

**APPLIES TO:**

ORACLE DATABASE UPGRADE

**SUMMARY**

This article explains how to upgrade the Oracle Database from 10.2.0.4 to 11.2.0.2

**AUTHOR:**

K.VENKATA RAMU.

**COMPANY:**

WILLSYS INFOSYSTEMS Pvt. Ltd.,

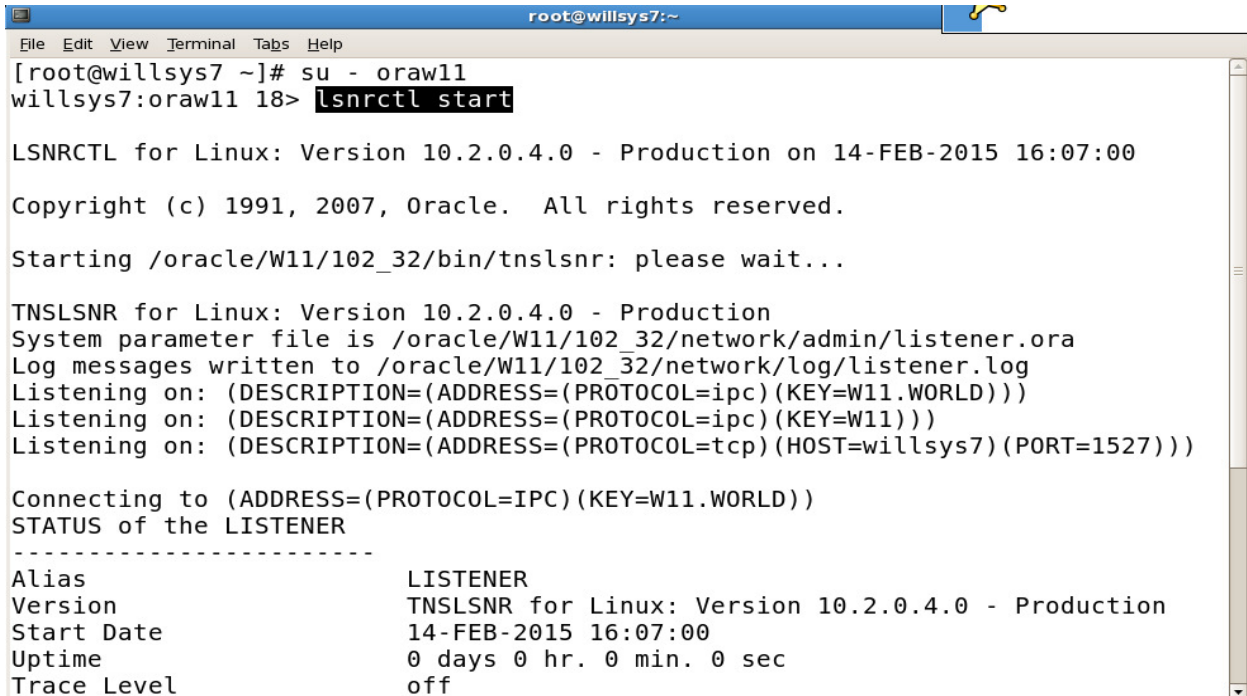
**CREATED ON:**

17<sup>th</sup> Feb 2015.

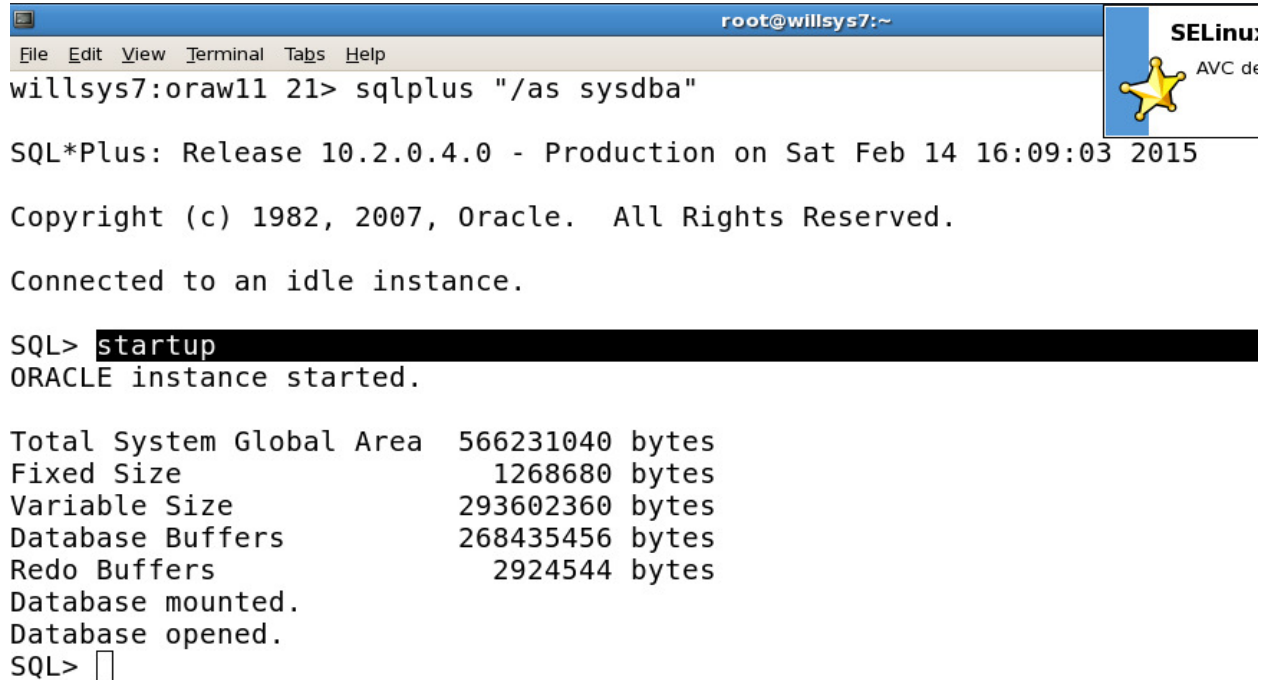


### Upgrade from Oracle 10.2.0.4 to 11.2.0.2:

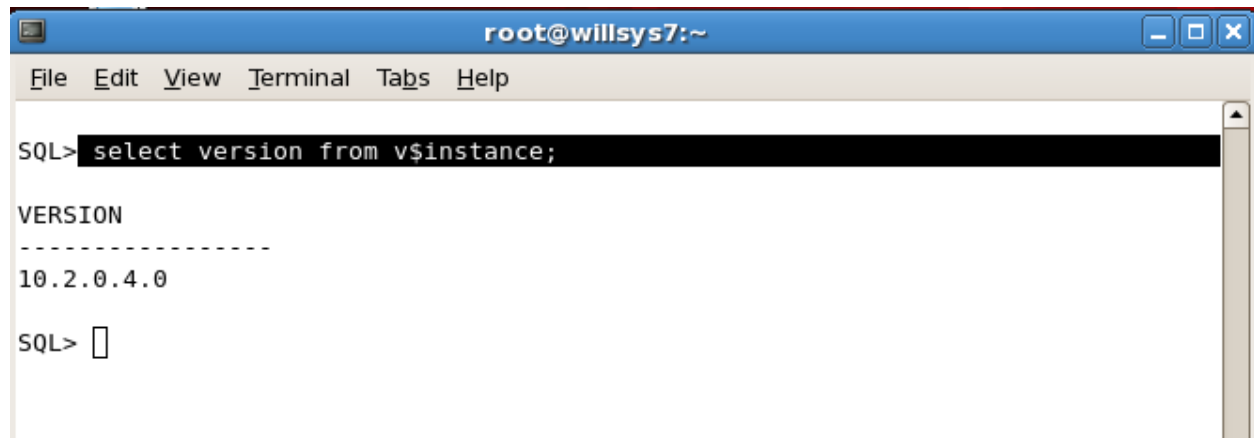
1. Ensure that Oracle is at least 10.2.0.4/10.2.0.5 version as SAP Does not support other versions
2. Oracle 11.2 is only supported for SAP systems with Extension Kernel or higher
3. The Tools that are used OUI, MOptach(Opatch), SQLPLus and Oracle DBUA
4. Oracle 11.2 is released and certified for SAP products running with SAP basis 640 and above and SAP Kernel release 640\_ext2 and above.
5. Read the Document based on Note 169706.1. from Oracle metalink
6. Read and download all the notes along with patches referenced in 1431800
7. BR tools Support the Oracle database 11g R2. Down load the Kernel Executables from market Place(SAPEXE.SAR and SAPEXEDB.SAR)



```
root@willsys7:~  
File Edit View Terminal Tabs Help  
[root@willsys7 ~]# su - oraw11  
willsys7:oraw11 18> lsnrctl start  
  
LSNRCTL for Linux: Version 10.2.0.4.0 - Production on 14-FEB-2015 16:07:00  
Copyright (c) 1991, 2007, Oracle. All rights reserved.  
Starting /oracle/W11/102_32/bin/tnslsnr: please wait...  
  
TNSLSNR for Linux: Version 10.2.0.4.0 - Production  
System parameter file is /oracle/W11/102_32/network/admin/listener.ora  
Log messages written to /oracle/W11/102_32/network/log/listener.log  
Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=W11.WORLD)))  
Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=W11)))  
Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=willsys7)(PORT=1527)))  
  
Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=W11.WORLD))  
STATUS of the LISTENER  
-----  
Alias                LISTENER  
Version              TNSLSNR for Linux: Version 10.2.0.4.0 - Production  
Start Date           14-FEB-2015 16:07:00  
Uptime                0 days 0 hr. 0 min. 0 sec  
Trace Level          off
```



```
root@willsys7:~  
File Edit View Terminal Tabs Help  
willsys7:oraw11 21> sqlplus "/as sysdba"  
  
SQL*Plus: Release 10.2.0.4.0 - Production on Sat Feb 14 16:09:03 2015  
Copyright (c) 1982, 2007, Oracle. All Rights Reserved.  
Connected to an idle instance.  
  
SQL> startup  
ORACLE instance started.  
  
Total System Global Area 566231040 bytes  
Fixed Size 1268680 bytes  
Variable Size 293602360 bytes  
Database Buffers 268435456 bytes  
Redo Buffers 2924544 bytes  
Database mounted.  
Database opened.  
SQL> █
```



```
root@willsys7:~  
File Edit View Terminal Tabs Help  
SQL> select version from v$instance;  
  
VERSION  
-----  
10.2.0.4.0  
  
SQL> █
```

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
willsys7:wlladm 6> startsap r3  
  
Checking W11 Database  
-----  
ABAP Database is running  
  
Starting SAP-Collector Daemon  
-----  
14:40:14 16.02.2015 LOG: Effective User Id is root  
*****  
* This is Saposcol Version COLL 20.94 700 - v2.00, Intel x86 with Linux, 2007/02  
/16  
* Usage:  saposcol -l: Start OS Collector  
*         saposcol -k: Stop  OS Collector  
*         saposcol -d: OS Collector Dialog Mode  
*         saposcol -s: OS Collector Status  
* Starting collector (create new process)  
*****  
saposcol on host willsys7 started  
  
Starting SAP Instance DVEBMGS00  
-----  
Startup-Log is written to /home/wlladm/startsap_DVEBMGS00.log  
Instance Service on host willsys7 started  
Instance on host willsys7 started
```

8. Enter the following commands:

```
Echo $ORACLE_BASE  
Cd $ORACLE_BASE  
touch $ORACLE_BASE/write_test  
rm $ORACLE_BASE/write_test
```



```
root@willsys7:~  
File Edit View Terminal Tabs Help  
[root@willsys7 ~]# su - oraw11  
willsys7:oraw11 19> echo $ORACLE_BASE  
/oracle  
willsys7:oraw11 20> cd $ORACLE_BASE  
willsys7:oraw11 21> touch $ORACLE_BASE/write_test  
willsys7:oraw11 22> █
```

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
[root@willsys7 ~]# su - oraw11  
willsys7:oraw11 19> echo $ORACLE_BASE  
/oracle  
willsys7:oraw11 20> cd $ORACLE_BASE  
willsys7:oraw11 21> touch $ORACLE BASE/write_test  
willsys7:oraw11 22> ll  
total 76  
drwxr-x--- 3 root  sapinst  4096 Feb 13 14:56 client  
drwxr-xr-x 7 root  root    4096 Jan 31 16:54 DUMP  
drwx----- 2 root  root   16384 Feb 13 01:46 lost+found  
drwxr-xr-x 2 root  root    4096 Feb 14 08:36 Oracle Patch  
drwxrwxr-x 6 oraw11 dba    4096 Jan 22 2014 oracleupgrade  
drwxrwx--- 6 oraw11 dba    4096 Feb 14 15:04 oraInventory  
drwxr-x--- 3 root  sapinst  4096 Feb 13 14:57 stage  
drwxr-xr-x 19 oraw11 dba    4096 Feb 14 13:52 W11  
-rw-r--r-- 1 oraw11 dba      0 Feb 16 14:42 write_test  
willsys7:oraw11 23> █
```

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
[root@willsys7 ~]# su - oraw11  
willsys7:oraw11 19> echo $ORACLE_BASE  
/oracle  
willsys7:oraw11 20> cd $ORACLE_BASE  
willsys7:oraw11 21> touch $ORACLE_BASE/write_test  
willsys7:oraw11 22> ll  
total 76  
drwxr-x--- 3 root  sapinst  4096 Feb 13 14:56 client  
drwxr-xr-x 7 root  root    4096 Jan 31 16:54 DUMP  
drwx----- 2 root  root    16384 Feb 13 01:46 lost+found  
drwxr-xr-x 2 root  root    4096 Feb 14 08:36 Oracle Patch  
drwxrwxr-x 6 oraw11 dba     4096 Jan 22 2014 oracleupgrade  
drwxrwx--- 6 oraw11 dba     4096 Feb 14 15:04 oraInventory  
drwxr-x--- 3 root  sapinst  4096 Feb 13 14:57 stage  
drwxr-xr-x 19 oraw11 dba     4096 Feb 14 13:52 W11  
-rw-r--r-- 1 oraw11 dba      0 Feb 16 14:42 write_test  
willsys7:oraw11 23> rm $ORACLE_BASE/write_test  
willsys7:oraw11 24>
```

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
willsys7:oraw11 20> cd $ORACLE_BASE  
willsys7:oraw11 21> touch $ORACLE_BASE/write_test  
willsys7:oraw11 22> ll  
total 76  
drwxr-x--- 3 root sapinst 4096 Feb 13 14:56 client  
drwxr-xr-x 7 root root 4096 Jan 31 16:54 DUMP  
drwx----- 2 root root 16384 Feb 13 01:46 lost+found  
drwxr-xr-x 2 root root 4096 Feb 14 08:36 Oracle Patch  
drwxrwxr-x 6 oraw11 dba 4096 Jan 22 2014 oracleupgrade  
drwxrwx--- 6 oraw11 dba 4096 Feb 14 15:04 oraInventory  
drwxr-x--- 3 root sapinst 4096 Feb 13 14:57 stage  
drwxr-xr-x 19 oraw11 dba 4096 Feb 14 13:52 W11  
-rw-r--r-- 1 oraw11 dba 0 Feb 16 14:42 write_test  
willsys7:oraw11 23> rm $ORACLE_BASE/write_test  
willsys7:oraw11 24> ll  
total 72  
drwxr-x--- 3 root sapinst 4096 Feb 13 14:56 client  
drwxr-xr-x 7 root root 4096 Jan 31 16:54 DUMP  
drwx----- 2 root root 16384 Feb 13 01:46 lost+found  
drwxr-xr-x 2 root root 4096 Feb 14 08:36 Oracle Patch  
drwxrwxr-x 6 oraw11 dba 4096 Jan 22 2014 oracleupgrade  
drwxrwx--- 6 oraw11 dba 4096 Feb 14 15:04 oraInventory  
drwxr-x--- 3 root sapinst 4096 Feb 13 14:57 stage  
drwxr-xr-x 19 oraw11 dba 4096 Feb 14 13:52 W11  
willsys7:oraw11 25> █
```

```
root@willsys7:/oracle/stage  
File Edit View Terminal Tabs Help  
[root@willsys7 ~]# cd /oracle/stage/  
[root@willsys7 stage]# ll  
total 8  
drwxr-x--- 3 oraw11 dba 4096 Feb 13 15:02 102_32  
[root@willsys7 stage]# █
```

Create 112\_32 folder in “stage and SID” by using mkdir

```
]# mkdir 112_32
```

```
root@willsys7:/oracle/stage
File Edit View Terminal Tabs Help
[root@willsys7 stage]# mkdir 112_32
[root@willsys7 stage]# ll
total 16
drwxr-x--- 3 oraw11 dba 4096 Feb 13 15:02 102_32
drwxr-xr-x 2 root root 4096 Feb 16 14:53 112_32
[root@willsys7 stage]#
```

```
root@willsys7:/oracle/stage
File Edit View Terminal Tabs Help
[root@willsys7 stage]# chmod -R 775 112_32/
[root@willsys7 stage]# chown -R oraw11:dba 112_32/
[root@willsys7 stage]# ll
total 16
drwxr-x--- 3 oraw11 dba 4096 Feb 13 15:02 102_32
drwxrwxr-x 2 oraw11 dba 4096 Feb 16 14:53 112_32
[root@willsys7 stage]#
```



```

root@willsys7:/oracle/W11
File Edit View Terminal Tabs Help
[root@willsys7 ~]# cd /oracle/W11/
[root@willsys7 W11]# ll
total 156
drwxr-xr-x 55 oraw11 dba 4096 Feb 14 15:01 102_32
drwxr-xr-x 2 oraw11 dba 4096 Feb 13 15:14 mirrlogA
drwxr-xr-x 2 oraw11 dba 4096 Feb 13 15:14 mirrlogB
drwxr-xr-x 2 oraw11 dba 4096 Feb 16 14:37 oraarch
drwxr-xr-x 3 oraw11 dba 4096 Feb 13 15:14 origlogA
drwxr-xr-x 3 oraw11 dba 4096 Feb 13 15:14 origlogB
drwxr-xr-x 2 oraw11 dba 4096 Feb 13 15:13 saparch
drwxr-xr-x 2 oraw11 dba 4096 Feb 13 15:13 sapbackup
drwxr-xr-x 2 oraw11 dba 4096 Feb 13 19:59 sapcheck
drwxr-xr-x 15 oraw11 dba 4096 Feb 13 15:13 sapdata1
drwxr-xr-x 12 oraw11 dba 4096 Feb 13 15:13 sapdata2
drwxr-xr-x 12 oraw11 dba 4096 Feb 13 15:13 sapdata3
drwxr-xr-x 11 oraw11 dba 4096 Feb 13 15:13 sapdata4
drwxr-xr-x 2 oraw11 dba 4096 Feb 13 15:13 sapreorg
drwxr-xr-x 4 oraw11 dba 4096 Feb 13 15:13 saptrace
-rwxr-xr-x 1 oraw11 dba 15752 Aug 28 2011 startdb
-rwxr-xr-x 1 oraw11 dba 11119 Aug 28 2011 stopdb
[root@willsys7 W11]#

```

```

root@willsys7:/oracle/W11
File Edit View Terminal Tabs Help
[root@willsys7 W11]# mkdir 112_32
[root@willsys7 W11]# ll
total 164
drwxr-xr-x 55 oraw11 dba 4096 Feb 14 15:01 102_32
drwxr-xr-x 2 root root 4096 Feb 16 14:55 112_32
drwxr-xr-x 2 oraw11 dba 4096 Feb 13 15:14 mirrlogA
drwxr-xr-x 2 oraw11 dba 4096 Feb 13 15:14 mirrlogB
drwxr-xr-x 2 oraw11 dba 4096 Feb 16 14:37 oraarch
drwxr-xr-x 3 oraw11 dba 4096 Feb 13 15:14 origlogA
drwxr-xr-x 3 oraw11 dba 4096 Feb 13 15:14 origlogB
drwxr-xr-x 2 oraw11 dba 4096 Feb 13 15:13 saparch
drwxr-xr-x 2 oraw11 dba 4096 Feb 13 15:13 sapbackup
drwxr-xr-x 2 oraw11 dba 4096 Feb 13 19:59 sapcheck
drwxr-xr-x 15 oraw11 dba 4096 Feb 13 15:13 sapdata1
drwxr-xr-x 12 oraw11 dba 4096 Feb 13 15:13 sapdata2
drwxr-xr-x 12 oraw11 dba 4096 Feb 13 15:13 sapdata3
drwxr-xr-x 11 oraw11 dba 4096 Feb 13 15:13 sapdata4
drwxr-xr-x 2 oraw11 dba 4096 Feb 13 15:13 sapreorg
drwxr-xr-x 4 oraw11 dba 4096 Feb 13 15:13 saptrace
-rwxr-xr-x 1 oraw11 dba 15752 Aug 28 2011 startdb
-rwxr-xr-x 1 oraw11 dba 11119 Aug 28 2011 stopdb
[root@willsys7 W11]#

```

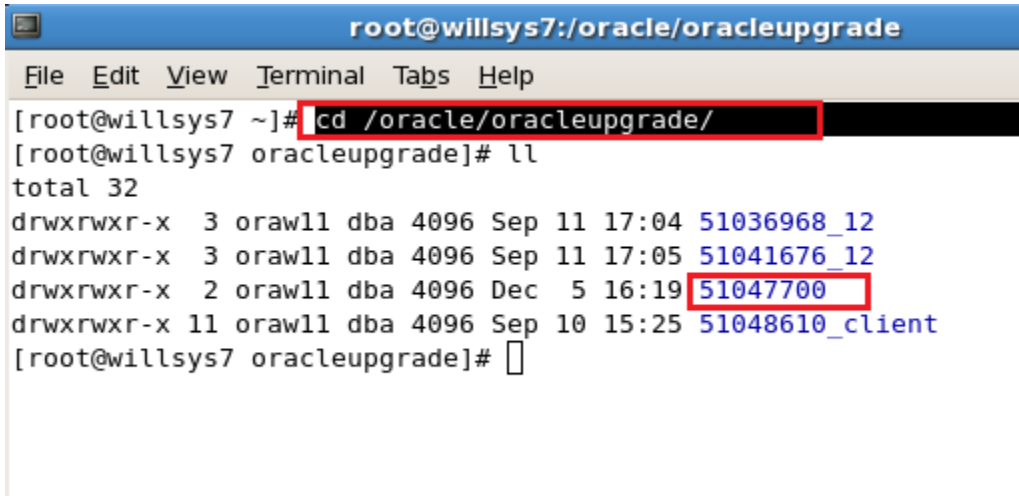
Give the permissions and owner ships to 112\_32

```
root@willsys7:/oracle/W11
File Edit View Terminal Tabs Help
[root@willsys7 W11]# chmod -R 775 112_32/
[root@willsys7 W11]# chown -R oraw11:dba 112_32/
[root@willsys7 W11]#
```

```
root@willsys7:/oracle/W11
File Edit View Terminal Tabs Help
[root@willsys7 W11]# chmod -R 775 112_32/
[root@willsys7 W11]# chown -R oraw11:dba 112_32/
[root@willsys7 W11]# ll
total 164
drwxr-xr-x 55 oraw11 dba 4096 Feb 14 15:01 102_32
drwxrwxr-x 2 oraw11 dba 4096 Feb 16 14:55 112_32
drwxr-xr-x 2 oraw11 dba 4096 Feb 13 15:14 mirrlogA
drwxr-xr-x 2 oraw11 dba 4096 Feb 13 15:14 mirrlogB
drwxr-xr-x 2 oraw11 dba 4096 Feb 16 14:37 oraarch
drwxr-xr-x 3 oraw11 dba 4096 Feb 13 15:14 origlogA
drwxr-xr-x 3 oraw11 dba 4096 Feb 13 15:14 origlogB
drwxr-xr-x 2 oraw11 dba 4096 Feb 13 15:13 saparch
drwxr-xr-x 2 oraw11 dba 4096 Feb 13 15:13 sapbackup
drwxr-xr-x 2 oraw11 dba 4096 Feb 13 19:59 sapcheck
drwxr-xr-x 15 oraw11 dba 4096 Feb 13 15:13 sapdata1
drwxr-xr-x 12 oraw11 dba 4096 Feb 13 15:13 sapdata2
drwxr-xr-x 12 oraw11 dba 4096 Feb 13 15:13 sapdata3
drwxr-xr-x 11 oraw11 dba 4096 Feb 13 15:13 sapdata4
drwxr-xr-x 2 oraw11 dba 4096 Feb 13 15:13 sapreorg
drwxr-xr-x 4 oraw11 dba 4096 Feb 13 15:13 saptrace
-rwxr-xr-x 1 oraw11 dba 15752 Aug 28 2011 startdb
-rwxr-xr-x 1 oraw11 dba 11119 Aug 28 2011 stopdb
[root@willsys7 W11]#
```

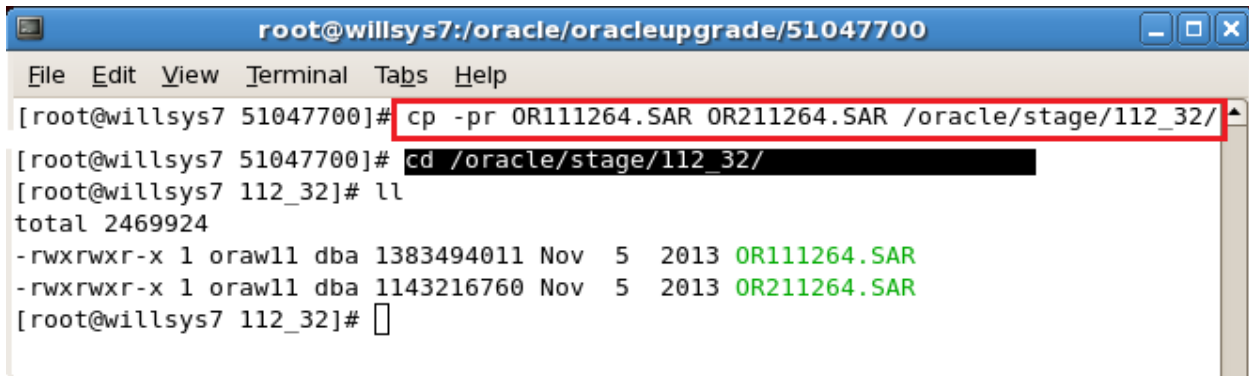
Go to oracle upgrade folder and copy the 2 SAR files (**OR111264.SAR** AND **OR211264.SAR**) in to **/oracle/stage/112\_32** by using the command

```
cp -pr OR111264.SAR OR211264.SAR /oracle/stage/112_32
```



```
root@willsys7:/oracle/oracleupgrade
File Edit View Terminal Tabs Help
[root@willsys7 ~]# cd /oracle/oracleupgrade/
[root@willsys7 oracleupgrade]# ll
total 32
drwxrwxr-x  3 oraw11 dba 4096 Sep 11 17:04 51036968_12
drwxrwxr-x  3 oraw11 dba 4096 Sep 11 17:05 51041676_12
drwxrwxr-x  2 oraw11 dba 4096 Dec  5 16:19 51047700
drwxrwxr-x 11 oraw11 dba 4096 Sep 10 15:25 51048610_client
[root@willsys7 oracleupgrade]#
```

```
[root@willsys7 oracleupgrade]# cd 51047700/
[root@willsys7 51047700]# ll
total 5110072
-rwxrwxr-x 1 oraw11 dba          64 Feb 20  2014 CDLABEL.ASC
-rwxrwxr-x 1 oraw11 dba          64 Feb 20  2014 CDLABEL.EBC
-rwxrwxr-x 1 oraw11 dba       79032 Jan  2  2014 COPY_TM.HTM
-rwxrwxr-x 1 oraw11 dba       11058 Jan  2  2014 COPY_TM.TXT
-rwxrwxr-x 1 oraw11 dba          90 Dec  5 16:19 LABEL.ASC
-rwxrwxr-x 1 oraw11 dba          89 Feb 20  2014 LABEL.ASC~
-rwxrwxr-x 1 oraw11 dba          89 Feb 20  2014 LABEL.EBC
-rwxrwxr-x 1 oraw11 dba         678 Feb 20  2014 MD5FILE.DAT
-rwxrwxr-x 1 oraw11 dba 1383494011 Nov  5  2013 OR111264.SAR
-rwxrwxr-x 1 oraw11 dba 1143216760 Nov  5  2013 OR211264.SAR
-rwxrwxr-x 1 oraw11 dba  857368270 Nov  5  2013 OR311264.SAR
-rwxrwxr-x 1 oraw11 dba  643805105 Nov  5  2013 OR411264.SAR
-rwxrwxr-x 1 oraw11 dba  587877069 Nov  5  2013 OR511264.SAR
-rwxrwxr-x 1 oraw11 dba  487970260 Nov  5  2013 OR611264.SAR
-rwxrwxr-x 1 oraw11 dba  123612581 Nov  5  2013 OR711264.SAR
-rwxrwxr-x 1 oraw11 dba         1235 Feb 20  2014 SHAFILE.DAT
-rwxrwxr-x 1 oraw11 dba          22 Feb 20  2014 VERSION.ASC
-rwxrwxr-x 1 oraw11 dba          22 Feb 20  2014 VERSION.EBC
[root@willsys7 51047700]#
```



```
root@willsys7:/oracle/oracleupgrade/51047700
File Edit View Terminal Tabs Help
[root@willsys7 51047700]# cp -pr OR111264.SAR OR211264.SAR /oracle/stage/112_32/
[root@willsys7 51047700]# cd /oracle/stage/112_32/
[root@willsys7 112_32]# ll
total 2469924
-rwxrwxr-x 1 oraw11 dba 1383494011 Nov  5  2013 OR111264.SAR
-rwxrwxr-x 1 oraw11 dba 1143216760 Nov  5  2013 OR211264.SAR
[root@willsys7 112_32]#
```

Run **xhost +**



```
root@willsys7:/oracle/stage/112_32
File Edit View Terminal Tabs Help
[root@willsys7 51047700]# cd /oracle/stage/112_32/
[root@willsys7 112_32]# ll
total 2469924
-rwxrwxr-x 1 oraw11 dba 1383494011 Nov  5  2013 OR111264.SAR
-rwxrwxr-x 1 oraw11 dba 1143216760 Nov  5  2013 OR211264.SAR
[root@willsys7 112_32]# xhost +
access control disabled, clients can connect from any host
[root@willsys7 112_32]#
```

```
[root@willsys7 112_32]# su oraw11
willsys7:oraw11 23> pwd
/oracle/stage/112_32
willsys7:oraw11 24>
```

Go to su – orasid

```
>cd /oracle/stage/112_32/
```

```
>ll
```

Uncar the files by using the command

```
>SAPCAR -xvf OR111264.SAR
```

```
root@willsys7:/oracle/stage/112_32
File Edit View Terminal Tabs Help
[root@willsys7 112_32]# su oraw11
willsys7:oraw11 23> pwd
/oracle/stage/112_32
willsys7:oraw11 24> ll
total 2469924
-rwxrwxr-x 1 oraw11 dba 1383494011 Nov  5  2013 OR111264.SAR
-rwxrwxr-x 1 oraw11 dba 1143216760 Nov  5  2013 OR211264.SAR
willsys7:oraw11 25>
```

```
root@willsys7:/oracle/stage/112_32
File Edit View Terminal Tabs Help
willsys7:oraw11 29> SAPCAR -xvf OR111264.SAR
```

```
root@willsys7:/oracle/stage/112_32
File Edit View Terminal Tabs Help
x database/stage/sizes/oracle.server.EE.sizes.properties
x database/stage/fastcopy
x database/stage/fastcopy/oracle.server_SE_dirs.lst
x database/stage/fastcopy/oracle.server_Custom_dirs.lst
x database/stage/fastcopy/oracle.server_EE_filemap.jar
x database/stage/fastcopy/oracle.server_SE_1.xml
x database/stage/fastcopy/oracle.server_EE_exp_1.xml
x database/stage/fastcopy/oracle.server_Custom_exp_1.xml
x database/stage/fastcopy/oracle.server_SE_exp_1.xml
x database/stage/fastcopy/oracle.server_SE_filemap.jar
x database/stage/fastcopy/racfiles.jar
x database/stage/fastcopy/oracle.server_EE_dirs.lst
x database/stage/fastcopy/setperms1.sh
x database/stage/fastcopy/oracle.server_Custom_filemap.jar
x database/stage/fastcopy/oracle.server_EE_1.xml
x database/stage/fastcopy/oracle.server_Custom_1.xml
x database/stage/oracle.server.11_2_0_4_0_1377435446150.bak
x database/readme.html
x database/response
x database/response/db_install.rsp
x database/response/netca.rsp
x database/response/dbca.rsp
SAPCAR: 2225 file(s) extracted
willsys7:oraw11 30>
```

>SAPCAR -xvf OR211264.SAR

```
root@willsys7:/oracle/stage/112_32
File Edit View Terminal Tabs Help
willsys7:oraw11 31> SAPCAR -xvf OR211264.SAR
```

```
root@willsys7:/oracle/stage/112_32
File Edit View Terminal Tabs Help
x database/stage/Components/oracle.owb.rsrf/11.2.0.4.0/1/DataFiles/filegroup38.jar
x database/stage/Components/oracle.owb.rsrf/11.2.0.4.0/1/DataFiles/filegroup161.jar
x database/stage/Components/oracle.owb.rsrf/11.2.0.4.0/1/DataFiles/filegroup112.jar
x database/stage/Components/oracle.owb.rsrf/11.2.0.4.0/1/DataFiles/filegroup102.jar
x database/stage/Components/oracle.rdbms.install.seeddb.sample_schema
x database/stage/Components/oracle.rdbms.install.seeddb.sample_schema/11.2.0.4.0
x database/stage/Components/oracle.rdbms.install.seeddb.sample_schema/11.2.0.4.0/1
x database/stage/Components/oracle.rdbms.install.seeddb.sample_schema/11.2.0.4.0/1/DataFiles
x database/stage/Components/oracle.rdbms.install.seeddb.sample_schema/11.2.0.4.0/1/DataFiles/Expanded
x database/stage/Components/oracle.rdbms.install.seeddb.sample_schema/11.2.0.4.0/1/DataFiles/Expanded/filegroup1
x database/stage/Components/oracle.rdbms.install.seeddb.sample_schema/11.2.0.4.0/1/DataFiles/Expanded/filegroup1/example01.dfb
x database/stage/Components/oracle.rdbms.install.seeddb.sample_schema/11.2.0.4.0/1/DataFiles/Expanded/filegroup1/example.dmp
SAPCAR: 387 file(s) extracted
willsys7:oraw11 32>
```

After extracting **database** folder will be created in **stage/112\_32**

```
root@willsys7:/oracle/stage/112_32
File Edit View Terminal Tabs Help
willsys7:oraw11 36> cd /oracle/stage/112_32/
willsys7:oraw11 37> ll
total 2469932
drwxr-xr-x 8 oraw11 dba          4096 Nov  5  2013 database
-rwxrwxr-x 1 oraw11 dba 1383494011 Nov  5  2013 OR111264.SAR
-rwxrwxr-x 1 oraw11 dba 1143216760 Nov  5  2013 OR211264.SAR
willsys7:oraw11 38>
```

```
root@willsys7:/oracle/stage/112_32
File Edit View Terminal Tabs Help
willsys7:oraw11 36> cd /oracle/stage/112_32/
willsys7:oraw11 37> ll
total 2469932
drwxr-xr-x 8 oraw11 dba          4096 Nov  5  2013 database
-rwxrwxr-x 1 oraw11 dba 1383494011 Nov  5  2013 OR111264.SAR
-rwxrwxr-x 1 oraw11 dba 1143216760 Nov  5  2013 OR211264.SAR
willsys7:oraw11 38> cd database/
willsys7:oraw11 39> ll
total 108
drwxr-xr-x  4 oraw11 dba  4096 Aug 28  2013 install
-rw-r--r--  1 oraw11 dba 30016 Aug 28  2013 readme.html
drwxr-xr-x  2 oraw11 dba  4096 Aug 28  2013 response
drwxr-xr-x  2 oraw11 dba  4096 Aug 28  2013 rpm
-rwxr-xr-x  1 oraw11 dba 10305 Aug 28  2013 runInstaller
drwxr-xr-x  2 oraw11 dba  4096 Nov  5  2013 SAP
drwxr-xr-x  2 oraw11 dba  4096 Aug 28  2013 sshsetup
drwxr-xr-x 14 oraw11 dba  4096 Nov  5  2013 stage
-rw-r--r--  1 oraw11 dba   500 Aug 28  2013 welcome.html
willsys7:oraw11 40> 
```



```

root@willsys7:/oracle/stage/112_32
File Edit View Terminal Tabs Help
total 2469932
drwxr-xr-x 8 oraw11 dba          4096 Nov  5  2013 database
-rwxrwxr-x 1 oraw11 dba 1383494011 Nov  5  2013 OR111264.SAR
-rwxrwxr-x 1 oraw11 dba 1143216760 Nov  5  2013 OR211264.SAR
willsys7:oraw11 38> cd database/
willsys7:oraw11 39> ll
total 108
drwxr-xr-x  4 oraw11 dba  4096 Aug 28  2013 install
-rw-r--r--  1 oraw11 dba 30016 Aug 28  2013 readme.html
drwxr-xr-x  2 oraw11 dba  4096 Aug 28  2013 response
drwxr-xr-x  2 oraw11 dba  4096 Aug 28  2013 rpm
-rwxr-xr-x  1 oraw11 dba 10305 Aug 28  2013 runInstaller
drwxr-xr-x  2 oraw11 dba  4096 Nov  5  2013 SAP
drwxr-xr-x  2 oraw11 dba  4096 Aug 28  2013 sshsetup
drwxr-xr-x 14 oraw11 dba  4096 Nov  5  2013 stage
-rw-r--r--  1 oraw11 dba   500 Aug 28  2013 welcome.html
willsys7:oraw11 40> cd SAP/
willsys7:oraw11 41> ll
total 224
-rwxr-xr-x 1 oraw11 dba 141727 Oct  1  2013 llgininstall.sh
-rw-r--r-- 1 oraw11 dba  52745 Oct  1  2013 mopatch-2_1_15.zip
-rwxr-xr-x 1 oraw11 dba    797 Oct  1  2013 RUNINSTALLER
-rwxr-xr-x 1 oraw11 dba    820 Oct  1  2013 RUNINSTALLER_CHECK
willsys7:oraw11 42>

```

After extracting run the **RUNINSTALLER\_CHECK** to check the runtime variables and software.

Go to the path `>cd /oracle/stage/112_32/database/SAP/`

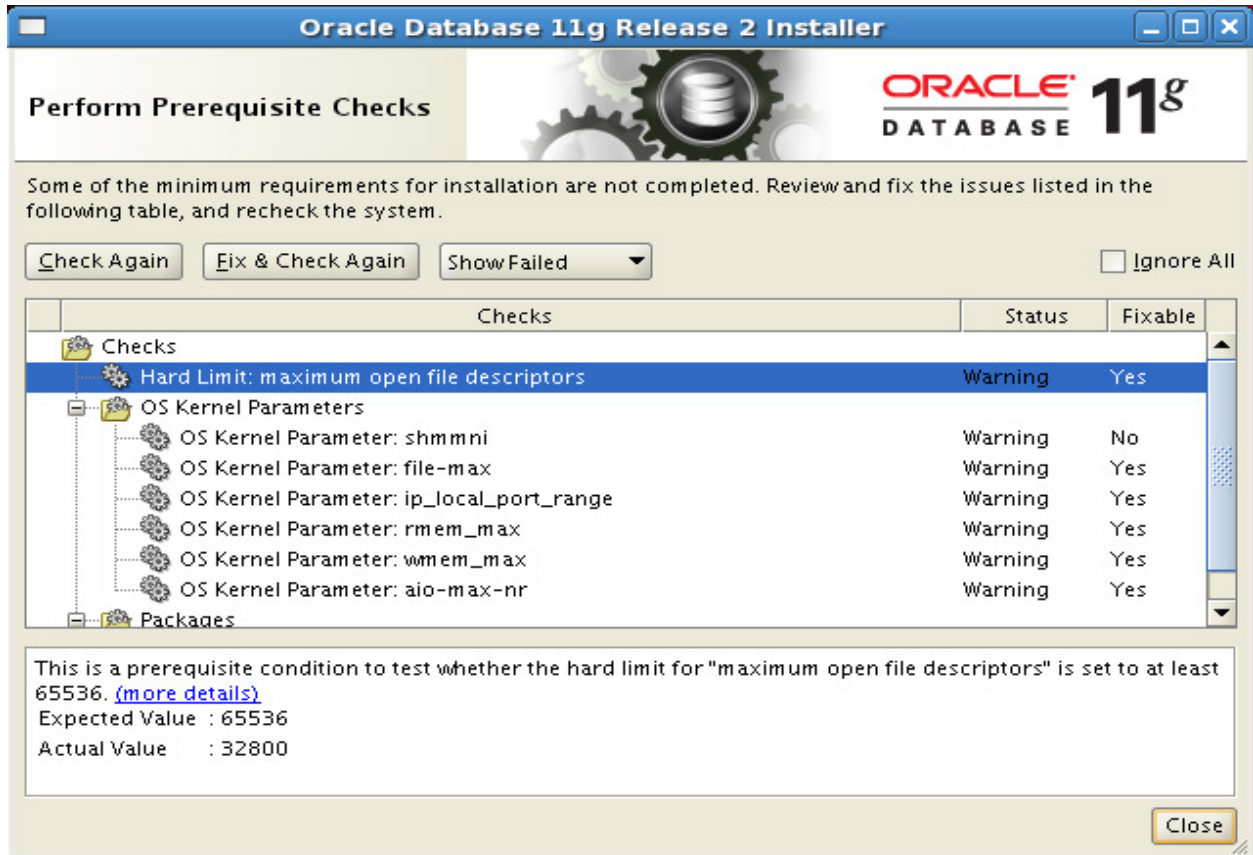
`>./RUNINSTALLER_CHECK`

```

root@willsys7:/oracle/stage/112_32
File Edit View Terminal Tabs Help
willsys7:oraw11 43> ll
total 224
-rwxr-xr-x 1 oraw11 dba 141727 Oct  1  2013 llgininstall.sh
-rw-r--r-- 1 oraw11 dba  52745 Oct  1  2013 mopatch-2_1_15.zip
-rwxr-xr-x 1 oraw11 dba    797 Oct  1  2013 RUNINSTALLER
-rwxr-xr-x 1 oraw11 dba    820 Oct  1  2013 RUNINSTALLER_CHECK
willsys7:oraw11 44> ./RUNINSTALLER_CHECK

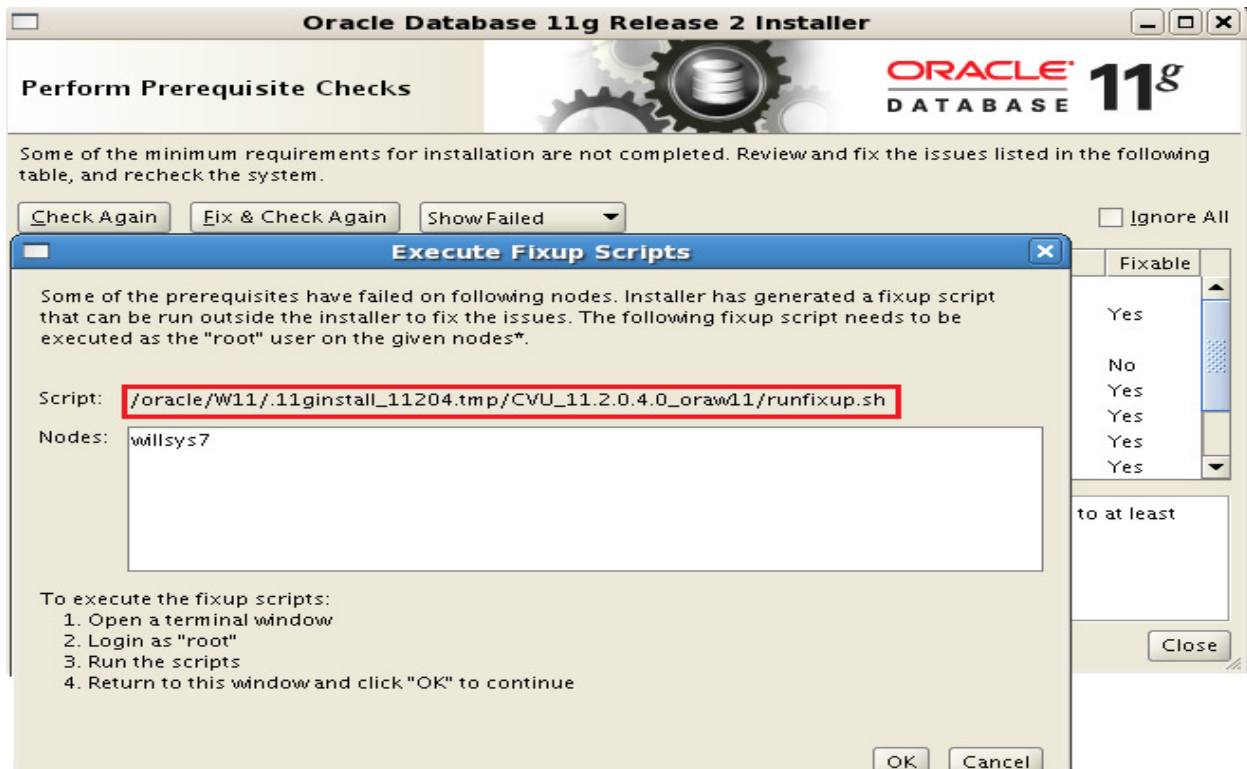
```

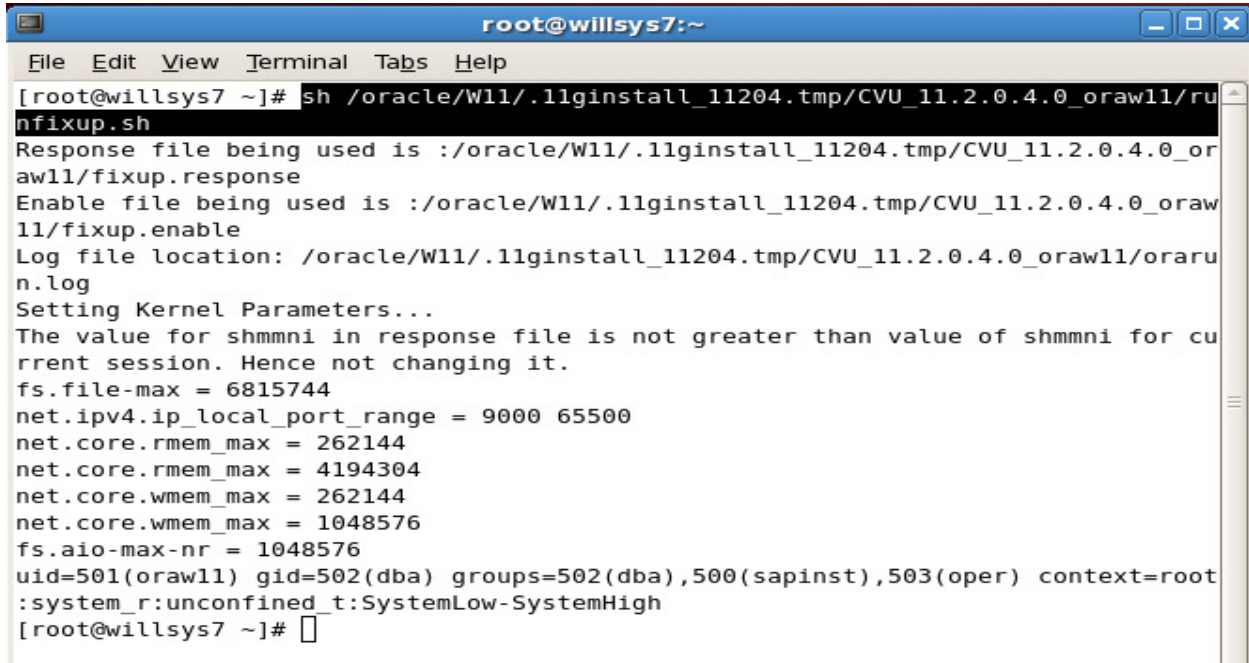
```
root@willsys7:/oracle/stage/112_32
File Edit View Terminal Tabs Help
willsys7:oraw11 44> ./RUNINSTALLER_CHECK
.
. llginstall.sh - Oracle Database 11.2 Software Installation Script
. Version 11.2.0.4.0 Release Date 2013-09-23 Patch Level 043 (rel)
. Copyright (c) Oracle Corporation 2010, 2011. All Rights Reserved.
. SAP note 1524205
. Oracle Database Release: 11.2.0.4.0
.
. Host      : willsys7
. Platform : linux_i686 (32-bit)
. Date     : 2015_02_16 15:12:57
. User    : oraw11
. Log dir. : /oracle/W11
. Logfile  : /oracle/W11/llginstall_11204.log
.
. llginstall.sh was called with the following options (command line):
. -caller RUNINSTALLER_CHECK -oracle_stage /oracle/stage/112_32/database -ignore
SysPrereqs -executePrereqs
.
. Performing pre-installation checks ...
.
. (OK)      - Environment variable <DB_SID> is set to W11
. (OK)      - Got value for <DB_SID> from environment.
. (OK)      - Got location for Oracle base from environment.
```



Click on **Fix & Check Again**

Run the script in new terminal

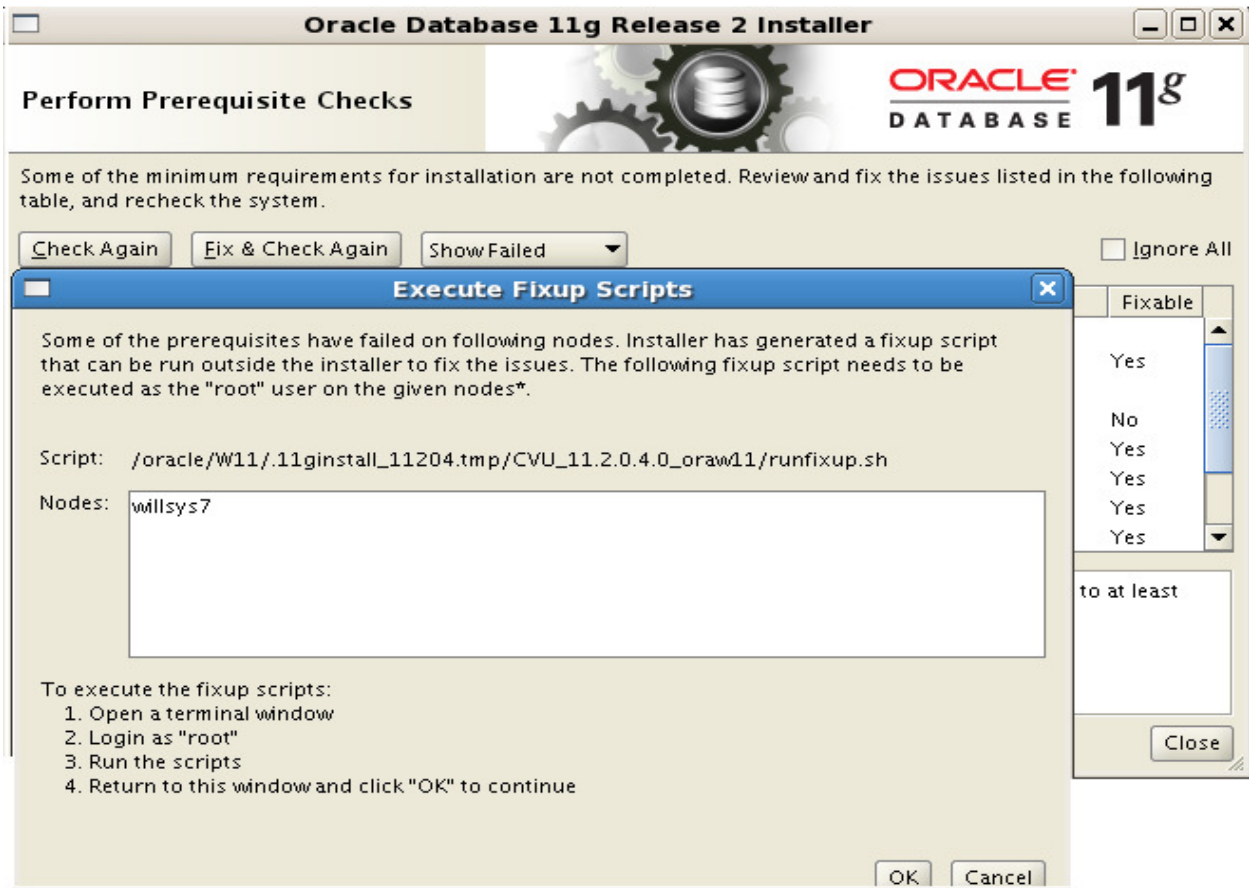


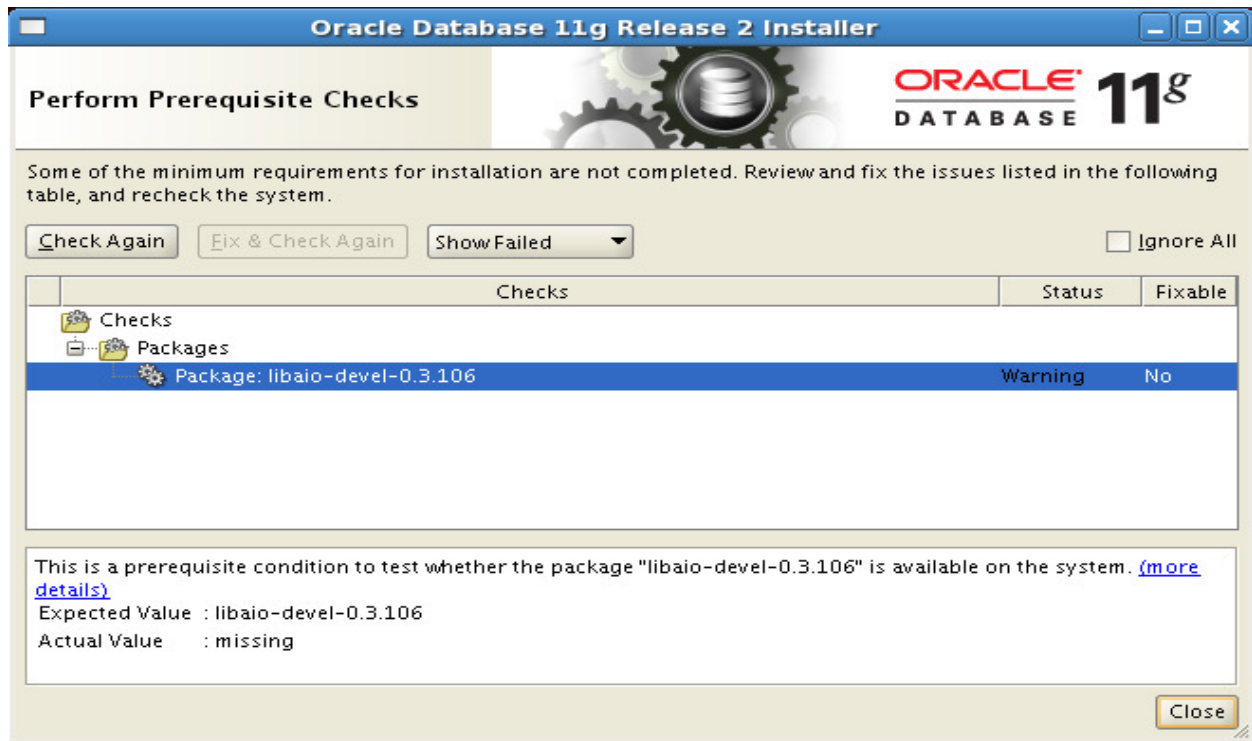


```
root@willsys7:~  
File Edit View Terminal Tabs Help  
[root@willsys7 ~]# sh /oracle/W11/.11ginstall_11204.tmp/CVU_11.2.0.4.0_oraw11/runfixup.sh  
Response file being used is :/oracle/W11/.11ginstall_11204.tmp/CVU_11.2.0.4.0_oraw11/fixup.response  
Enable file being used is :/oracle/W11/.11ginstall_11204.tmp/CVU_11.2.0.4.0_oraw11/fixup.enable  
Log file location: /oracle/W11/.11ginstall_11204.tmp/CVU_11.2.0.4.0_oraw11/orarun.log  
Setting Kernel Parameters...  
The value for shmmni in response file is not greater than value of shmmni for current session. Hence not changing it.  
fs.file-max = 6815744  
net.ipv4.ip_local_port_range = 9000 65500  
net.core.rmem_max = 262144  
net.core.rmem_max = 4194304  
net.core.wmem_max = 262144  
net.core.wmem_max = 1048576  
fs.aio-max-nr = 1048576  
uid=501(oracle) gid=502(dba) groups=502(dba),500(sapinst),503(oper) context=root:system_r:unconfined_t:SystemLow-SystemHigh  
[root@willsys7 ~]#
```

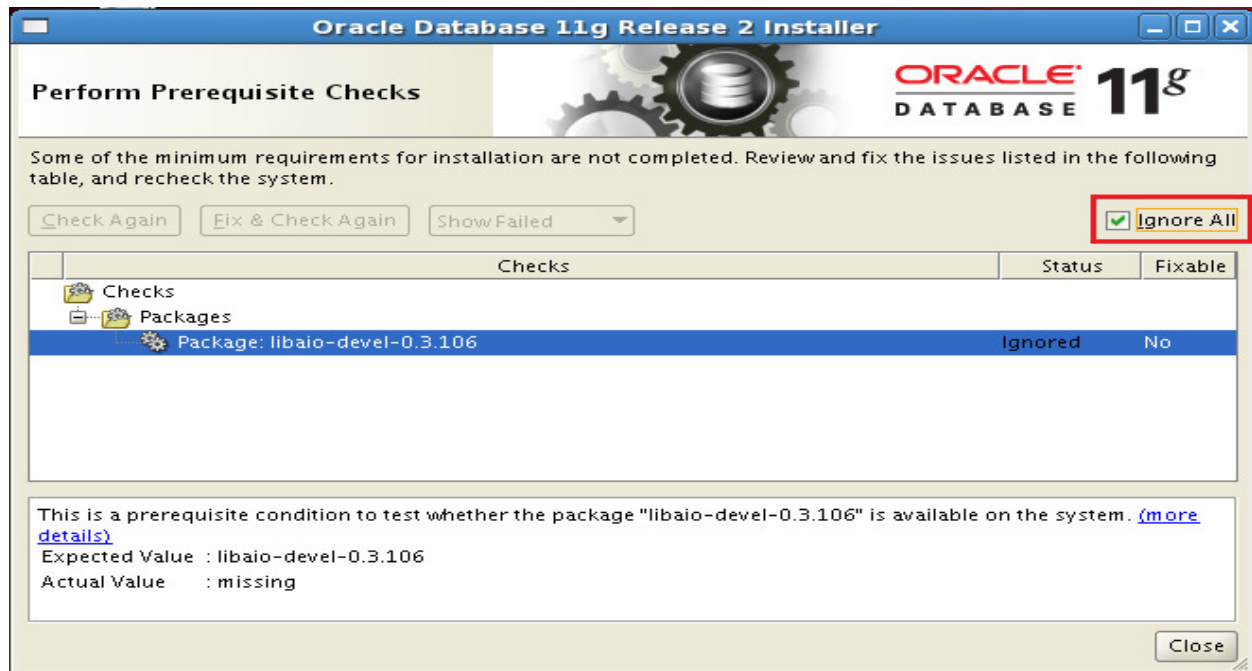
After run the script click on **OK**



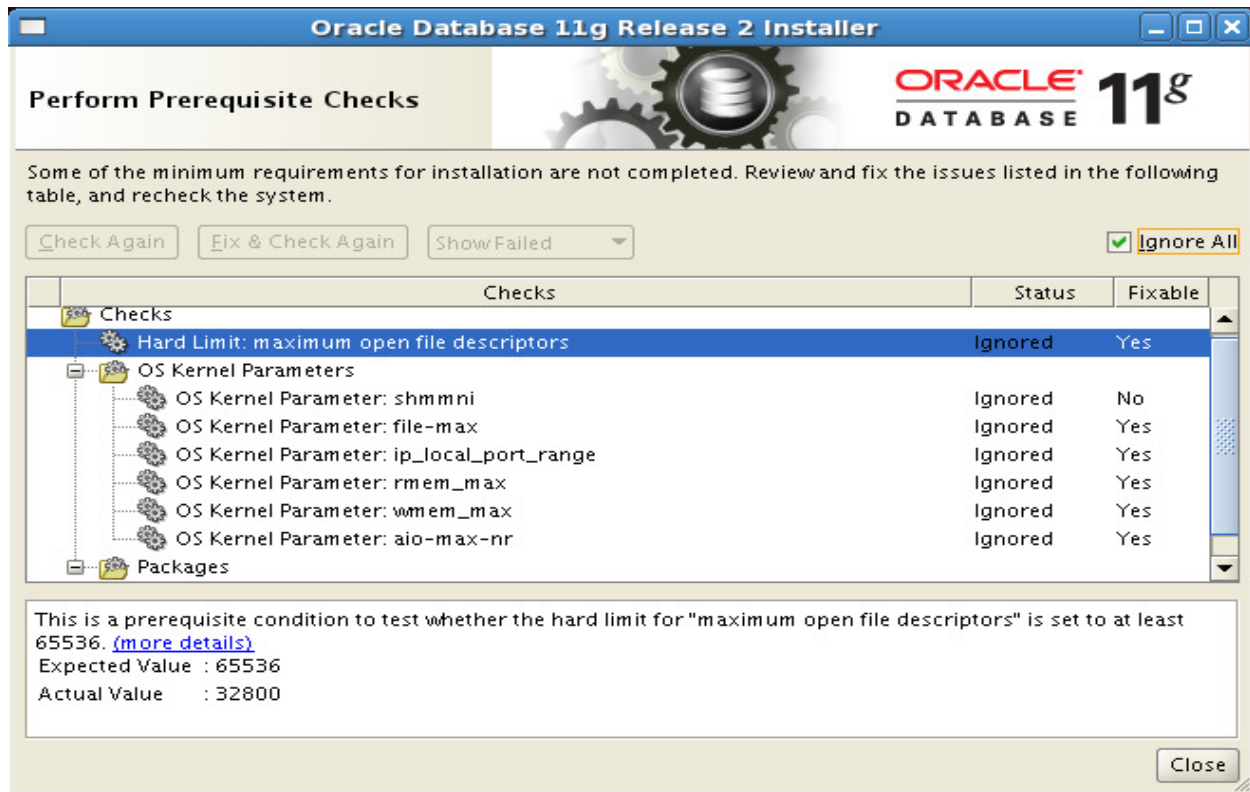




Click on **Ignore All**



Click on **Close** button



Run the `./RUNINSTALLER`

`>./RUNINSTALLER`

```

root@willsys7:~
File Edit View Terminal Tabs Help

[root@willsys7 ~]# xhost +
access control disabled, clients can connect from any host
[root@willsys7 ~]# su - oraw11
willsys7:oraw11 36> xclock

willsys7:oraw11 37> cd /oracle/stage/112_32/database/SAP/
willsys7:oraw11 38> ll
total 224
-rwxr-xr-x 1 oraw11 dba 141727 Oct  1  2013 llginstall.sh
-rw-r--r-- 1 oraw11 dba  52745 Oct  1  2013 mopatch-2 1 15.zip
-rwxr-xr-x 1 oraw11 dba    797 Oct  1  2013 RUNINSTALLER
-rwxr-xr-x 1 oraw11 dba    820 Oct  1  2013 RUNINSTALLER_CHECK
willsys7:oraw11 39> ./RUNINSTALLER


```

```

root@willsys7:~
File Edit View Terminal Tabs Help

.
. Create symbolic link           = yes - relative path
. Install MOPatch                 = yes
. Clean up temp. files           = yes
.
. OUI command line:
.
. LANG=C TMP=/oracle/W11e/runInstaller -respons
letion -ignoreSysPrereq
.
. (INFO) - Starting
ease wait ...
.
Starting Oracle Univers
Checking Temp space: mu
sed
Checking swap space: mu
ed
Loading setup driver
Checking monitor: must be configured to display at least 256 colors. Act
ual 16777216 Passed
Preparing to launch Oracle Universal Installer from /oracle/W11/.llginstall
_11204.tmp/OraInstall2015-02-16_08-45-36PM. Please wait ...

```



Click on **Next**

View details.' Below this is an 'Email:' label followed by a text input field. A note says 'Easier for you if you use your My Oracle Support email address/username.' There is a checkbox labeled 'I wish to receive security updates via My Oracle Support.' Below it is a 'My Oracle Support Password:' label followed by a text input field. At the bottom, there are buttons for '< Back', 'Next >', 'Install', and 'Cancel'." data-bbox="114 220 880 600"/>

Oracle Database 11g Release 2 Installer - Installing database - Step 1 of 11

**Configure Security Updates**

Provide your email address to be informed of security issues, install the product and initiate configuration manager. [View details.](#)

Email:

Easier for you if you use your My Oracle Support email address/username.

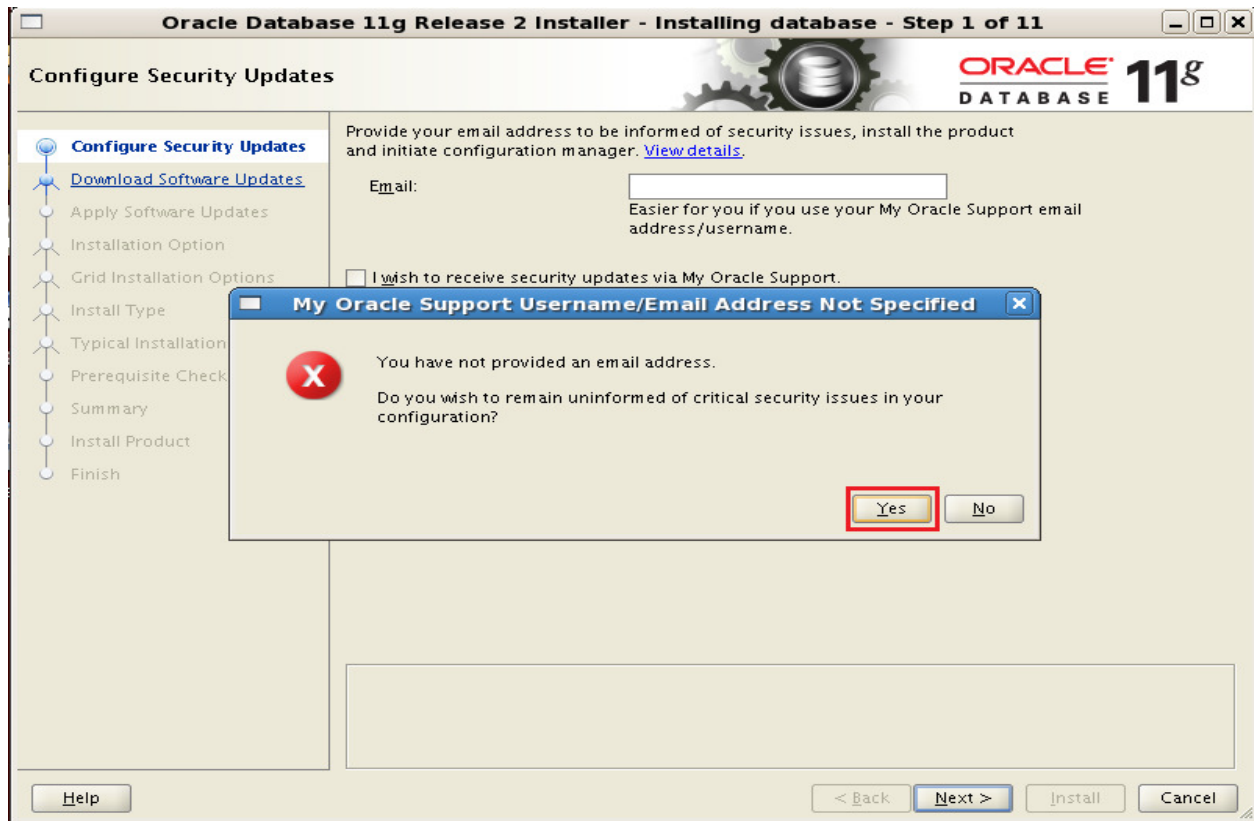
I wish to receive security updates via My Oracle Support.

My Oracle Support Password:

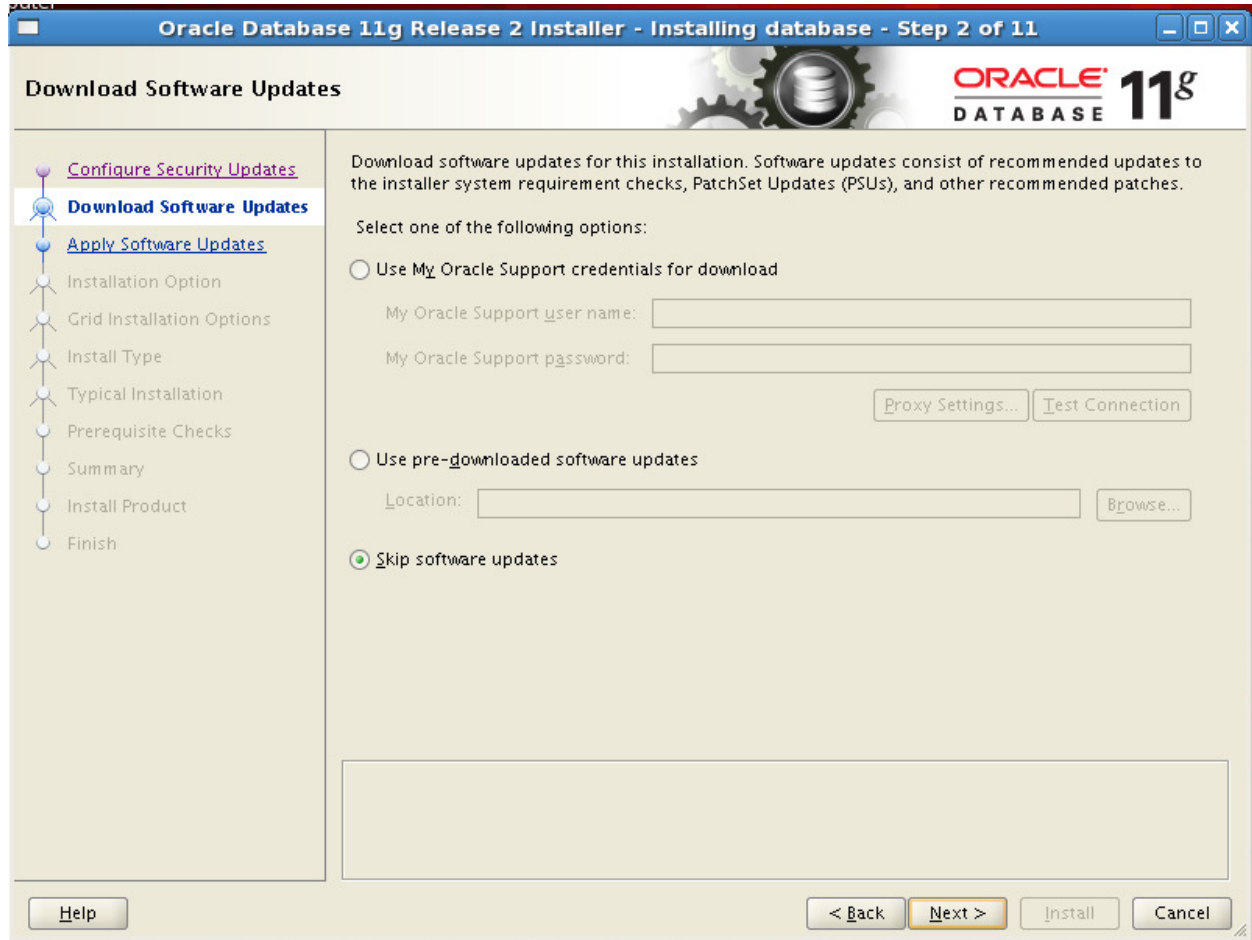
Help < Back Next > Install Cancel

Click on **Yes**

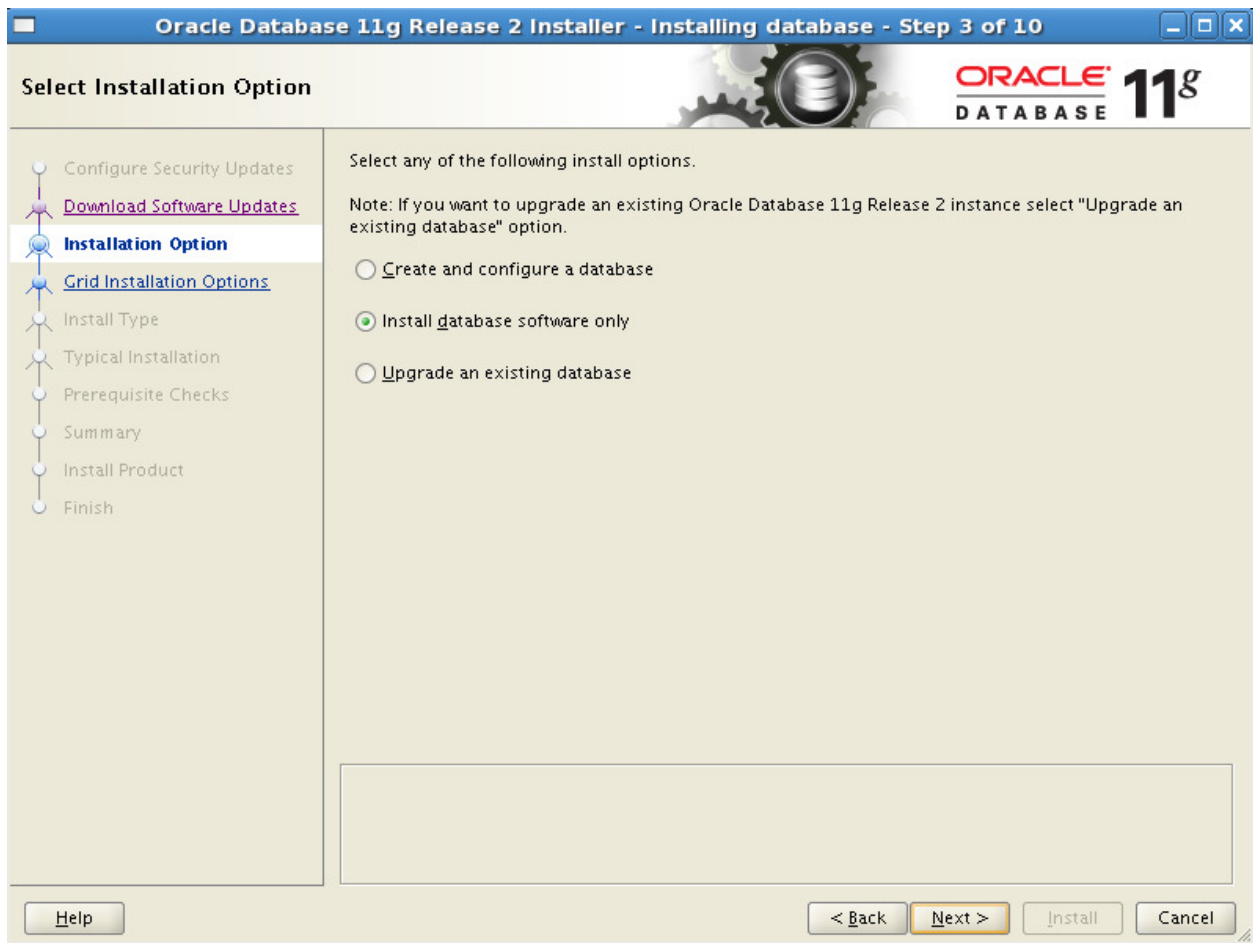




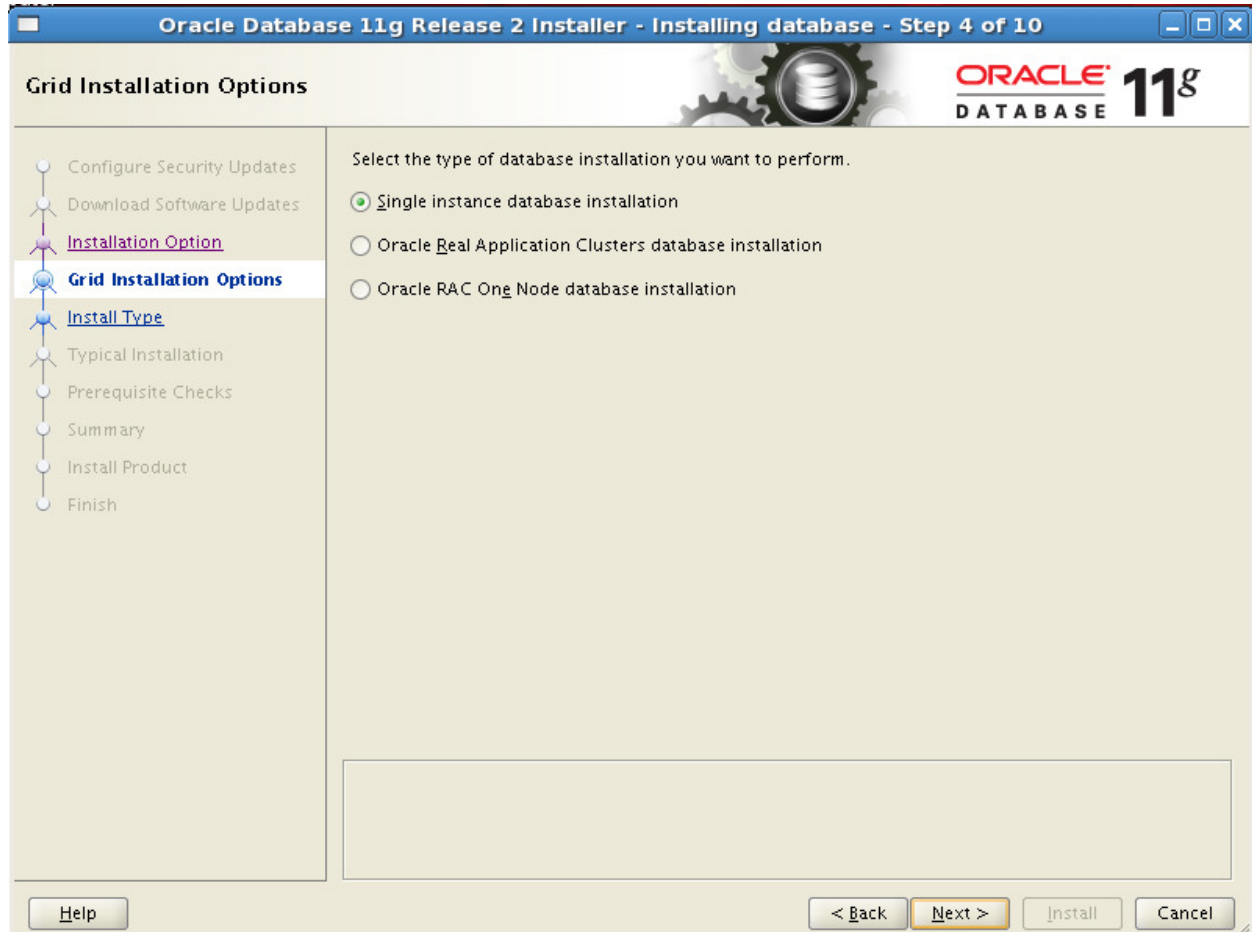
Click on **Next**



Click on **Next**



Click **Next**

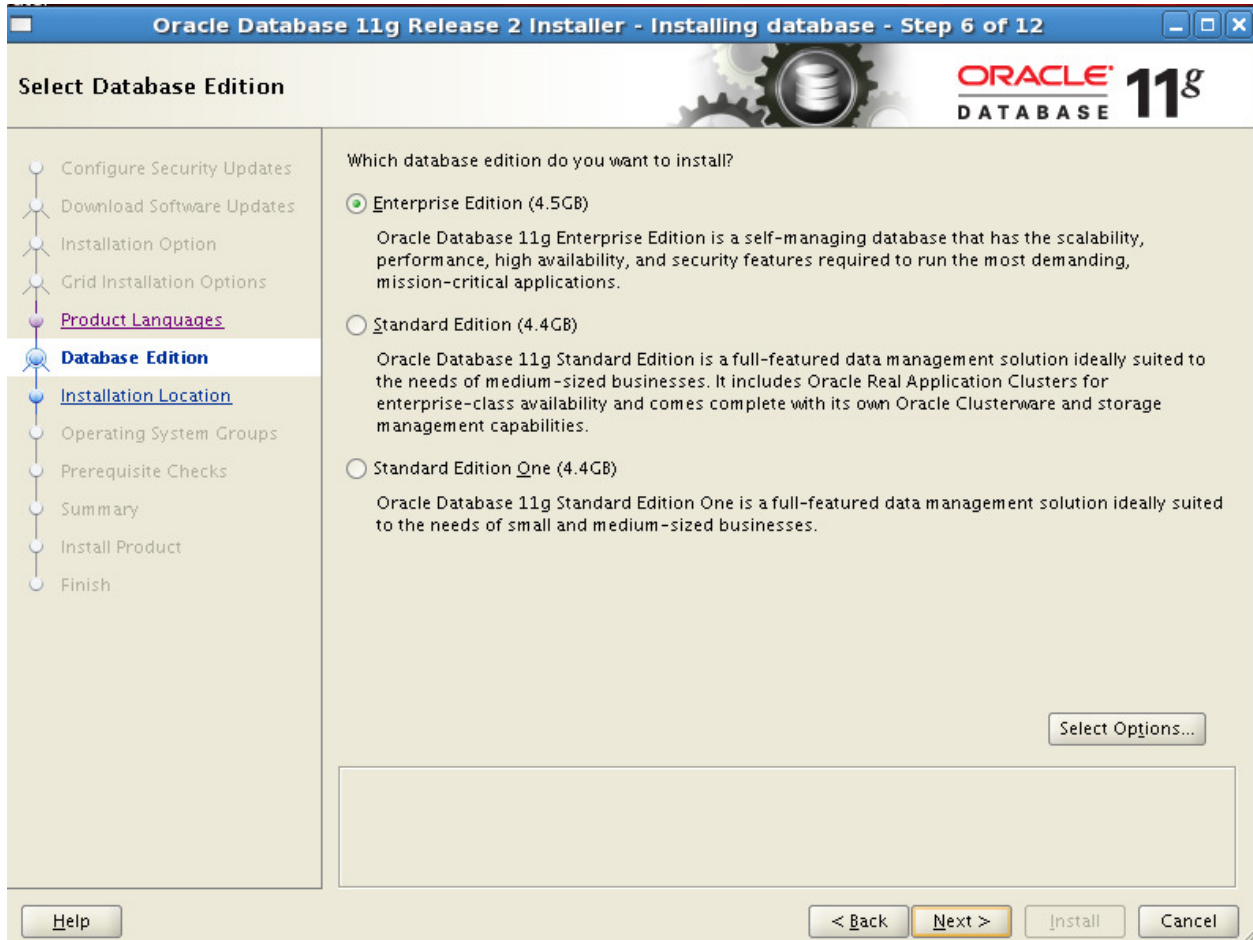


Select the language and click on **Next**





Click on **Next**

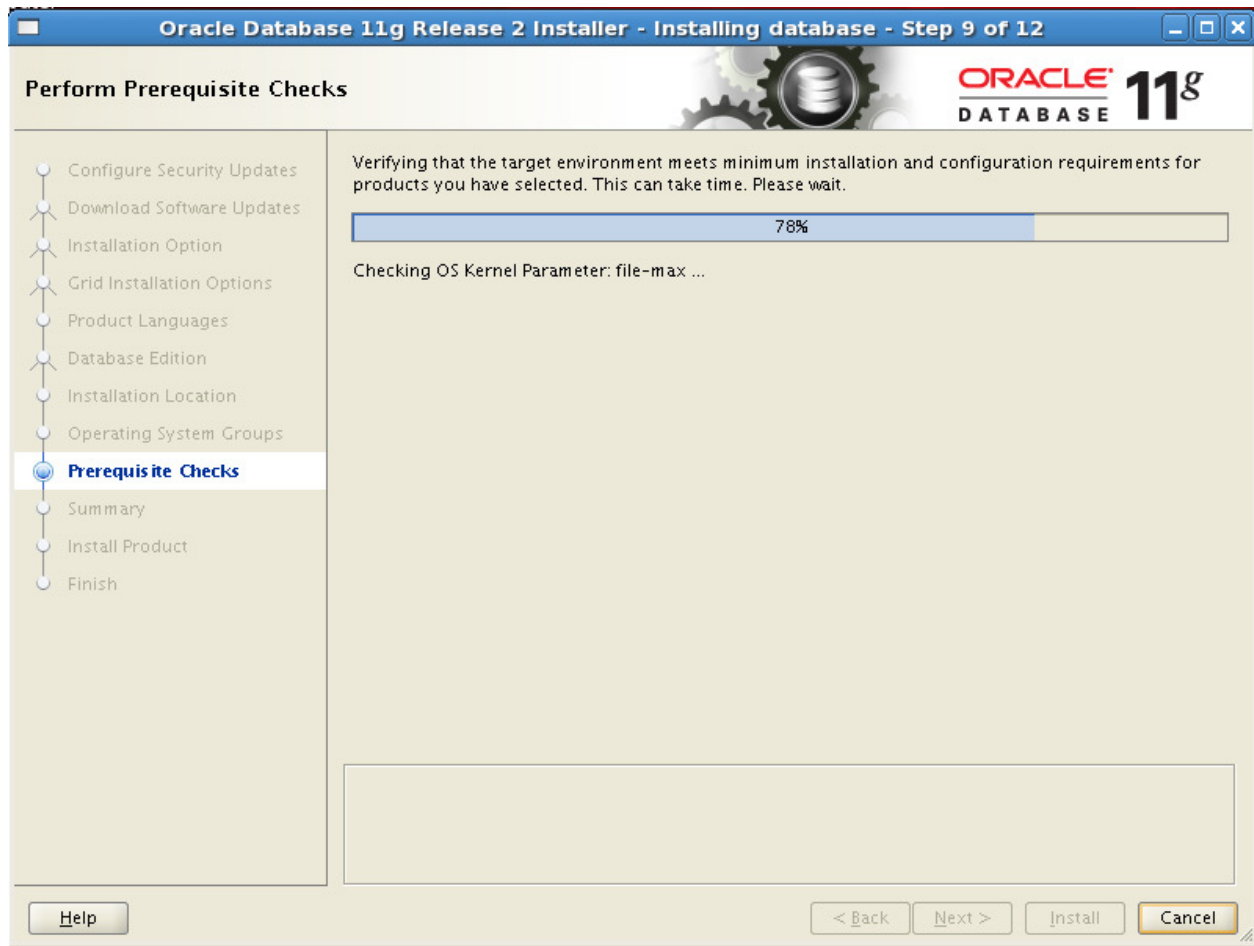


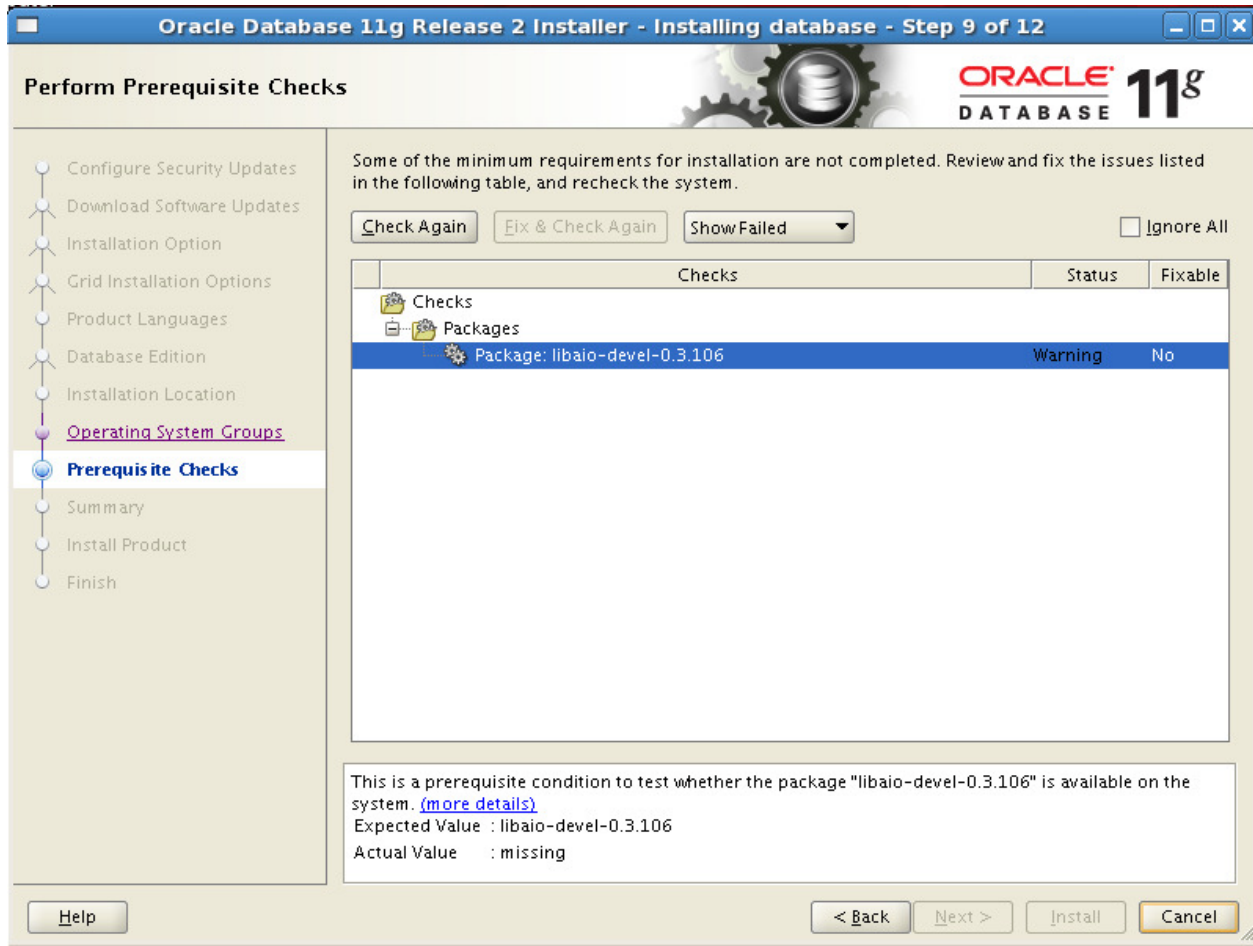
Specify the installation location and click on **Next**



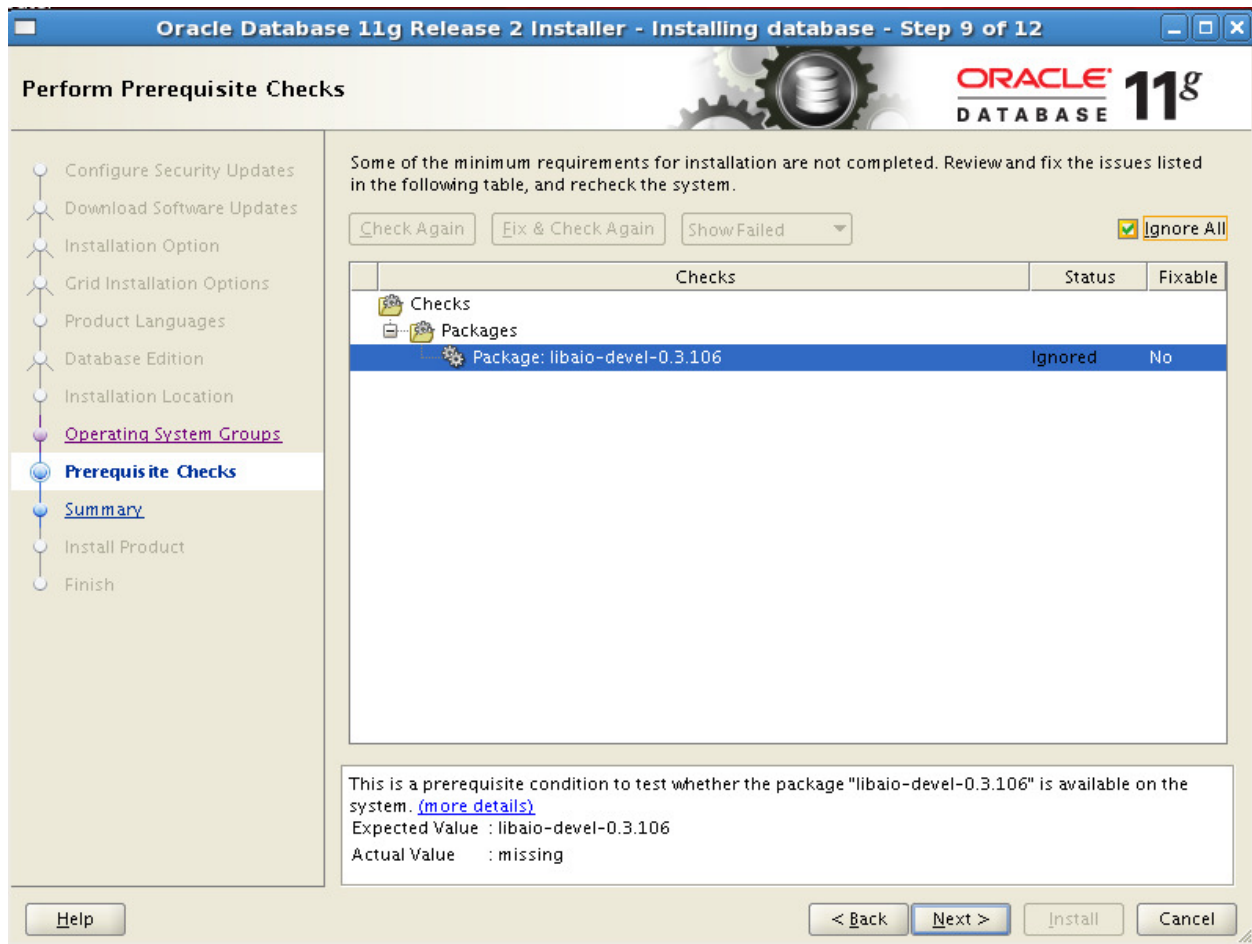
Click on **Next**







Select the check box **Ignore All**



Click on **Yes**

more details. Expected Value : libaio-devel-0.3.106 Actual Value : missing'. The bottom of the installer window has 'Help', '< Back', 'Next >', 'Install', and 'Cancel' buttons." data-bbox="114 158 880 602"/>

Oracle Database 11g Release 2 Installer - Installing database - Step 9 of 12


### Perform Prerequisite Checks

Some of the minimum requirements for installation are not completed. Review and fix the issues listed in the following table, and recheck the system.

Ignore All

Checks	Status	Fixable
Checks		
Packages		
Package: libaio-devel-0.3.106	Ignored	No

**Oracle Database 11g Release 2 Installer**

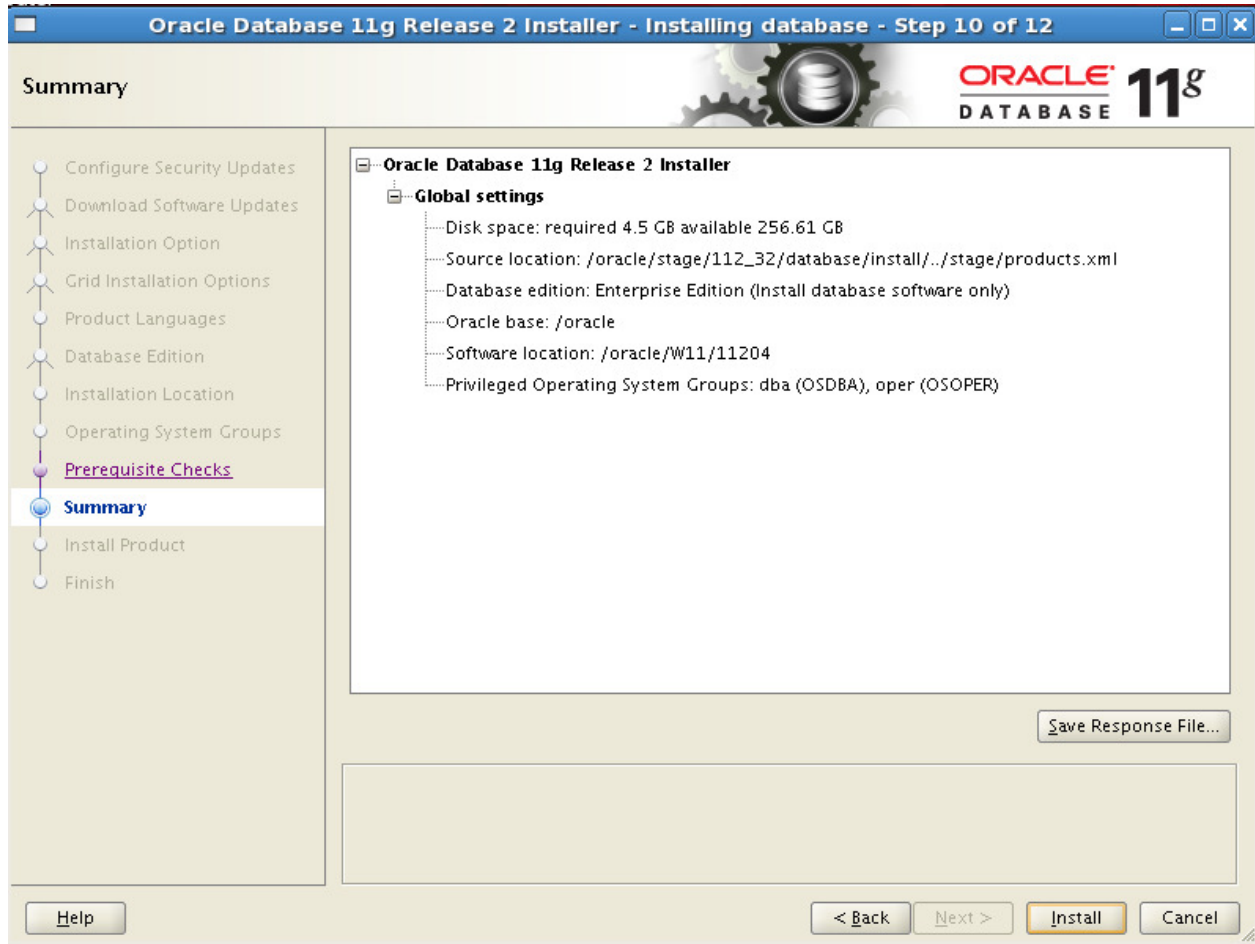
 [INS-13016] You have chosen to ignore some of the prerequisites for this installation. This may impact product configuration.

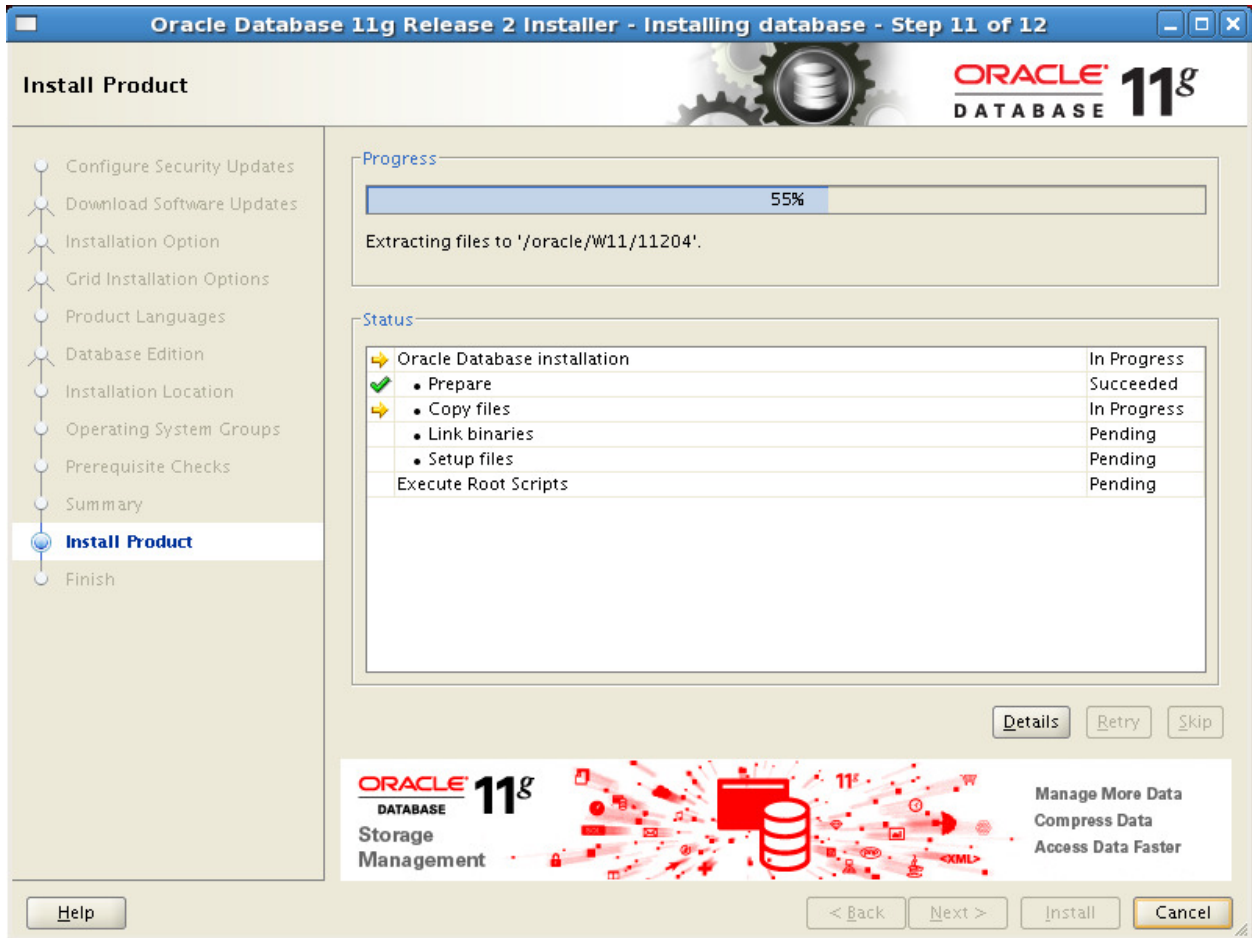
Are you sure you want to continue?

This is a prerequisite condition to test whether the package "libaio-devel-0.3.106" is available on the system. [more details](#).  
Expected Value : libaio-devel-0.3.106  
Actual Value : missing



Click on **Install**

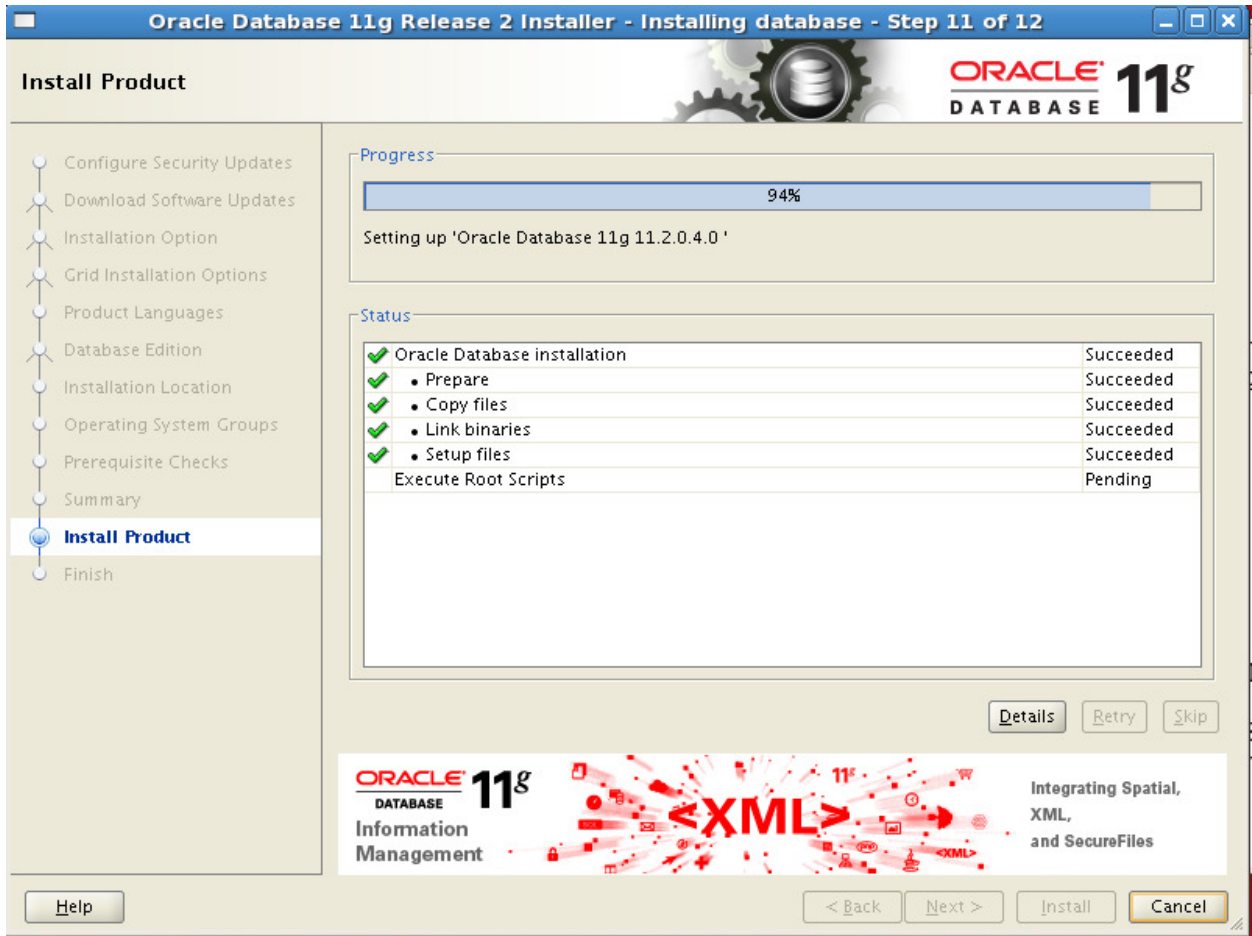




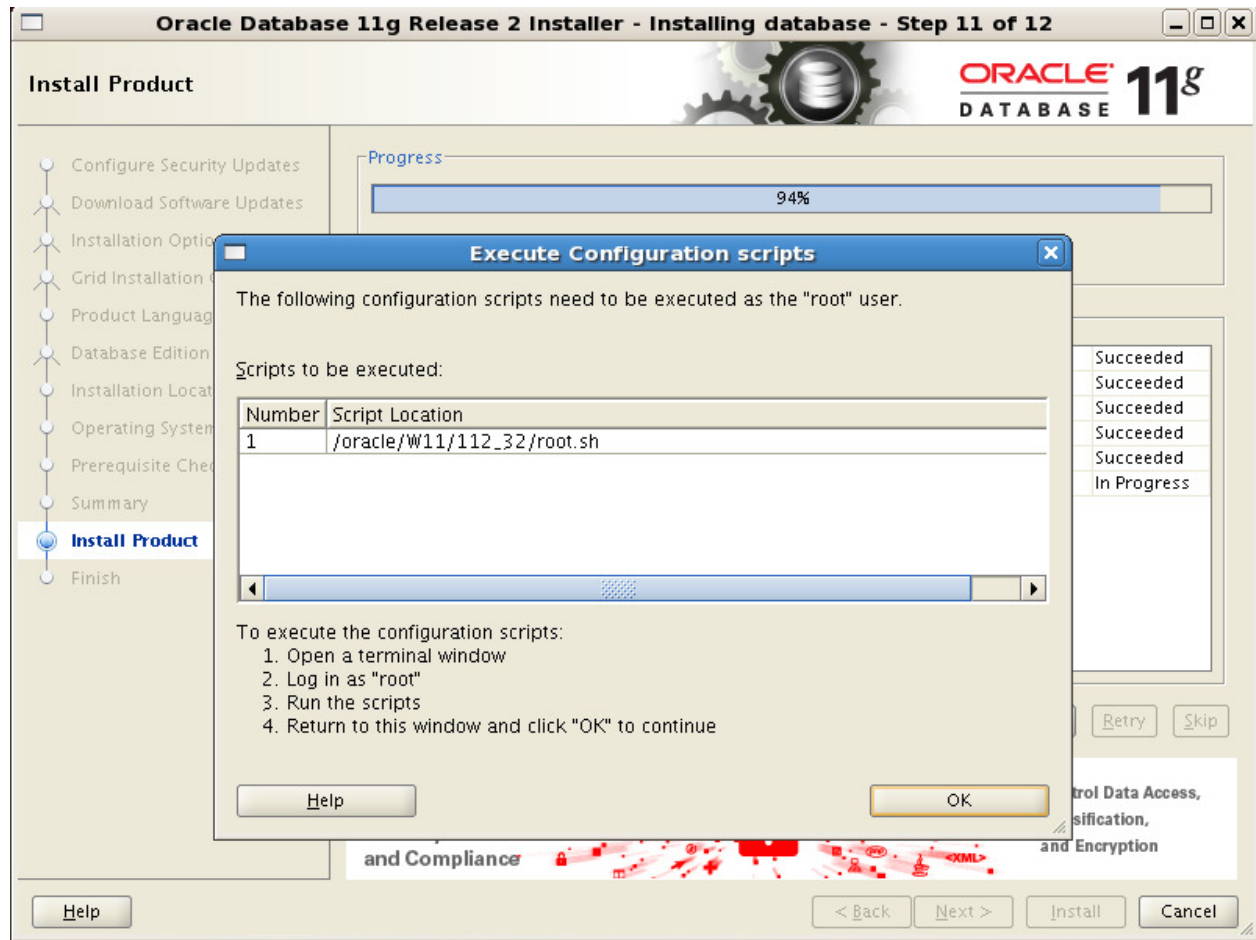
The screenshot shows the Oracle Database 11g Release 2 Installer window. The title bar reads "Oracle Database 11g Release 2 Installer - Installing database - Step 11 of 12". The main window is titled "Install Product" and features a navigation pane on the left with steps: Configure Security Updates, Download Software Updates, Installation Option, Grid Installation Options, Product Languages, Database Edition, Installation Location, Operating System Groups, Prerequisite Checks, Summary, **Install Product**, and Finish. The main area is divided into "Progress" and "Status" sections. The "Progress" section shows a 55% completion bar and the text "Extracting files to '/oracle/w11/11204'". The "Status" section contains a table with the following data:

Task	Status
Oracle Database installation	In Progress
• Prepare	Succeeded
• Copy files	In Progress
• Link binaries	Pending
• Setup files	Pending
Execute Root Scripts	Pending

At the bottom of the main area, there are buttons for "Details", "Retry", and "Skip". Below this is a banner for "ORACLE DATABASE 11g Storage Management" with the text "Manage More Data", "Compress Data", and "Access Data Faster". The bottom of the window includes a "Help" button on the left and navigation buttons "< Back", "Next >", "Install", and "Cancel" on the right.



Run the script in new terminal



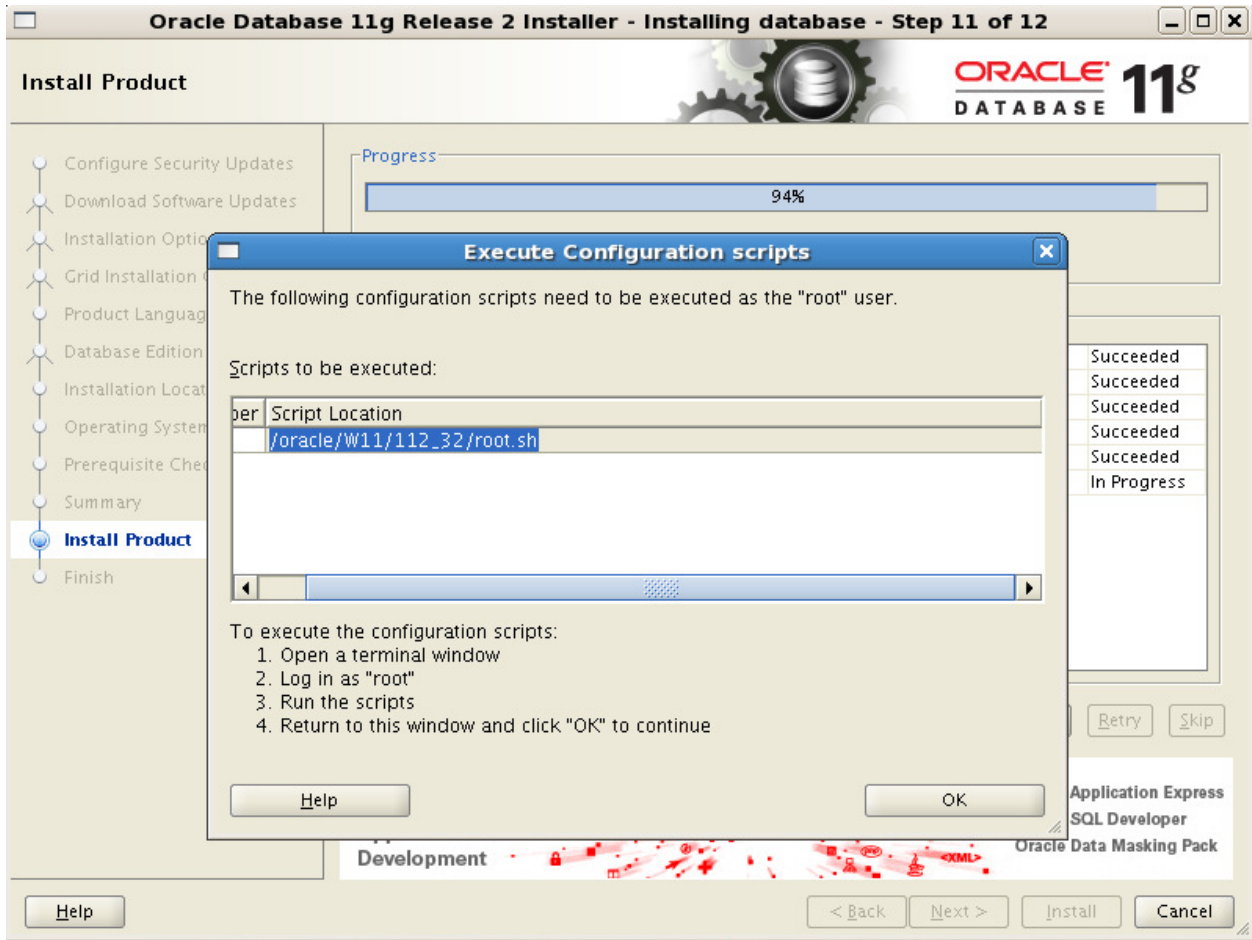
```
root@willsys7:~
File Edit View Terminal Tabs Help
[root@willsys7 ~]# sh /oracle/W11/112_32/root.sh
Performing root user operation for Oracle 11g

The following environment variables are set as:
  ORACLE_OWNER= oraw11
  ORACLE_HOME=  /oracle/W11/112_32

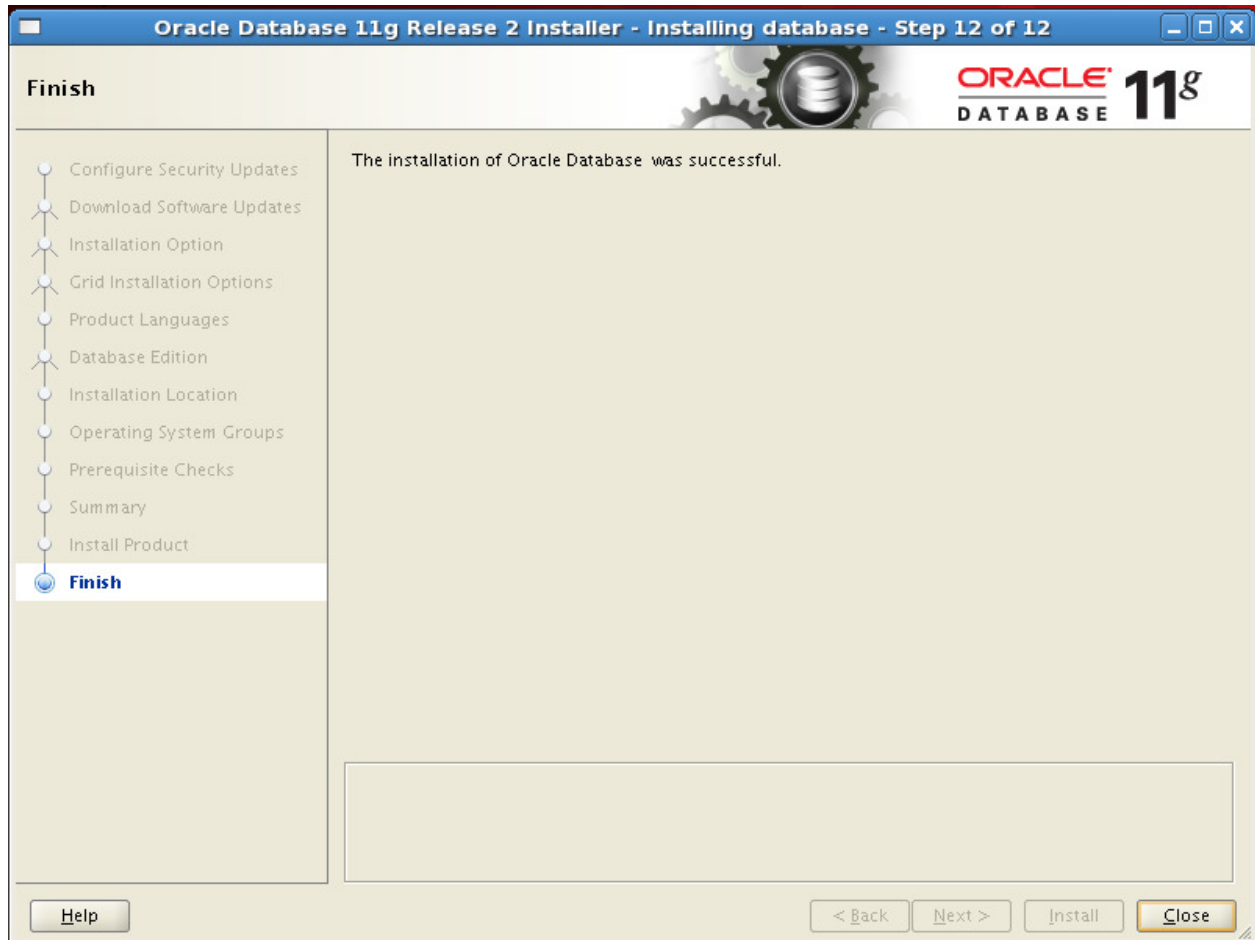
Enter the full pathname of the local bin directory: [/usr/local/bin]: y
The file "dbhome" already exists in y.  Overwrite it? (y/n)
[n]: y
   Copying dbhome to y ...
The file "oraenv" already exists in y.  Overwrite it? (y/n)
[n]: y
   Copying oraenv to y ...
The file "coraenv" already exists in y.  Overwrite it? (y/n)
[n]: y
   Copying coraenv to y ...

Entries will be added to the /etc/oratab file as needed by
Database Configuration Assistant when a database is created
Finished running generic part of root script.
Now product-specific root actions will be performed.
Finished product-specific root actions.
[root@willsys7 ~]#
```

After executing the script click on **OK**



And then click on **Close**





Select the version by using the command **select version from v\$instance;**

**SQL> select version from v\$instance;**

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
willsys7:oraw11 43> sqlplus / as sysdba  
  
SQL*Plus: Release 10.2.0.4.0 - Production on Mon Feb 16 22:16:19 2015  
Copyright (c) 1982, 2007, Oracle. All Rights Reserved.  
  
Connected to:  
Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 - Production  
With the Partitioning, Data Mining and Real Application Testing options  
  
SQL> select version from v$instance;  
  
VERSION  
-----  
10.2.0.4.0  
  
SQL> █
```

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
willsys7:oraw11 46> cd /oracle/W11/112_32/  
willsys7:oraw11 47> ll  
total 608  
drwxr-xr-x  8 oraw11 dba  4096 Feb 16 22:08 apex  
drwxr-xr-x  8 oraw11 dba  4096 Feb 16 22:00 assistants  
drwxr-xr-x  2 oraw11 dba 12288 Feb 16 22:14 bin  
drwxr-xr-x  7 oraw11 dba  4096 Feb 16 22:09 ccr  
drwxr-xr-x  3 oraw11 dba  4096 Feb 16 22:09 cdata  
drwxr-xr-x  4 oraw11 dba  4096 Feb 16 22:15 cfgtoollogs  
drwxr-xr-x  4 oraw11 dba  4096 Feb 16 22:07 clone  
drwxr-xr-x  2 oraw11 dba  4096 Feb 16 22:09 config  
drwxr-xr-x  6 oraw11 dba  4096 Feb 16 22:00 crs  
drwxr-xr-x  3 oraw11 dba  4096 Feb 16 22:00 csmig  
drwxr-xr-x  6 oraw11 dba  4096 Feb 16 22:09 css  
drwxr-xr-x 10 oraw11 dba  4096 Feb 16 22:10 ctx  
drwxr-xr-x  7 oraw11 dba  4096 Feb 16 22:00 cv  
drwxr-xr-x  2 oraw11 dba  4096 Feb 16 22:00 dbs  
drwxr-xr-x  2 oraw11 dba  4096 Feb 16 22:08 dc_ocm  
drwxr-xr-x  4 oraw11 dba  4096 Feb 16 22:13 deinstall  
drwxr-xr-x  3 oraw11 dba  4096 Feb 16 22:00 demo  
drwxr-xr-x  3 oraw11 dba  4096 Feb 16 22:00 diagnostics  
drwxr-xr-x  4 oraw11 dba  4096 Feb 16 22:00 dv  
drwxr-xr-x  3 oraw11 dba  4096 Feb 16 22:00 emcli  
drwxr-xr-x  3 oraw11 dba  4096 Feb 16 22:09 EMStage  
drwxr-xr-x  3 oraw11 dba  4096 Feb 16 22:00 has  
drwxr-xr-x  5 oraw11 dba  4096 Feb 16 22:13 hs
```

Before upgrading stop all the services

Login to sapuser (**su - sidadm**) stop all the services.

**]# su – sidadm**

**>stopsap**

```
File Edit View Terminal Tabs Help
[root@willsys7 ~]# su - wlladm
willsys7:wlladm 13> stopsap

Checking W11 Database
-----
ABAP Database is running

Stopping the SAP instance D01
-----
Shutdown-Log is written to /home/wlladm/stopsap_D01.log
Instance on host willsys7 stopped
Waiting for cleanup of resources.....

Stopping the SAP instance DVEBMGS00
-----
Shutdown-Log is written to /home/wlladm/stopsap_DVEBMGS00.log
Instance on host willsys7 stopped
Waiting for cleanup of resources.....
Running /usr/sap/W11/SYS/exe/run/stopdb
Trying to stop W11 database ...
Log file: /home/wlladm/stopdb.log
W11 database stopped
/usr/sap/W11/SYS/exe/run/stopdb completed successfully

Checking W11 Database
-----
ABAP Database is not available via R3trans
willsys7:wlladm 14> □
```

Stop the listener and database by logging into oracle user

]# su – orasid

>sqlplus / as sysdba

SQL>shut immediate

SQL>exit

>lsnrctl stop

```
File Edit View Terminal Tabs Help
[root@willsys7 ~]# su - oraw11
willsys7:oraw11 37> !sq
sqlplus / as sysdba

SQL*Plus: Release 10.2.0.4.0 - Production on Mon Feb 16 22:21:28 2015

Copyright (c) 1982, 2007, Oracle. All Rights Reserved.

Connected to an idle instance.

SQL> select status from v$instance;
select status from v$instance
*
ERROR at line 1:
ORA-01034: ORACLE not available

SQL> Disconnected
willsys7:oraw11 38> lsnrctl stop

LSNRCTL for Linux: Version 10.2.0.4.0 - Production on 16-FEB-2015 22:21:54

Copyright (c) 1991, 2007, Oracle. All rights reserved.

Connecting to (ADDRESS=(PROTOCOL=IPC)(KEY=W11.WORLD))
The command completed successfully
willsys7:oraw11 39> □
```

Copy the **listener.ora** and **sqlnet.ora** from 102\_32 to 112\_32

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
willsys7:oraw11 40> cd /oracle/W11/102_32/network/admin/  
willsys7:oraw11 41> ll  
total 40  
-rw-r--r-- 1 oraw11 dba 814 Feb 13 15:13 listener.ora  
drwxr-x--- 2 oraw11 dba 4096 Feb 13 15:05 samples  
-rw-r----- 1 oraw11 dba 172 Dec 26 2003 shrept.lst  
-rw-r--r-- 1 oraw11 dba 518 Feb 13 15:13 sqlnet.ora  
-rw-r--r-- 1 oraw11 dba 513 Feb 13 15:13 tnsnames.ora  
willsys7:oraw11 42> □
```

]# cd /oracle/SID/102\_32/network/admin/

admin]# cp -pr listener.ora sqlnet.ora /oracle/SID/112\_32/network/admin/

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
willsys7:oraw11 40> cd /oracle/W11/102_32/network/admin/  
willsys7:oraw11 41> ll  
total 40  
-rw-r--r-- 1 oraw11 dba 814 Feb 13 15:13 listener.ora  
drwxr-x--- 2 oraw11 dba 4096 Feb 13 15:05 samples  
-rw-r----- 1 oraw11 dba 172 Dec 26 2003 shrept.lst  
-rw-r--r-- 1 oraw11 dba 518 Feb 13 15:13 sqlnet.ora  
-rw-r--r-- 1 oraw11 dba 513 Feb 13 15:13 tnsnames.ora  
willsys7:oraw11 42> cp -pr listener.ora sqlnet.ora /oracle/W11/112_32/network/ad  
min/  
willsys7:oraw11 43> □
```

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
willsys7:oraw11 44> cd /oracle/W11/112_32/network/admin/  
willsys7:oraw11 45> ll  
total 32  
-rw-r--r-- 1 oraw11 dba 814 Feb 13 15:13 listener.ora  
drwxr-xr-x 2 oraw11 dba 4096 Feb 16 22:04 samples  
-rw-r--r-- 1 oraw11 dba 381 Dec 17 2012 shrept.lst  
-rw-r--r-- 1 oraw11 dba 518 Feb 13 15:13 sqlnet.ora  
willsys7:oraw11 46> █
```

Edit listener.ora

>vi listener.ora

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
willsys7:oraw11 47> cd /oracle/W11/112_32/network/admin/  
willsys7:oraw11 48> ll  
total 32  
-rw-r--r-- 1 oraw11 dba 814 Feb 13 15:13 listener.ora  
drwxr-xr-x 2 oraw11 dba 4096 Feb 16 22:04 samples  
-rw-r--r-- 1 oraw11 dba 381 Dec 17 2012 shrept.lst  
-rw-r--r-- 1 oraw11 dba 518 Feb 13 15:13 sqlnet.ora  
willsys7:oraw11 49> vi listener.ora █
```

Change 102\_32 to 112\_32

```
File Edit View Terminal Tabs Help
LISTENER =
  (ADDRESS_LIST =
    (ADDRESS =
      (PROTOCOL = IPC)
      (KEY = W11.WORLD)
    )
    (ADDRESS=
      (PROTOCOL = IPC)
      (KEY = W11)
    )
    (ADDRESS =
      (COMMUNITY = SAP.WORLD)
      (PROTOCOL = TCP)
      (HOST = willsys7)
      (PORT = 1527)
    )
  )
STARTUP_WAIT_TIME_LISTENER = 0
CONNECT_TIMEOUT_LISTENER = 10
TRACE_LEVEL_LISTENER = OFF
SID_LIST_LISTENER =
  (SID_LIST =
    (SID_DESC =
      (SID_NAME = W11)
      (ORACLE_HOME = /oracle/w11/112_32)
    )
  )
-- INSERT --
```

35,4 88%

Add the line **ADR\_BASE\_LISTENER = /oracle/SID/saptrace** at last



```
File Edit View Terminal Tabs Help
(ADDRESS_LIST =
  (ADDRESS =
    (PROTOCOL = IPC)
    (KEY = W11.WORLD)
  )
  (ADDRESS=
    (PROTOCOL = IPC)
    (KEY = W11)
  )
  (ADDRESS =
    (COMMUNITY = SAP.WORLD)
    (PROTOCOL = TCP)
    (HOST = willsys7)
    (PORT = 1527)
  )
)
STARTUP_WAIT_TIME_LISTENER = 0
CONNECT_TIMEOUT_LISTENER = 10
TRACE_LEVEL_LISTENER = OFF
SID_LIST_LISTENER =
  (SID_LIST =
    (SID_DESC =
      (SID_NAME = W11)
      (ORACLE_HOME = /oracle/W11/112_32)
    )
  )
ADDR BASE LISTENER = /oracle/W11/saptrace
-- INSERT --
```

36,42

Bot

```
File Edit View Terminal Tabs Help
(ADDRESS_LIST =
  (ADDRESS =
    (PROTOCOL = IPC)
    (KEY = W11.WORLD)
  )
  (ADDRESS=
    (PROTOCOL = IPC)
    (KEY = W11)
  )
  (ADDRESS =
    (COMMUNITY = SAP.WORLD)
    (PROTOCOL = TCP)
    (HOST = willsys7)
    (PORT = 1527)
  )
)
STARTUP_WAIT_TIME_LISTENER = 0
CONNECT_TIMEOUT_LISTENER = 10
TRACE_LEVEL_LISTENER = OFF
SID_LIST_LISTENER =
  (SID_LIST =
    (SID_DESC =
      (SID_NAME = W11)
      (ORACLE_HOME = /oracle/W11/112_32)
    )
  )
)
ADDR BASE LISTENER = /oracle/W11/saptrace
:wq!
```

After that save and quit

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
willsys7:oraw11 47> cd /oracle/W11/112_32/network/admin/  
willsys7:oraw11 48> ll  
total 32  
-rw-r--r-- 1 oraw11 dba 814 Feb 13 15:13 listener.ora  
drwxr-xr-x 2 oraw11 dba 4096 Feb 16 22:04 samples  
-rw-r--r-- 1 oraw11 dba 381 Dec 17 2012 shrept.lst  
-rw-r--r-- 1 oraw11 dba 518 Feb 13 15:13 sqlnet.ora  
willsys7:oraw11 49> vi listener.ora  
willsys7:oraw11 50> more listener.ora
```

```
File Edit View Terminal Tabs Help
#####
# Filename.....: listener.ora
# Created.....: created by SAP AG, R/3 Rel. >= 6.10
# Name.....:
# Date.....:
# @(#) $Id: //bc/700-1_REL/src/ins/SAPINST/impl/tpls/ora/ind/LISTENER.ORA#4 $
#####
ADMIN_RESTRICTIONS_LISTENER = on
LISTENER =
  (ADDRESS_LIST =
    (ADDRESS =
      (PROTOCOL = IPC)
      (KEY = W11.WORLD)
    )
    (ADDRESS=
      (PROTOCOL = IPC)
      (KEY = W11)
    )
    (ADDRESS =
      (COMMUNITY = SAP.WORLD)
      (PROTOCOL = TCP)
      (HOST = willsys7)
      (PORT = 1527)
    )
  )
)
STARTUP_WAIT_TIME_LISTENER = 0
CONNECT_TIMEOUT_LISTENER = 10
--More-- (77%)
```

```
File Edit View Terminal Tabs Help
(ADDRESS_LIST =
  (ADDRESS =
    (PROTOCOL = IPC)
    (KEY = W11.WORLD)
  )
  (ADDRESS=
    (PROTOCOL = IPC)
    (KEY = W11)
  )
  (ADDRESS =
    (COMMUNITY = SAP.WORLD)
    (PROTOCOL = TCP)
    (HOST = willsys7)
    (PORT = 1527)
  )
)
STARTUP_WAIT_TIME_LISTENER = 0
CONNECT_TIMEOUT_LISTENER = 10
TRACE_LEVEL_LISTENER = OFF
SID_LIST_LISTENER =
  (SID_LIST =
    (SID_DESC =
      (SID_NAME = W11)
      (ORACLE_HOME = /oracle/W11/112_32)
    )
  )
)
ADDR_BASE_LISTENER = /oracle/W11/saptrace
willsys7:oraw11 51> █
```

```
root@willsys7:~
File Edit View Terminal Tabs Help
willsys7:oraw11 52> vi sqlnet.ora █
```



Remove # at \$ORACLE\_SID:\$ORACLE\_HOME:<N/Y>:

```
File Edit View Terminal Tabs Help
#
# This file is used by ORACLE utilities.  It is created by root.sh
# and updated by the Database Configuration Assistant when creating
# a database.
#
# A colon, ':', is used as the field terminator.  A new line terminates
# the entry.  Lines beginning with a pound sign, '#', are comments.
#
# Entries are of the form:
# # $ORACLE_SID:$ORACLE_HOME:<N|Y>:
#
# The first and second fields are the system identifier and home
# directory of the database respectively.  The third field indicates
# to the dbstart utility that the database should , "Y", or should not,
# "N", be brought up at system boot time.
#
# Multiple entries with the same $ORACLE_SID are not allowed.
#
#
~
~
~
~
"/etc/oratab" 22L, 678C                                13,1
```



Add one line **SID:/oracle/SID/102\_32:N** after **\$ORACLE\_SID:\$ORACLE\_HOME:<N|Y>**:

```
File Edit View Terminal Tabs Help
#
# This file is used by ORACLE utilities. It is created by root.sh
# and updated by the Database Configuration Assistant when creating
# a database.
#
# A colon, ':', is used as the field terminator. A new line terminates
# the entry. Lines beginning with a pound sign, '#', are comments.
#
# Entries are of the form:
# $ORACLE_SID:$ORACLE_HOME:<N|Y>:
W11:/oracle/W11/102_32:N
#
# The first and second fields are the system identifier and home
# directory of the database respectively. The third field indicates
# to the dbstart utility that the database should, "Y", or should not,
# "N", be brought up at system boot time.
#
# Multiple entries with the same $ORACLE_SID are not allowed.
#
#
-- INSERT --
```

14,25

After that save and quit

```
File Edit View Terminal Tabs Help
#
# This file is used by ORACLE utilities.  It is created by root.sh
# and updated by the Database Configuration Assistant when creating
# a database.
#
# A colon, ':', is used as the field terminator.  A new line terminates
# the entry.  Lines beginning with a pound sign, '#', are comments.
#
# Entries are of the form:
#   $ORACLE_SID:$ORACLE_HOME:<N|Y>:
W11:/oracle/W11/102_32:N
#
# The first and second fields are the system identifier and home
# directory of the database respectively.  The third field indicates
# to the dbstart utility that the database should , "Y", or should not,
# "N", be brought up at system boot time.
#
# Multiple entries with the same $ORACLE_SID are not allowed.
#
#
~
~
~
~
:wq!
```

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
willsys7:oraw11 54> vi /etc/oratab  
willsys7:oraw11 55> more /etc/oratab
```

```
File Edit View Terminal Tabs Help  
willsys7:oraw11 54> vi /etc/oratab  
willsys7:oraw11 55> more /etc/oratab  
#  
  
# This file is used by ORACLE utilities. It is created by root.sh  
# and updated by the Database Configuration Assistant when creating  
# a database.  
  
# A colon, ':', is used as the field terminator. A new line terminates  
# the entry. Lines beginning with a pound sign, '#', are comments.  
#  
# Entries are of the form:  
#   $ORACLE_SID:$ORACLE_HOME:<N|Y>:  
W11:/oracle/W11/102_32:N  
#  
# The first and second fields are the system identifier and home  
# directory of the database respectively. The third field indicates  
# to the dbstart utility that the database should , "Y", or should not,  
# "N", be brought up at system boot time.  
#  
# Multiple entries with the same $ORACLE_SID are not allowed.  
#  
#  
willsys7:oraw11 56> 
```

Set the environment variables

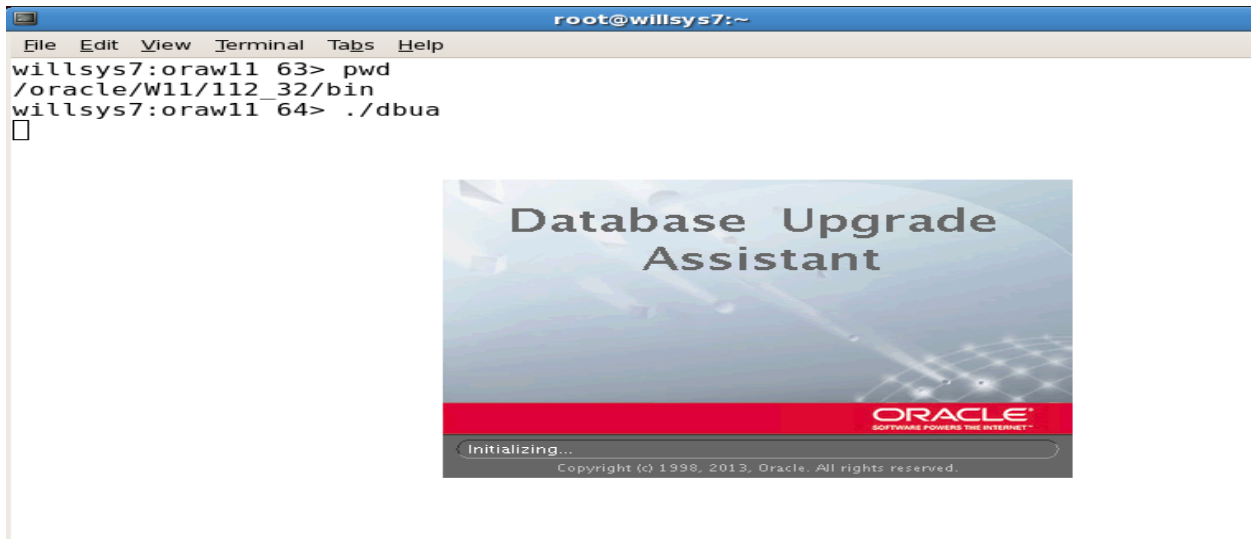
```
root@willsys7:~  
File Edit View Terminal Tabs Help  
willsys7:oraw11 57> setenv ORACLE_HOME_SRC /oracle/W11/102_32/  
willsys7:oraw11 58> setenv ORACLE_HOME_TGT /oracle/W11/112_32/  
willsys7:oraw11 59> 
```

```
File Edit View Terminal Tabs Help  
willsys7:oraw11 60> cd /oracle/W11/112_32/bin/  
willsys7:oraw11 61> ll  
total 392092  
-rwxr-xr-x 1 oraw11 dba      1567 Jul 11  2013 acfsroot  
-rwxr-xr-x 1 oraw11 dba    13394 Jul 17  2013 adapters  
-rwxr-x--x 1 oraw11 dba    21992 Feb 16 22:11 adrci  
-rwxr-x--x 1 oraw11 dba    21992 Feb 16 22:10 adrci0  
-rwxr-xr-x 1 oraw11 dba     9172 Jun  8  2010 AgentLifeCycle.pm  
-rwxr-xr-x 1 oraw11 dba     2343 Jul 26  2006 AgentMisc.pm  
-rwxr-xr-x 1 oraw11 dba     1840 Oct 17  2005 agentok.sh  
-rwxr-xr-x 1 oraw11 dba    17833 Sep 13  2007 AgentStatus.pm  
-rwxr-xr-x 1 oraw11 dba     3265 Jul 31  2008 AgentSubAgent.pm  
-rwxr-x--x 1 oraw11 dba    41170 Feb 16 22:10 agtctl  
-rwxr-x-- 1 oraw11 dba         0 Aug 25  2013 agtctl0  
-rwxr-x--x 1 oraw11 dba  2871077 Feb 16 22:10 amdu  
-rwxr-x-- 1 oraw11 dba         0 Aug 25  2013 amdu0  
-rwxr-x--x 1 oraw11 dba     1515 Feb 16 22:09 aqxmlctl  
-rw-r--r-- 1 oraw11 dba     9069 Oct  5  2008 aqxmlctl.pl  
-rwxr-x-- 1 oraw11 dba     5469 Apr 21  2010 asmcmd  
-rwxr-xr-x 1 oraw11 dba   34558 Jan 12  2012 asmcmdcore  
-rwxr-xr-x 1 oraw11 dba     2405 Feb 16 22:09 bndlchk  
-rwxr-xr-x 1 oraw11 dba       213 Feb 16 22:10 chopt  
-rw-r--r-- 1 oraw11 dba     2772 Feb 16 22:10 chopt.ini  
-rw-r--r-- 1 oraw11 dba     6363 Feb 16 22:10 chopt.pl  
-rwxr-xr-x 1 oraw11 dba     1303 Feb  3  2010 cluvfy  
-rwxr-xr-x 1 oraw11 dba     1303 Feb  3  2010 cluvfyrac.sh  
-rwxr-xr-x 1 oraw11 dba       489 Feb 16 22:13 commonenv  
-rwxr-xr-x 1 oraw11 dba       495 Apr 14  2006 commonenv.template
```

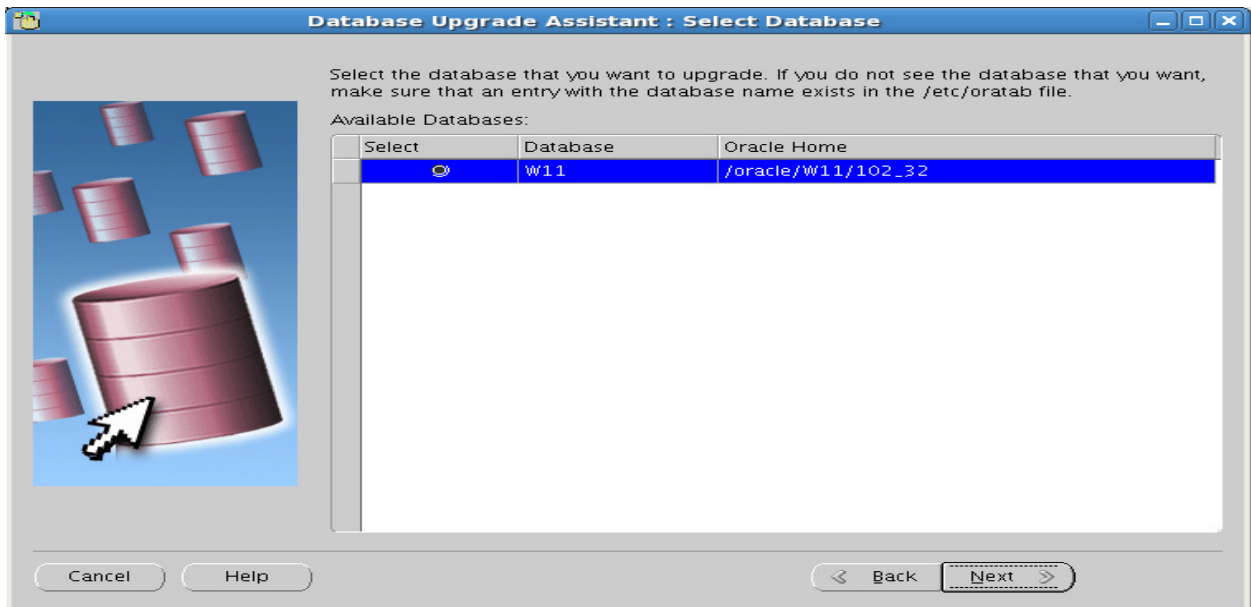
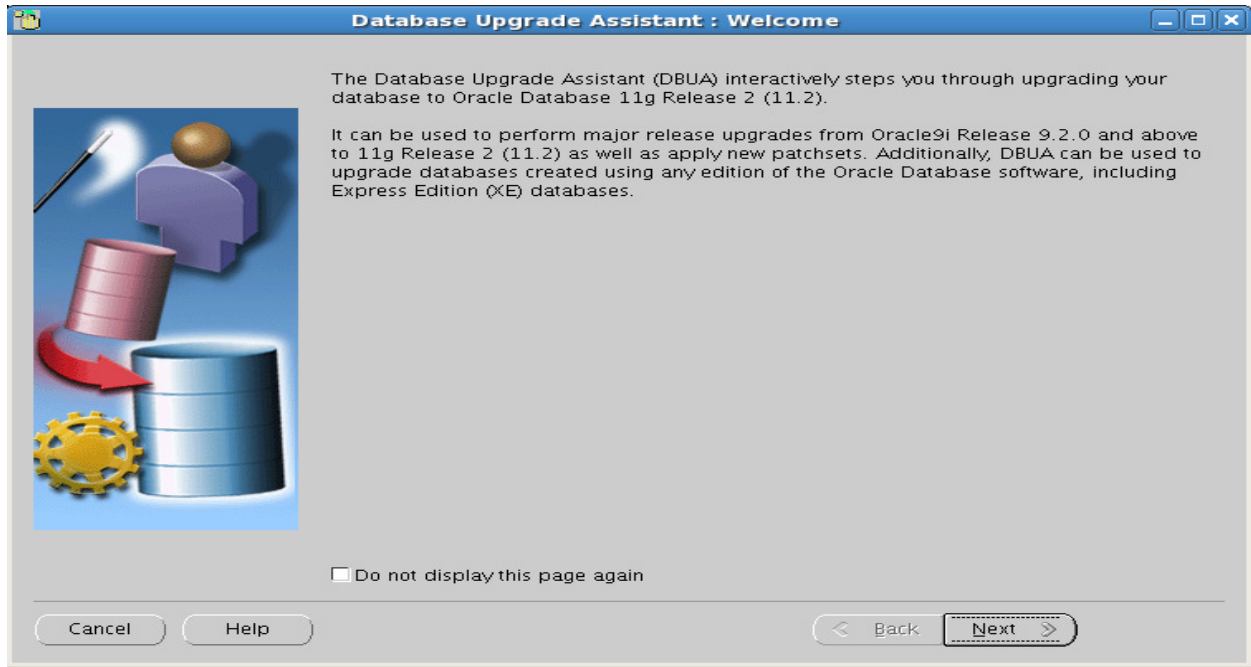
Run **dbua**

>./dbua

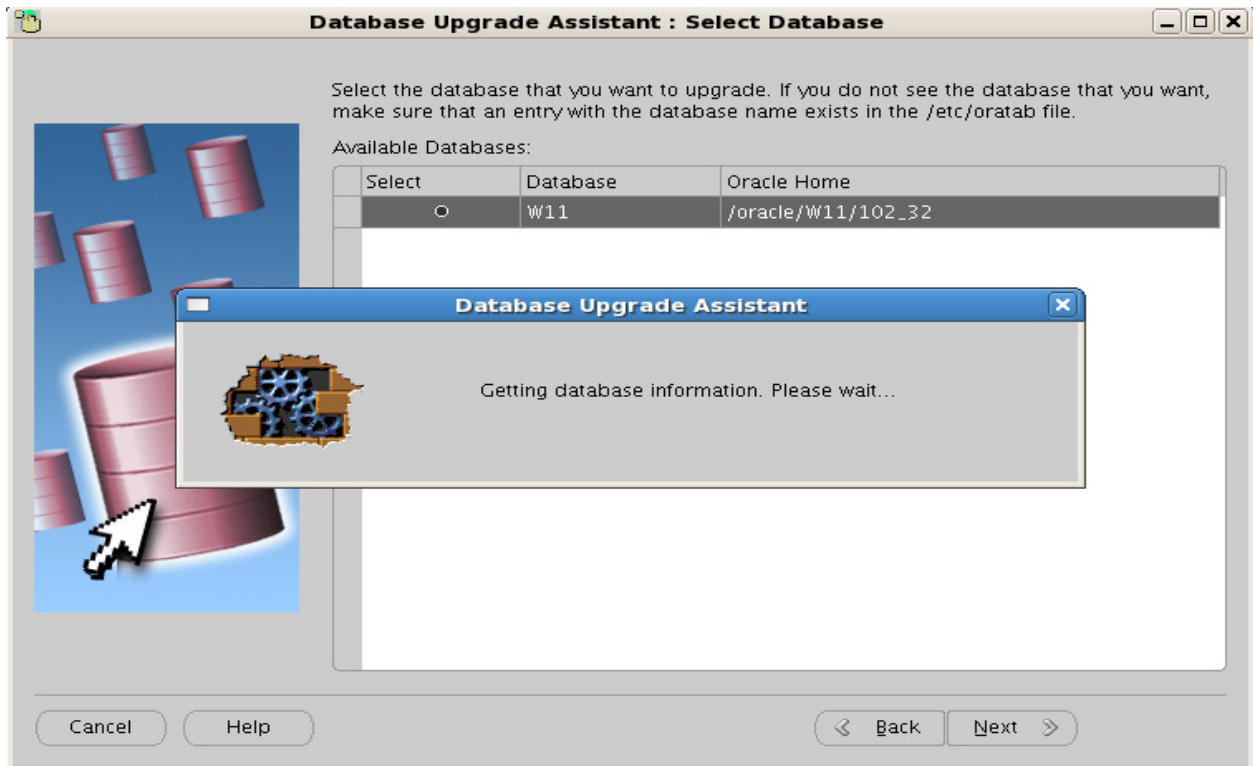
```
root@willsys7:~  
File Edit View Terminal Tabs Help  
willsys7:oraw11 63> pwd  
/oracle/W11/112_32/bin  
willsys7:oraw11 64> ./dbua
```



Click on **Next**

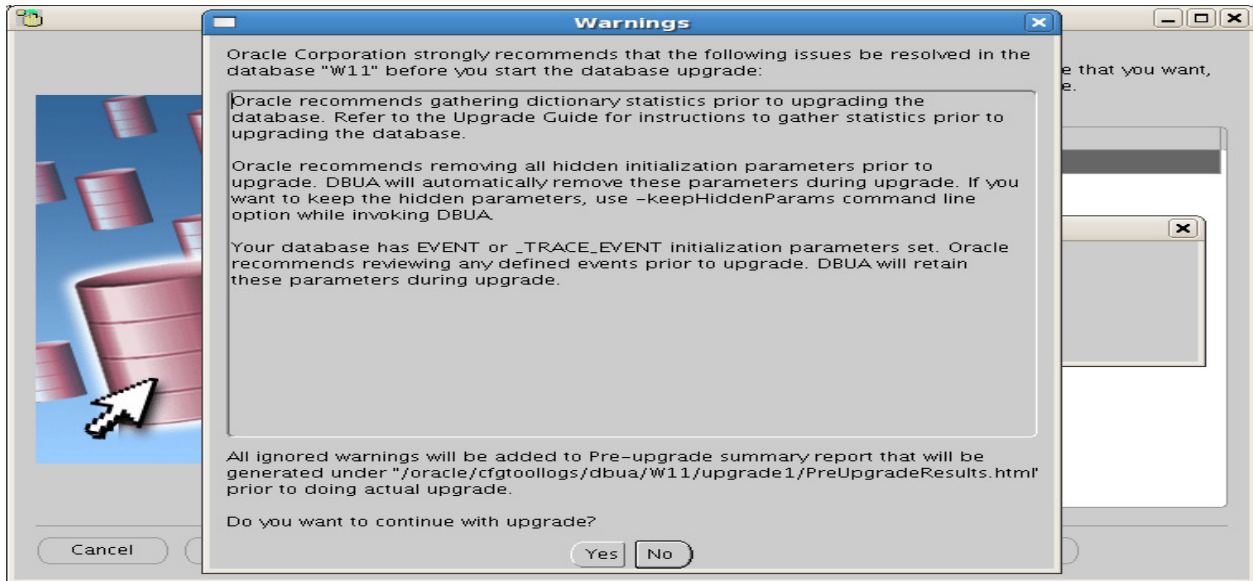


Click Next

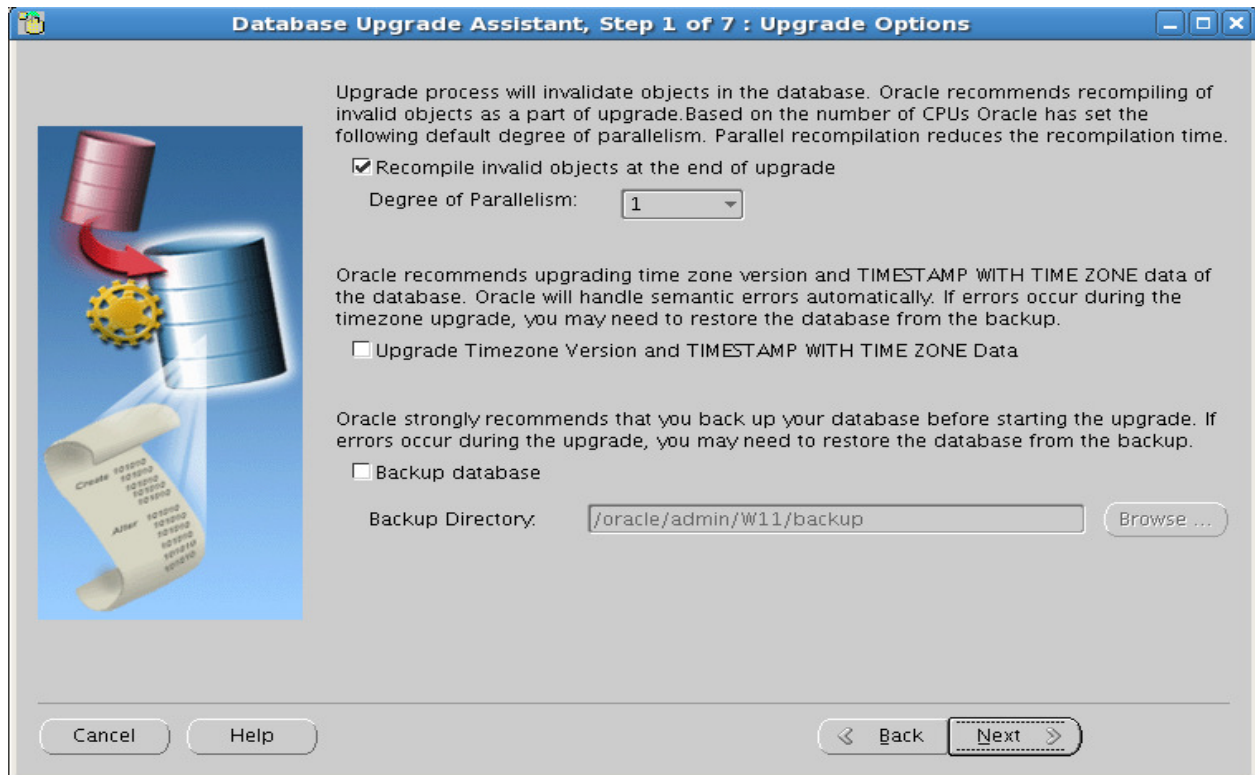


Click on **Yes**

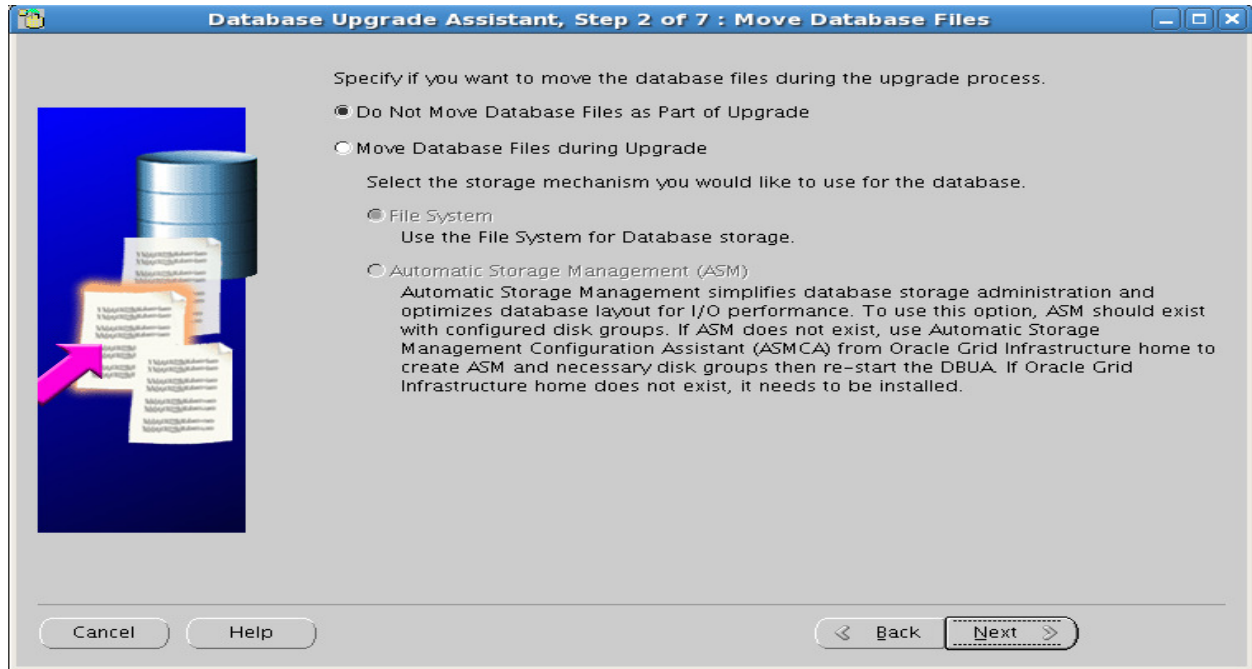




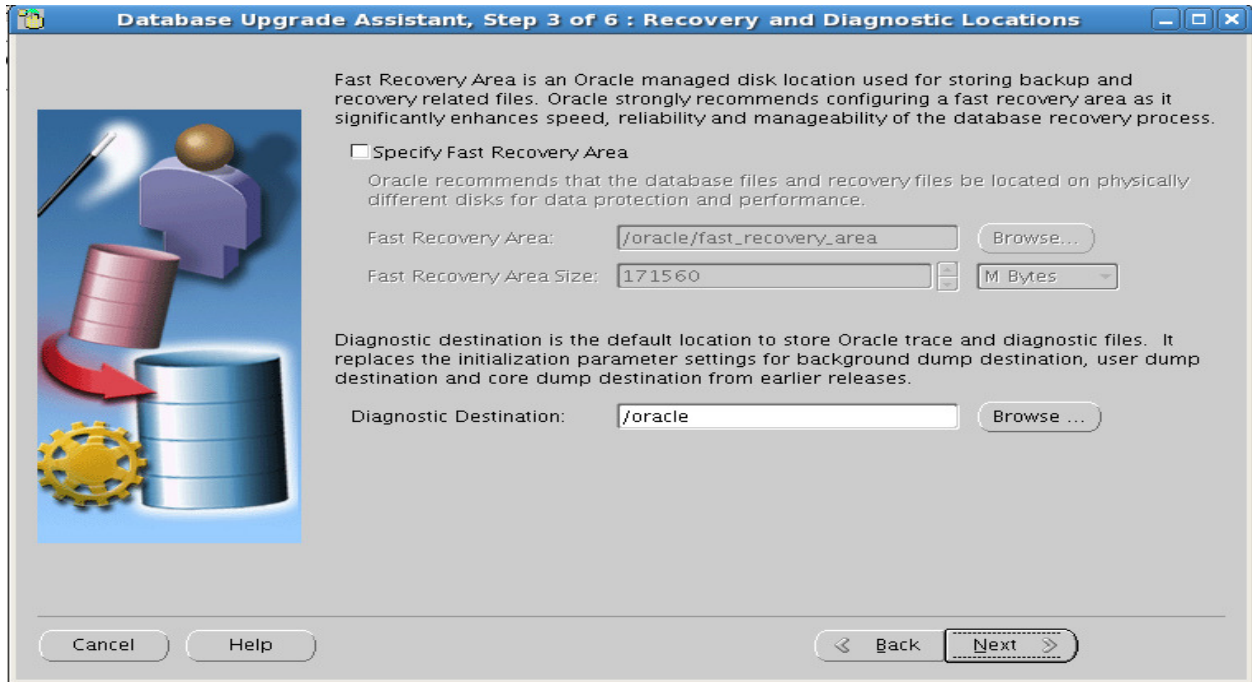
Click on **Next**



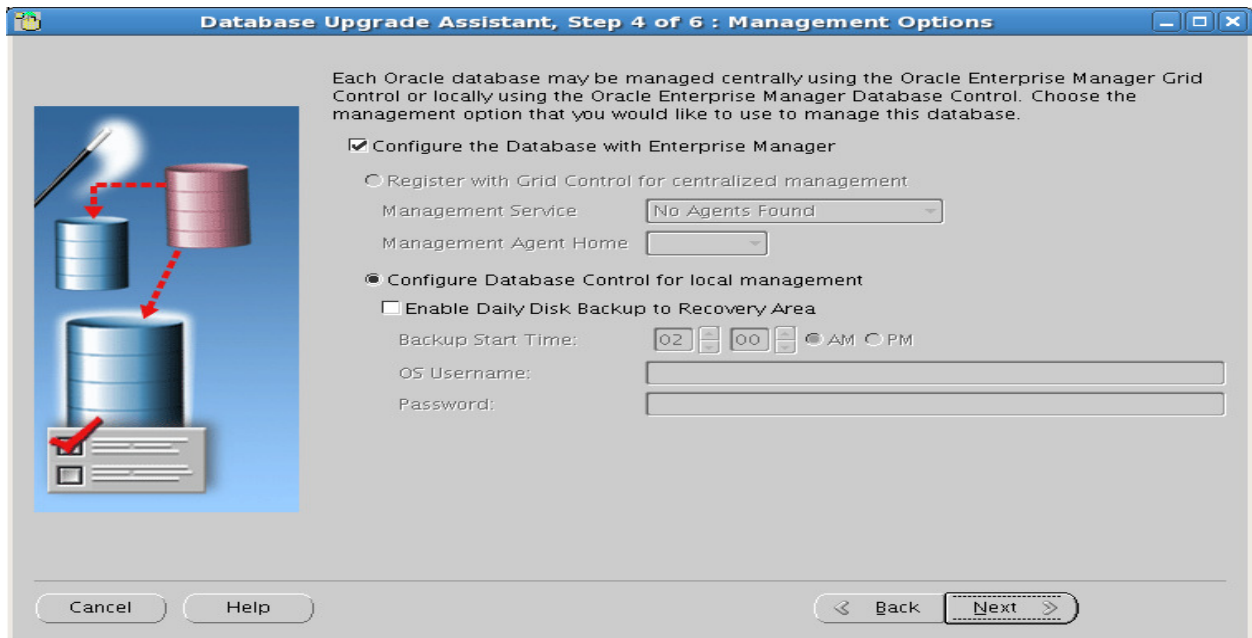
Click on **Next**



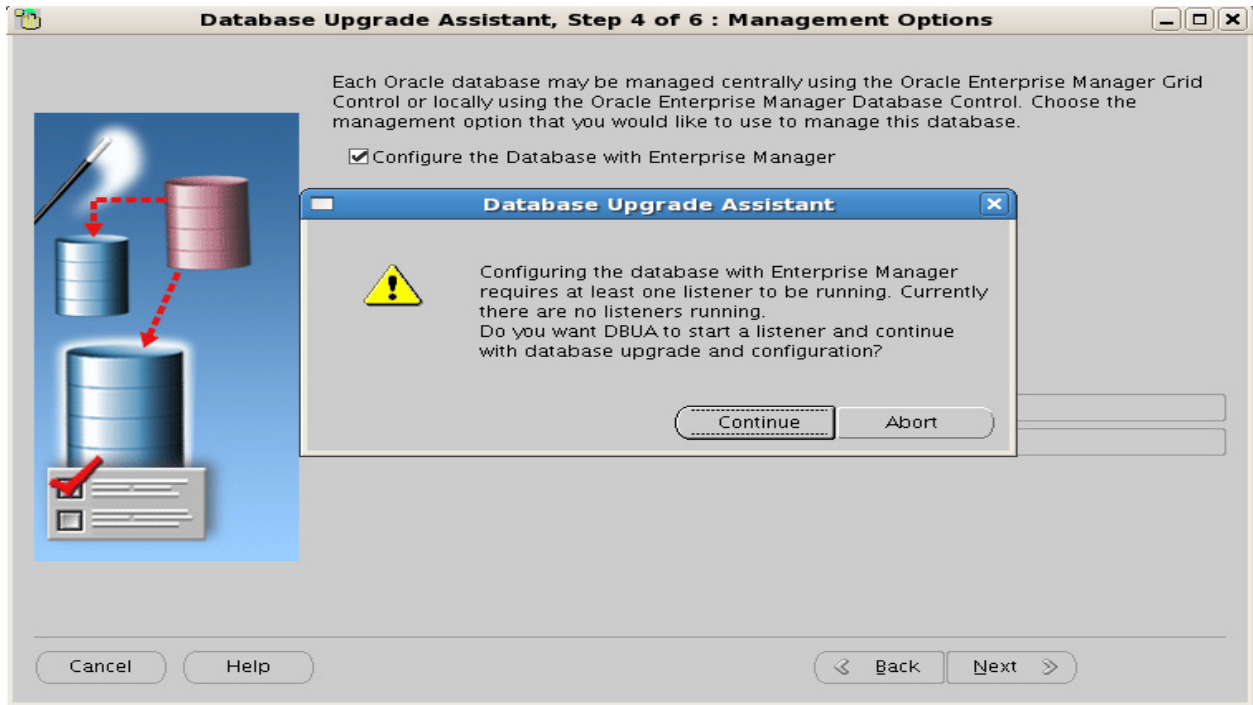
Click **Next**

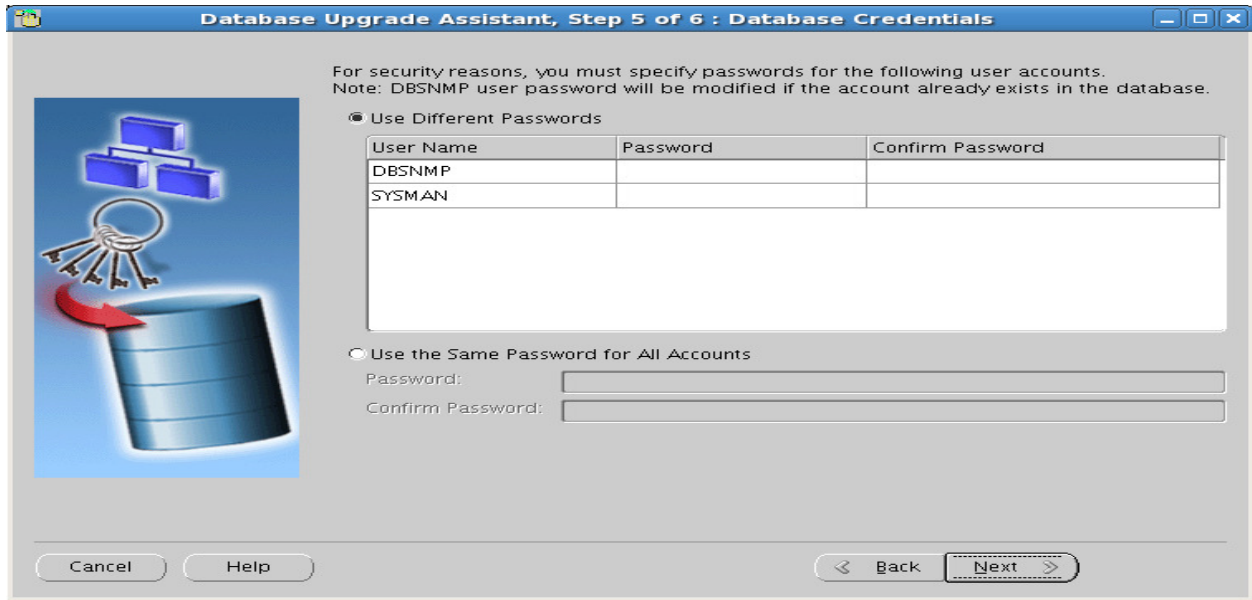


Click on **Next**

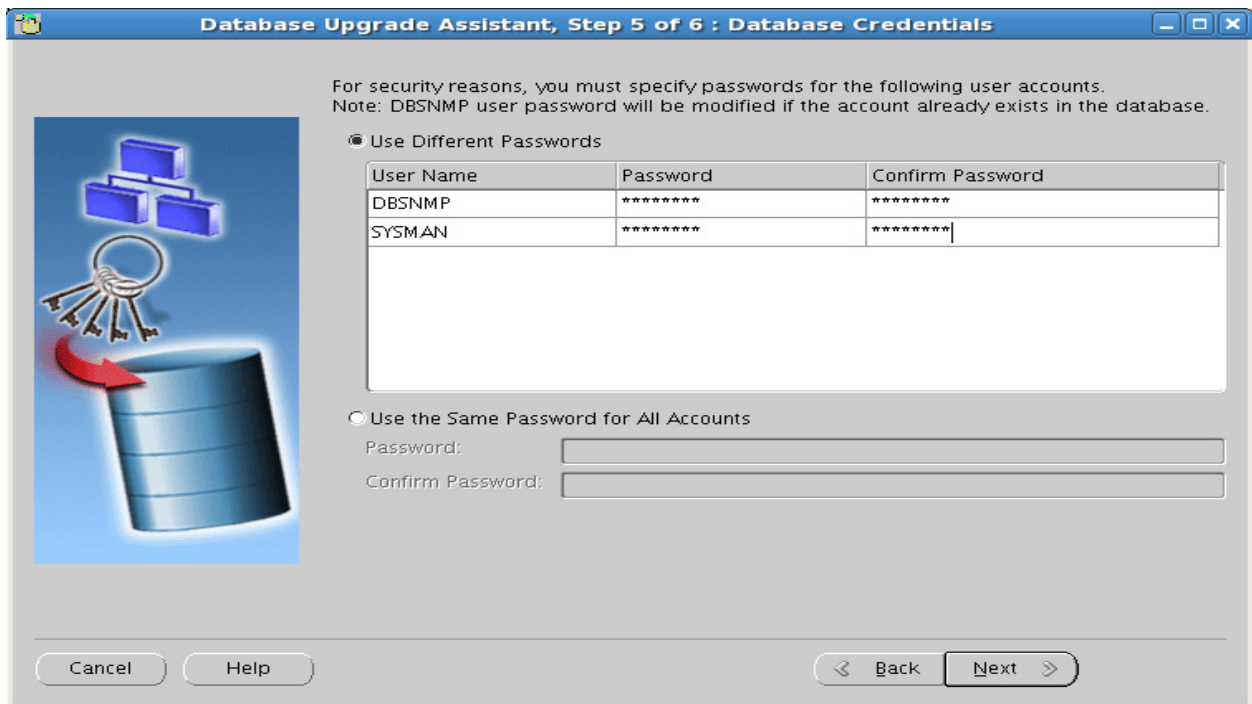


Click on **Continue**

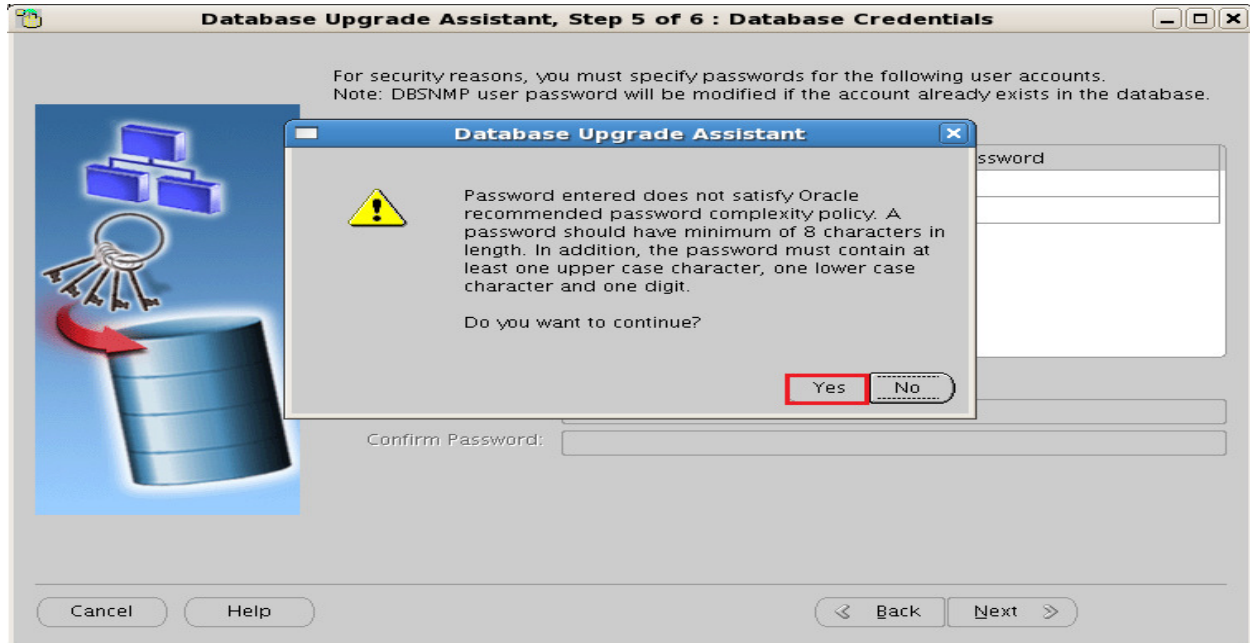




Provide the passwords

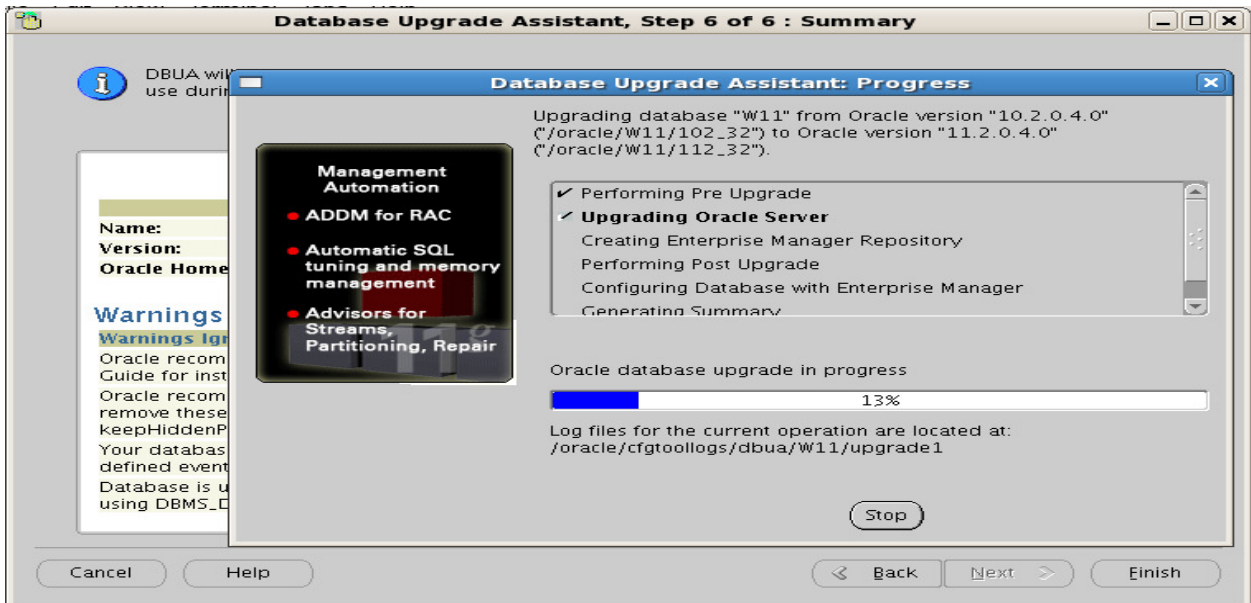
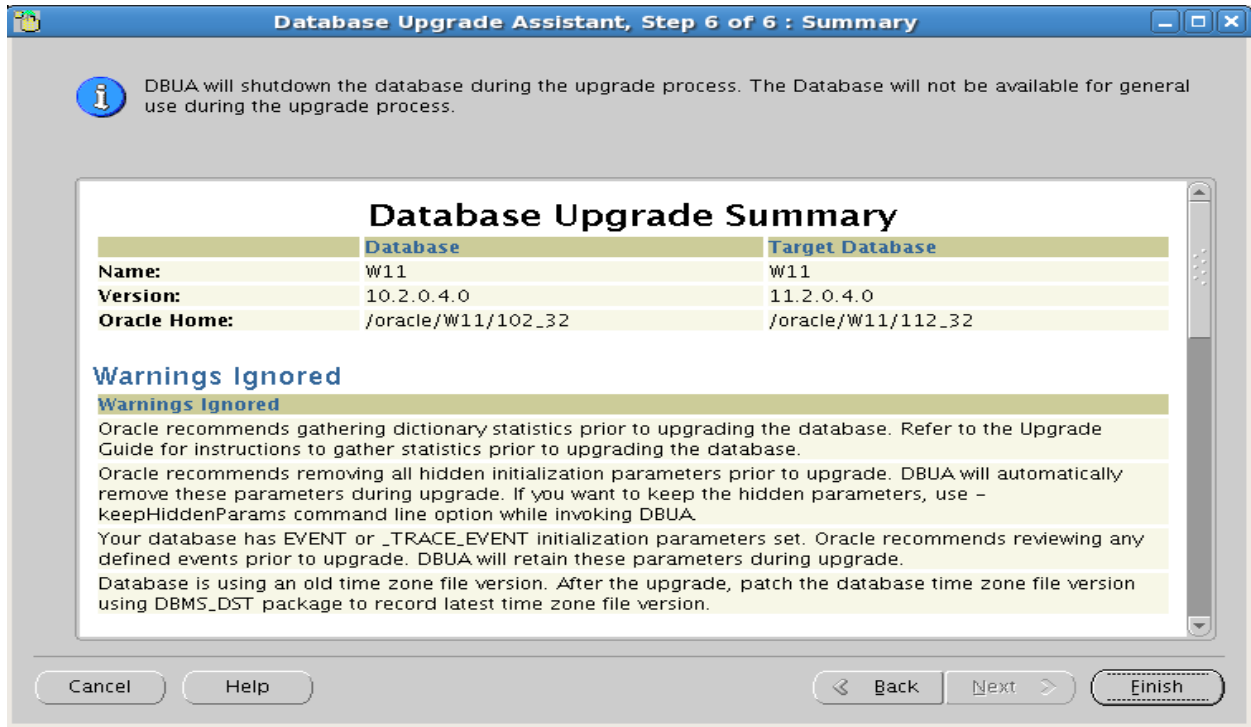


Click on **Yes**

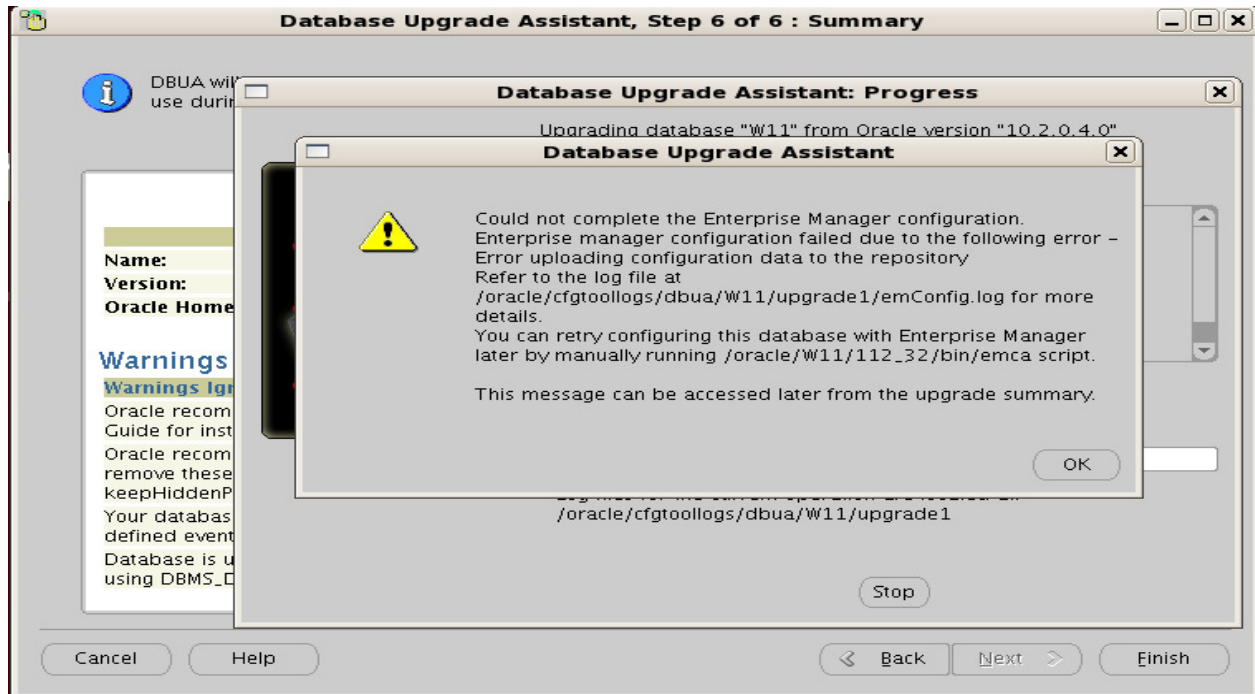


Click on **Finish**

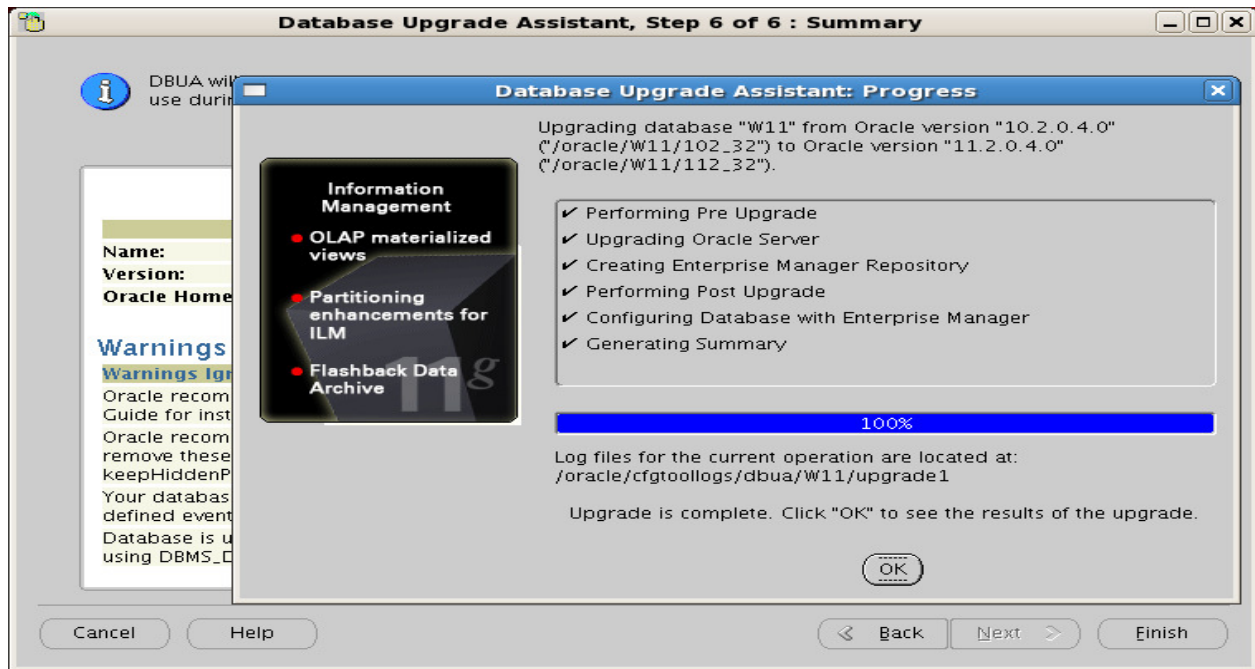




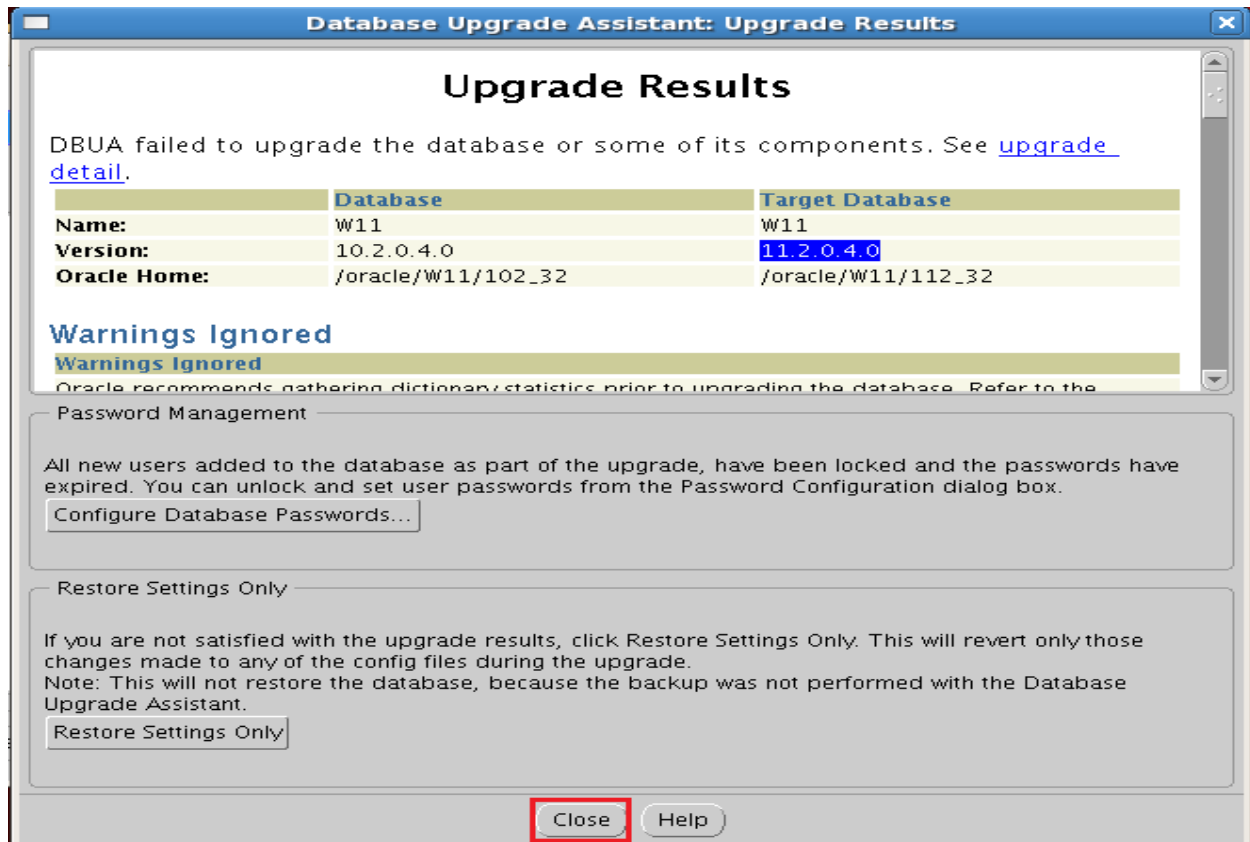
Click on **OK**



Click on **OK**



Click on **Close**



Go to `/oracle/SID` and run `.dbenv_hostname.csh` to change 102\_32 to 112\_32

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
[root@willsys7 ~]# su - oraw11  
willsys7:oraw11 50> pwd  
/oracle/W11  
willsys7:oraw11 51> ls -a  
. . .kde sapdata4  
.. .login .sapenv.csh  
102_32 .login.1 .sapenv.sh  
112_32 mirrlogA .sapenv_willsys7.csh  
llginstall_11204.log mirrlogB .sapenv_willsys7.sh  
llginstall_11204.log_old .mozilla sapreorg  
.bash_logout oraarch .sapsrc.csh  
.bash_profile origlogA .sapsrc.sh  
.bashrc origlogB .sapsrc_willsys7.csh  
.cshrc .profile .sapsrc_willsys7.sh  
.cshrc.1 .profile.1 saptrace  
.dbenv.csh saparch startdb  
.dbenv.sh sapbackup stopdb  
.dbenv_willsys7.csh sapcheck .viminfo  
.dbenv_willsys7.sh sapdata1 .zshrc  
.emacs sapdata2  
.history sapdata3  
willsys7:oraw11 52> 
```

>cd /oracle/SID

>vi .dbenv\_hostname.csh

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
[root@willsys7 ~]# su - oraw11  
willsys7:oraw11 50> pwd  
/oracle/W11  
willsys7:oraw11 51> ls -a  
. . .kde sapdata4  
.. .login .sapenv.csh  
102_32 .login.1 .sapenv.sh  
112_32 mirrlogA .sapenv_willsys7.csh  
llgininstall_11204.log mirrlogB .sapenv_willsys7.sh  
llgininstall_11204.log_old .mozilla sapreorg  
.bash_logout oraarch .sapsrc.csh  
.bash_profile origlogA .sapsrc.sh  
.bashrc origlogB .sapsrc_willsys7.csh  
.cshrc .profile .sapsrc_willsys7.sh  
.cshrc.1 .profile.1 saptrace  
.dbenv.csh saparch startdb  
.dbenv.sh sapbackup stopdb  
.dbenv_willsys7.csh sapcheck .viminfo  
.dbenv_willsys7.sh sapdata1 .zshrc  
.emacs sapdata2  
.history sapdata3  
willsys7:oraw11 52> vi .dbenv_willsys7.csh
```

Execute `:%s/102_32/112_32/g` to change 102\_32 to 112\_32

```
File Edit View Terminal Tabs Help
# @(#) $Id: //bc/700-1_REL/src/ins/SAPINST/impl/tpls/ora/ind/DBENV.CSH#7
$
# Oracle RDBMS Environment
setenv THREAD NOPS
if ( $THREAD == NOPS ) then
    set    DBSID = W11
else
    if ( $THREAD != "001" ) then
        set DBSID = W11_{$THREAD}
    else
        set DBSID = W11
    endif
endif
setenv dbms_type      ORA
setenv dbs_ora_tnsname $DBSID
setenv dbs_ora_schema SAPSR3
setenv ORACLE_SID    $DBSID
setenv DB_SID        W11
setenv ORACLE_BASE   /oracle
# check for running user and set for orasid ORA_NLS10
set USER = `id | awk -F\ ( '{print $2}' | awk -F\ ) '{print $1}`
set TRUL = `tr "ABCDEFGHJKLMNOPQRSTUVWXYZ" "abcdefghijklmnopqrstuvwxyZ"`
set ORASID = "ora`echo $DB_SID | $TRUL`"
if ( $USER != $ORASID ) then
    setenv TNS_ADMIN      /usr/sap/W11/SYS/profile/oracle
    set ADD=/oracle/client/10x_32/instantclient
:%s/102_32/112_32/g
```

And then save

```
File Edit View Terminal Tabs Help
setenv dbms_type ORA
setenv db_sora_tnsname $DBSID
setenv db_sora_schema SAPSR3
setenv ORACLE_SID $DBSID
setenv DB_SID W11
setenv ORACLE_BASE /oracle
# check for running user and set for orasid ORA_NLS10
set USER = `id | awk -F\ ( '{print $2}' | awk -F\ ) '{print $1}'`
set TRUL = `tr "ABCDEFGHIJKLMNOPQRSTUVWXYZ" "abcdefghijklmnopqrstuvwxyz"`
set ORASID = "ora`echo $DB_SID | $TRUL`"
if ( $USER != $ORASID ) then
  setenv TNS_ADMIN /usr/sap/W11/SYS/profile/oracle
  set ADD=/oracle/client/10x_32/instantclient
  set _t=/oracle/W11/112_32/bin/sqlplus
  set _f=/sapmnt/W11/profile/DEFAULT.PFL
  set SAPDBHOST=""
  if ( -r "$_f" ) then
    set SAPDBHOST=`awk -F= '/^[ ]*SAPDBHOST[ ]*=/ {print $2; exit}' $_f | awk '{print $1}'`
  endif
  if ( -r "$_t" || `uname -n` == "$SAPDBHOST" ) then
    setenv ORACLE_HOME /oracle/W11/112_32
  endif
else
  setenv ORACLE_HOME /oracle/W11/112_32
  set ADD=/oracle/W11/112_32/lib
:wq!
```



```
File Edit View Terminal Tabs Help
willsys7:oraw11 58> cd /oracle/W11/112_32/lib/
willsys7:oraw11 59> ls
acfslib.pm                               libnmefud.so
acfsroot.pl                              libnmefud.so.0
acfstoolsdriver.sh                       libnmefut.so
activation.jar                            libnmefut.so.0
asmcmdambr.pm                             libnmefvr.so
asmcmdattr.pm                             libnmefvr.so.0
asmcmdbase.pm                             libnmefw.so
asmcmd_disk_header_format                libnmefw.so.0
asmcmddisk.pm                             libnmemso.so
asmcmdglobal.pm                          libnmemso.so.0
asmcmdshare.pm                            libnmeoci.so
asmcmdsys.pm                              libnmeoci.so.0
asmcmdtmpl.pm                             libnmevc.so
asmcmdug.pm                               libnmevc.so.0
asmcmdvol.pm                              libnmevq.so
asmcommand.xml                            libnmevq.so.0
classgen.jar                              libnmevsp.so
clntsh.map                                libnmevsp.so.0
clusters.reg                              libnnet11.a
credentials.reg                           libnnetd11.a
facility.lis                               libnnz11.a
fetchlets.reg                             libnnz11.so
http_client.jar                           libnoname11.a
java                                       libnquell.so
jcr-1.0.jar                               libnroll.a
```

Execute `ln -s libnnz11.so libnnz10.so` to create symbolic link

```
root@willsys7:~
File Edit View Terminal Tabs Help
willsys7:oraw11 61> ln -s libnnz11.so libnnz10.so
```

```
File Edit View Terminal Tabs Help
willsys7:oraw11 61> ln -s libnnz11.so libnnz10.so
willsys7:oraw11 62> ll
total 595944
-rw-r--r-- 1 oraw11 dba      69866 Jul 11 2013 acfslib.pm
-rw-r--r-- 1 oraw11 dba      35783 Jul 11 2013 acfsroot.pl
-rwxr-xr-x 1 oraw11 dba       4131 Jul 11 2013 acfstoolsdriver.sh
-rw-r--r-- 1 oraw11 dba     45386 Oct 23 2001 activation.jar
-rw-r--r-- 1 oraw11 dba     53393 Mar 11 2013 asmcmdambr.pm
-rw-r--r-- 1 oraw11 dba     16682 Feb 11 2011 asmcmdatr.pm
-rw-r--r-- 1 oraw11 dba    159153 Aug  7 2012 asmcmdbase.pm
-rw-r--r-- 1 oraw11 dba       7370 Jan 17 2007 asmcmd_disk_header_format
-rw-r--r-- 1 oraw11 dba    118515 May  7 2012 asmcddisk.pm
-rw-r--r-- 1 oraw11 dba     18826 Jun 28 2012 asmcmdglobal.pm
-rw-r--r-- 1 oraw11 dba    111478 Jan 12 2012 asmcmdshare.pm
-rw-r--r-- 1 oraw11 dba     61424 Jun 13 2013 asmcmdsys.pm
-rw-r--r-- 1 oraw11 dba     25918 Feb 11 2011 asmcmdtpl.pm
-rw-r--r-- 1 oraw11 dba     51802 Jan 12 2012 asmcmdug.pm
-rw-r--r-- 1 oraw11 dba     51359 Apr 20 2011 asmcmdvol.pm
-rw-r--r-- 1 oraw11 dba    120991 Jun 30 2013 asmcommand.xml
-rw-r--r-- 1 oraw11 dba     36659 Jul  3 2013 classgen.jar
-rw-r--r-- 1 oraw11 dba   3851848 Feb 16 22:10 clntsh.map
-rw-r--r-- 1 oraw11 dba        103 Oct 17 2005 clusters.reg
-rw-r--r-- 1 oraw11 dba         142 Oct 17 2005 credentials.reg
-rw-r--r-- 1 oraw11 dba     3780 May 15 2013 facility.lis
-rw-r--r-- 1 oraw11 dba     2702 Sep 19 2006 fetchlets.reg
-rw-r--r-- 1 oraw11 dba    233316 Feb  9 2009 http_client.jar
drwxr-xr-x 3 oraw11 dba      4096 Feb 16 22:00 java
```

```
File Edit View Terminal Tabs Help
-rwxr-xr-x 1 oraw11 dba 3413680 Feb 16 22:10 libnmemso.so
-rw-r--r-- 1 oraw11 dba 0 Aug 25 2013 libnmemso.so.0
-rwxr-xr-x 1 oraw11 dba 75734 Feb 16 22:10 libnmeoci.so
-rw-r--r-- 1 oraw11 dba 0 Aug 25 2013 libnmeoci.so.0
-rwxr-xr-x 1 oraw11 dba 250406 Feb 16 22:10 libnmevc.so
-rw-r--r-- 1 oraw11 dba 0 Aug 25 2013 libnmevc.so.0
-rwxr-xr-x 1 oraw11 dba 170116 Feb 16 22:10 libnmevq.so
-rw-r--r-- 1 oraw11 dba 0 Aug 25 2013 libnmevq.so.0
-rwxr-xr-x 1 oraw11 dba 41243 Feb 16 22:10 libnmevsp.so
-rw-r--r-- 1 oraw11 dba 0 Aug 25 2013 libnmevsp.so.0
-rw-r--r-- 1 oraw11 dba 16622 Aug 25 2013 libnnet11.a
-rw-r--r-- 1 oraw11 dba 16622 Aug 25 2013 libnnetd11.a
lrwxrwxrwx 1 oraw11 dba 11 Feb 17 12:55 libnzn10.so -> libnzn11.so
-rw-r--r-- 1 oraw11 dba 9161278 Jul 12 2013 libnzn11.a
-rw-r--r-- 1 oraw11 dba 7098468 Jul 12 2013 libnzn11.so
-rw-r--r-- 1 oraw11 dba 8018 Jul 17 2013 libnoname11.a
-rw-r--r-- 1 oraw11 dba 55263 Jul 17 2013 libnque11.so
-rw-r--r-- 1 oraw11 dba 710110 Jul 17 2013 libnroll1.a
-rw-r--r-- 1 oraw11 dba 166866 Jul 17 2013 libnsgr11.a
-rw-r--r-- 1 oraw11 dba 2538 Jul 17 2013 libnssl11.a
-rw-r--r-- 1 oraw11 dba 227448 Jul 17 2013 libntcp11.a
-rw-r--r-- 1 oraw11 dba 9399 Jul 17 2013 libntcpai011.so
-rw-r--r-- 1 oraw11 dba 251426 Jul 17 2013 libntcps11.a
-rw-r--r-- 1 oraw11 dba 6096 Jul 17 2013 libntcps11_std.a.dbl
-rw-r--r-- 1 oraw11 dba 34506 Jul 17 2013 libtns11.a
-rw-r--r-- 1 oraw11 dba 122898 Jul 17 2013 libnus11.a
-rw-r--r-- 1 oraw11 dba 4702 Jul 17 2013 libnzjs11.a
```

After that open the new terminal and then start the listener

```
root@willsys7:~
File Edit View Terminal Tabs Help
[root@willsys7 ~]# su - oraw11
willsys7:oraw11 51> lsnrctl start

LSNRCTL for Linux: Version 11.2.0.4.0 - Production on 17-FEB-2015 12:57:36

Copyright (c) 1991, 2013, Oracle. All rights reserved.

TNS-01106: Listener using listener name LISTENER has already been started
willsys7:oraw11 52> 
```

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
[root@willsys7 ~]# su - oraw11  
willsys7:oraw11 51> lsnrctl start  
  
LSNRCTL for Linux: Version 11.2.0.4.0 - Production on 17-FEB-2015 12:57:36  
Copyright (c) 1991, 2013, Oracle. All rights reserved.  
  
TNS-01106: Listener using listener name LISTENER has already been started  
willsys7:oraw11 52> █
```

And then login in to the sql check the version

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
willsys7:oraw11 54> sqlplus / as sysdba  
  
SQL*Plus: Release 11.2.0.4.0 Production on Tue Feb 17 12:58:27 2015  
Copyright (c) 1982, 2013, Oracle. All rights reserved.  
  
Connected to:  
Oracle Database 11g Enterprise Edition Release 11.2.0.4.0 - Production  
With the Partitioning, OLAP, Data Mining and Real Application Testing options  
SQL> █
```

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
willsys7:oraw11 54> sqlplus / as sysdba  
  
SQL*Plus: Release 11.2.0.4.0 Production on Tue Feb 17 12:58:27 2015  
  
Copyright (c) 1982, 2013, Oracle. All rights reserved.  
  
Connected to:  
Oracle Database 11g Enterprise Edition Release 11.2.0.4.0 - Production  
With the Partitioning, OLAP, Data Mining and Real Application Testing options  
  
SQL> select * from v$version;  
  
BANNER  
-----  
Oracle Database 11g Enterprise Edition Release 11.2.0.4.0 - Production  
PL/SQL Release 11.2.0.4.0 - Production  
CORE 11.2.0.4.0 Production  
TNS for Linux: Version 11.2.0.4.0 - Production  
NLSRTL Version 11.2.0.4.0 - Production  
  
SQL> □
```

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
  
SQL> select version from v$instance;  
  
VERSION  
-----  
11.2.0.4.0  
  
SQL> □
```

After that go to the path `/oracle/SID/112_32/dbs/` edit the file `initSID.ora`

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
willsys7:oraw11 56> cd /oracle/W11/112_32/dbs/  
willsys7:oraw11 57> ll  
total 48  
-rw-rw---- 1 oraw11 dba 1544 Feb 16 22:42 hc_W11.dat  
-rw-r--r-- 1 oraw11 dba 2851 May 15 2009 init.ora  
-rw-r----- 1 oraw11 dba 1047 Feb 16 22:42 initW11.ora  
-rw-r----- 1 oraw11 dba 24 Feb 16 22:42 lkW11  
-rw-r----- 1 oraw11 dba 2048 Feb 16 23:20 orapwW11  
-rw-r----- 1 oraw11 dba 3584 Feb 16 23:14 spfileW11.ora  
willsys7:oraw11 58> vi initW11.ora
```

At last add 2 lines `OS_authent_prefix = OPS$` and `remote_os_authent = true`

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
open_cursors=800  
optimizer_features_enable=10.2.0.1  
pga_aggregate_target=356348067  
processes=100  
recyclebin=off  
remote_login_passwordfile=EXCLUSIVE  
sessions=96  
sga_max_size=566231040  
shared_pool_reserved_size=26726105  
shared_pool_size=268435456  
sort_area_retained_size=0  
sort_area_size=2097152  
statistics_level=typical  
undo_management=AUTO  
undo_retention=43200  
undo_tablespace=PSAPUNDO  
workarea_size_policy=AUTO  
event="10191 trace name context forever, level 1"  
audit_file_dest=/oracle/admin/W11/adump  
diagnostic_dest=/oracle  
local_listener=LISTENER_W11  
OS_authent_prefix = OPS$  
remote_os_authent = true  
-- INSERT --
```

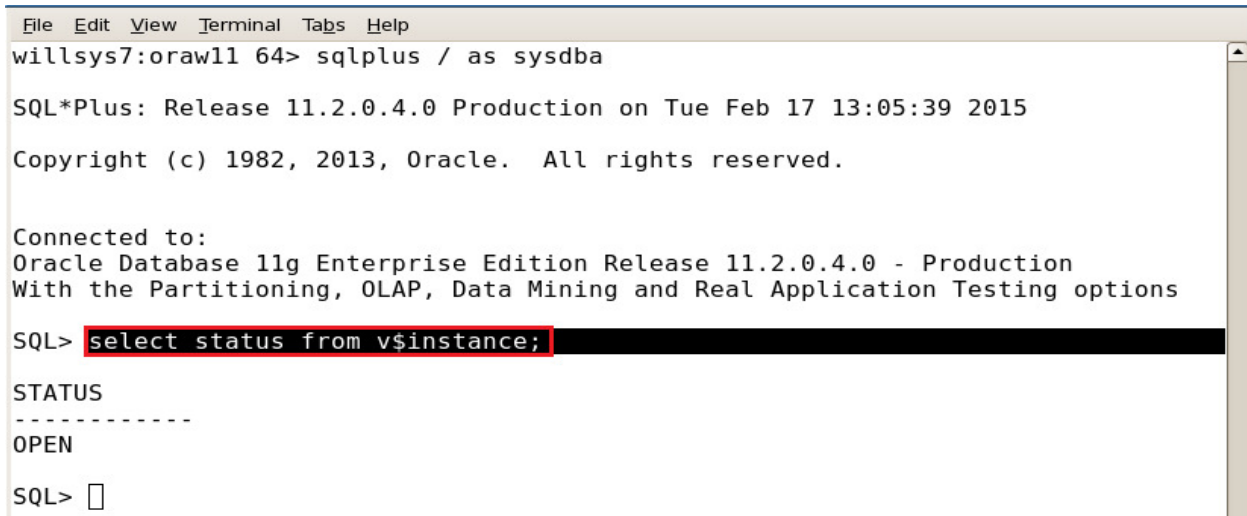
```
root@willsys7:~  
File Edit View Terminal Tabs Help  
willsys7:oraw11 60> ll  
total 48  
-rw-rw---- 1 oraw11 dba 1544 Feb 16 22:42 hc_W11.dat  
-rw-r--r-- 1 oraw11 dba 2851 May 15 2009 init.ora  
-rw-r----- 1 oraw11 dba 1097 Feb 17 13:04 initW11.ora  
-rw-r----- 1 oraw11 dba 24 Feb 16 22:42 lkW11  
-rw-r----- 1 oraw11 dba 2048 Feb 16 23:20 orapwW11  
-rw-r----- 1 oraw11 dba 3584 Feb 16 23:14 spfileW11.ora  
willsys7:oraw11 61> mv spfileW11.ora spfileW11.ora old  
willsys7:oraw11 62> █
```

Move **spfileSID.ora** to **spfileSID.ora\_old** by using the command **mv spfileSID.ora spfileSID.ora\_old**

> **mv spfileSID.ora spfileSID.ora\_old**

```
willsys7:oraw11 61> mv spfileW11.ora spfileW11.ora_old
willsys7:oraw11 62> ll
total 48
-rw-rw---- 1 oraw11 dba 1544 Feb 16 22:42 hc_W11.dat
-rw-r--r-- 1 oraw11 dba 2851 May 15 2009 init.ora
-rw-r----- 1 oraw11 dba 1097 Feb 17 13:04 initW11.ora
-rw-r----- 1 oraw11 dba 24 Feb 16 22:42 lkW11
-rw-r----- 1 oraw11 dba 2048 Feb 16 23:20 orapwW11
-rw-r----- 1 oraw11 dba 3584 Feb 16 23:14 spfileW11.ora old
willsys7:oraw11 63> □
```

Select the status of database by logging in to the SQL



```
File Edit View Terminal Tabs Help
willsys7:oraw11 64> sqlplus / as sysdba

SQL*Plus: Release 11.2.0.4.0 Production on Tue Feb 17 13:05:39 2015

Copyright (c) 1982, 2013, Oracle. All rights reserved.

Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.4.0 - Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options

SQL> select status from v$instance;

STATUS
-----
OPEN

SQL> □
```

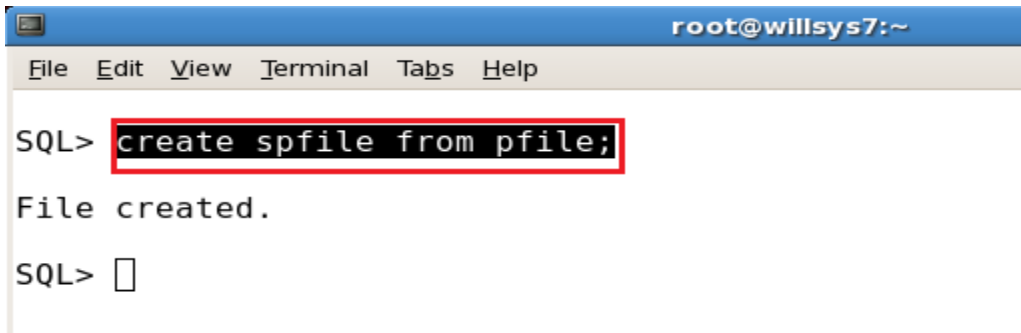
Shut down the database by using the command **shut immediate**



```
SQL> shut immediate;  
Database closed.  
Database dismounted.  
ORACLE instance shut down.  
SQL> □
```

After shut down the database create spfile by using the command

**SQL>create spfile from pfile**



```
root@willsys7:~  
File Edit View Terminal Tabs Help  
SQL> create spfile from pfile;  
File created.  
SQL> □
```

```
willsys7:oraw11 65> pwd  
/oracle/W11/112_32/dbs  
willsys7:oraw11 66> ll  
total 56  
-rw-rw---- 1 oraw11 dba 1544 Feb 16 22:42 hc_W11.dat  
-rw-r--r-- 1 oraw11 dba 2851 May 15 2009 init.ora  
-rw-r----- 1 oraw11 dba 1097 Feb 17 13:04 initW11.ora  
-rw-r----- 1 oraw11 dba 24 Feb 16 22:42 lkW11  
-rw-r----- 1 oraw11 dba 2048 Feb 16 23:20 orapwW11  
-rw-r----- 1 oraw11 dba 3584 Feb 17 13:07 spfileW11.ora  
-rw-r----- 1 oraw11 dba 3584 Feb 16 23:14 spfileW11.ora_old  
willsys7:oraw11 67> □
```

After that start the data base by using the command **startup**

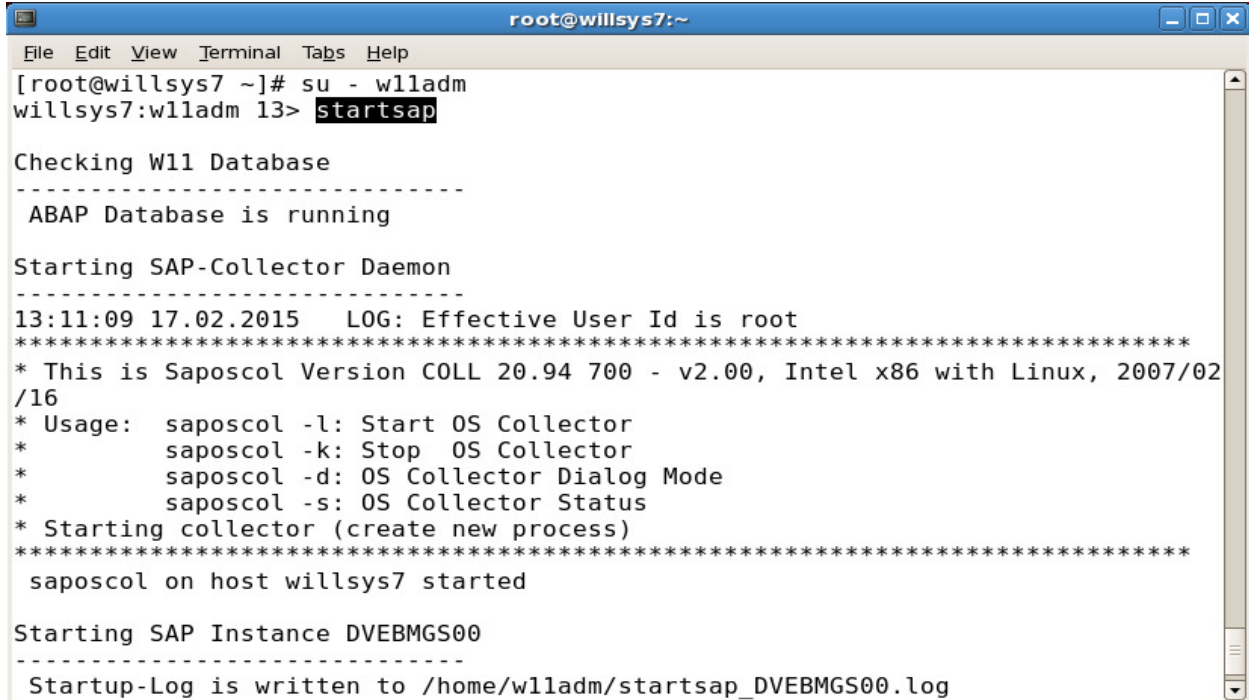
```
root@willsys7:~  
File Edit View Terminal Tabs Help  
willsys7:oraw11 69> sqlplus / as sysdba  
  
SQL*Plus: Release 11.2.0.4.0 Production on Tue Feb 17 13:08:38 2015  
Copyright (c) 1982, 2013, Oracle. All rights reserved.  
Connected to an idle instance.  
  
SQL> startup  
ORA-32004: obsolete or deprecated parameter(s) specified for RDBMS instance  
ORACLE instance started.  
  
Total System Global Area 564957184 bytes  
Fixed Size 1366024 bytes  
Variable Size 289409016 bytes  
Database Buffers 268435456 bytes  
Redo Buffers 5746688 bytes  
Database mounted.  
Database opened.  
SQL> █
```

Check the version by using the command

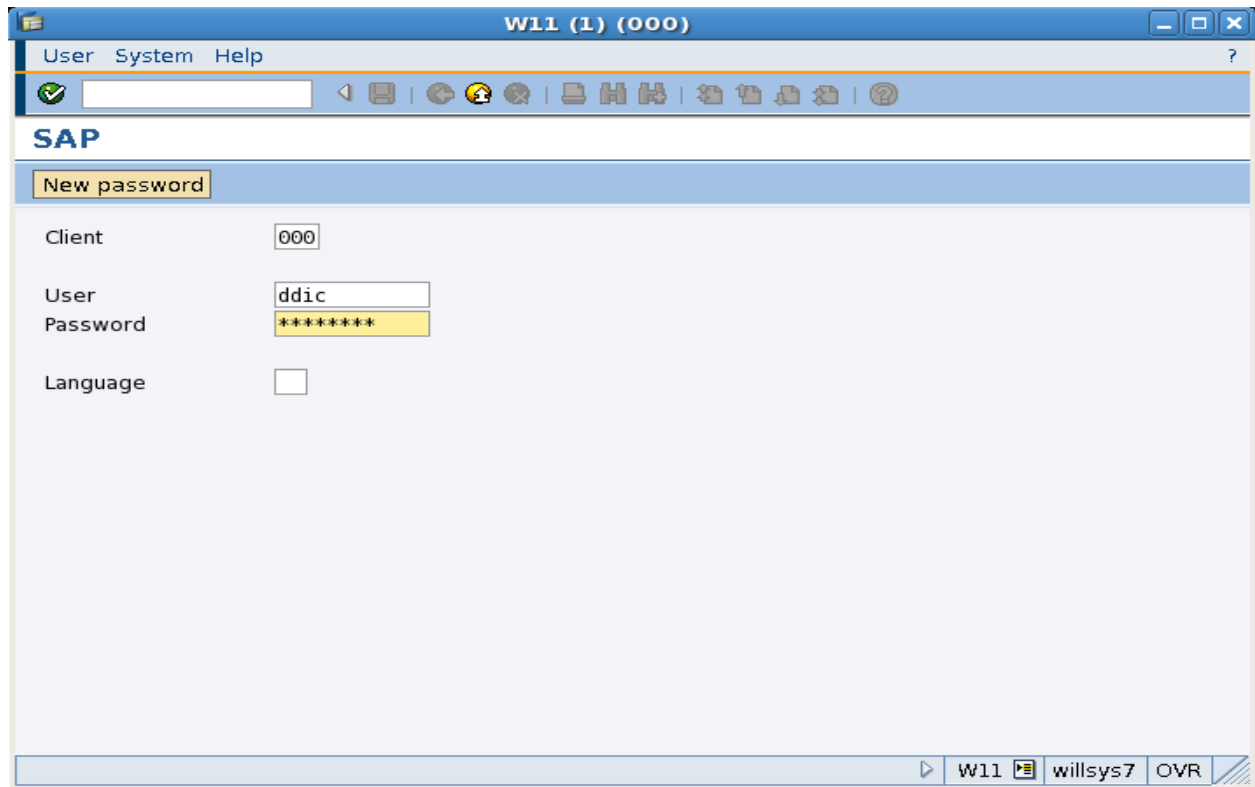
**SQL>select version from v\$instance;**

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
  
SQL> select version from v$instance;  
  
VERSION  
-----  
11.2.0.4.0  
  
SQL> select status from v$instance;  
  
STATUS  
-----  
OPEN  
  
SQL> █
```

After that start the sap

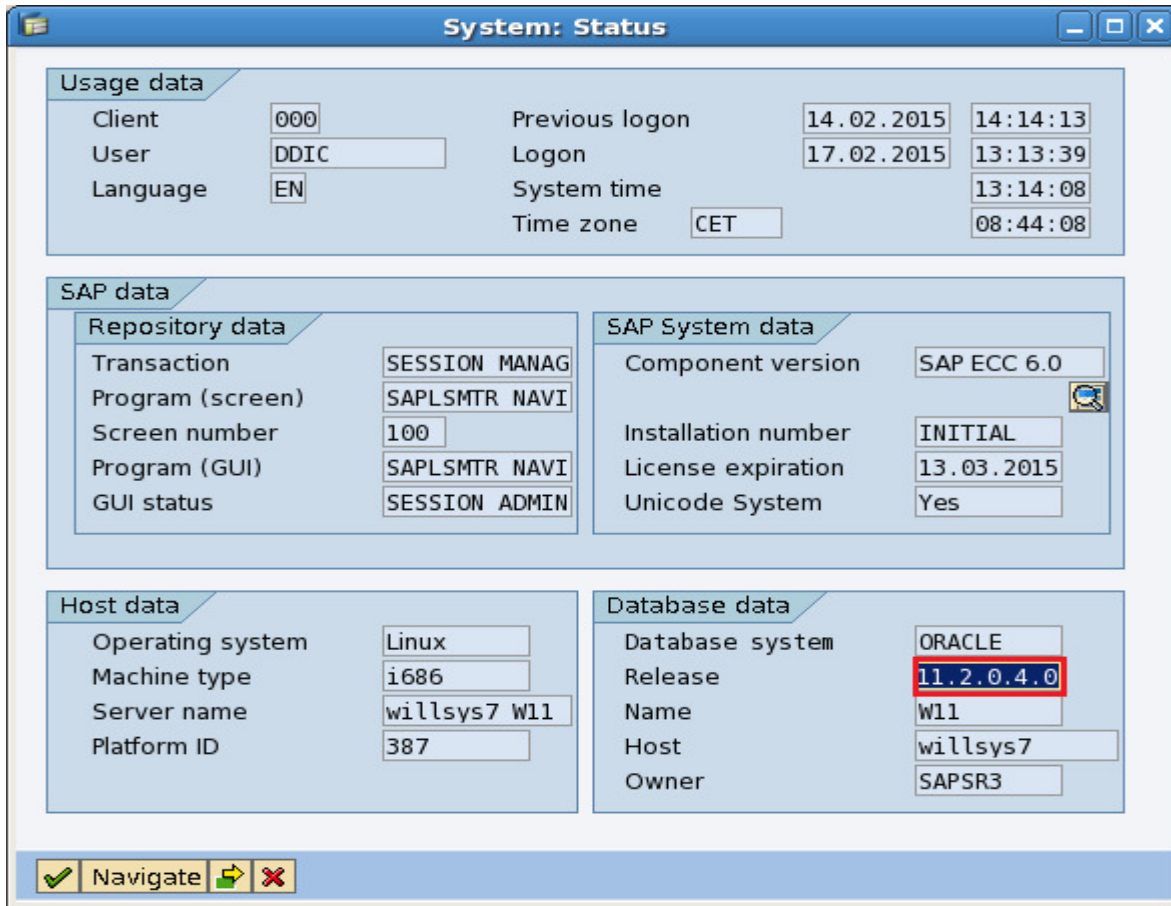


```
root@willsys7:~  
File Edit View Terminal Tabs Help  
[root@willsys7 ~]# su - wlladm  
willsys7:wlladm l3> startsap  
  
Checking W11 Database  
-----  
ABAP Database is running  
  
Starting SAP-Collector Daemon  
-----  
13:11:09 17.02.2015 LOG: Effective User Id is root  
*****  
* This is Saposcol Version COLL 20.94 700 - v2.00, Intel x86 with Linux, 2007/02  
/16  
* Usage: saposcol -l: Start OS Collector  
* saposcol -k: Stop OS Collector  
* saposcol -d: OS Collector Dialog Mode  
* saposcol -s: OS Collector Status  
* Starting collector (create new process)  
*****  
saposcol on host willsys7 started  
  
Starting SAP Instance DVEBMGS00  
-----  
Startup-Log is written to /home/wlladm/startsap_DVEBMGS00.log
```



We can also check the version by login in to the gui

Go to **system→status**



After upgrading brtools will not be work

```

root@willsys7:~
File Edit View Terminal Tabs Help
[root@willsys7 ~]# su - oraw11
willsys7:oraw11 51> brtools
BR0651I BRT0OLS 7.00 (24)
BR0252E Function fopen() failed for '/oracle/W11/112_32/dbs/initW11.sap' at loca
tion BrInitSapRead-1
BR0253E errno 2: No such file or directory
BR0159E Error reading BR*Tools profile /oracle/W11/112_32/dbs/initW11.sap

BR0280I BRT0OLS time stamp: 2015-02-17 13.15.50
BR0654I BRT0OLS terminated with errors
willsys7:oraw11 52>

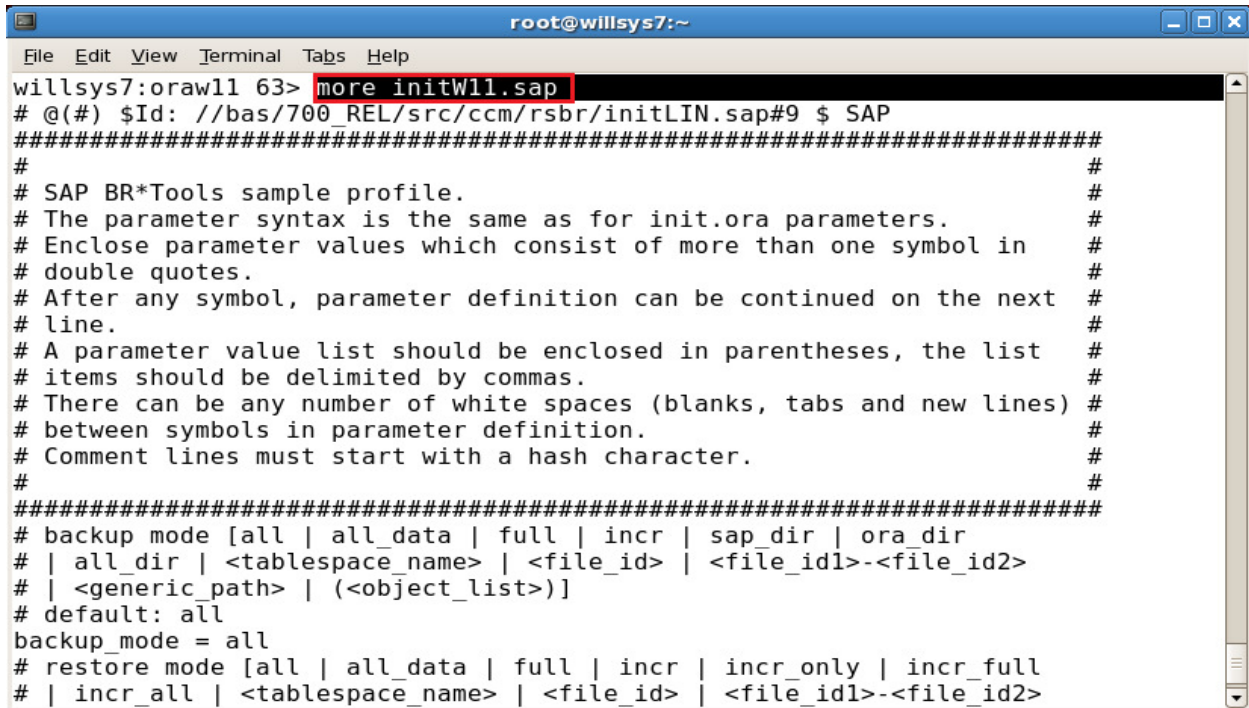
```

To work brtools go to `/oracle/SID/102_32/dbs` copy the `initSID.sap` and paste in to `/oracle/SID/112_32/dbs`

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
willsys7:oraw11 54> cd /oracle/W11/102_32/dbs/  
willsys7:oraw11 55> ll  
total 164  
-rw-rw---- 1 oraw11 dba      1544 Feb 14 15:06 hc_W11.dat  
-rw-r--r-- 1 oraw11 dba     12920 May  3  2001 initdw.ora  
-rw-r----- 1 oraw11 dba      8385 Sep 11  1998 init.ora  
-rw-r----- 1 root  sapinst  3829 Feb 13 15:13 initW11.1.ora  
-rw-r-x--- 1 root  sapinst  4290 Feb 13 15:13 initW11.2.ora  
-rw-r-xr-x 1 oraw11 dba     20102 Aug 28  2011 initW11.dba  
-rw-r-xr-x 1 oraw11 dba      4430 Feb 13 15:13 initW11.ora  
-rw-r-x--- 1 root  sapinst  4430 Feb 13 15:13 initW11.ora.SAPINST-ORIG  
-rw-r-xr-x 1 oraw11 dba     20674 Feb 13 15:43 initW11.sap  
-rw-r----- 1 oraw11 dba        24 Feb 13 15:14 lkW11  
-rw-r----- 1 oraw11 dba      2048 Feb 13 18:39 orapwW11  
-rw-r----- 1 oraw11 dba      3584 Feb 13 18:30 spfileW11.ora  
willsys7:oraw11 56> █
```

```
root@willsys7:~  
File Edit View Terminal Tabs Help  
willsys7:oraw11 57> pwd  
/oracle/W11/102_32/dbs  
willsys7:oraw11 58> cp -pr initW11.sap /oracle/W11/112_32/dbs/  
willsys7:oraw11 59> █
```

```
willsys7:oraw11 59> cd /oracle/W11/112_32/dbs/
willsys7:oraw11 60> ll
total 84
-rw-rw---- 1 oraw11 dba 1544 Feb 16 22:42 hc_W11.dat
-rw-r--r-- 1 oraw11 dba 2851 May 15 2009 init.ora
-rw-r----- 1 oraw11 dba 1097 Feb 17 13:04 initW11.ora
-rw-r-xr-x 1 oraw11 dba 20674 Feb 13 15:43 initW11.sap
-rw-r----- 1 oraw11 dba 24 Feb 16 22:42 lkW11
-rw-r----- 1 oraw11 dba 2048 Feb 16 23:20 orapwW11
-rw-r----- 1 oraw11 dba 3584 Feb 17 13:08 spfileW11.ora
-rw-r----- 1 oraw11 dba 3584 Feb 16 23:14 spfileW11.ora_old
willsys7:oraw11 61> █
```



```
root@willsys7:~
File Edit View Terminal Tabs Help
willsys7:oraw11 63> more initW11.sap
#@(#) $Id: //bas/700_REL/src/ccm/rsbr/initLIN.sap#9 $ SAP
#####
#
# SAP BR*Tools sample profile.
# The parameter syntax is the same as for init.ora parameters.
# Enclose parameter values which consist of more than one symbol in
# double quotes.
# After any symbol, parameter definition can be continued on the next
# line.
# A parameter value list should be enclosed in parentheses, the list
# items should be delimited by commas.
# There can be any number of white spaces (blanks, tabs and new lines)
# between symbols in parameter definition.
# Comment lines must start with a hash character.
#
#####
# backup mode [all | all_data | full | incr | sap_dir | ora_dir
# | all_dir | <tablespace_name> | <file_id> | <file_id1>-<file_id2>
# | <generic_path> | (<object_list>)]
# default: all
backup_mode = all
# restore mode [all | all_data | full | incr | incr_only | incr_full
# | incr_all | <tablespace_name> | <file_id> | <file_id1>-<file_id2>
```



```
root@willsys7:~  
File Edit View Terminal Tabs Help  
willsys7:oraw11 65> brtools  
BR0651I BRT0OLS 7.00 (24)  
  
BR0280I BRT0OLS time stamp: 2015-02-17 13.22.37  
BR0656I Choice menu 1 - please make a selection  
-----  
BR*Tools main menu  
  
1 = Instance management  
2 - Space management  
3 - Segment management  
4 - Backup and database copy  
5 - Restore and recovery  
6 - Check and verification  
7 - Database statistics  
8 - Additional functions  
9 - Exit program  
  
Standard keys: c - cont, b - back, s - stop, r - refr, h - help  
-----  
BR0662I Enter your choice:  

```



### Related Content:

<http://service.sap.com>

<http://support.sap.com>

[www.help.sap.com](http://www.help.sap.com)

[www.sdn.sap.com/irj/sdn/index](http://www.sdn.sap.com/irj/sdn/index).

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