



# SQream ODBC Connector (Linux)

**SQream Technologies**

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# Installing the ODBC Linux Driver

This article describes the prerequisites, installation and configuration of the ODBC Linux driver.

## NOTE:

This guide describes the installation of the ODBC driver for Centos 7.3. For other operating systems please contact the SQream support team.

## Prerequisites: Install UnixODBC

Download **unixODBC-2.3.7.tar.gz** from here:

<ftp://ftp.unixodbc.org/pub/unixODBC/unixODBC-2.3.7.tar.gz>

Install unixODBC based on these instructions: <http://www.unixodbc.org/>

## Installing the SQream ODBC Driver

1. Contact SQream support for the ODBC Linux driver and download it.
2. Run the following to install the driver:

```
mkdir sqream_odbc64
tar -xfsqream_odbc64.tar.gz -C sqream_odbc64
```

The folder contains a **sqream\_odbc64.so** file (this is the ODBC driver file) along with the libraries the driver uses in **./lib**.

The folder also contains the **ErrorMessages** files that the drivers use to print errors. You'll configure those later.

## Automatic installation via script

An easy-to-use installation script is provided with the driver.

## TIP:

You can see all the usage details by running `./odbc_install.sh --help`.

If you want to quickly install the driver run the following commands (run the command appropriate to your environment):

```
cd sqream_odbc64
./odbc_install.sh --install
# OR, if you have a preexisting configuration of ODBC sources use
./odbc_install.sh --install --append
```

You are now ready to test the driver.

## Manual installation

1. Copy the configuration files `.odbc.ini`, `.odbcinst.ini`, and `.sqream_odbc.ini` from the Configuration folder.

Or modify the existing ones if you already have a SQream ODBC configuration.

2. Open each of these configuration files and replace `[PATH_ODBC]` with the path to the location of the driver, the lib folder and the ErrorMessage folder.

### WARNING:

If you compiled unixODBC with the flag `"-DSQL_WCHART_CONVERT"` or `"UTF-16"`, the `DriverManagerEncoding` field of `.sqream_odbc.ini` must be configured to `"UTF-32"`.

3. Modify the DSN to point to your SQream DB database

You can edit the default DSN from the `.odbc.ini` file or add additional DSNs.

The default DSN is accessible through the configuration sample and is named `"SqreamODBC"`.

A valid DSN should follow this template:

```
[source,bash]
[{{DSN name}}]
Driver={path of sqream_odbc.so}
Description=sqream64
Server={IP address of the SQream server}
Port={Listener port of SQream}
Database={SQream database to connect to}
Service={SQream service to connect to, if not present default to
"sqream"} - optional
User={SQream DB user}
Password={password of the above SQream DB user}
Cluster={true | false}
Ssl={true | false}
```

4. Define the environment parameters:

Declare the lib/ path to the environment.

In order for `sqream_driver64.so` to find the furnished libraries, please run the following command where `[PATH_EXTRACT]` is the path to the location of the driver:

```
export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:[PATH_EXTRACT]/lib
```

## Testing the SQream ODBC Driver

Use the ISQL utility to test the driver:

On the command line, specify the DSN name:

```
isql [DSN name]
```

For the above example this would be:

```
isql SqreamODBC
```

### NOTE:

ISQL is a unixODBC command-line interactive SQL tool that can be used as a tester. No additional installation is required (UnixODBC is a pre-requisite for SQream).

For more information, see <https://www.systutorials.com/docs/linux/man/1-isql/>