Step-by-Step guide to Install ora2pg on Linux



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This document is meant to be used as a Quick Installation Guide for enabling migration of schema & data from Oracle to Azure Database for PostgreSQL using ora2pg tool. Complete details on the tool can be found at http://ora2pg.darold.net/documentation.html

Pre-Requisites

The following software must be installed on the Linux machine prior to installing ora2pg:

* Perl 5.10 or more
* Oracle Instant Client or Full Oracle installation
* DBD::Oracle Perl Module
* ora2pg

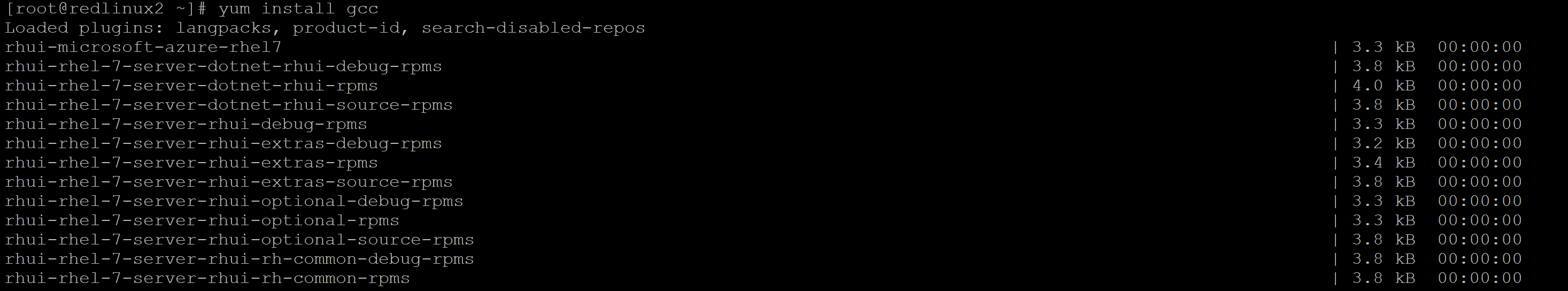
It is recommended that you use the order above to proceed with the installation.

Note that this guide was based on a Red Hat Enterprise Linux 7.4 virtual machine. I recommend to install everything using root user, for simplicity.

Installing Perl 5.10 or more

1. Install GCC first – not all versions of Linux comes with gcc installed. As root:

yum install gcc



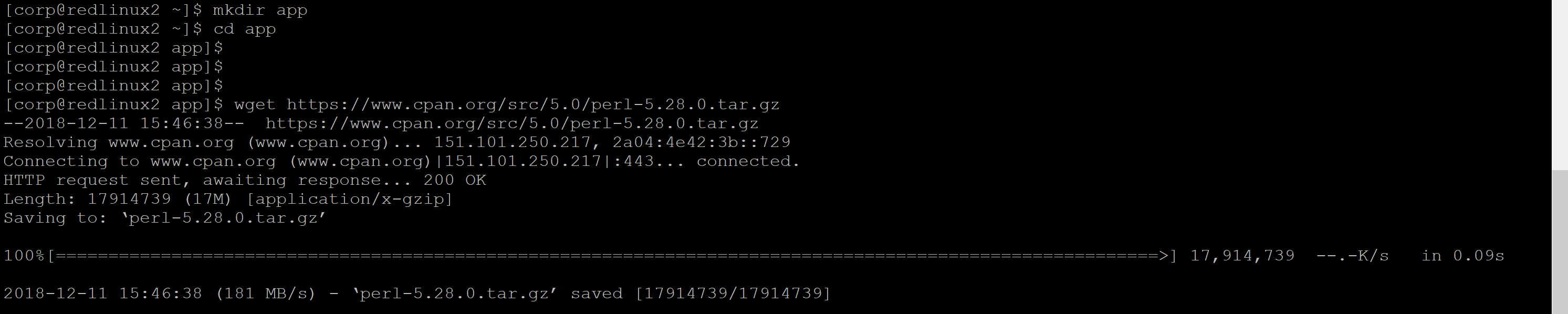
1. Create a directory for the Perl installation.

mkdir app

cd app

1. Download Perl

wget <https://www.cpan.org/src/5.0/perl-5.28.0.tar.gz>



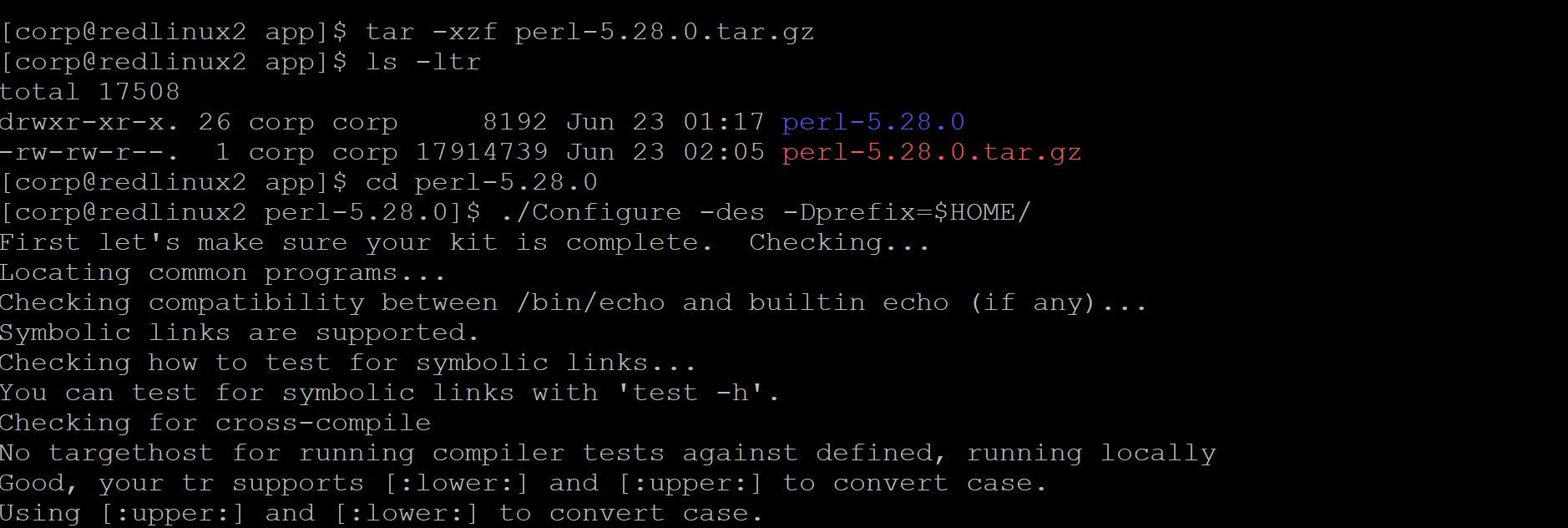
1. Untar/unzip Perl

tar -xzf perl-5.28.0.tar.gz

1. Navigate to the Perl folder and configure $HOME (This will run for a while…)

cd perl-5.28.0

./Configure -des -Dprefix=$HOME/

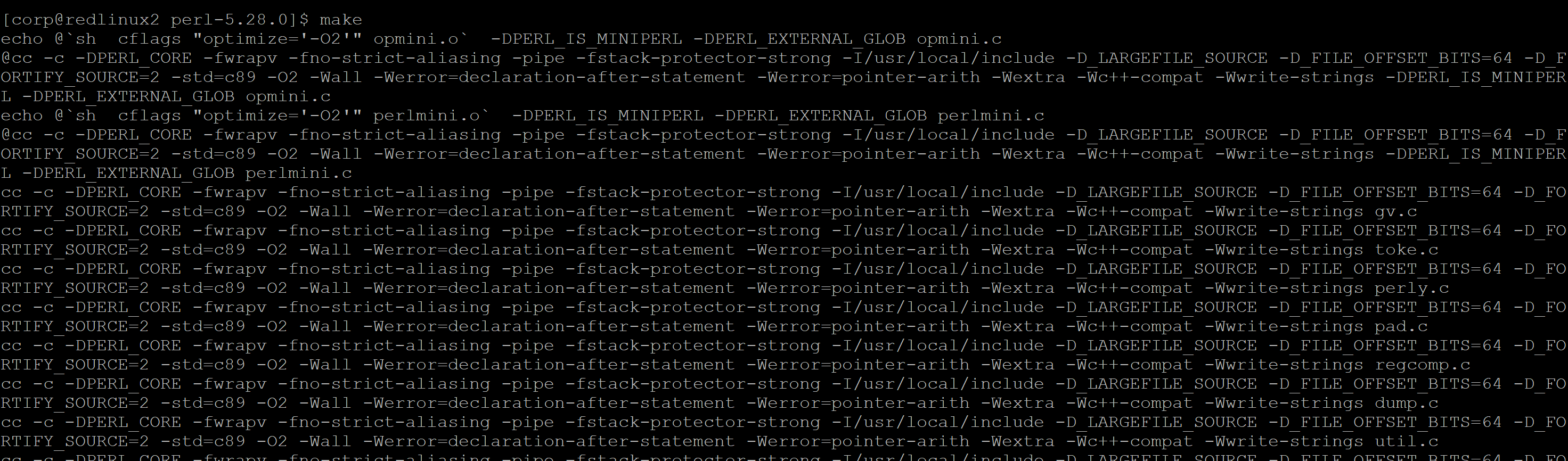


1. Install Perl (it will take a while…)

make

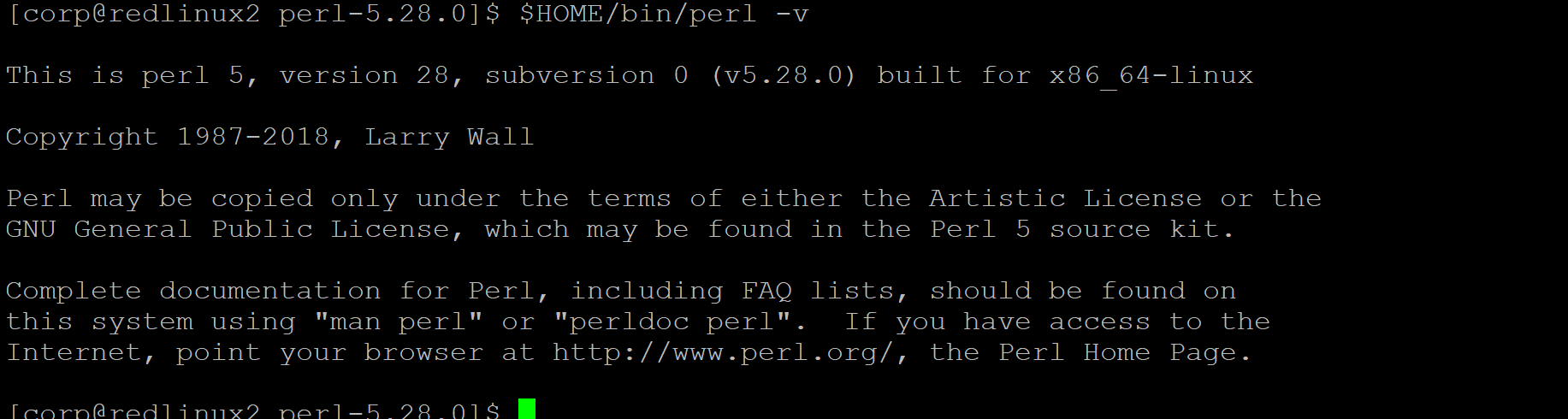
make test

make install



1. Once steps 1-6 are executed, check the (new) version of Perl by typing

$HOME/bin/perl -v



1. Make this Perl installation the default one by adding the path to .bashrc file

export PATH=$HOME/bin/:$PATH

All commands:

yum install gcc

mkdir app

cd app

wget https://www.cpan.org/src/5.0/perl-5.28.0.tar.gz

tar -xzf perl-5.28.0.tar.gz

cd perl-5.28.0

./Configure -des -Dprefix=$HOME/

make

make test

make install

$HOME/bin/perl -v

export PATH=$HOME/bin/:$PATH

Installing Oracle Instant Client or Full Oracle Installation

1. Before proceeding with the oracle installation, please run the following commands to update certain required packages on Red Hat 7.4. As root

yum update

yum install -y binutils.x86\_64 compat-libcap1.x86\_64 gcc.x86\_64 gcc-c++.x86\_64 glibc.i686 glibc.x86\_64 glibc-devel.i686 glibc-devel.x86\_64 ksh compat-libstdc++-33 libaio.i686 libaio.x86\_64 libaio-devel.i686 libaio-devel.x86\_64 libgcc.i686 libgcc.x86\_64 libstdc++.i686 libstdc++.x86\_64 libstdc++-devel.i686 libstdc++-devel.x86\_64 libXi.i686 libXi.x86\_64 libXtst.i686 libXtst.x86\_64 make.x86\_64 sysstat.x86\_64 zip unzip

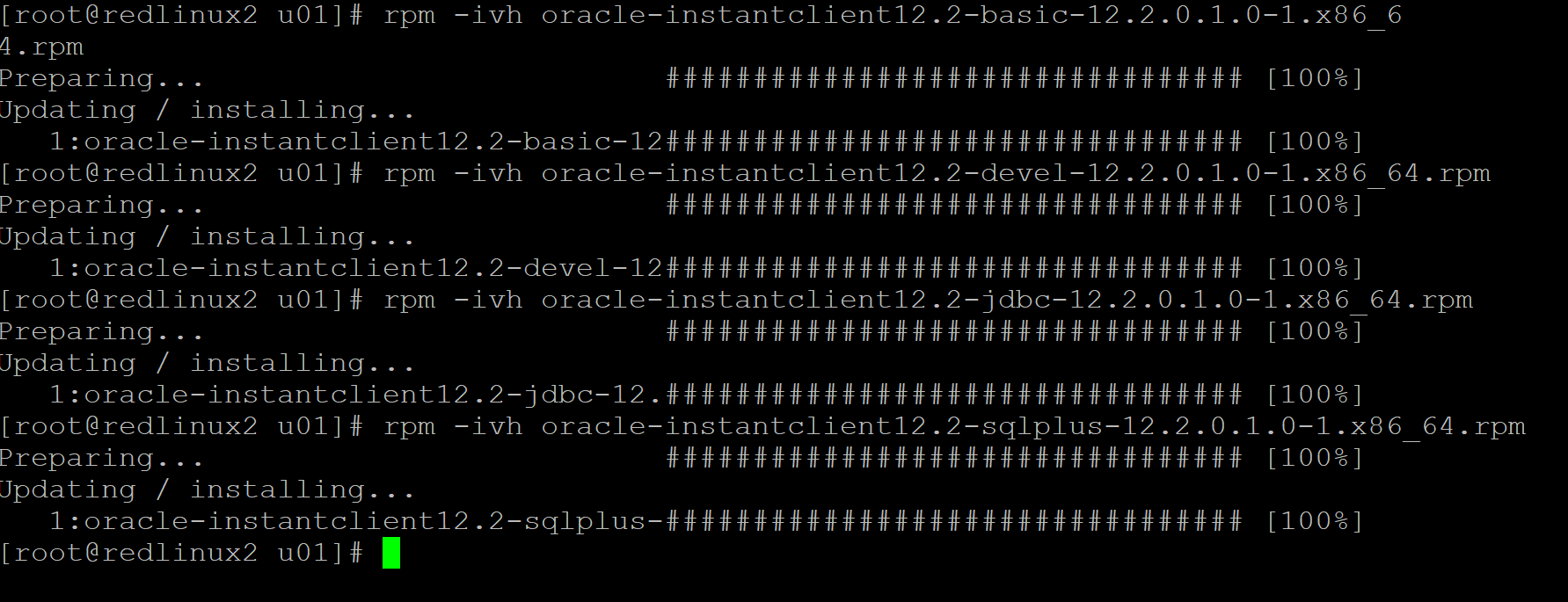
1. Download the oracle RPMs and copy it to the Linux machine.
2. Install the RPMs in the following order (as root):

rpm -ivh oracle-instantclient12.2-basic-12.2.0.1.0-1.x86\_64.rpm

rpm -ivh oracle-instantclient12.2-devel-12.2.0.1.0-1.x86\_64.rpm

rpm -ivh oracle-instantclient12.2-jdbc-12.2.0.1.0-1.x86\_64.rpm

rpm -ivh oracle-instantclient12.2-sqlplus-12.2.0.1.0-1.x86\_64.rpm



1. SET the LD\_LIBRARY\_PATH and ORACLE\_HOME variables:

export LD\_LIBRARY\_PATH=/usr/lib/oracle/12.2/client64/lib

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

Installing DBD::Oracle Perl Module

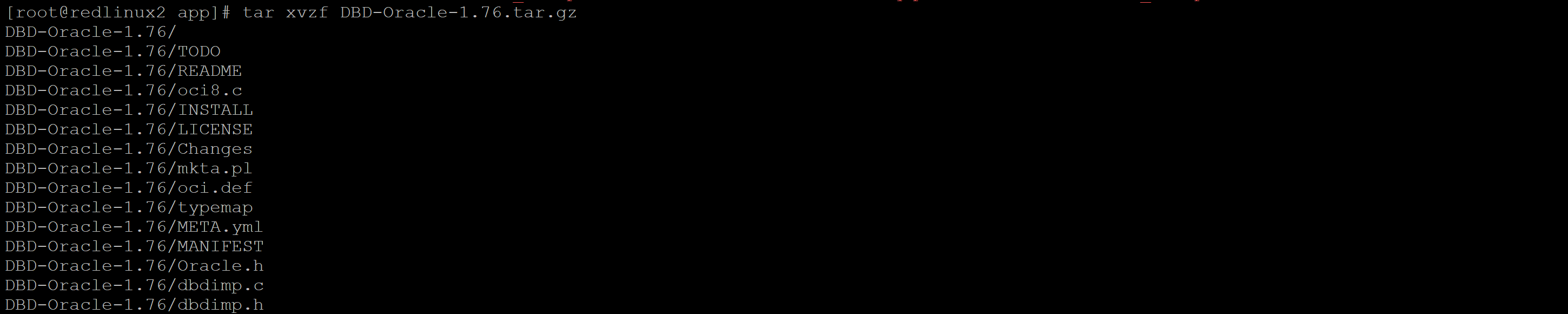
1. Before proceeding with the installation of the module, make sure to install Perl-Devel module (as root):

yum install perl-devel

yum install perl-DBI

1. Download the DBD::Oracle Perl Module and copy/upload it to the Linux machine
2. Untar/Unzip the module and navigate to the folder

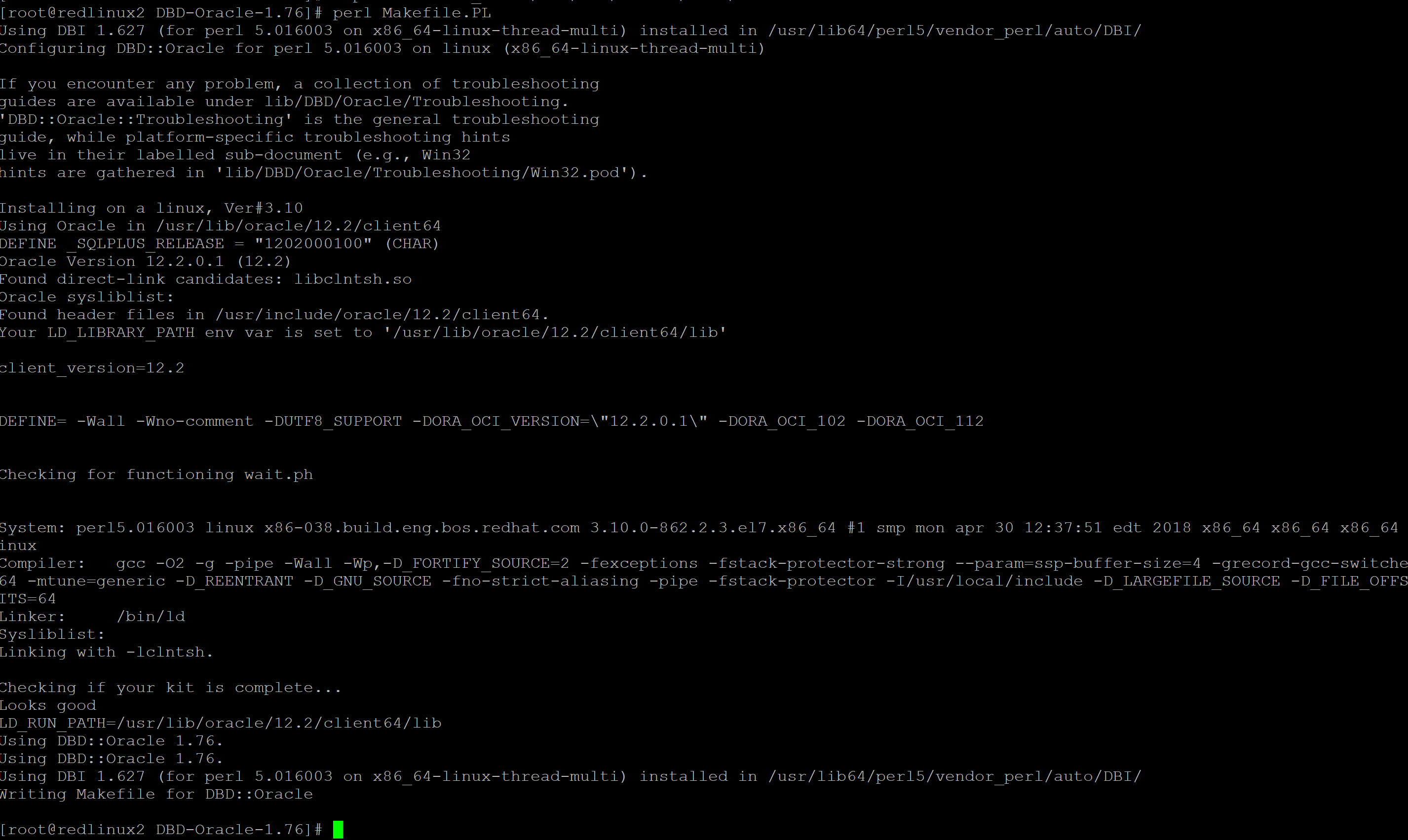
tar xvzf DBD-Oracle-1.76.tar.gz



cd DBD-Oracle-1.76

1. Install the Perl Module

perl Makefile.PL



make && make install



Installing ora2pg

1. Download ora2pg and copy/upload it to the Linux machine
2. Untar/unzip the file

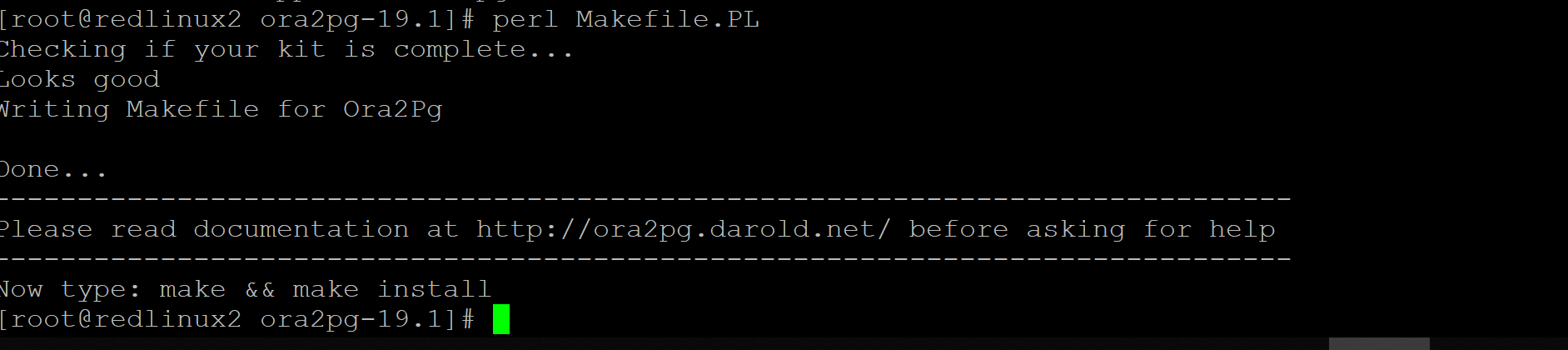
tar xjf ora2pg-19.1.tar.bz2

1. Navigate to the ora2pg folder

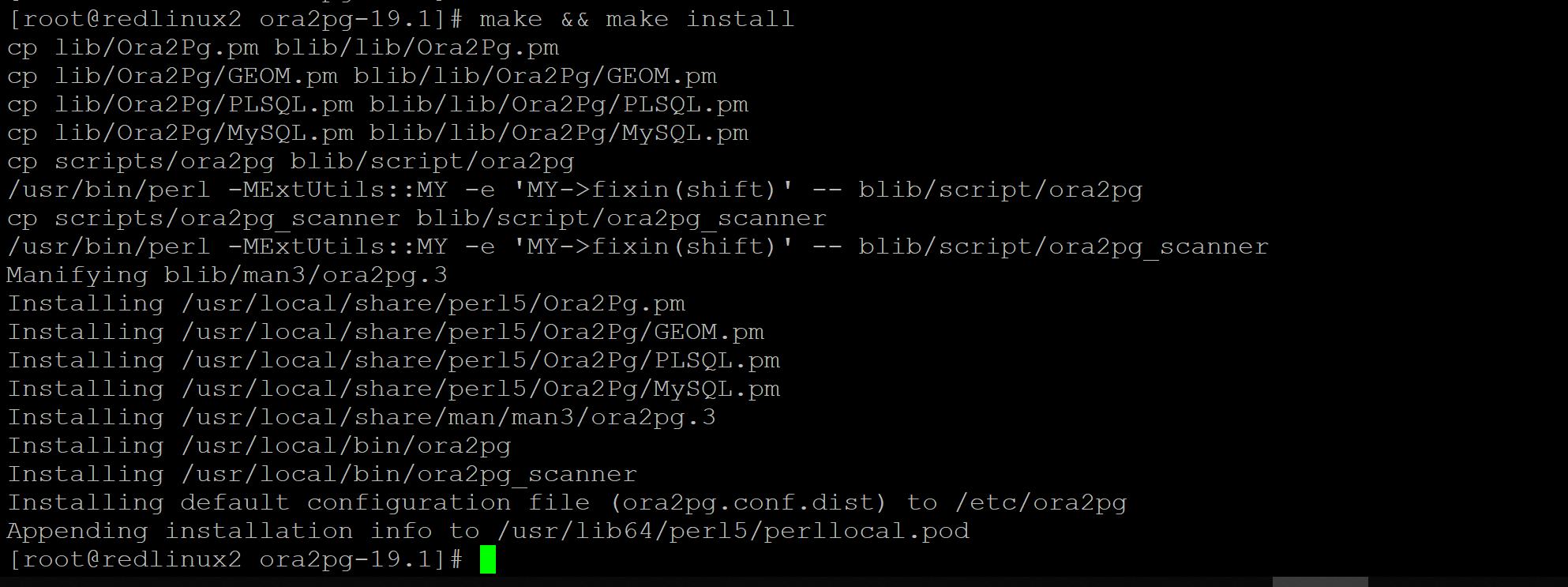
cd ora2pg-19.1/

1. Install ora2pg

perl Makefile.PL



make && make install



Testing ora2pg installation

Type ora2pg –version as following:

ora2pg --version

References

<http://ora2pg.darold.net/documentation.html>

<https://www.oracle.com/technetwork/database/enterprise-edition/downloads/index.html>

<https://metacpan.org/pod/DBD::Oracle>