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My System Overview

Local host/server name: linux1.com
Operating System Version: Red Hat Enterprise Linux ES release 4 (Nahant Update 6)
Operating system user name: aiauser
Group name: dba

Installation Directory: /d01/oracle/AIA/
Rdbms Oracle_home= /d01/oracle/AIA/ORACLE_HOME
Oracle SID= AIA

OS Users and Group Creation

Adding the group and user:

Now Log into the root user of the operating system for adding the group and user

su – root (command used to log into the root user)
groupadd dba (command used to add the group)
useradd aiauser –g dba (command used to add the user in the group dba)
passwd aiaora (command used to assign the password for the user aiaora)

Make entries in/etc/hosts

127.0.0.1 localhost.localdomain localhost
192.168.1.5 linux1.com linux1

Make the below entries in /etc/sysctl.conf as root user

```
vi /etc/sysctl.conf
kernel.shmmax=4294967295
kernel.sem=256 32000 100 142
fs.file-max=206173
net.ipv4.ip_local_port_range = 1024 65000
kernel.msgmnb = 65535
kernel.msgmni = 2878
net.core.rmem_default = 262144
net.core.rmem_max = 262144
net.core.wmem_default = 262144
net.core.wmem_max = 262144
net.ipv4.tcp_wmem = 262144 262144 262144
net.ipv4.tcp_rmem = 262144 262144 262144
```

reboot the server or run the command - sysctl -p

Open the /etc/security/limits.conf file and change the existing values for "hard" and "soft" parameters as follows. Restart the system after making changes.

Note: If the current value for any parameter is higher than the value listed in this document, then do not change the value of that parameter.

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```
hard nofile 65535
soft nofile 4096
hard nproc 16384
soft nproc 2047
```

Make the below entries in .bash_profile as aiauser

```
su – aiauser
vi .bash_profile
export PATH
export PS1="/bin/hostname -s`-> "
export EDITOR=vi
export PS1="/bin/hostname -s`-> "
export EDITOR=vi
export ORACLE_SID=AIA
export ORACLE_HOME=/d01/oracle/AIA/ORACLE_HOME
export SOA_HOME=/d01/oracle/AIA/SOA_HOME
export JAVA_HOME=/d01/oracle/AIA/SOA_HOME/jdk
export LD_LIBRARY_PATH=$ORACLE_HOME/lib
export AIA_HOME=/d01/oracle/AIA/AIA24
export
PATH=$JAVA_HOME/bin:$ORACLE_HOME/bin:/bin:/usr/bin:/usr/sbin:/usr/local/bin:/usr/X11R6/bin:$
ORACLE_HOME/OPatch
umask 022
```

- Check that the below packages are installed

```
rpm -Uvh sysstat-5.0.5-16.rhel4.i386.rpm
rpm -Uvh compat-glibc-headers-2.3.2-95.30.i386.rpm
rpm -Uvh compat-glibc-2.3.2-95.30.i386.rpm
rpm -Uvh libaio-devel-0.3.105-2.i386.rpm
rpm -e compat-libstdc++-296-2.96-132.7.2
rpm -Uvh compat-libstdc++-7.3-2.96.128.i386.rpm - download from net
rpm -Uvh compat-libstdc++-devel-7.3-2.96.128.i386.rpm - download from net
```

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Step1

Installation of Oracle Database

For AIA Installation Oracle Database should be 10.2.0.4 or higher is required. So, download the Database10.2.0.1.0 software and the patchset p6810189_10204_Linux-x86.zip (Up gradation of RDBMS from 10.2.0.1 to 10.2.0.4)

- Log in as aiauser and start the installation of rdbms 10.2.0.1.0
su – aiauser (enter the password for the aiauser)
- Go to the directory where the runInstaller file is place
- Now run the runInstaller file using the command

`./runInstaller`

A screen will appear. In this, select the Basic Installation and Create Starter Database options.

Specify the Oracle Home Location, Unix DBA Group, Global Database name, and enter the Database password

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Oracle Database 10g Installation - Installation Method

Select Installation Method

Basic Installation
Perform full Oracle Database 10g installation with standard configuration options requiring minimal input. This option uses file system for storage, and a single password for all database accounts.

Oracle Home Location: /d01/oracle/AIA/ORACLE_HOME

Installation Type: Enterprise Edition (1.3GB)

UNIX DBA Group: dba

Create Starter Database (additional 720MB)

Global Database Name: AIA

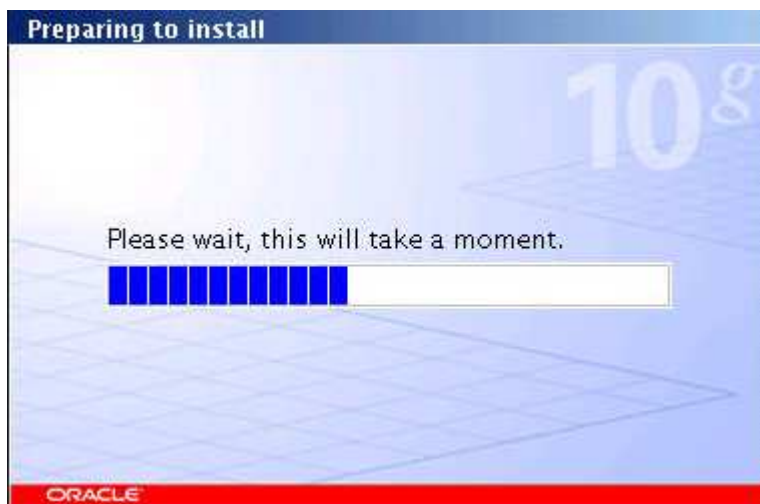
Database Password: ***** Confirm Password: *****

This password is used for the SYS, SYSTEM, SYSMAN, and DBSNMP accounts.

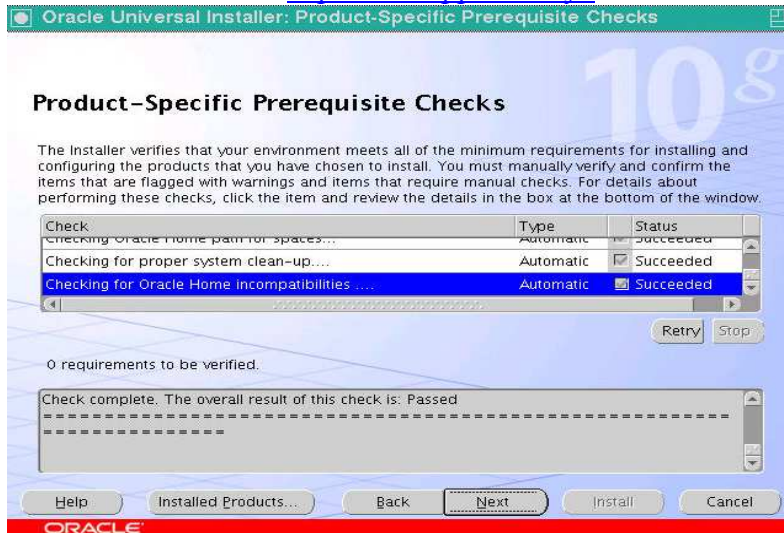
Advanced Installation
Allows advanced selections such as different passwords for the SYS, SYSTEM, SYSMAN, and DBSNMP accounts, database character set, product languages, automated backups, custom installation, and alternative storage options such as Automatic Storage Management.

ORACLE

and then click Next button.



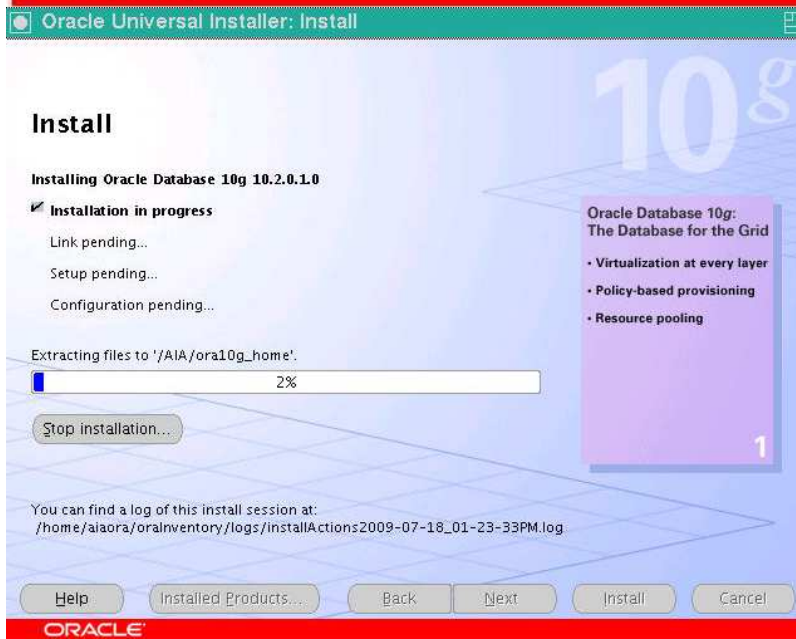
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Click on next

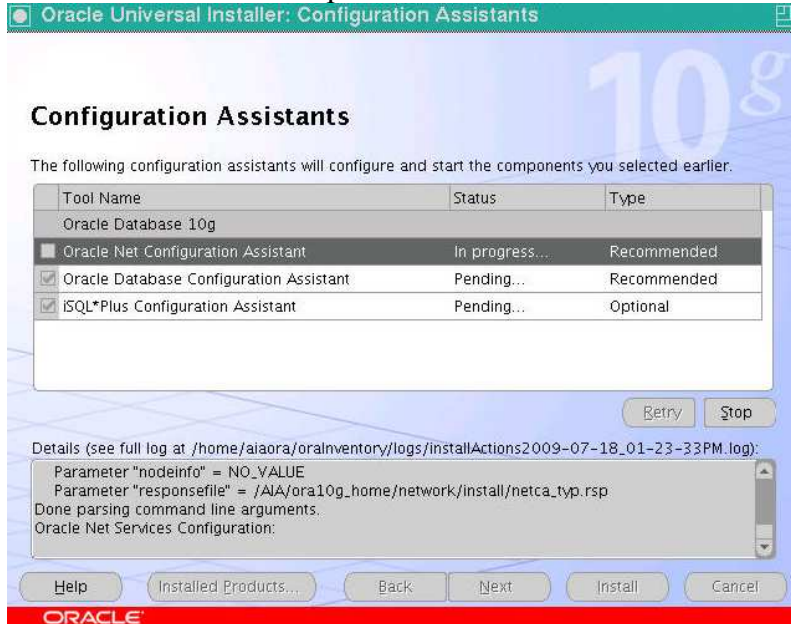
Click on Install button.

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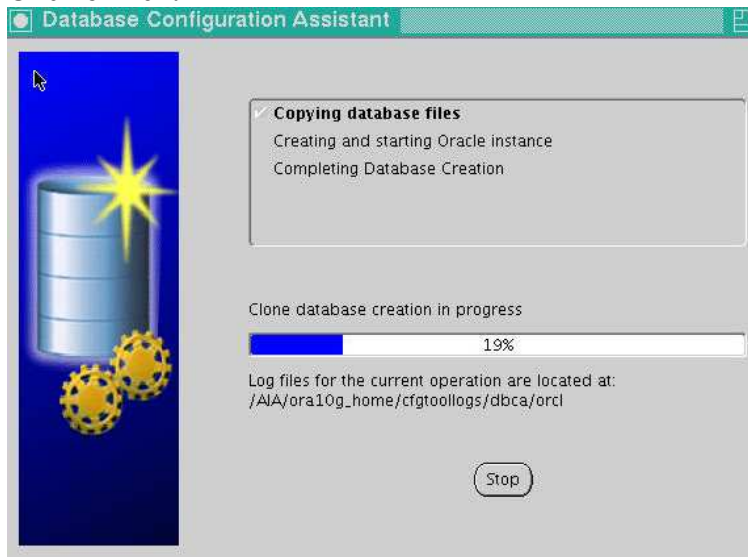


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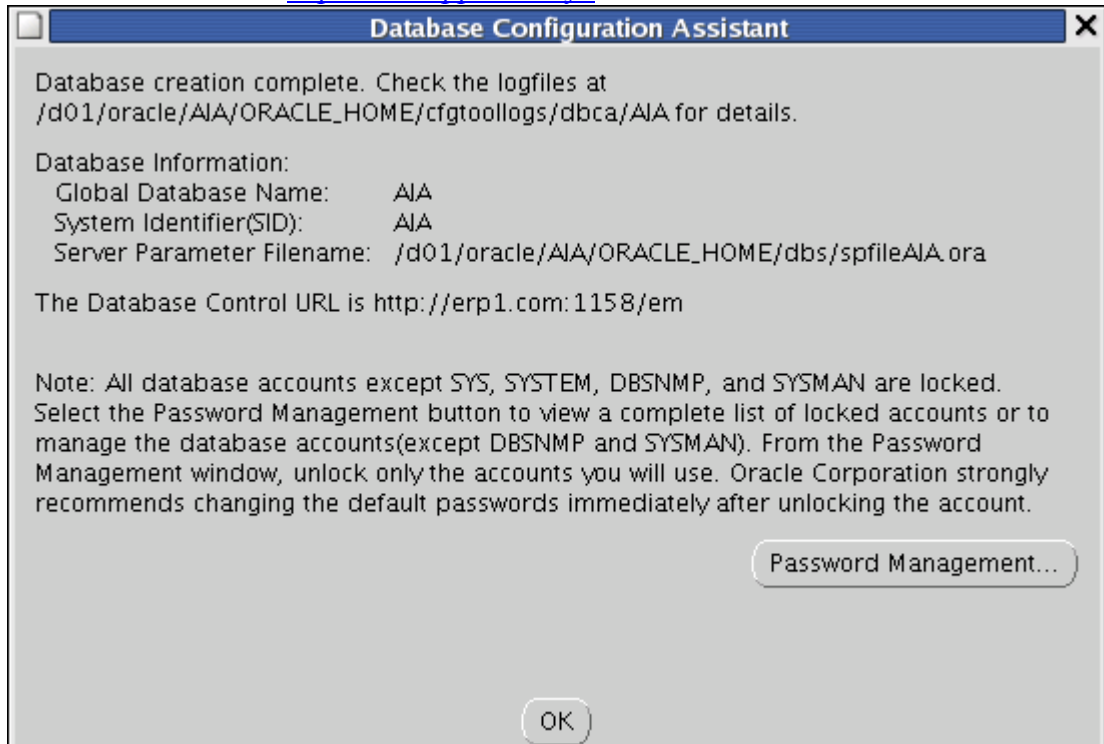
The Installation is under process and it some time.



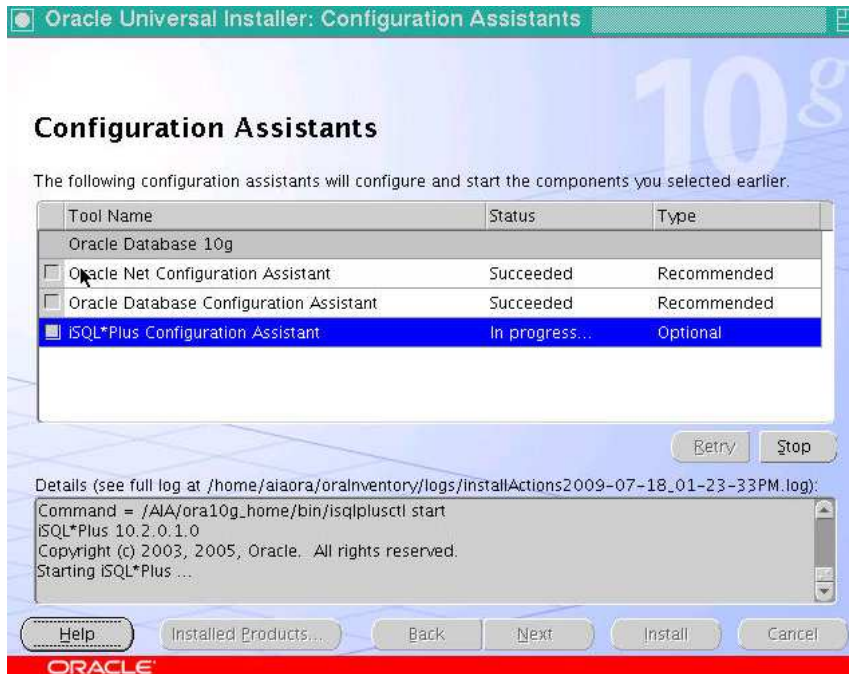
Click on next



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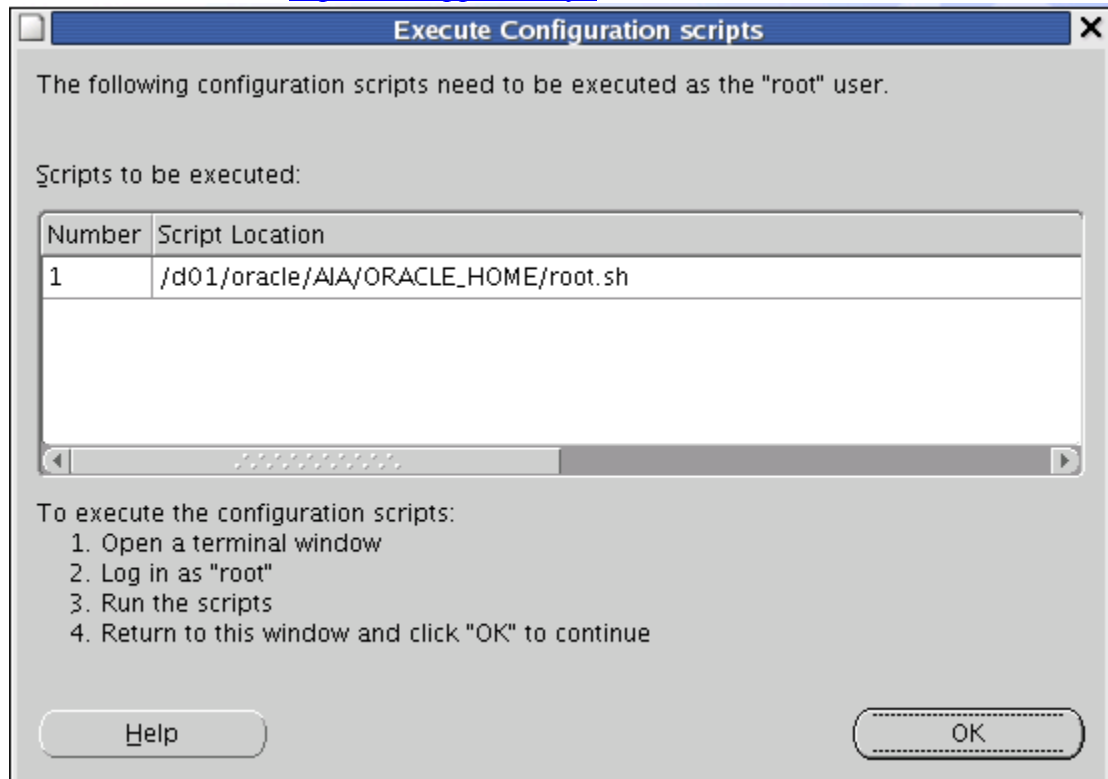


Click on ok.



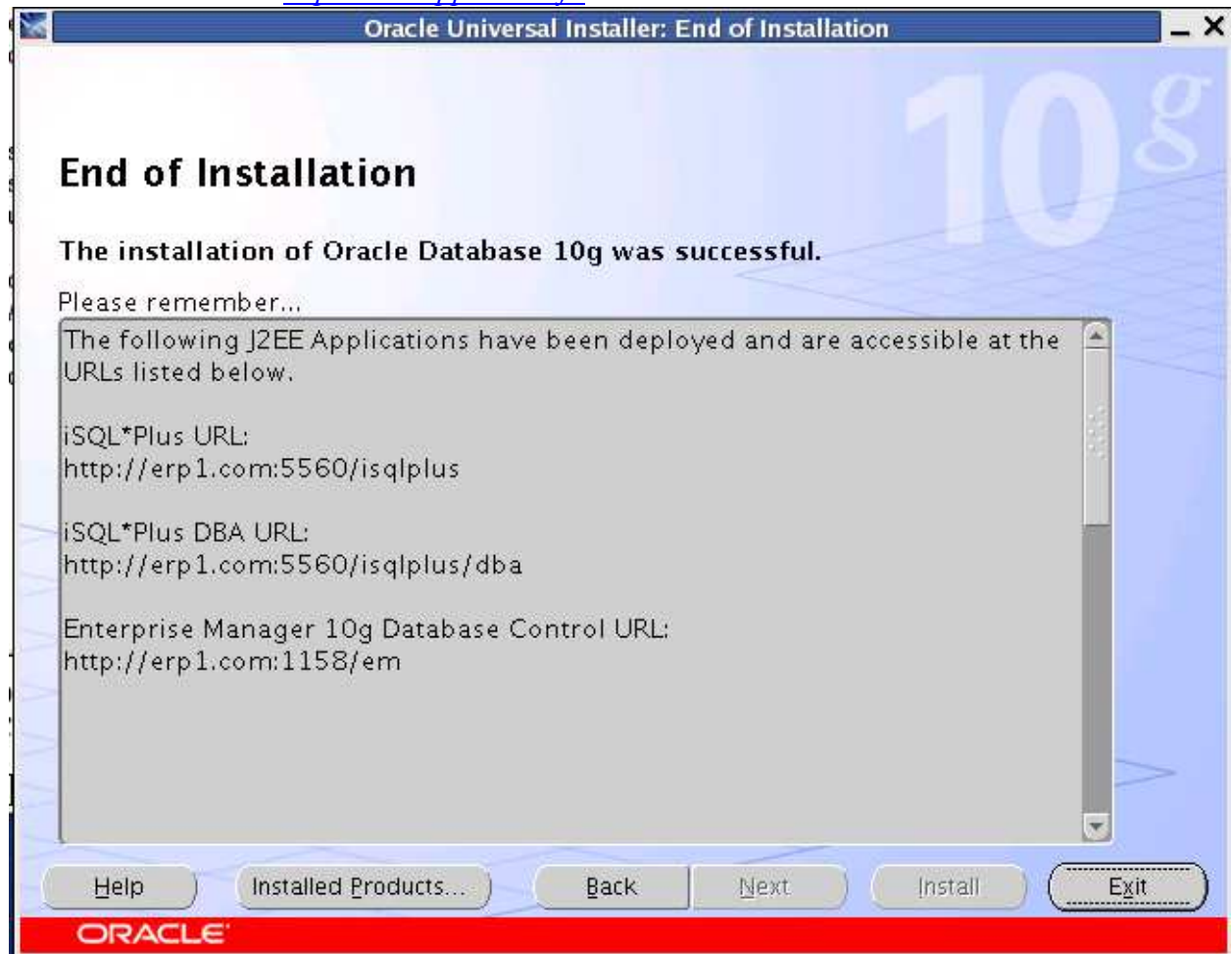
Click on next

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When this screen pop's up, Just log into the root user(su – root) of the Operating system and go to the directory where root.sh file is located (the location of this file is specified in the screen) and run the file using the command (./root.sh) and then click ok.

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The Installation of Database 10g was successful. Now, click on Exit button.
Applying Patchset p6810189_10204_Linux-x86.zip (Up-gradation of RDBMS from 10.2.0.1 to 10.2.0.4)

Before applying this patchset, export the oracle home and the oracle Sid, using the command

```
export ORACLE_HOME=/AIA/ora10g_home
```

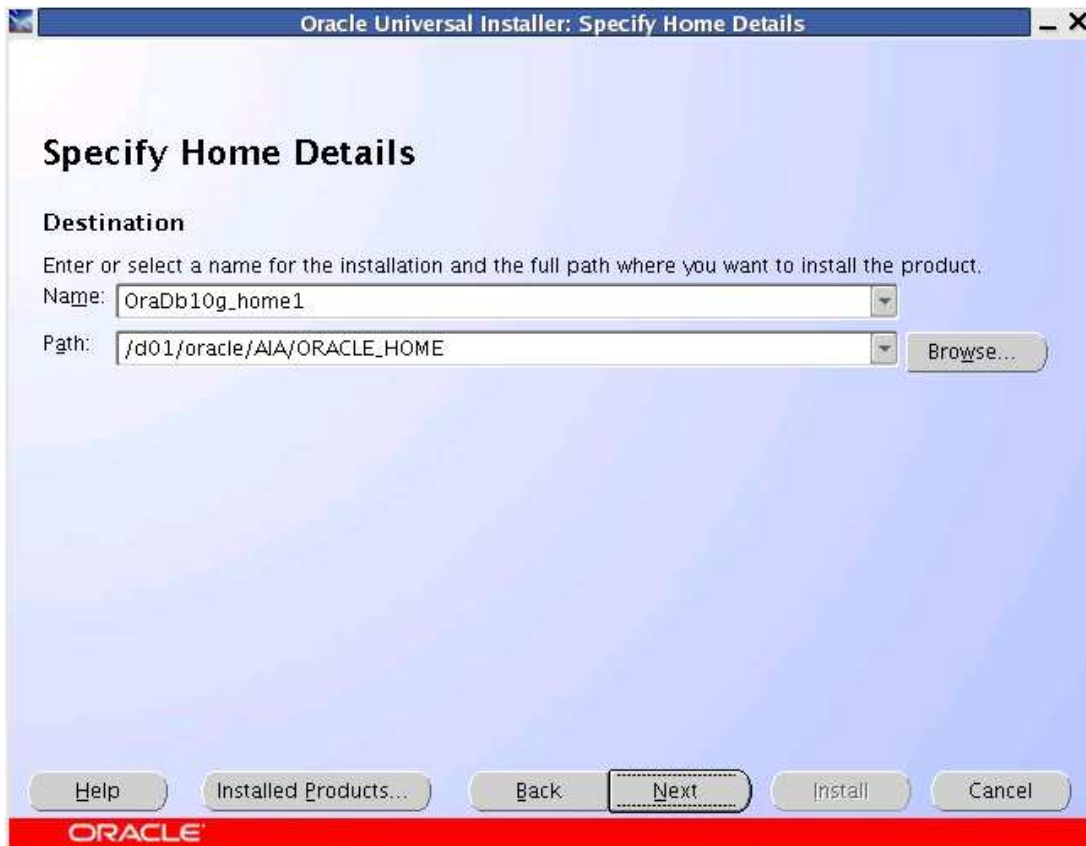
shutdown the services

- Go to the 5337014 patchset directory and run the runInstaller file using the command
./runInstaller

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Click on Next



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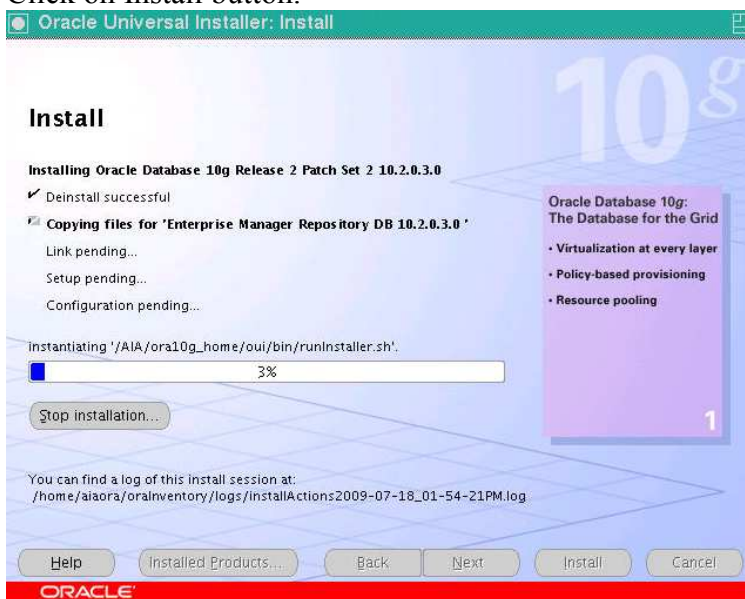
The screenshot shows a window titled "Oracle Universal Installer: Oracle Configuration Manager Registration". The main heading is "Oracle Configuration Manager Registration". There is a checkbox labeled "Enable Oracle Configuration Manager" which is currently unchecked. Below this, a text box explains that Oracle Configuration Manager allows associating configuration information with a Metalink account for linking service requests. There are three input fields: "Customer Identification Number (CSI)", "Metalink Account Username", and "Country Code" (a dropdown menu currently showing "United States"). A "Test Registration" button is located below these fields. A "Connection Settings" button is also present. At the bottom, there are navigation buttons: "Help", "Installed Products...", "Back", "Next" (which is highlighted with a dashed border), "Install", and "Cancel". The Oracle logo is visible at the bottom left of the window.

Here specify the Oracle Database Home name and the Path of that Oracle Home and then click on Next

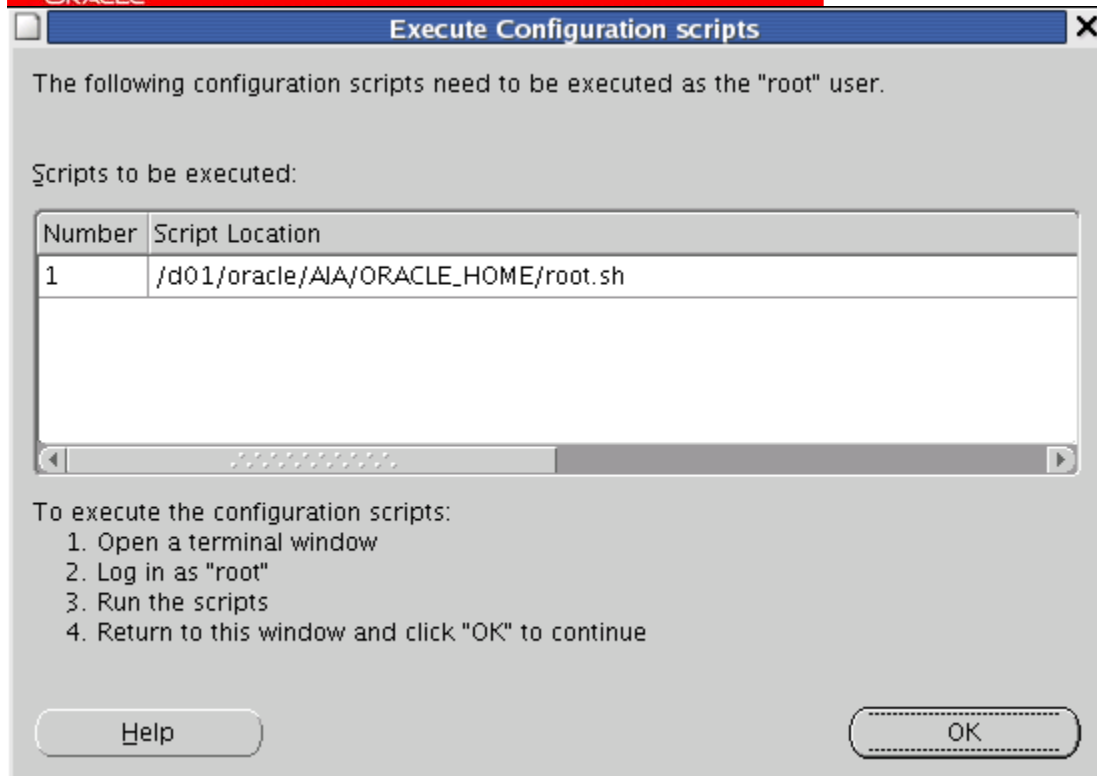
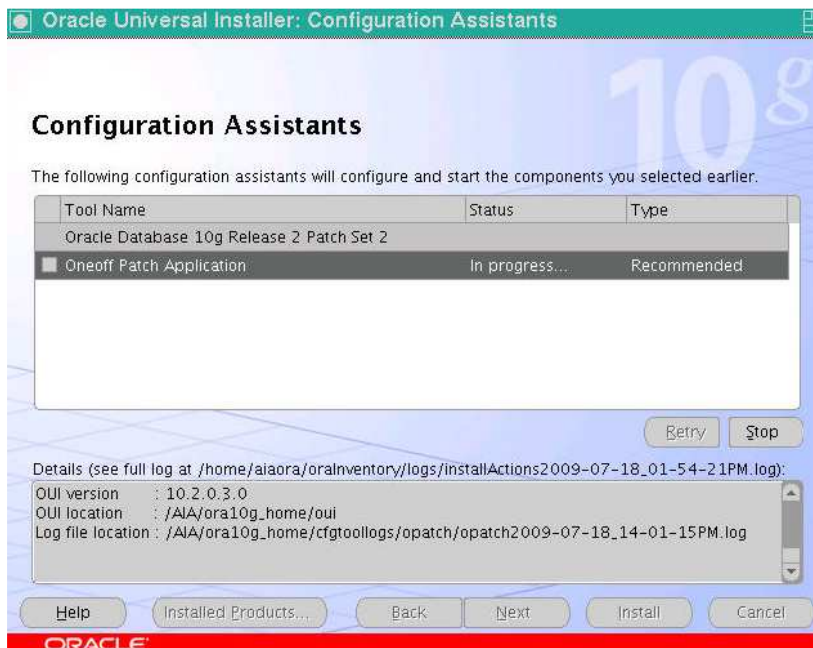
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Click on Install button.

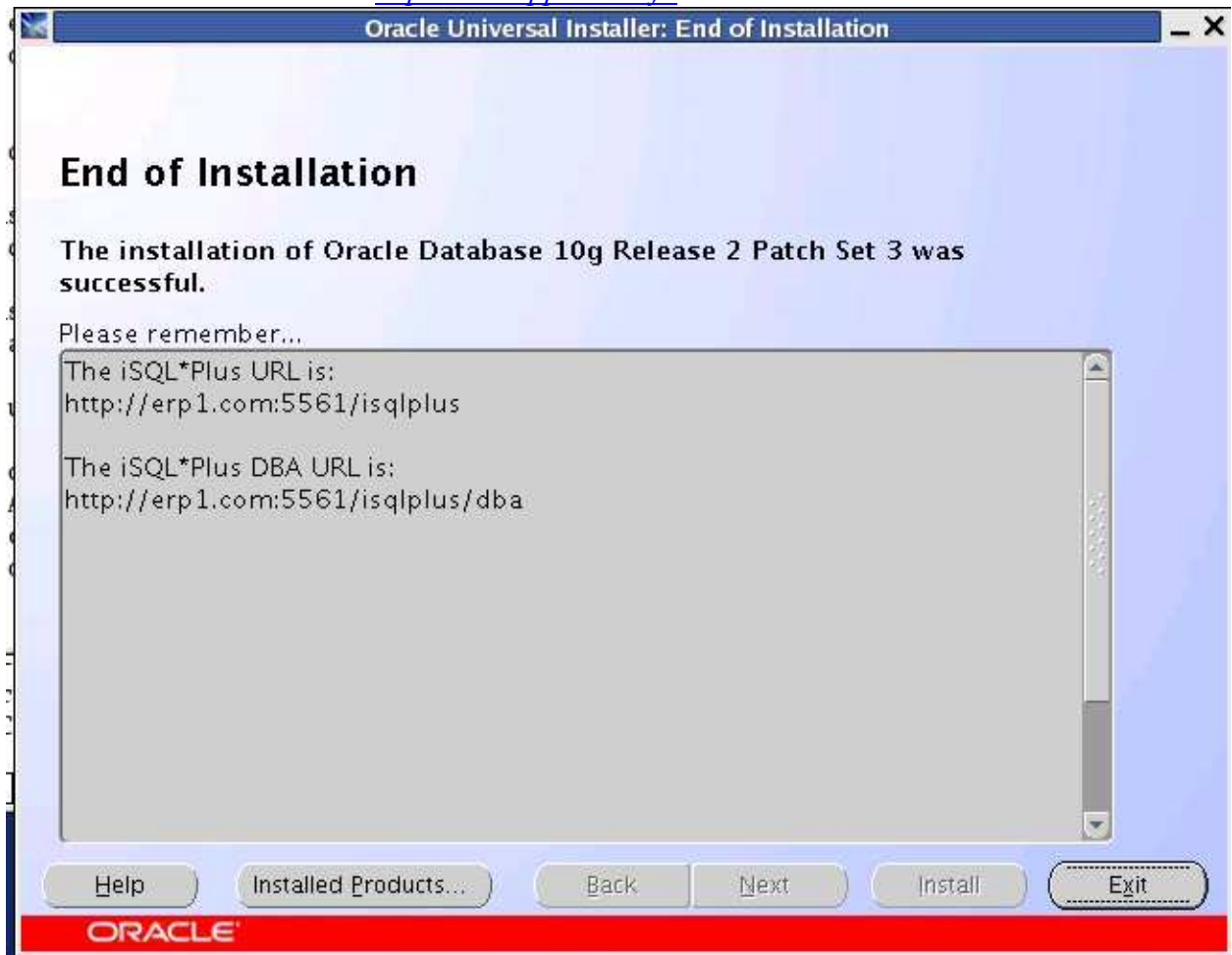


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When this screen pop's up, Just log into the root user(su – root) of the Operating system and go to the directory where root.sh file is located (the location of this file is specified in the screen) and run the file using the command (./root.sh) and then click ok.

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The Installation of Oracle Database 10g Release 2 patchset 2 was successful
Now click on Exit.

After completing all these steps we have to run the catproc.sql file which is located in the ORACLE_HOME/rdbms/admin.

- First log into the system database user
- Start the database using the **startup UPGRADE** command in the sql prompt.
- Now go to the directory where catproc.sql file is located, and run the file using @catupgrd.sql

It takes some time to complete the procedure. Wait till it completes.

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```
erp1-> cd /d01/oracle/AIA/ORACLE_HOME/rdbms/admin/
erp1-> sqlplus "/as sysdba"

SQL*Plus: Release 10.2.0.4.0 - Production on Mon Apr 5 11:01:11 2010

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

Connected to an idle instance.

SQL> startup upgrade
ORACLE instance started.

Total System Global Area 1241513984 bytes
Fixed Size 1267212 bytes
Variable Size 318769652 bytes
Database Buffers 905969664 bytes
Redo Buffers 15507456 bytes
Database mounted.
Database opened.
SQL> spool catupgrd.log
SQL> @catupgrd
```

```
.
Oracle Database 10.2 Upgrade Status Utility 04-05-2010 11:15:10
.
Component Status Version HH:MM:SS
Oracle Database Server VALID 10.2.0.4.0 00:04:51
JServer JAVA Virtual Machine VALID 10.2.0.4.0 00:01:06
Oracle XDK VALID 10.2.0.4.0 00:00:19
Oracle Database Java Packages VALID 10.2.0.4.0 00:00:07
Oracle Text VALID 10.2.0.4.0 00:00:12
Oracle XML Database VALID 10.2.0.4.0 00:00:53
Oracle Workspace Manager VALID 10.2.0.4.3 00:00:25
Oracle Data Mining VALID 10.2.0.4.0 00:00:09
OLAP Analytic Workspace VALID 10.2.0.4.0 00:00:12
OLAP Catalog VALID 10.2.0.4.0 00:00:29
Oracle OLAP API VALID 10.2.0.4.0 00:00:23
Oracle interMedia VALID 10.2.0.4.0 00:02:16
Spatial VALID 10.2.0.4.0 00:00:53
Oracle Expression Filter VALID 10.2.0.4.0 00:00:07
Oracle Enterprise Manager VALID 10.2.0.4.0 00:00:46
Oracle Rule Manager VALID 10.2.0.4.0 00:00:03
```

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```
SQL> shutdown immediate
Database closed.
Database dismounted.
ORACLE instance shut down.
SQL> startup
ORACLE instance started.

Total System Global Area 1241513984 bytes
Fixed Size                  1267212 bytes
Variable Size               352324084 bytes
Database Buffers            872415232 bytes
Redo Buffers                 15507456 bytes
Database mounted.
Database opened.
```

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Issues and solutions

```
linux1-> ./runInstaller
Starting Oracle Universal Installer...
```

```
Checking installer requirements...
```

```
Checking operating system version: must be redhat-3, SuSE-9, redhat-4, UnitedLinux-1.0, asianux-1 or asianux-2
Passed
```

```
All installer requirements met.
```

```
Preparing to launch Oracle Universal Installer from /tmp/OraInstall2010-04-15_11-21-08PM. Please wait ...linux1-> Exception i
n thread "main" java.lang.UnsatisfiedLinkError: /tmp/OraInstall2010-04-15_11-21-08PM/jre/1.4.2/lib/i386/libawt.so: libXp.so.6
: cannot open shared object file: No such file or directory
at java.lang.ClassLoader$NativeLibrary.load(Native Method)
at java.lang.ClassLoader.loadLibrary0(Unknown Source)
at java.lang.ClassLoader.loadLibrary(Unknown Source)
at java.lang.Runtime.loadLibrary0(Unknown Source)
at java.lang.System.loadLibrary(Unknown Source)
at sun.security.action.LoadLibraryAction.run(Unknown Source)
at java.security.AccessController.doPrivileged(Native Method)
at sun.awt.NativeLibLoader.loadLibraries(Unknown Source)
at sun.awt.DebugHelper.<clinit>(Unknown Source)
at java.awt.Component.<clinit>(Unknown Source)
```

Solution

This error comes because libXp.so.6 library is not present in /usr/lib. The rpm which contains this file is libXp-1.0.0-8.i386.rpm. It is present in the Oracle Enterprise Linux 5 DVD in /server directory. So copy this rpm from the DVD or CD and install it:

```
rpm -ivh libXp-1.0.0-8.i386.rpm
```

Once this is installed, confirm about the presence of the the file libXp.so.6 by this command:

```
$ ls -ld /usr/lib/libXp.so.6
lrwxrwxrwx 1 root root 14 Jul 29 06:45 /usr/lib/libXp.so.6 -> libXp.so.6.2.0
$
```