**Installing SQL\*Loader Client on Ubuntu**

1. Go to link <http://www.oracle.com/technetwork/topics/linuxx86-64soft-092277.html> and download the below three packages. You will need an OTN account to download. Accept the agreement and login with your account.

oracle-instantclient12.2-basiclite-12.2.0.1.0-1.x86\_64rpm

oracle-instantclient12.2-tools-12.2.0.1.0-1.x86\_64.rpm

1. Download “alien” to install the rpm packages. In case you are not able to install due to lock files, you can look at the notes below:

**# sudo apt-get install alien**

Troubleshooting Notes:

If you get error messages like below. Run the following commands. Then rerun the above command:

**# sudo rm /var/lib/dpkg/lock-frontend**

**# sudo rm /var/lib/dpkg/lock**

1. Using alien install the 3 rpm packages. The packages might take some time to download. So, give it few minutes to finish. Make sure no error messages are displayed:

**# sudo alien -i** [**oracle-instantclient12.2-basiclite-12.2.0.1.0-1.x86\_64.rpm**](http://download.oracle.com/otn/linux/instantclient/122010/oracle-instantclient12.2-basic-12.2.0.1.0-1.x86_64.rpm)

**# sudo alien -i** [**oracle-instantclient12.2-tools-12.2.0.1.0-1.x86\_64.rpm**](http://download.oracle.com/otn/linux/instantclient/122010/oracle-instantclient12.2-devel-12.2.0.1.0-1.x86_64.rpm)

1. Install libaio1 package. If you get the error message for locks, just delete them. Refer step-2 notes. Then run the below command

**# sudo apt-get install libaio1**

1. Go to /usr/lib/oracle/12.2/client64 and create folders network and admin. Change permissions on the folder so that tnsnames.ora can be edited:

**# sudo mkdir network**

**# sudo chmod 777 network**

Change directory to network

**# sudo mkdir admin**

**# sudo chmod 777 admin**

1. In admin folder create “sqlnet.ora” file. You can copy paste the below contents and save.

SQLNET.AUTHENTICATION\_SERVICES=(NTS)

NAMES.DIRECTORY\_PATH=(LDAP,TNSNAMES,ONAMES,HOSTNAME)

DEFAULT\_SDU\_SIZE=8761

1. In admin folder create “tnsnames.ora” file. You can copy paste the below contents and save.

FOODMART =

  (DESCRIPTION =

    (ADDRESS = (PROTOCOL = TCP)(HOST = 172.16.11.234)(PORT = 1521))

    (CONNECT\_DATA =

      (SERVER = DEDICATED)

      (SERVICE\_NAME = FOODMART)

   )

  )

1. Setup your environment for Oracle by adding paths to the /home/.bashrc file

Open file using “nano ~/.bashrc”. Then add the below lines to the file. Ensure your Oracle installation path is correct:

**ORACLE\_HOME=/usr/lib/oracle/12.2/client64**

**export ORACLE\_HOME**

**LD\_LIBRARY\_PATH=$ORACLE\_HOME/lib**

**export LD\_LIBRARY\_PATH**

**TNS\_ADMIN=$ORACLE\_HOME/network/admin**

**export TNS\_ADMIN**

**export PATH=$PATH:$ORACLE\_HOME/bin**

**# source ~/.bashrc**

1. Set up the paths in /etc/ld.so.conf.d/oracle.conf file by adding the below line:

**/usr/lib/oracle/12.2/client64/lib/**

1. Change permissions on the file and execute the command after that

**# chmod 755 /etc/ld.so.conf.d/oracle.conf**

**# sudo ldconfig**

1. Setup the variables for oracle by adding the below lines to /etc/profile.d/oracle.sh

**export ORACLE\_HOME=/usr/lib/oracle/12.2/client64**

**export TNS\_ADMIN=$ORACLE\_HOME/network/admin**

**export PATH=$PATH:$ORACLE\_HOME/bin**

Change permissions on the file

**# sudo chmod 755 /etc/profile.d/oracle.sh**

1. Ensure **ojdbc7.jar** or **ojdbc8.jar** file exists in Pentaho/design-tools/data-integration/lib.