Oracle® Database

Client Quick Installation Guide

11g Release 2 (11.2) for Linux x86-64

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This guide describes how to quickly install Oracle Database Client 11*g* Release 2 (11.2) on Linux x86-64 systems. It includes information about the following:

- Reviewing Information About This Guide
- Logging In to the System as root
- Checking the Hardware Requirements
- Checking the Software Requirements
- Creating Required Operating System Groups and Users
- Creating Required Directories
- Configuring the oracle User's Environment
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1 Reviewing Information About This Guide

This guide describes how to complete a default installation of Oracle Database Client on a system that does not have any Oracle software installed on it. It describes how to install one of the following installation types:

- Administrator: Enables applications to connect to an Oracle Database instance on the local system or on a remote system. It also provides tools that enable you to administer Oracle Database.
- **Runtime**: Enables applications to connect to an Oracle Database instance on the local system or on a remote system.
- **Instant Client**: Enables you to install only the shared libraries required by Oracle Call Interface (OCI), Oracle C++ Call Interface (OCCI), Pro*C, or Java database connectivity (JDBC) OCI applications. This installation type requires much less disk space as compared to the other Oracle Database Client installation types.

See Also: Oracle Call Interface Programmer's Guide for more information about Instant Client

This guide does not describe how to install the Custom installation type.



Where to Get Additional Installation Information

For more detailed information about installing Oracle Database Client, refer to *Oracle Database Client Installation Guide for Linux*.

This guide is available on the product disc. To access it, use a Web browser to open the welcome.htm file located in the top-level directory of the installation media, and then select the **Documentation** tab.

2 Logging In to the System as root

Before you install the Oracle software, you must complete several tasks as the root user. To log in as the root user, complete one of the following procedures:

Note: Unless you intend to complete a silent-mode installation, you must install the software from an X Window System workstation, an X terminal, or a PC or other system with X server software installed.

- Following are the steps for installing the software from an X Window System workstation or X terminal:
 - 1. Start a local terminal session, for example, an X terminal (xterm).
 - **2.** If you are not installing the software on the local system, then enter the following command to enable the remote host to display X applications on the local X server:

\$ xhost fully_qualified_remote_host_name

For example:

\$ xhost somehost.us.example.com

3. If you are not installing the software on the local system, then use the ssh, rlogin, or telnet command to connect to the system where you want to install the software:

\$ telnet fully_qualified_remote_host_name

4. If you are not logged in as the root user, then enter the following command to switch user to root:

```
$ sudo sh
password:
#
```

• Following are the steps for installing the software from a PC or other system with X server software:

Note: If necessary, refer to your X server documentation for more information about completing this procedure. Depending on the X server software that you are using, you may need to complete the tasks in a different order.

1. Start the X server software.

- **2.** Configure the security settings of the X server software to permit remote hosts to display X applications on the local system.
- **3.** Connect to the remote system where you want to install the software and start a terminal session on that system, for example, an X terminal (xterm).
- **4.** If you are not logged in as the root user on the remote system, then enter the following command to switch user to root:

```
$ sudo sh
password:
#
```

3 Checking the Hardware Requirements

The system must meet the following minimum hardware requirements:

- Memory Requirements
- System Architecture
- Disk Space Requirements

3.1 Memory Requirements

The following are the memory requirements for installing Oracle Database 11g Release 2 (11.2):

• At least 256 MB of physical RAM.

To determine the physical RAM size, enter the following command:

grep MemTotal /proc/meminfo

If the size of the physical RAM is less than the required size, then you must install more memory before continuing.

• The following table describes the relationship between installed RAM and the configured swap space requirement:

Note: On Linux, the HugePages feature allocates non-swappable memory for large page tables using memory-mapped files. If you enable HugePages, then you should deduct the memory allocated to HugePages from the available RAM before calculating swap space.

Available RAM	Swap Space Required
Between 0 MB and 256 MB	3 times the size of RAM
Between 256 MB and 512 MB	2 times the size of RAM
Between 512 MB and 2 GB	1.5 times the size of RAM
Between 2 GB and 16 GB	Equal to the size of RAM
More than 16 GB	16 GB

• To determine whether the system architecture can run the software, enter the following command:

grep "model name" /proc/cpuinfo

Note: This command displays the processor type. Verify that the processor architecture matches the Oracle software release that you want to install. If you do not see the expected output, then you cannot install the software on this system.

To determine the size of the configured swap space, enter the following command:

```
# grep SwapTotal /proc/meminfo
```

If necessary, refer to the operating system documentation for information about how to configure additional swap space.

To determine the available RAM and swap space, enter the following command:

free

Note: Oracle recommends that you take multiple values for the available RAM and swap space before finalizing a value. This is because the available RAM and swap space keep changing depending on the user interactions with the computer.

3.2 System Architecture

To determine whether the system architecture can run the software, enter the following command:

```
# uname -m
```

Note: This command displays the processor type. Verify that the processor architecture matches the Oracle software release that you want to install. If you do not see the expected output, then you cannot install the software on this system.

3.3 Disk Space Requirements

The following are the disk space requirements for installing Oracle Database 11*g* Release 2 (11.2):

 The minimum disk space requirement for a client install in the /tmp directory is 400 MB.

To determine the amount of disk space available in the $/\,{\tt tmp}$ directory, enter the following command:

df -k /tmp

If there is less than 400 MB of free disk space available in the $/\,{\tt tmp}$ directory, then complete one of the following steps:

 Delete unnecessary files from the /tmp directory to meet the disk space requirement. • Set the TMP and TMPDIR environment variables when setting the oracle user's environment.

See Also: "Configuring the oracle User's Environment for more information about setting TMP and TMPDIR

- Extend the file system that contains the /tmp directory. If necessary, contact the system administrator for information about extending file systems.
- Between 146 MB and 1.38 GB of disk space for the Oracle software, depending on the installation type:

Installation Type	Requirement for Software Files
Instant Client	146 MB
Administrator	1.38 GB
Runtime	1.1 GB

To determine the amount of free disk space on the system, enter the following command:

df -k

4 Checking the Software Requirements

Depending on the products that you intend to install, verify that the following software are installed on the system.

- Operating System Requirements
- Kernel Requirements
- Package Requirements
- Compiler Requirements
- Additional Software Requirements

4.1 Operating System Requirements

The following or later versions of the operating system are required for Oracle Database 11*g* Release 2 (11.2):

- Asianux Server 3 SP2
- Oracle Enterprise Linux 4 Update 7
- Oracle Enterprise Linux 5 Update 2
- Red Hat Enterprise Linux 4 Update 7
- Red Hat Enterprise Linux 5 Update 2
- SUSE Linux Enterprise Server 10 SP2
- SUSE Linux Enterprise Server 11

Starting with Oracle Database 11g Release 2 (11.2), the Security Enhanced Linux (SE Linux) feature is supported for Oracle Enterprise Linux 4, Red Hat Enterprise Linux 4, Oracle Enterprise Linux 5, and Red Hat Enterprise Linux 5.

Note: Only the distributions and versions listed in the earlier list are supported. Do not install the software on other versions of Linux.

Oracle Universal Installer performs checks to verify that the system meets the listed requirements. To ensure that these checks pass, verify the requirements before you start Oracle Universal Installer.

To determine the distribution and version of Linux installed, enter the following command:

cat /proc/version

Note: For Asianux Server, Oracle Enterprise Linux, and Red Hat Enterprise Linux, system requirements are identical by kernel version. Specifically:

Oracle Enterprise Linux 4 and Red Hat Enterprise Linux 4 requirements are the same.

Asianux Server 3, Oracle Enterprise Linux 5, and Red Hat Enterprise Linux 5 requirements are the same.

4.2 Kernel Requirements

The following are the Kernel requirements for Oracle Database 11g Release 2 (11.2)

• For Oracle Enterprise Linux 4 and Red Hat Enterprise Linux 4:

2.6.9 or later

- For Asianux 3, Oracle Enterprise Linux 5, and Red Hat Enterprise Linux 5: 2.6.18 or later
- For SUSE Linux Enterprise Server 10:

2.6.16.21 or later

• For SUSE Linux Enterprise Server 11:

2.6.27.19 or later

To determine whether the required kernel is installed, enter the following command:

uname -r

The following is a sample output displayed by running this command on a Red Hat Enterprise Linux 4.0 system:

2.6.9-34.0.1.0.11.ELsmp

In this example, the output shows the kernel version (2.6.9) and errata level (34.0.1.0.11) on the system.

If the kernel version does not meet the requirement specified earlier in this section, then contact the operating system vendor for information about obtaining and installing kernel updates.

4.3 Package Requirements

The following are the list of packages required for Oracle Database 11g Release 2 (11.2):

Note:

- Oracle recommends that you install your Linux operating system with the default software packages (RPMs), unless you specifically intend to perform a minimal installation, and follow the directions for performing such an installation to ensure that you have all required packages for Oracle software.
- Oracle recommends that you do not customize RPMs during a default operating system installation. A default installation includes most required packages, and will help you to limit manual checks of package dependencies.
- You must install the packages (or later versions) listed in the following table. Also, ensure that the list of RPMs and all the prerequisites for these RPMs are installed.
- If you did not perform a default Linux installation, you intend to use LDAP, and you want to use the scripts odisrvreg, oidca, or schemasync, then install the Korn shell RPM for your Linux distribution

IMPORTANT: Starting with Oracle Database 11g Release 2 (11.2.0.2), all 32-bit packages, except for gcc-32bit-4.3, listed in this section are no longer required for installing a database on Linux x86-64. Only the 64-bit packages are required. However, for any Oracle Database 11g release prior to 11.2.0.2, both the 32-bit and 64-bit packages listed in this section are required.

However, when you install the 32-bit client binaries on 64-bit ports, the installer will check for the existence of 32-bit packages.

• The following or later version of packages for Oracle Enterprise Linux 4 and Red Hat Enterprise Linux 4 should be installed:

```
binutils-2.15.92.0.2
compat-libstdc++-33-3.2.3
compat-libstdc++-33-3.2.3 (32 bit)
elfutils-libelf-0.97
elfutils-libelf-devel-0.97
expat-1.95.7
gcc-3.4.6
gcc-c++-3.4.6
glibc-2.3.4-2.41
glibc-2.3.4-2.41 (32 bit)
glibc-common-2.3.4
glibc-devel-2.3.4
libaio-0.3.105
libaio-0.3.105 (32 bit)
libaio-devel-0.3.105
libaio-devel-0.3.105 (32 bit)
libgcc-3.4.6
```

```
libgcc-3.4.6 (32-bit)
libstdc++-3.4.6
libstdc++-3.4.6 (32 bit)
libstdc++-devel 3.4.6
make-3.80
sysstat-5.0.5
```

The following or later version of packages for Asianux 3, Oracle Enterprise Linux 5, and Red Hat Enterprise Linux 5 should be installed:

```
binutils-2.17.50.0.6
compat-libstdc++-33-3.2.3
compat-libstdc++-33-3.2.3 (32 bit)
elfutils-libelf-0.125
elfutils-libelf-devel-0.125
gcc-4.1.2
gcc-c++-4.1.2
glibc-2.5-24
glibc-2.5-24 (32 bit)
glibc-common-2.5
glibc-devel-2.5
glibc-devel-2.5 (32 bit)
libaio-0.3.106
libaio-0.3.106 (32 bit)
libaio-devel-0.3.106
libaio-devel-0.3.106 (32 bit)
libgcc-4.1.2
libgcc-4.1.2 (32 bit)
libstdc++-4.1.2
libstdc++-4.1.2 (32 bit)
libstdc++-devel 4.1.2
make-3.81
sysstat-7.0.2
```

• The following or later version of packages for SUSE Linux Enterprise Server 10 should be installed:

```
binutils-2.16.91.0.5
compat-libstdc++-5.0.7
gcc-4.1.0
gcc-c++-4.1.2
glibc-2.4-31.63
glibc-devel-2.4-31.63
glibc-devel-32bit-2.4-31.63
libaio-0.3.104
libaio-32bit-0.3.104
libaio-devel-0.3.104
libaio-devel-32bit-0.3.104
libelf-0.8.5
libgcc-4.1.2
libstdc++-4.1.2
libstdc++-devel-4.1.2
make-3.80
sysstat-8.0.4
```

• The following or later version of packages for SUSE Linux Enterprise Server 11 should be installed:

```
binutils-2.19
gcc-4.3
```

```
gcc-c++-4.3
glibc-2.9
glibc-32bit-2.9
glibc-devel-2.9
glibc-devel-32bit-2.9
libaio-0.3.104
libaio-32bit-0.3.104
libaio-devel-0.3.104
libaio-devel-32bit-0.3.104
libstdc++33-3.3.3
libstdc++33-32bit-3.3.3
libstdc++43-4.3.3_20081022
libstdc++43-32bit-4.3.3_20081022
libstdc++43-devel-4.3.3_20081022
libstdc++43-devel-32bit-4.3.3_20081022
libgcc43-4.3.3_20081022
libstdc++-devel-4.3
make-3.81
sysstat-8.1.5
```

To determine whether the required packages are installed, enter commands similar to the following:

rpm -q package_name

If a package is not installed, then install it from the Linux distribution media or download the required package version from the Linux vendor's Web site.

4.4 Compiler Requirements

Intel C++ Compiler 10.1 or later and the version of GNU C and C++ compilers listed under the "Package Requirements" are supported with these products.

Note: Intel Compiler v10.1 can be used only with the standard template libraries of the gcc versions mentioned in the Package Requirements section, to build Oracle C++ Call Interface (OCCI) applications.

Oracle XML Developer's Kit is supported with the same compilers as OCCI.

4.5 Additional Software Requirements

Depending on the components you want to use, you must ensure that the following software are installed:

- Oracle ODBC Drivers
- Oracle JDBC/OCI Drivers
- Linux-PAM Library
- Separate 32-Bit Client Software for 64-Bit Ports
- Browser Requirements

4.5.1 Oracle ODBC Drivers

You should install ODBC Driver Manager for UNIX. You can download and install the most recent ODBC Driver Manager from the following URL:

http://www.unixodbc.org

To use ODBC, you must also install the following additional ODBC RPMs, depending on your operating sytem:

- On Oracle Enterprise Linux 4 and Red Hat Enterprise Linux 4:
 - unixODBC-2.2.11 (32-bit) or later
 - unixODBC-devel-2.2.11 (64-bit) or later
 - unixODBC-2.2.11 (64-bit) or later
- On Asianux Server 3, Oracle Enterprise Linux 5, and Red Hat Enterprise Linux 5:
 - unixODBC-2.2.11 (32-bit) or later
 - unixODBC-devel-2.2.11 (64-bit) or later
 - unixODBC-2.2.11 (64-bit) or later
- On SUSE 10:
 - unixODBC-32 bit-2.2.11 (32-bit) or later
 - unixODBC-2.2.11 (64-bit) or later
 - unixODBC-devel-2.2.11 (64-bit) or later
- On SUSE 11:
 - unixODBC-2.2.12 or later
 - unixODBC-devel-2.2.12 or later
 - unixODBC-32bit-2.2.12 (32-bit) or later

4.5.2 Oracle JDBC/OCI Drivers

You can use JDK 6 (Java SE Development Kit 1.6.0_21) or JDK 5 (1.5.0_24) with the JNDI extension with the Oracle Java Database Connectivity and Oracle Call Interface drivers. However, these are not mandatory for the database installation. Please note that IBM JDK 1.5 is installed with this release.

4.5.3 Linux-PAM Library

Install the latest Linux-PAM (Pluggable Authentication Modules for Linux) library to enable the system administrator to choose how applications authenticate users.

4.5.4 Separate 32-Bit Client Software for 64-Bit Ports

Starting with Oracle Database 11g Release 2 (11.2), the 64-bit client software does not contain any 32-bit client binaries. If you require 32-bit client binaries on 64-bit ports, then install the 32-bit binaries from the respective 32-bit client software.

However, when you install the 32-bit client binaries on 64-bit ports, the installer will check for the existence of 32-bit software such as the packages.

See Also: "Bit-Length Support for Client Applications" in *Oracle Database Administrator's Reference for Linux and UNIX-Based Operating Systems*

4.5.5 Browser Requirements

Web browsers must support Java Script, and the HTML 4.0 and CSS 1.0 standards. The following Web browsers are supported for Oracle Enterprise Manager Database Control:

- Netscape Navigator 8.1
- Netscape Navigator 9.0
- Microsoft Internet Explorer 6.0 SP2
- Microsoft Internet Explorer 7.0 SP1
- Microsoft Internet Explorer 8.0
- Firefox 2.0
- Firefox 3.0.7
- Firefox 3.5
- Firefox 3.6
- Safari 3.0.4
- Safari 3.1
- Safari 3.2
- Safari 4.0.x
- Google Chrome 3.0
- Google Chrome 4.0

5 Creating Required Operating System Groups and Users

The following local operating system groups and users are required if you are installing Oracle Database:

- The Oracle Inventory group (typically, oinstall)
- The Oracle software owner (typically, oracle)

To determine whether these groups and users already exist, and if necessary, to create them, follow these steps:

1. To determine whether the oinstall group exists, enter the following command:

more /etc/oraInst.loc

If the output of this command shows the oinstall group name, then the group already exists.

If the oraInst.loc file exists, then the output from this command is similar to the following:

```
inventory_loc=/u01/app/oraInventory
inst_group=oinstall
```

The inst_group parameter shows the name of the Oracle Inventory group, oinstall.

2. If necessary, enter the following commands to create the oinstall group:

/usr/sbin/groupadd oinstall

3. To determine whether the oracle user exists and belongs to the correct groups, enter the following command:

id oracle

If the oracle user exists, then this command displays information about the groups to which the user belongs. The output should be similar to the following, indicating that oinstall is the primary group and dba is a secondary group:

uid=440(oracle) gid=200(oinstall) groups=201(dba),202(oper)

- **4.** If necessary, complete one of the following actions:
 - If the oracle user exists, but its primary group is not oinstall or it is not a member of the dba group, then enter the following command:

/usr/sbin/usermod -g oinstall -G dba oracle

If the oracle user does not exist, enter the following command to create it:

/usr/sbin/useradd -g oinstall -G dba oracle

This command creates the oracle user and specifies oinstall as the primary group and dba as the secondary group.

5. Enter the following command to set the password of the oracle user:

passwd oracle

6 Creating Required Directories

Note: If you do not want to create a separate Oracle data file directory, then you can install the data files in a subdirectory of the Oracle base directory. However, this is not recommended for production databases.

To create the Oracle base directory:

1. Enter the following command to display information about all mounted file systems:

df -h

This command displays information about all the file systems mounted on the system, including:

- The physical device name
- The total amount, used amount, and available amount of disk space
- The mount point directory for that file system
- **2.** From the display, identify either one or two file systems that meet the disk space requirements mentioned earlier in this section.
- **3.** Note the name of the mount point directory for each file system that you identified.

4. Enter commands similar to the following to create the recommended subdirectories in the mount point directory that you identified and set the appropriate owner, group, and permissions on them:

```
# mkdir -p /mount_point/app/
# chown -R oracle:oinstall /mount_point/app/
# chmod -R 775 /mount_point/app/
```

For example:

mkdir -p /u01/app/
chown -R oracle:oinstall /u01/app/
chmod -R 775 /u01/app/

7 Configuring the oracle User's Environment

You run Oracle Universal Installer from the oracle account. However, before you start Oracle Universal Installer, you must configure the environment of the oracle user. To configure the environment, you must:

- Set the default file mode creation mask (umask) to 022 in the shell startup file.
- Set the DISPLAY environment variable.

To set the oracle user's environment:

- 1. Start a new terminal session, for example, an X terminal (xterm).
- **2.** Enter the following command to ensure that X Window applications can display on this system:

\$ xhost fully_qualified_remote_host_name

For example:

\$ xhost somehost.us.example.com

- **3.** If you are not already logged in to the system where you want to install the software, then log in to that system as the oracle user.
- 4. If you are not logged in as the oracle user, then switch user to oracle:

\$ su - oracle

- 5. To determine the default shell for the oracle user, enter the following command: \$ echo \$SHELL
- **6.** To run the shell startup script, enter one of the following commands:
 - Bash shell:
 - \$. ./.bash_profile
 - Bourne or Korn shell:

\$. ./.profile

C shell:

% source ./.login

7. If you are not installing the software on the local computer, then run the following command on the remote machine to set the DISPLAY variable:

Bourne, Bash or Korn shell:

\$ export DISPLAY=local_host:0.0

C shell:

% setenv DISPLAY local_host:0.0

In this example, local_host is the host name or IP address of the local computer that you want to use to display Oracle Universal Installer.

Run the following command on the remote machine to check if the shell and the DISPLAY environmental variable are set correctly:

echo \$SHELL echo \$DISPLAY

Now to enable X applications, run the following commands on the local computer:

```
$ xhost + fully_qualified_remote_host_name
```

To verify that X applications display is set properly, run a X11 based program that comes with the operating system such as xclock:

\$ xclock

In this example, you can find xclock at /usr/X11R6/bin/xclocks. If the DISPLAY variable is set properly, then you can see xclock on your computer screen.

See Also: PC-X Server or operating system vendor documents for further assistance

- 8. If you determined that the /tmp directory has less than 1 GB of free disk space, then identify a file system with at least 1 GB of free space and set the TMP and TMPDIR environment variables to specify a temporary directory on this file system:
 - **a.** To determine the free disk space on each mounted file system use the following command:

df -h /tmp

b. If necessary, enter commands similar to the following to create a temporary directory on the file system that you identified, and set the appropriate permissions on the directory:

```
$ sudo mkdir /mount_point/tmp
$ sudo chmod a+wr /mount_point/tmp
# exit
```

- **c.** Enter commands similar to the following to set the TMP and TMPDIR environment variables:
 - ^{*} Bourne, Bash, or Korn shell:
 - \$ TMP=/mount_point/tmp
 - \$ TMPDIR=/mount_point/tmp
 - \$ export TMP TMPDIR
 - * C shell:

- % setenv TMP /mount_point/tmp
 % setenv TMPDIR /mount_point/tmp
- **9.** Enter commands similar to the following to set the ORACLE_BASE and ORACLE_ SID environment variables:
 - Bourne, Bash, or Korn shell:

```
$ ORACLE_BASE=/u01/app/oracle
$ ORACLE_SID=sales
$ export ORACLE_BASE ORACLE_SID
```

• C shell:

```
% setenv ORACLE_BASE /u01/app/oracle
% setenv ORACLE_SID sales
```

In this example, /u01/app/oracle is the Oracle base directory that you created or identified earlier and sales is the name that you want to call the database (typically no more than five characters).

- **10.** Enter the following commands to ensure that the ORACLE_HOME and TNS_ADMIN environment variables are not set:
 - Bourne, Bash, or Korn shell:

```
$ unset ORACLE_HOME
$ unset TNS_ADMIN
```

• C shell:

```
% unsetenv ORACLE_HOME
% unsetenv TNS_ADMIN
```

Note: If the ORACLE_HOME environment variable is set, then Oracle Universal Installer uses the value that it specifies as the default path for the Oracle home directory. However, if you set the ORACLE_BASE environment variable, then Oracle recommends that you unset the ORACLE_HOME environment variable and choose the default path suggested by Oracle Universal Installer.

8 Mounting the Product Disc

On most Linux systems, the product disc mounts automatically when you insert it into the drive. If the disc does not mount automatically, then follow these steps to mount it:

- **1.** Enter a command similar to the following to eject the currently mounted disc, then remove it from the drive:
 - Asianux, Oracle Enterprise Linux, and Red Hat Enterprise Linux:

\$ sudo eject /mnt/dvd

SUSE:

```
# eject /media/dvd
```

In these examples, $/{\tt mnt}/{\tt dvd}$ and $/{\tt media}/{\tt dvd}$ are the mount point directories for the disc drive.

2. Insert the DVD into the disc drive.

- **3.** To verify that the disc mounted automatically, enter a command similar to the following:
 - Asianux, Oracle Enterprise Linux, and Red Hat Enterprise Linux:

ls /mnt/dvd

```
    SUSE:
```

ls /media/dvd

- **4.** If this command fails to display the contents of the disc, then enter a command similar to the following:
 - Asianux, Oracle Enterprise Linux, and Red Hat Enterprise Linux:

mount -t iso9660 /dev/dvd /mnt/dvd

SUSE:

mount -t iso9660 /dev/dvd /media/dvd

In these examples, $/{\tt mnt}/{\tt dvd}$ and $/{\tt media}/{\tt dvd}$ are the mount point directories for the disc drive.

9 Installing Oracle Database Client

After configuring the oracle user's environment, start Oracle Universal Installer and install Oracle Database as follows:

• To start Oracle Universal Installer, enter the following command:

\$ /mount_point/db/runInstaller

If Oracle Universal Installer does not start, then refer to *Oracle Database Client Quick Installation Guide for Linux x86-64* for information about how to troubleshoot X Window display problems.

- The following table describes the recommended action for each Oracle Universal Installer screen. Use the following guidelines to complete the installation:
 - If you need more assistance, or if you want to choose an option that is not a default, then click **Help** for additional information.
 - If you encounter errors while installing or linking the software, then refer to *Oracle Database Installation Guide* for information about troubleshooting.

Note: If you have completed the tasks listed previously, then you can complete the installation by choosing the default values on most screens.

 If you have an existing Oracle Database Client 11g Release 2 (11.2) installed on your system, the Select Installation Mode screen is displayed. Select New Install to install Oracle Database Client software in to a new location. If you want to upgrade an earlier release of Oracle Database Client, then select Upgrade.

See Also: "Performing an In-place Oracle Database Client Upgrade"

- **2.** In the Select Installation Type screen, select the type of installation that you want: Instant Client, Administrator, or Runtime and click **Next**.
- **3.** In the Download Software Updates screen, select one of the following options and click **Next:**
 - Use My Oracle Support credentials for download to download and apply the latest software updates.

Click Proxy Settings to configure a proxy for Oracle Universal Installer to use to connect to the Internet. Provide the proxy server information for your site, along with a user account that has access to the local area network through which the server is connecting.

Click Test Connection to ensure that your proxy settings are correctly entered, and the installer can download the updates.

- Use pre-downloaded software updates to apply previously downloaded software updates.
- Skip Software Updates if you don't want to apply any updates.
- 4. The Apply Software Updates screen is displayed if you select to download the software updates or provide the pre-downloaded software downloads location. If you selected Use My Oracle Support credentials for download in the previous screen, then select **Download and apply all updates**, and click **Next**. If you selected Use pre-downloaded software updates in the previous screen, then select **Apply all updates**, and click **Next**.
- **5.** The Select Product Languages screen enables you to select the language in which you want to run the product.

Select the product language from the Available Languages list, transfer it to the Selected Languages list. Click **Next**.

This screen is not displayed if you select Instant Client as the type of installation in Step 2.

6. In the Specify Installation Location screen, enter the following details:

Oracle Base: This path appears by default. You can change the path based on your requirement. The Oracle Base section is not displayed if you select Instant Client as the type of installation in Step 2.

In the **Software Location** section, accept the default values or enter the Oracle home name and directory path in which you want to install Oracle components. The directory path should not contain spaces. Click **Next**.

7. In the Create Inventory screen, you are prompted by the installer to specify the directory path for central inventory the first time you install Oracle Database on your computer. Enter the **Inventory Directory** path, and click **Next**.

Note: By default, the Oracle Inventory directory is not installed under the Oracle Base directory. This is because all Oracle software installations share a common Oracle Inventory, so there is only one Oracle Inventory for all users, whereas there is a separate Oracle Base for each user.

8. The Perform Prerequisite Checks screen verifies if your computer meets the minimum system requirements to install the desired product. Click **Next**.

Note: Oracle recommends that you use caution in checking the Ignore All option. If you check this option, then Oracle Universal Installer may not confirm that your system is able to install Oracle Database successfully.

9. Review the information displayed in the Summary screen, and click Finish.

Note: Starting with Oracle Database 11g Release 2 (11.2), you can save all the installation steps into a response file by clicking **Save Response File**. Later, this file can be used for a silent installation.

- **10.** The Install Product screen states the progress of a client installation. After Oracle Database Client is installed, execute the root.sh script as a root user to complete the installation, and click **OK**.
- **11.** In the Finish screen, click **Close** to exit from Oracle Universal Installer.

10 Performing an In-place Oracle Database Client Upgrade

Follow the instructions in this section to perform an in-place upgrade of Oracle Database Client 11*g* Release 2 (11.2):

Note: If you do not have an existing Oracle Database Client 11*g* Release 2 (11.2) upgradable home on your sytem, you cannot perform an in-place upgrade.

1. After configuring the oracle user's environment, start Oracle Universal Installer using the following command:

\$ /mount_point/db/runInstaller

See Also: "Running Oracle Universal Installer" section in the *Oracle Database Client Installation Guide for Linux*

- Only if you have an existing Oracle Database Client 11g Release 2 (11.2.0.1) installed on your system, the Select Installation Mode screen is displayed. Select Upgrade to upgrade the existing Oracle Database Client software with the latest version.
- **3.** Perform Steps 5 through 11 listed in the "Installing Oracle Database Client" section to complete the upgrade process.

See Also: "Updating the Existing Software with the Current Version" and "Performing an In-place Oracle Database Client Upgrade Using the Response File" sections in *Oracle Database Client Installation Guide for Linux*

11 What to Do Next?

After you have successfully installed Oracle Database Client, refer to *Oracle Database Client Installation Guide for Linux* for information about required and optional postinstallation steps.

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Oracle Database Client Quick Installation Guide, 11g Release 2 (11.2) for Linux x86-64 E16769-02

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