TLS Certificates and Keys

**To enable SSL connections to MySQL, first we need to generate the appropriate certificate and key files**

We can use the following command to generate the necessary files.

The files will be created in MySQL's data directory, located at `/var/lib/mysql`

```
root@gateway:~#
```

Check the generated files by typing:

```
root@gateway:~#
```

Enable SSL Connections on the MySQL Server

Restart the MySQL service

```
root@gateway:~#
```

After restarting, open up a new MySQL session using the same command as before.

```
root@gateway:~#
```

Check the state of the SSL/TLS variables by typing:

Output

```
+-----+-----+
| Variable_name | Value |
+-----+-----+
| have_openssl  | YES   |
| have_ssl      | YES   |
| ssl_ca        | Ca.pem |
| ssl_capath    |       |
| ssl_cert      | server-cert.pem |
| ssl_cipher    |       |
```

```
| ssl_crl | |  
| ssl_crlpath | |  
| ssl_key | server-key.pem |  
+-----+-----+  
9 rows in set (0.01 sec)
```

The **have\_openssl** and **have\_ssl** variables read "YES" instead of "DISABLED" this time.

Check the connection details by the following command:

```
root@gateway:~# mysql -u ezlogin_database_username -p -h  
hostname or ip --ssl-ca=/var/lib/mysql/ca.pem --ssl-  
cert=/var/lib/mysql/client-cert.pem --ssl-key=/var/lib/mysql/client-  
key.pem
```

example :

```
root@gateway:~# mysql -u ezlogin_xxxx -p -h 10.11.1.11 --ssl-  
ca=/var/lib/mysql/ca.pem --ssl-cert=/var/lib/mysql/client-cert.pem  
--ssl-key=/var/lib/mysql/client-key.pem
```

In Case the certificate verification has been failed, refer [SSL certificate failed with MYSQL SSL](#)

```
...  
SSL: Cipher in use is DHE-RSA-AES256-SHA  
...  
Connection: 127.0.0.1 via TCP/IP  
...
```

SSL cipher is displayed, indicating that SSL is being used to secure our connection.

### 3. Configure ezeelogin jump server to use SSL for Mysql

Add `mysql_ssl_key,mysql_ssl_cert,mysql_ssl_ca` to **`/usr/local/etc/ezlogin/ez.conf`**

Edit the **`/usr/local/etc/ezlogin/ez.conf`** file add the following

```
#Add the following
```

```
mysql_encrypt yes
```

Make sure that you have changed **db\_port** to **3306** & **db\_host** to the *IP Address of your host*

4. Change the bind-address & allow the Ezeelogin jump server user to access the database.

Edit the `/etc/mysql/mysql.conf.d/mysqld.cnf` & change bind-address

Restart the MySQL service

```
root@gateway:~# systemctl restart mysql
```

You can find out Ezeelogin jump server **dbname** and mysql **username** from the **ez.conf** file

Use this command for granting privileges for root " **GRANT USAGE ON ezlogin\_databasename.\* TO 'root'@'Hostname or ip' WITH GRANT OPTION;** "

Login to MySQL

```
root@gateway:~# mysql -u root -p
```

```
[Enter password]
```

Check if you can log in to MySQL using Ezeelogin jump server databases.





**If you have any difficulties please contact support**

Online URL:

<https://www.ezeelogin.com/kb/article/configure-jump-server-to-use-ssl-for-mysql-server-5-7-version-203.html>