

Autonomous Data Warehouse built-in Data Transforms to establish database connection to a MySQL database

Test Scenario Resources

- Autonomous Data Warehouse
 - Network type: Secure access from everywhere
 - Allow Service Gateway
- MySQL vm instance running Oracle Linux 8
 - Public subnet with public ip address
 - Allow incoming connections from 0.0.0.0/0
 - Port 3306 and
 - Port 33060

Note: very important to include 33060

Provision OCI VM instance (Oracle Linux 8)

```
$ sudo yum update
```

Install Mysql 8.0.32

```
$ sudo yum install mysql-server
$ sudo systemctl start mysqld - starts the mysql service
$ sudo systemctl status mysqld
```

Access MySQL + Create Database

```
$ mysql -u root
$ mysql> show databases;
$ mysql> create database testdb; # testdb is a sample database name
```

Create New MySQL user and grant all privileges

```
CREATE USER '<username>'@'%' IDENTIFIED BY '<password>';
GRANT ALL PRIVILEGES ON *.* TO '<username>'@'%' WITH GRANT OPTION;
FLUSH PRIVILEGES;
$ mysql> exit
```

Note: very important to use '%' instead of 'localhost'

Allow Linux Firewall to accept incoming connections on port 3306 and 33060

```
$ sudo firewall-cmd --list-ports
$ sudo firewall-cmd --list-ports --zone=public
$ sudo firewall-cmd --zone=public --add-port=3306/tcp --permanent
$ sudo firewall-cmd --zone=public --add-port=33060/tcp --permanent
$ sudo firewall-cmd --reload
$ sudo systemctl restart mysqld - every time you update my.cnf for changes to take effect
```

Note: very important to include 33060

Note: you don't need to sudo reboot the server, just restart the mysqld service

Note: you don't need to add the bind-address below but just in case you encounter issues you can use this as part of troubleshooting

And you don't need to add bind-address in my.cnf

```
$ sudo vi /etc/my.cnf
```

add bind-address = 0.0.0.0 or the adw hostname adb.ap-singapore-1.oraclecloud.com

```
$ sudo systemctl restart mysqld - every time you update my.cnf for changes to take effect
```

Sample screenshot of ADW Data Transforms connection

Where:

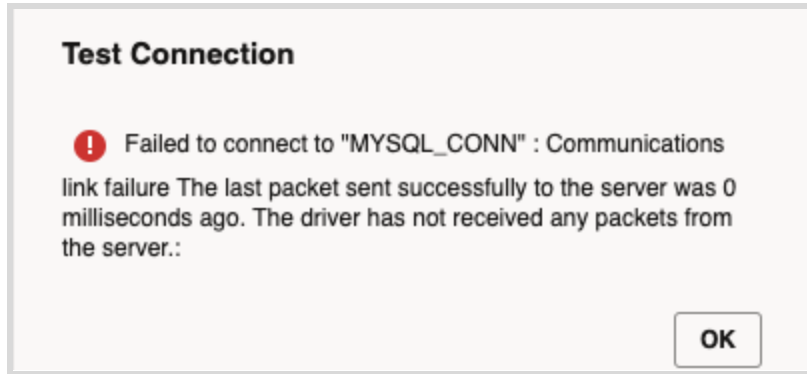
- **129.213.319.90** is the IP address of the MySQL vm instance
- **Testdb** is the MySQL database name created
- **Blue** is the MySQL username previously created with privileges

The screenshot shows the configuration interface for a new connection in the ADW Data Transforms tool. It includes fields for Connection Type, Connection Name, JDBC URL, User, and Password, along with an Advanced Options section.

Connection Type	MySQL
Connection Name	MYSQL_CONN
Connection	
JDBC URL	jdbc:mysql://129.213.139.90:3306/testdb
User	blue
Password	..
> Advanced Options	

Possible Errors encountered when Testing the connection

This one tells you it's a network error (could be firewall in oci or the mysql server instance)



This one tells you it's a mysql user privilege error

