

20240827

리눅스

MariaDB , oracle 설치

MariaDB 설치

터미널에서

apt install -y mariadb-server mariadb-client 설치

```
root@worker02:~# mysql_secure_installation 설치후 입력
NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MariaDB
SERVERS IN PRODUCTION USE! PLEASE READ EACH STEP CAREFULLY!

In order to log into MariaDB to secure it, we'll need the current
password for the root user. If you've just installed MariaDB, and
you haven't set the root password yet, the password will be blank,
so you should just press enter here.

Enter current password for root (enter for none):
OK, successfully used password, moving on...

Setting the root password ensures that nobody can log into the MariaDB
root user without the proper authorisation.

Set root password? [Y/n] y
New password:
Re-enter new password:
Password updated successfully!
Reloading privilege tables..
... Success!

By default, a MariaDB installation has an anonymous user, allowing anyone
to log into MariaDB without having to have a user account created for
them. This is intended only for testing, and to make the installation
go a bit smoother. You should remove them before moving into a
production environment.

Remove anonymous users? [Y/n] y
... Success!

Normally, root should only be allowed to connect from 'localhost'. This
ensures that someone cannot guess at the root password from the network.

Disallow root login remotely? [Y/n] y
... Success!
```

새로 변경할 비밀번호 입력

```
Remove test database and access to it? [Y/n] n
... skipping.

Reloading the privilege tables will ensure that all changes made so far
will take effect immediately.

Reload privilege tables now? [Y/n] y
... Success!

Cleaning up...

All done! If you've completed all of the above steps, your MariaDB
installation should now be secure.

Thanks for using MariaDB!
root@worker02:~#
```

MariaDB 설치

```
uru@worker02:~$ sudo -i
root@worker02:~# cd /etc
root@worker02:/etc# cd /mysql
bash: cd: /mysql: 그런 파일이나 디렉터리가 없습니다
root@worker02:/etc# cd mysql
root@worker02:/etc/mysql# ls -l
합계 24
lrwxr-xr-x 2 root root 4096 3월 17 2023 conf.d
lrwxr-xr-x 1 root root 1620 12월 2 2023 debian-start
-rw----- 1 root root 261 8월 28 16:10 debian.cnf
-rw-r--r-- 1 root root 869 12월 2 2023 mariadb.cnf
lrwxr-xr-x 2 root root 4096 8월 28 16:23 mariadb.conf.d
-rwxrwxrwx 1 root root 24 8월 28 14:38 my.cnf -> /etc/alternatives/my.cnf
-rw-r--r-- 1 root root 839 8월 3 2016 my.cnf.fallback
root@worker02:/etc/mysql# cd mariadb.conf.d
root@worker02:/etc/mysql/mariadb.conf.d# ls -l
합계 16
-rw-r--r-- 1 root root 733 12월 2 2023 50-client.cnf
-rw-r--r-- 1 root root 336 12월 2 2023 50-mysql-clients.cnf
-rw-r--r-- 1 root root 1032 12월 2 2023 50-mysqld_safe.cnf
-rw-r--r-- 1 root root 3942 8월 28 16:23 50-server.cnf
root@worker02:/etc/mysql/mariadb.conf.d# vi 50-server.cnf
```

vi 50-server.cnf 로 들어가기

MariaDB 설치

```
[mysqld]
#
# * Basic Settings
#
user                = mysql
pid-file             = /run/mysqld/mysqld.pid
socket              = /run/mysqld/mysqld.sock
#port                = 3306
basedir              = /usr
datadir              = /var/lib/mysql
tmpdir               = /tmp
lc-messages-dir     = /usr/share/mysql
#skip-external-locking

# Instead of skip-networking the default is now to listen only on
# localhost which is more compatible and is not less secure.
# bind-address        = 127.0.0.1

#
# * Fine Tuning
#
#key_buffer_size     = 16M
search hit TOP, continuing at BOTTOM
```

bind-address 에 # 주석처리

MariaDB 설치

```
root@worker02:~# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 12
Server version: 10.3.39-MariaDB-0ubuntu0.20.04.2 Ubuntu 20.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> alter user 'root'@'localhost' identified by 'root';
Query OK, 0 rows affected (0.000 sec)

MariaDB [(none)]> create user 'root'@'%' identified by 'root';
ERROR 1396 (HY000): Operation CREATE USER failed for 'root'@'%'
MariaDB [(none)]> GRANT ALL PRIVILEGES on *.* TO 'root'@'%' WITH GRANT OPTION;
Query OK, 0 rows affected (0.000 sec)

MariaDB [(none)]> █
```

mariaDB접속후
밑에 명령문 추가
추가 후 exit
그리고 systemctl restart/enable/status
mariadb 실행

MariaDB 설치

Setup New Connection

Connection Name: mariadb2 Type a name for the connection

Connection Method: Standard (TCP/IP) Method to use to connect to the RDBMS

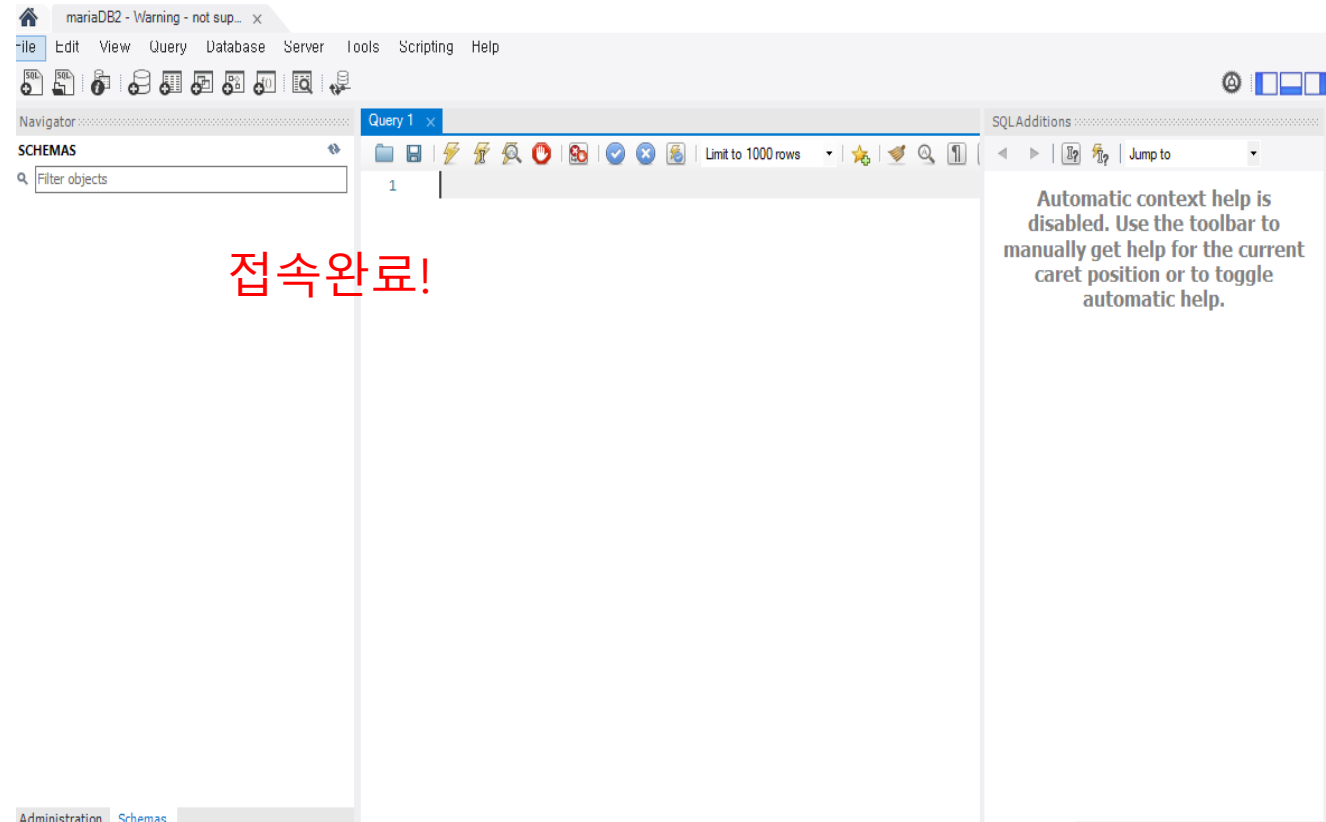
Parameters SSL Advanced 리눅스 ip주소 입력

Hostname: 192.168.111.101 Port: 3306 Name or IP address of the server host - and TCP/IP port.

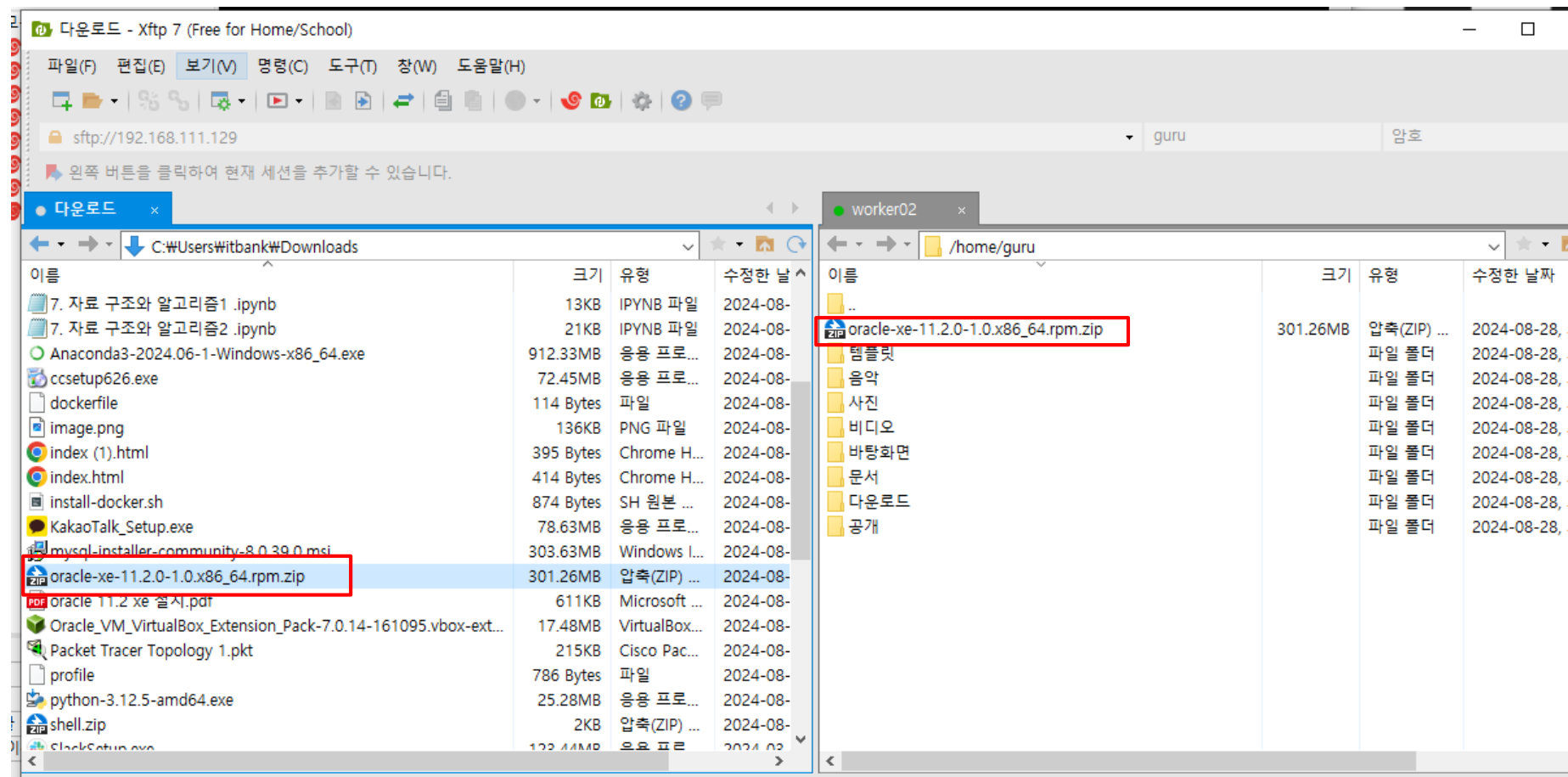
Username: root Name of the user to connect with.

Password: Store in Vault ... Clear The user's password. Will be requested later if it's not set.

Default Schema: The schema to use as default schema. Leave blank to select it later.

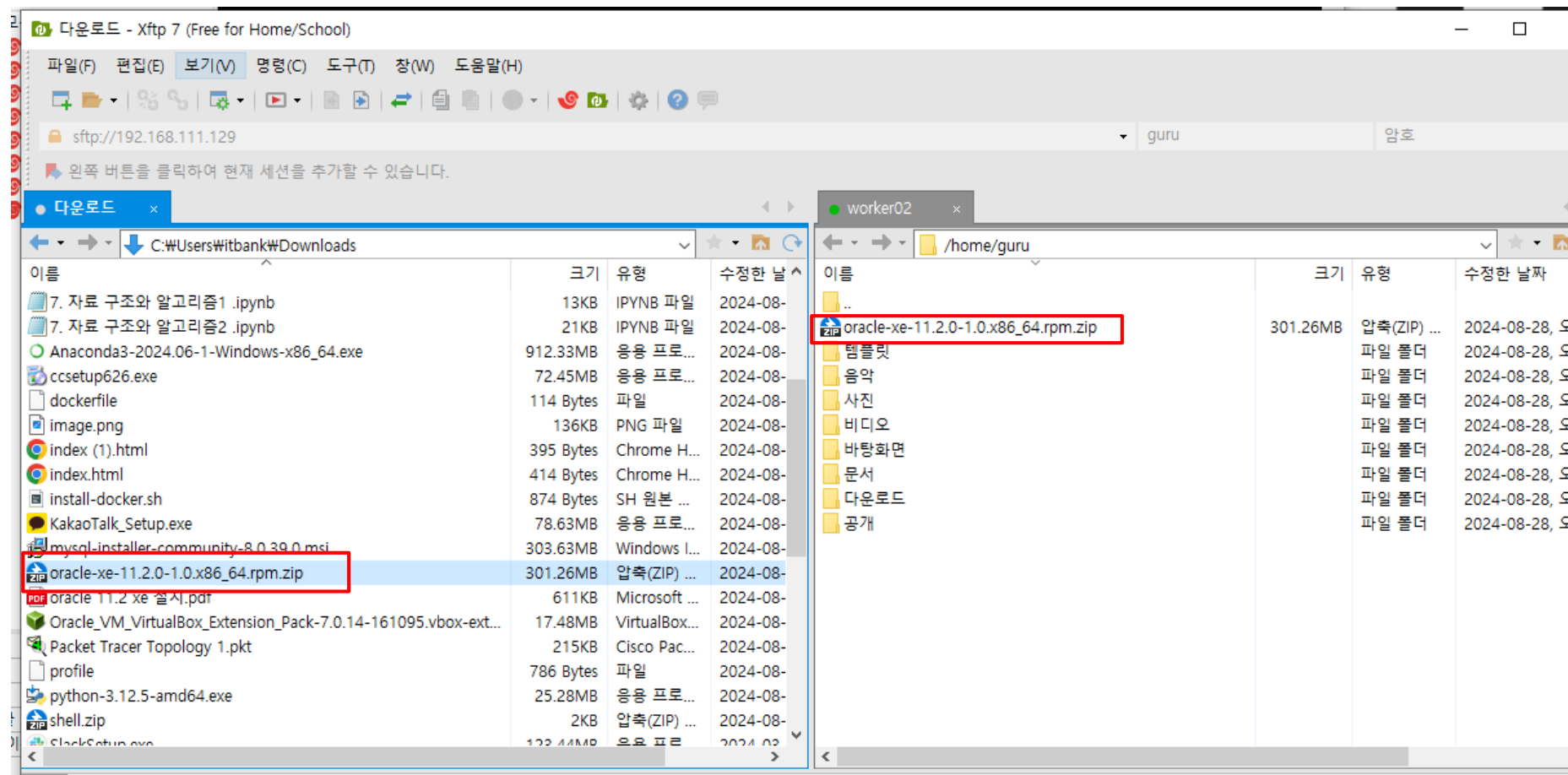


linux_Oracle 설치



xftp에서
oracle.zip파일
옮기기

linux_Oracle 설치



xftp에서
oracle.zip파일
옮기기

linux_Oracle 설치

```
guru@worker02: ~  
guru@worker02:~/바탕화면$ cd  
guru@worker02:~$ ls -l  
합계 308524  
-rw-rw-r-- 1 guru guru 315891481 8월 28 15:22 oracle-xe-11.2.0-1.0.x86_64.rpm.zip  
drwxr-xr-x 2 guru guru 4096 8월 28 15:14 공개  
drwxr-xr-x 2 guru guru 4096 8월 28 15:14 다운로드  
drwxr-xr-x 2 guru guru 4096 8월 28 15:14 문서  
drwxr-xr-x 2 guru guru 4096 8월 28 15:14 바탕화면  
drwxr-xr-x 2 guru guru 4096 8월 28 15:14 비디오  
drwxr-xr-x 2 guru guru 4096 8월 28 15:14 사진  
drwxr-xr-x 2 guru guru 4096 8월 28 15:14 음악  
drwxr-xr-x 2 guru guru 4096 8월 28 15:14 템플릿  
guru@worker02:~$
```

linux_Oracle 설치

```
guru@worker02:~$ sudo apt install -y alien
[sudo] guru의 암호:
패키지 목록을 읽는 중입니다... 완료
의존성 트리를 만드는 중입니다
상태 정보를 읽는 중입니다... 완료
다음의 추가 패키지가 설치될 것입니다 :
autoconf automake autopoint autotools-dev binutils binutils-common binutils-x86-64-linux-gnu
build-essential cpp-9 debhelper debugedit dh-autoreconf dh-strip-nondeterminism dpkg-dev dwz
fakeroot g++ g++-9 gcc gcc-10-base gcc-9 gcc-9-base gettext intltool-debian
libalgorithm-diff-perl libalgorithm-diff-xs-perl libalgorithm-merge-perl libarchive-cpio-perl
libarchive-zip-perl libasan5 libatomic1 libbinutils libc-dev-bin libc6 libc6-dbg libc6-dev
libcc1-0 libcroc03 libcrypt-dev libctf-nobfd0 libctf0 libdebhelper-perl libfakeroot
```

설치

linux_Oracle 설치

```
dh-autoreconf (19) 설정하는 중입니다 ...  
debhelper (12.10ubuntu1) 설정하는 중입니다 ...  
alien (8.95) 설정하는 중입니다 ...  
Processing triggers for install-info (6.7.0.dfsg.2-5) ...  
Processing triggers for libc-bin (2.31-0ubuntu9.16) ...  
Processing triggers for man-db (2.9.1-1) ...
```

```
guru@guru:~$ unzip oracle*.zip
```

zip파일을 풀어 주는거

```
Archive: oracle-xe-11.2.0-1.0.x86_64.rpm.zip  
creating: Disk1/  
creating: Disk1/upgrade/  
inflating: Disk1/upgrade/gen_inst.sql  
creating: Disk1/response/  
inflating: Disk1/response/xe.rsp  
inflating: Disk1/oracle-xe-11.2.0-1.0.x86_64.rpm
```

```
guru@guru:~$
```

```
guru@guru:~$ ls -l
```

```
합계 308524
```

```
drwxrwxr-x 4 guru guru 4096 8월 29 2011 Disk1  
-rw-rw-r-- 1 guru guru 315891481 8월 28 11:00 oracle-xe-11.2.0-1.0.x86_64.rpm.zip  
drwxr-xr-x 2 guru guru 4096 8월 27 15:39 공개  
drwxr-xr-x 2 guru guru 4096 8월 27 15:39 다운로드  
drwxr-xr-x 2 guru guru 4096 8월 27 15:39 문서  
drwxr-xr-x 2 guru guru 4096 8월 27 15:39 바탕화면  
drwxr-xr-x 2 guru guru 4096 8월 27 15:39 비디오  
drwxr-xr-x 2 guru guru 4096 8월 27 15:39 사진  
drwxr-xr-x 2 guru guru 4096 8월 27 15:39 음악  
drwxr-xr-x 2 guru guru 4096 8월 27 15:39 템플릿
```

```
guru@guru:~$ cd Disk1
```

```
guru@guru:~/Disk1$ ls -l
```

```
합계 309892
```

```
-rw-rw-r-- 1 guru guru 317320273 8월 29 2011 oracle-xe-11.2.0-1.0.x86_64.rpm  
drwxr-xr-x 2 guru guru 4096 8월 29 2011 response  
drwxrwxr-x 2 guru guru 4096 8월 29 2011 upgrade
```

```
guru@guru:~/Disk1$ alien --scripts -d oracle*  
Must run as root to convert to deb format (or you may use fakeroot).
```

```
guru@guru:~/Disk1$ sudo alien --scripts -d oracle*
```

확인

```
guru@worker02:~/Disk1$ ls -l  
합계 579784  
-rw-rw-r-- 1 guru guru 317320273 8월 29 2011 oracle-xe-11.2.0-1.0.x86_64.rpm  
-rw-r--r-- 1 root root 276359056 8월 28 15:31 oracle-xe_11.2.0-2_amd64.deb  
drwxr-xr-x 2 guru guru 4096 8월 29 2011 response  
drwxrwxr-x 2 guru guru 4096 8월 29 2011 upgrade  
guru@worker02:~/Disk1$
```

위에서 설치한 alien 을 이
용하여 rpm 을 deb 파일
로 변환한다

linux_Oracle 설치

```
guru@worker02:~/Disk1$ sudo dpkg --install oracle*.deb
```

```
Selecting previously unselected package oracle-xe.
```

```
(데이터베이스 읽는중 ...현재 192743개의 파일과 디렉터리가 설치되어 있습니다.)
```

```
Preparing to unpack oracle-xe_11.2.0-2_amd64.deb ...
```

```
Unpacking oracle-xe (11.2.0-2) ...
```

```
oracle-xe (11.2.0-2) 설정하는 중입니다 ...
```

```
Executing post-install steps...
```

```
/var/lib/dpkg/info/oracle-xe.postinst: 줄 114: /sbin/chkconfig: 그런 파일이나 디렉터리가 없습니다
```

```
You must run '/etc/init.d/oracle-xe configure' as the root user to configure the database.
```

```
Processing triggers for libc-bin (2.31-0ubuntu9.9) ...
```

```
Processing triggers for systemd (245.4-4ubuntu3.20) ...
```

```
Processing triggers for gnome-menus (3.36.0-1ubuntu1) ...
```

```
Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...
```

```
Processing triggers for mime-support (3.64ubuntu1) ...
```

.deb 로 변환된 파일 설치

linux_Oracle 설치

```
Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...  
Processing triggers for mime-support (3.64ubuntu1) ...  
guru@guru:~/Disk1$ sudo /etc/init.d/oracle-xe configure
```

오라클 설정 (비밀번호 특
수문자 허용 X)

```
Oracle Database 11g Express Edition Configuration  
-----
```

```
This will configure on-boot properties of Oracle Database 11g Express  
Edition. The following questions will determine whether the database should  
be starting upon system boot, the ports it will use, and the passwords that  
will be used for database accounts. Press <Enter> to accept the defaults.  
Ctrl-C will abort.
```

```
Specify the HTTP port that will be used for Oracle Application Express [8080]: enter
```

```
/etc/init.d/oracle-xe: line 362: netstat: command not found
```

```
Specify a port that will be used for the database listener [1521]: enter
```

```
/etc/init.d/oracle-xe: line 405: netstat: command not found
```

```
Specify a password to be used for database accounts. Note that the same  
password will be used for SYS and SYSTEM. Oracle recommends the use of  
different passwords for each database account. This can be done after  
initial configuration: root
```

```
Confirm the password: root
```

```
Do you want Oracle Database 11g Express Edition to be started on boot (y/n) [y]:y
```

```
Starting Oracle Net Listener...Done
```

```
Configuring database...
```

linux_Oracle 설치

```
guru@worker02:~$ sudo su - oracle  
[sudo] guru의 암호:  
oracle@worker02:~$ vi .bashrc  
oracle@worker02:~$
```

sudo su - oracle 접속
vi. bashrc

```
export ORACLE_HOME=/u01/app/oracle/product/11.2.0/xe  
export ORACLE_SID=XE  
export NLS_LANG=`$ORACLE_HOME/bin/nls_lang.sh`  
export ORACLE_BASE=/u01/app/oracle  
export LD_LIBRARY_PATH=$ORACLE_HOME/lib:$LD_LIBRARY_PATH  
export PATH=$ORACLE_HOME/bin:$PATH
```

추가

```
".bashrc" 0 lines, 0 characters
```

linux_Oracle 설치

```
oracle@worker02:~$ touch .profile  
oracle@worker02:~$ vi .profile
```

touch .profile 추가후
vi .profile

```
source ~/.bashrc
```

추가

```
".profile" 0 lines, 0 characters
```

linux_Oracle 설치

```
root@worker02:~# sudo su - oracle 리스너 상태확인
oracle@worker02:~$ lsnrctl status

LSNRCTL for Linux: Version 11.2.0.2.0 - Production on 28-8월 -2024 16:40:39

Copyright (c) 1991, 2011, Oracle. All rights reserved.

Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=IPC)(KEY=EXTPROC_FOR_XE)))
TNS-12541: TNS:no listener
TNS-12560: TNS:protocol adapter error
TNS-00511: No listener
Linux Error: 2: No such file or directory
Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=worker02)(PORT=1521)))
TNS-12541: TNS:no listener
TNS-12560: TNS:protocol adapter error
TNS-00511: No listener
Linux Error: 111: Connection refused
oracle@worker02:~$
```


linux_Oracle 설치

```
oracle@worker02:~$ sqlplus / as sysdba 오라클 접속

SQL*Plus: Release 11.2.0.2.0 Production on 수 8월 28 16:53:48 2024

Copyright (c) 1982, 2011, Oracle. All rights reserved.

Connected to an idle instance.

SQL> startup 오라클 기동명령
ORA-01078: failure in processing system parameters
LRM-00109: could not open parameter file '/u01/app/oracle/product/11.2.0/xe/dbs/initXE.ora'
SQL> █
```

linux_Oracle 설치

```
oracle@worker02:~$ sqlplus / as sysdba

SQL*Plus: Release 11.2.0.2.0 Production on 수 8월 28 16:59:43 2024

Copyright (c) 1982, 2011, Oracle. All rights reserved.

Connected to an idle instance.

SQL> CREATE USER scott IDENTIFIED BY tiger;
CREATE USER scott IDENTIFIED BY tiger
*
ERROR at line 1:
ORA-01034: ORACLE not available
Process ID: 0
Session ID: 0 Serial number: 0

SQL> GRANT RESOURCE,CONNECT TO scott;
GRANT RESOURCE,CONNECT TO scott
*
ERROR at line 1:
ORA-01034: ORACLE not available
Process ID: 0
Session ID: 0 Serial number: 0

SQL>
```

유저 생성

관리권한 생성

linux_Oracle 설치

