

MySQL 8 Installation & Debezium/Kafka Connect User Setup on CentOS 8

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This guide explains how to:

- Install MySQL 8 on CentOS 8
 - Secure the MySQL installation
 - Enable remote access
 - Create a user for Debezium/Kafka Connect
 - Configure the user to use **mysql_native_password**
 - Enable MySQL binlog for CDC (Change Data Capture)
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? Prerequisites

You need:

- A **CentOS 8** server
 - A **non-root user** with sudo privileges
 - **firewalld** enabled
-

? Step 1 — Install MySQL 8

CentOS 8 ships with MySQL 8 in its official repositories.

Install MySQL:

```
sudo dnf install mysql-server
```

Start MySQL:

```
sudo systemctl start mysqld
```

Check service:

```
sudo systemctl status mysqld
```

Enable MySQL on boot:

```
sudo systemctl enable mysqld
```

? Step 2 — Secure MySQL Installation

Run the MySQL secure installation script:

```
sudo mysql_secure_installation
```

This script allows you to:

- Set root password
- Remove anonymous users
- Disable root remote login
- Remove test DB
- Reload privilege tables

Follow the prompts accordingly.

? Step 3 — Configure MySQL for Debezium (Binary Log

Settings)

Debezium requires MySQL binary logs (binlog).

Edit MySQL config:

```
sudo nano /etc/my.conf.d/mysql-server.cnf
```

Add or update:

```
[mysqld]
server-id=1
log_bin=mysql-bin
binlog_format=ROW
binlog_row_image=FULL
expire_logs_days=7
```

Restart MySQL:

```
sudo systemctl restart mysqld
```

Verify:

```
mysql -u root -p -e "SHOW VARIABLES LIKE 'log_bin';"
mysql -u root -p -e 'SHOW VARIABLES LIKE "binlog_format";'
```

Expected:

- log_bin = ON
- binlog_format = ROW

? Step 4 — Login to MySQL

```
mysql -u root -p
```

? Step 5 — Create Kafka Connect / Debezium User

Debezium requires specific permissions.

Create user with **mysql_native_password**:

```
CREATE USER 'kafkaconnector'@'%'
IDENTIFIED WITH mysql_native_password
BY 'StrongPassword123!';
```

Grant privileges:

```
GRANT SELECT, RELOAD, SHOW DATABASES, REPLICATION SLAVE, REPLICATION CLIENT
ON *.* TO 'kafkaconnector'@'%';
```

Apply privileges:

```
FLUSH PRIVILEGES;
```

? Step 6 — Allow Remote MySQL Connections (Optional)

Edit MySQL bind address:

```
sudo nano /etc/my.conf.d/mysql-server.cnf
```

Set:

```
bind-address = 0.0.0.0
```

Restart:

```
sudo systemctl restart mysqld
```

Allow MySQL through firewall:

```
sudo firewall-cmd --add-port=3306/tcp --permanent  
sudo firewall-cmd --reload
```

? Step 7 — Verify the Kafka/Debezium User

Inside MySQL:

```
SELECT user, host, plugin FROM mysql.user;
```

You should see:

```
kafkaconnector | % | mysql_native_password
```

Test remote login:

```
mysql -u kafkaconnector -p -h <MYSQL-IP>
```

? MySQL is Ready for Kafka Connect & Debezium

You now have:

- A working MySQL 8 server
- Secured installation
- Enabled binlog for CDC
- A Debezium/Kafka-ready user
- Compatible **mysql_native_password** authentication

Next step: configure the Debezium MySQL connector in Kafka.