

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?

Overview: This article gives step by step instructions 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/ezeelogin/ez.conf`**

Edit the **`/usr/local/etc/ezeelogin/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>