Configure ssh jump server to use SSL for MySQL

737 Manu Chacko May 1, 2025 Tweaks & Configuration 1287

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:

sysql> 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 predentials.

Replace ezlogin_databasename,ezlogin_db_username and ez_db_password with your Ezeelogin database username.

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

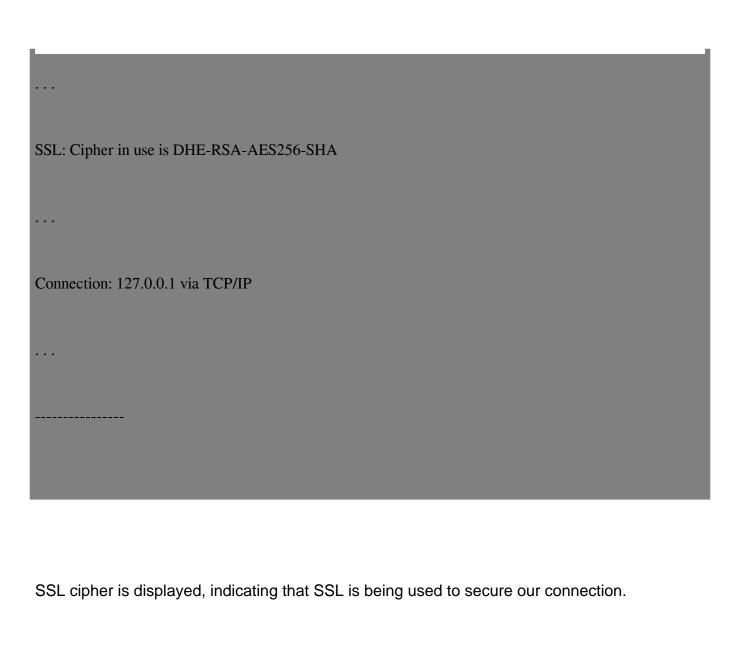
[Enter password]

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 127.0.0.1ssl-ca=/var/lib/mysql/ca.pemssl-cert=/var/lib/mysql/client-cert.pemssl-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.pemssl-cert=/var/lib/mysql/client-cert.pemssl-key=/var/lib/mysql/client-key.pem
In Case the certificate verification has been failed, refer SSL certificate failed with
mysql> s



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 lcrrfs
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