

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 11g on Linux x86-64 systems. It includes information about the following:

- [Reviewing Information About This Guide](#)
- [Logging In to the System as root](#)
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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 11g 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 `/tmp` directory, enter the following command:

```
# df -k /tmp
```

If there is less than 400 MB of free disk space available in the `/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 typr	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 11g Release 2 (11.2):

- Asianux 2
- Asianux 3
- Oracle Enterprise Linux 4 Update 7
- Oracle Enterprise Linux 5 Update 2
- Red Hat Enterprise Linux 4 Update 3
- 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:

Asianux 2, 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 Asianux 2, 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.
-
-

- The following or later version of packages for Asianux 2, 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
unixODBC-2.2.11
unixODBC-2.2.11 (32 bit)
unixODBC-devel-2.2.11
unixODBC-devel-2.2.11 (32 bit)
```

- 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
unixODBC-2.2.11
unixODBC-2.2.11 (32 bit)
unixODBC-devel-2.2.11
unixODBC-devel-2.2.11 (32 bit)
```

- 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-2.5-24
glibc-devel-2.4
glibc-devel-32bit-2.4
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
```

Note: 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.

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

The following are the compiler requirements for Pro*C/C++ , Oracle Call Interface, Oracle C++ Call Interface, and Oracle XML Developer's Kit (XDK) with Oracle Database 11g Release 2 (11.2):

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 gcc 3.4.5 or gcc 4.0 or gcc 4.1 standard template libraries 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](#)
- [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>

4.5.2 Oracle JDBC/OCI Drivers

You can use Sun JDK 1.5.0-06 with the JNDI extension JDK versions with the Oracle Java Database Connectivity and Oracle Call Interface drivers. However, these are not mandatory for the installation.

4.5.3 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
- Mozilla version 1.7
- Microsoft Internet Explorer 6.0 SP2
- Microsoft Internet Explorer 7.0
- Microsoft Internet Explorer 7.0 SP1
- Microsoft Internet Explorer 8.0
- Firefox 2.0
- Firefox 3.0.7
- Safari 3.0.4
- Safari 3.1
- Safari 3.2

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. Complete one of the following steps:
 - If the terminal session is not connected to the system where you want to install the software, then log in to that system as the `oracle` user.
 - If the terminal session is connected to the system where you want to install the software, then switch user to `oracle`:

```
$ su - oracle
```

4. To determine the default shell for the `oracle` user, enter the following command:

```
$ echo $SHELL
```

5. Open the `oracle` user's shell startup file in any text editor:

- Bash shell (`bash`) on SUSE:

```
$ vi .profile
```

- Bourne shell (`sh`), Bash shell on Red Hat (`bash`), or Korn shell (`ksh`):

```
$ vi .bash_profile
```

- C shell (csh or tcsh):

```
% vi .login
```

6. Enter or edit the following line in the shell startup file, specifying a value of 022 for the default file mode creation mask:

```
umask 022
```

7. If the ORACLE_SID, ORACLE_HOME, or ORACLE_BASE environment variable is set in the file, then remove the corresponding lines from the file.

8. Save the file and exit from the editor.

9. To run the shell startup script, enter the following command:

- Bash shell on Red Hat:

```
$ . ~/.bash_profile
```

- Bourne shell, Bash shell on SUSE, or Korn shell:

```
$ . ~/.profile
```

- C shell:

```
% source ~/.login
```

10. If you are not installing the software on the local system, then enter a command similar to the following to direct X applications to display on the local system:

- Bourne, Bash, or Korn shell:

```
$ DISPLAY=local_host:0.0 ; export DISPLAY
```

- C shell:

```
% setenv DISPLAY local_host:0.0
```

In this example, *local_host* is the host name or IP address of the system that you want to use to display Oracle Universal Installer (your workstation or PC).

11. If you determined that the /tmp directory had insufficient free disk space when checking the hardware requirements, then identify a file system with the required amount of free space and set the TMP and TMPDIR environment variables as follows:

- a. Use the `df -k` command to identify a suitable file system with sufficient free space.

- 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
```

12. 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
```

13. To verify that the environment has been set correctly, enter the following commands:

```
$ umask
$ env | more
```

Verify that the `umask` command displays a value of 22, 022, or 0022 and the environment variables that you set in this section have the correct values.

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, `/mnt/dvd` and `/media/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, `/mnt/dvd` and `/media/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 Installation Guide for Linux* 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 Linux* 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.

1. In the Select Installation Type screen, select the type of installation that you want: Instant Client, Administrator, or Runtime and click **Next**.
2. 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 1.

3. In the Specify Install 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 1.

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**

4. 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.

5. The Perform Prerequisite Checks screen verifies if your computer meets the minimum system requirements to install the desired product. Click **Next**.
6. 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** in the Summary screen. Later, this file can be used for a silent installation.

7. The Install Product screen states the progress of a client installation. After Oracle Database Client is installed, you are prompted to execute the root configuration script for new inventory as a root user. Execute the `root.sh` script as a root user to complete the installation, and click **OK**.
8. In the Finish screen, click **Close** to exit from Oracle Universal Installer.

10 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.

11 Documentation Accessibility

Our goal is to make Oracle products, services, and supporting documentation accessible to all users, including users that are disabled. To that end, our documentation includes features that make information available to users of assistive technology. This documentation is available in HTML format, and contains markup to facilitate access by the disabled community. Accessibility standards will continue to evolve over time, and Oracle is actively engaged with other market-leading technology vendors to address technical obstacles so that our documentation can be accessible to all of our customers. For more information, visit the Oracle Accessibility Program Web site at <http://www.oracle.com/accessibility/>.

Accessibility of Code Examples in Documentation

Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an

otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

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