

# Installing Oracle 11g R2 Express Edition on Ubuntu (64-bit)

1) Download the Oracle 11gR2 express edition installer from the link given below:

<https://drive.google.com/file/d/1ErsJSnp39t-10wp4vCRPWAAqQLzi0LZF/view?usp=sharing>

2) Move the zip file to **home** folder and unzip it

3) Open terminal and type

```
cd oracle-xe-11.2.0-1.0.x86_64.rpm/Disk1
```

4) Install the following packages :

```
sudo apt-get install alien libaio1 unixodbc vim
```

5) Convert the red-hat ( rpm ) package to Ubuntu-package :

```
sudo alien --scripts -d oracle-xe-11.2.0-1.0.x86_64.rpm
```

6) Do the following pre-requisite things:

a) Create a special *chkconfig* script :

```
sudo gedit /sbin/chkconfig
```

(copy and paste the following into the file )

```
#!/bin/bash
# Oracle 11gR2 XE installer chkconfig hack for Ubuntu
file=/etc/init.d/oracle-xe
if [[ ! `tail -n1 $file | grep INIT` ]]; then
echo >> $file
echo '### BEGIN INIT INFO' >> $file
echo '# Provides: OracleXE' >> $file
echo '# Required-Start: $remote_fs $syslog' >> $file
echo '# Required-Stop: $remote_fs $syslog' >> $file
echo '# Default-Start: 2 3 4 5' >> $file
echo '# Default-Stop: 0 1 6' >> $file
echo '# Short-Description: Oracle 11g Express Edition' >> $file
echo '### END INIT INFO' >> $file
fi
update-rc.d oracle-xe defaults 80 01
```

Save the above file and provide appropriate execute privilege :

```
sudo chmod 755 /sbin/chkconfig
```

b) Set the Kernel parameters :

Oracle 11gR2 XE requires to set the following additional kernel parameters:

```
sudo gedit /etc/sysctl.d/60-oracle.conf
```

(Enter the following)

```
# Oracle 11g XE kernel parameters
fs.file-max=6815744
net.ipv4.ip_local_port_range=9000 65000
kernel.sem=250 32000 100 128
kernel.shmmax=536870912
```

(Save the file)

Load new kernel parameters:

```
sudo service procps restart
```

c) make some more required changes :

- i) 

```
sudo ln -s /usr/bin/awk /bin/awk
```
- ii) 

```
mkdir /var/lock/subsys
```
- iii) 

```
touch /var/lock/subsys/listener
```

7) Now you are ready to install Oracle 11gR2 XE.

- i) 

```
sudo dpkg --install oracle-xe_11.2.0-2_amd64.deb
```
- ii) 

```
sudo /etc/init.d/oracle-xe configure
```

*Enter the following configuration information:*

- A valid HTTP port for the Oracle Application Express (the default is 8080)
- A valid port for the Oracle database listener (the default is 1521)
- A password for the SYS and SYSTEM administrative user accounts

8) *Before you start using Oracle 11gR2 XE you have to set-up more things:*

a) *Set-up the environmental variables :*

```
gedit ~/.bashrc
```

Add following lines to the end of your **.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
```

b) execute your .profile to load the changes:

```
. ~/.profile
```

9) Start the Oracle 11gR2 XE :

```
sudo service oracle-xe start
```

10) Then reboot the system and run the following code in the terminal

```
sqlplus sys as sysdba
```

( provide the password you gave while configuring the oracle in Step 7 (ii) ).  
This should come to following :

```
SQL*Plus: Release 11.2.0.2.0 Production on Wed May 9 12:12:16 2012
```

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

```
Enter password:
```

```
Connected to:
```

```
Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Production
```

```
SQL>
```