

# Configure ssh jump server to use SSL for MySQL

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## How to configure Ezeelogin to use SSL for MySQL version 8 on Ubuntu?

**Overview:** This article provides step-by-step instructions to configure Ezeelogin to use SSL for MySQL version 8 on Ubuntu, ensuring secure communication between the Ezeelogin ss jump server and the MySQL server.

### Mysql - SSL setup on Ubuntu Mysql server

#### Step 1: Check the Current SSL/TLS Status

Log into MySQL session

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

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

```
mysql> show variables like '%ssl%';
```

```
+-----+-----+
| Variable_name | Value |
+-----+-----+
```

```
| admin_ssl_ca | |
| admin_ssl_capath | |
| admin_ssl_cert | |
| admin_ssl_cipher | |
| admin_ssl_crl | |
| admin_ssl_crlpath | |
| admin_ssl_key | |
| have_openssl | YES |
| have_ssl | YES |
| mysqlx_ssl_ca | |
| mysqlx_ssl_capath | |
| mysqlx_ssl_cert | |
| mysqlx_ssl_cipher | |
| mysqlx_ssl_crl | |
| mysqlx_ssl_crlpath | |
| mysqlx_ssl_key | |
| performance_schema_show_processlist | OFF |
| ssl_ca | ca.pem |
| ssl_capath | |
| ssl_cert | server-cert.pem |
| ssl_cipher | |
| ssl_crl | |
| ssl_crlpath | |
| ssl_fips_mode | OFF |
| ssl_key | server-key.pem |
| ssl_session_cache_mode | ON |
| ssl_session_cache_timeout | 300 |
```

```
+-----+-----+
27 rows in set (0.02 sec)
```

The **have\_ssl** variable is marked as YES. This means that SSL functionality is enabled on the server.

**Step 2:** Now you can login to Mysql server with following command and grant Ezeelogin user to access the Ezeelogin database. you can refer the [article to retrieve Ezeelogin database credentials.](#)

Replace **ezlogin\_databasename**, **ezlogin\_db\_username** and **ez\_db\_password** with your Ezeelogin database username.

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

```
[Enter password]
```

```
mysql> create user 'ezlogin_db_username'@'127.0.0.1' identified by 'ez_db_password';
```

```
mysql> grant all on ezlogin_databasename.* to 'ezlogin_db_username'@'127.0.0.1' with grant option;
```

```
mysql> flush privileges;
```

```
mysql> exit
```

Check the connection details by the following command :

```
root@gateway ~]# mysql -u ezlogin_db_username -p -h 127.0.0.1 --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 127.0.0.1 --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](#)

```
mysql> s
```

-----

...

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.

**Step 3:** 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

```
root@gateway:~# vi /etc/mysql/mysql.conf.d/mysqld.cnf
```

Change bind-address to host ip or 0.0.0.0

```
bind-address 0.0.0.0
```

Restart the Mysql service

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

**Step 4:** Check and correct the permission of /etc/certs directory and client-key.pem

```
root@gateway:~# chmod 755 /var/lib/mysql
```

```
root@gateway:~# ls -ld /var/lib/mysql
```

```
drwxr-xr-x 2 root root 4096 Sep 20 15:51 /var/lib/mysql
```

```
root@gateway:~# chmod 644 /var/lib/mysql/client-key.pem
```

```
root@gateway:~# ls -ld /var/lib/mysql/client-key.pem
```

```
-rw-r--r-- 1 mysql mysql 1705 Mar 29 2023 /var/lib/mysql/client-key.pem
```

**Step 5:** Configure Ezeelogin jump server to use SSL for Mysql

Add **mysql\_ssl\_key**, **mysql\_ssl\_cert**, **mysql\_ssl\_ca** and change **db\_host**, **db\_port** to **/usr/local/etc/ezlogin/ez.conf** as follows

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

```
root@gateway :~# vi /usr/local/etc/ezlogin/ez.conf
```

```
#Add the following
```

```
system_folder /var/www/ezlogin/
```

```
force_https no
```

```
uri_path /ezlogin/
```

```
db_host 127.0.0.1
```

```
db_port 3306
```

```
db_name ezlogin_qzms
```

```
db_user ezlogin_edcjwz
```

```
db_pass dsH)$s5xAE[QgFms
```

```
db_prefix aqvo_
```

```
cookie_encryption_key ASvs8^pnu^^X9
```

```
cookie_name lcrfs
```

```
cookie_path /ezlogin/
```

```
www_folder /var/www/html/ezlogin/
```

```
admin_user admin
```

```
mysql_encrypt yes
```

```
mysql_ssl_key /var/lib/mysql/client-key.pem
```

```
mysql_ssl_cert /var/lib/mysql/client-cert.pem
```

```
mysql_ssl_ca /var/lib/mysql/ca.pem
```

```
mysql_ssl_capath /var/lib/mysql
```

```
mysql_ssl_verify no
```

**Make sure that you have changed db\_port to 3306 & db\_host to the 127.0.0.1**

You have successfully configured SSL for Mysql 8 on the Ezeelogin SSH jump server, enhancing the security of your database connections and ensuring that sensitive data is encrypted during transmission.

Make sure to grant the secondary IP to access primary node and the primary IP to the secondary node when configuring the cluster. Replace the secondary IP and primary IP with the appropriate IPs. Also, use same certificate and keys for both primary and secondary node.

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

```
[Enter password]
```

```
mysql> create user 'ezlogin_db_username'@'secondary IP or primary IP' identified by  
'ez_db_password';
```

```
mysql> grant all on ezlogin_databasename.* to 'ezlogin_db_username'@'secondary IP or primary  
IP' with grant option;
```



```
mysql> flush privileges;
```

```
mysql> exit
```

If you have any difficulties please [contact support](#)

#### **Related Articles:**

[Configure ssh jump server to use SSL for Mariadb](#)

[Install Master/Slave Ezeelogin with MySQL SSL](#)

[Unable to access GUI while using MySQL SSL](#)

[failed to connect to database: Error: TLS/SSL error: Permission denied](#)

Online URL:

<https://www.ezeelogin.com/kb/article/configure-ssh-jump-server-to-use-ssl-for-mysql-737.html>