**MariaDB CONNECT engine 透過ODBC建立DB link**

1.安裝oracle client及建立ODBC

wget http://10.67.50.92/Oracle/Oracle11-client-rpm/oracle-instantclient11.2-basic-11.2.0.4.0-1.x86\_64.rpm

wget http://10.67.50.92/Oracle/Oracle11-client-rpm/oracle-instantclient11.2-devel-11.2.0.4.0-1.x86\_64.rpm

wget http://10.67.50.92/Oracle/Oracle11-client-rpm/oracle-instantclient11.2-odbc-11.2.0.4.0-1.x86\_64.rpm

wget http://10.67.50.92/Oracle/Oracle11-client-rpm/oracle-instantclient11.2-sqlplus-11.2.0.4.0-1.x86\_64.rpm

wget http://10.67.50.92/ODBC-linux/unixODBC-2.2.14-14.el6.x86\_64.rpm

wget http://10.67.50.92/ODBC-linux/unixODBC-devel-2.2.14-14.el6.x86\_64.rpm

wget http://10.67.50.92/Mariadb/MariaDB-10.2.12-centos6rpm/MariaDB-10.2.12-centos6-x86\_64-connect-engine.rpm

#rpm -ivh oracle-instantclient11.2-basic-11.2.0.4.0-1.x86\_64.rpm

#rpm -ivh oracle-instantclient11.2-devel-11.2.0.4.0-1.x86\_64.rpm

#rpm -ivh oracle-instantclient11.2-odbc-11.2.0.4.0-1.x86\_64.rpm

#rpm -ivh oracle-instantclient11.2-sqlplus-11.2.0.4.0-1.x86\_64.rpm

#rpm -ivh unixODBC-2.2.14-14.el6.x86\_64.rpm

#rpm -ivh unixODBC-devel-2.2.14-14.el6.x86\_64.rpm

新增LD\_LIBRARY\_PATH

#vi /etc/ld.so.conf.d/oracle.conf

/usr/lib/oracle/11.2/client64/lib

#ldconfig

新增oracle home

#vi /etc/profile.d/oracle.sh

export ORACLE\_HOME=/usr/lib/oracle/11.2/client64

#vi /etc/odbcinst.ini

[Oracle 11g driver]

Description = Oracle ODBC Connection

Driver = /usr/lib/oracle/11.2/client64/lib/libsqora.so.11.1

UsageCount=1

FileUsage=1

Driver Logging = 7

#vi /etc/odbc.ini

[MYORACLE]

Driver = Oracle 11g driver

ServerName = //10.67.49.2:1600/tjb2bdb

UserName =

Password =

用isql測試odbc:

# isql -v MYORACLE

[01000][unixODBC][Driver Manager]Can't open lib '/usr/lib/oracle/11.2/client64/lib/libsqora.so.11.1' : file not found

[ISQL]ERROR: Could not SQLConnect

用ldd檢查lib問題- 沒有libsqora.so.11.1執行權限, 以及找不到libodbcinst.so.1

# ldd /usr/lib/oracle/11.2/client64/lib/libsqora.so.11.1

ldd: warning: you do not have execution permission for `/usr/lib/oracle/11.2/client64/lib/libsqora.so.11.1'

libodbcinst.so.1 => not found

# whereis libodbcinst.so.1

libodbcinst.so: /usr/lib64/libodbcinst.so /usr/lib64/libodbcinst.so.2

只找到libodbcinst.so及libodbcinst.so.2, 用ln來創造libodbcinst.so.1軟鏈接

# ln -s /usr/lib64/libodbcinst.so.2 /usr/lib64/libodbcinst.so.1

授權libsqora.so.11.1給所有用戶讀取及執行的權限

# chmod 755 /usr/lib/oracle/11.2/client64/lib/libsqora.so.11.1

# isql -v MYORACLE

[28000][unixODBC][Oracle][ODBC][Ora]ORA-01017: invalid username/password; logon denied

需要輸入db帳號及密碼

# isql -v MYORACLE <username> <password>

+---------------------------------------+

| Connected! |

| |

| sql-statement |

| help [tablename] |

| quit |

| |

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安裝mariadb connect engine, 可以用show engines;查看是否已安裝

# rpm -ivh MariaDB-10.2.12-centos6-x86\_64-connect-engine.rpm

# mysql -uroot -pFoxconn123

mysql> INSTALL SONAME 'ha\_connect';

在test db中創建db link table

mysql> use test;

mysql> create table PF\_AGENT ENGINE=CONNECT TABLE\_TYPE=ODBC tabname='B2BPORTAL.PF\_AGENT' CONNECTION='DSN=MYORACLE;UID=<username>;PWD=<password>';

透過讀取本地table FP\_AGENT, 抓取遠端oracle的資料

mysql> select \* from PF\_AGENT;

2.Mariadb odbc安裝

# tar -xvzf mariadb-connector-odbc-3.1.3-ga-rhel6-x86\_64.tar.gz

# install lib64/libmaodbc.so /usr/lib64/

# vi /etc/odbcinst.ini

[mariadb]

Description = ODBC for Mariadb

Driver64 = /usr/lib64/libmaodbc.so

Setup64 = /usr/lib64/libodbcmyS.so

FileUsage = 1

# vi /etc/odbc.ini

[10.67.38.92]

Driver = mariadb

Server = 10.67.38.92

Database = mysql

Port = 3306

# isql -v 10.67.38.92 <username> <password>

+---------------------------------------+

| Connected! |

| |

| sql-statement |

| help [tablename] |

| quit |

| |

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# mysql -uroot -pFoxconn123

mysql> use test;

mysql> create table test\_mysql ENGINE=CONNECT TABLE\_TYPE=ODBC tabname='db' CONNECTION='DSN=10.67.38.92;UID=<username>;PWD=<password>';

mysql> select \* from test\_mysql;

3.mysql odbc安裝

# rpm -ivh mysql-connector-odbc-5.3.13-1.el6.x86\_64.rpm

libmyodbc5a.so 是ASCII编码格式

libmyodbc5w.so 是UNICODE编码格式

# vi /etc/odbcinst.ini

[MySQL]

Description = ODBC for MySQL

Driver = /usr/lib/libmyodbc5.so

Setup = /usr/lib/libodbcmyS.so

Driver64 = /usr/lib64/libmyodbc5w.so

Setup64 = /usr/lib64/libodbcmyS.so

FileUsage = 1

# vi /etc/odbc.ini

[myodbc]

Driver = MySQL

Description = mysql odbc 5 Driver

SERVER = 10.67.38.92

PORT = 3306

USER =

Password =

Database = mysql

OPTION = 3

charset=UTF8

# isql -v myodbc <username> <password>

+---------------------------------------+

| Connected! |

| |

| sql-statement |

| help [tablename] |

| quit |

| |

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# mysql -uroot -pFoxconn123

MariaDB [(none)]> use test;

Database changed

MariaDB [test]> create table test\_db ENGINE=CONNECT TABLE\_TYPE=ODBC tabname='db' CONNECTION='DSN=myodbc;UID=<username>;PWD=<password>';

ERROR 2013 (HY000): Lost connection to MySQL server during query

測試結果發現mysql odbc 5.3 driver無法搭配mariadb connect engine使用

4. mssql odbc安裝, 天津yum源有freetds, 直接安裝freetds

# yum install freetds

# vi /etc/odbcinst.ini

# Driver for freetds

[FreeTDS]

Description = Freetds v 0.91

Driver = /usr/lib64/libtdsodbc.so.0

# vi /etc/odbc.ini

[10.62.163.2]

Driver = FreeTDS

Description = ISTP Center DB

Trace = No

Server = 10.62.163.2

Port = 3000

TDS version =

Database = SeagateCentralDB

# isql 10.62.163.2 <username> <password>

+---------------------------------------+

| Connected! |

| |

| sql-statement |

| help [tablename] |

| quit |

| |

+---------------------------------------+

# mysql -uroot -pFoxconn123

mysql> use test;

mysql> create table test\_mssql ENGINE=CONNECT TABLE\_TYPE=ODBC tabname='ZPE\_ISTPCOMP1' CONNECTION='DSN=10.62.163.2;UID=<username>;PWD=<password>';

mysql> select \* from test\_mssql limit 10;