

DEV-CDM MSSql ODBC

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Microsoft provide database drivers specifically for Red Hat Enterprise to connect to SQL Server (<https://msdn.microsoft.com/en-us/library/hh568451.aspx>). CentOS is derived from Red Hat so the same driver will usually work with CentOS just as well. Version 13.0 works with Red Hat 6 and 7. The following instructions are for version 13 only.

Add the RHEL 6 library for Centos-7 of MSSQL driver. Centos7 uses RHEL-6 Libraries.

```
sudo su curl https://packages.microsoft.com/config/rhel/6/prod.repo > /etc/yum.repos.d/mssql-release.repo
exit
```

Uninstall if already installed Unix ODBC driver

```
sudo yum remove unixODBC-utf16 unixODBC-utf16-devel #to avoid conflicts
```

Install the msodbcsql unixODBC-utf16 unixODBC-utf16-devel driver

```
sudo ACCEPT_EULA=Y yum install msodbcsql
```

#optional: for bcp and sqlcmd

```
sudo ACCEPT_EULA=Y yum install mssql-tools
```

```
echo 'export PATH="$PATH:/opt/mssql-tools/bin"' >> ~/.bash_profile
```

```
echo 'export PATH="$PATH:/opt/mssql-tools/bin"' >> ~/.bashrc
```

```
source ~/.bashrc
```

optional: for unixODBC development headers

```
sudo yum install unixODBC-devel
```

the Microsoft driver expects unixODBC to be here /usr/lib64/libodbc.so.1, so add soft links to the '.so.2' files

```
cd /usr/lib64
```

```
sudo ln -s libodbccr.so.2 libodbccr.so.1
```

```
sudo ln -s libodbcinst.so.2 libodbcinst.so.1
```

```
sudo ln -s libodbc.so.2 libodbc.so.1
```

Set the path for unixODBC

```
export ODBCINI=/usr/local/etc/odbc.ini
```

```
export ODBCYSINI=/usr/local/etc
```

```
source ~/.bashrc
```

Prepare a temp file for defining the DSN to your database server

```
vi /home/user/odbcadd.txt
```

```
[MyMSSQLServer] Driver = ODBC Driver 13 for SQL Server
```

Description = My MS SQL Server

Trace = No

Server = 10.100.1.10

register the SQL Server database DSN information in /etc/odbc.ini

```
sudo odbcinst -i -s -f /home/user/odbcadd.txt -l
```

check the DSN installation with:

```
cat /etc/odbc.ini
```

should contain a section called [MyMSSQLServer]

install the python driver for database connection

```
pip install pypyodbc
```

```
pip install pyodbc
```

Additionally You can check the following 2 website for connection

<https://janikarhunen.fi/connecting-to-sqlserver-from-python-app-on-centos-7.html>

<https://docs.microsoft.com/en-us/sql/connect/odbc/linux-mac/installing-the-microsoft-odbc-driver-for-sql-server>

From <<https://github.com/mkleehammer/pyodbc/wiki/Connecting-to-SQL-Server-from-RHEL-6-or-Centos-7>>