

# Oracle® Database

Client Quick Installation Guide

11g Release 2 (11.2) for IBM AIX on POWER Systems (64-Bit)

E24334-04

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This guide describes how to quickly install Oracle Database Client 11g Release 2 (11.2) on IBM AIX on POWER Systems (64-Bit). It includes information about the following topics:

- [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](#)
- [Mounting the Product Disc](#)
- [Installing Oracle Database Client](#)
- [Performing an In-place Oracle Database Client Upgrade](#)
- [What to Do Next?](#)
- [Additional Information](#)
- [Documentation Accessibility](#)

## 1 Reviewing Information About this Guide

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**Note:** This guide describes how to install Oracle Client on a system that does not have any Oracle software installed on it. If there is an existing Oracle software installation on this system, then refer to *Oracle Database Client Installation Guide for IBM AIX on POWER Systems (64-Bit)* for more detailed installation instructions.

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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 the Instant Client feature

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 IBM AIX on POWER Systems (64-Bit)*.

All these guides are available on the product disc. To access them, use a web browser to open the welcome.htm file located in the top-level directory of the media. Platform-specific documentation is available in PDF and HTML formats in the Documentation section.

## 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:

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**Note:** 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

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- 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`:

```
$ su - root
password:
```

#

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

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**Note:** If necessary, refer to your X server documentation, or contact your X server vendor or system administrator 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.

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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`:

```
$ su - root
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 Client 11g Release 2 (11.2):

- At least 256 MB of RAM

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

```
# /usr/sbin/lsattr -E -l sys0 -a realmem
```

If the size of the 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:

Available RAM	Swap Space Required
256 MB	3 times the size of RAM
Between 256 MB and 512 MB	2 times the size of RAM

Available RAM	Swap Space Required
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 the size of the configured swap space, enter the following command:

```
# /usr/sbin/lspcs -a
```

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

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**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.
  - Contact your operating system vendor for swap space allocation guidance for your server. The vendor guidelines supersede the swap space requirements listed in this guide.
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## 3.2 System Architecture

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

```
# /usr/bin/getconf HARDWARE_BITMODE
```

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**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.

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The expected output of this command is 64. If you do not see the expected output, then you cannot install the software on this system.

To determine if the system is started in 64-bit mode, enter the following command:

```
# bootinfo -K
```

The result of this command should be 64, indicating that the 64-bit kernel is enabled.

For AIX, Oracle Database 11g supports 64-bit kernel and does not provide support for 32-bit kernel applications.

## 3.3 Disk Space Requirements

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

- The minimum space requirement for a client install in the `/tmp` directory is 130 MB

To determine the amount of disk space available in the `/tmp` directory, enter the following command:

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

If the free disk space available in the `/tmp` directory is less than what is required, 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.
- Extend the file system that contains the `/tmp` directory. If necessary, contact the system administrator for information about extending file systems.
- To determine the amount of free disk space on the system, enter the following command:

```
# df -k
```

The following table describes the disk space requirements for software files for each installation type on AIX.

Installation Type	Requirement for Software Files
Instant Client	400 MB
Administrator	4.0 GB
Runtime	2.1 GB

## 4 Checking the Software Requirements

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

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**Note:** The platform-specific hardware and software requirements included in this guide were current when this guide was published. However, because new platforms and operating system software versions may be certified after this guide is published, review the certification matrix on the My Oracle Support website for the most up-to-date list of certified hardware platforms and operating system versions:

<https://support.oracle.com/>

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- [Operating System Requirements](#)
- [Compiler Requirements](#)
- [Patch Requirement](#)
- [Additional Software Requirements](#)

## 4.1 Operating System Requirements

The following is the operating system requirement for Oracle Client 11g Release 2 (11.2):

- AIX 5L V5.3 TL 09 SP1 ("5300-09-01"), 64 bit kernel
- AIX 6.1 TL 02 SP 1 ("6100-02-01), 64-bit kernel
- AIX 7.1 TL 0 SP 1 ("7100-00-01"), 64-bit kernel
- AIX 7.2 TL 0 SP1 ("7200-00-01"), 64-bit kernel

The following operating system filesets are required for **AIX 5L**:

- bos.adt.base
- bos.adt.lib
- bos.adt.libm
- bos.perf.libperfstat 5.3.9.0 or later
- bos.perf.perfstat
- bos.perf.proctools
- x1C.aix50.rte.10.1.0.0 or later
- x1C.rte.10.1.0.0 or later
- gpfs.base 3.2.1.8 or later

The following operating system filesets are required for **AIX 6.1**:

- bos.adt.base
- bos.adt.lib
- bos.adt.libm
- bos.perf.libperfstat 6.1.2.1 or later
- bos.perf.perfstat
- bos.perf.proctools
- x1C.aix61.rte.10.1.0.0 or later
- x1C.rte.10.1.0.0 or later
- gpfs.base 3.2.1.8 or later

The following operating system filesets are required for **AIX 7.1**:

- bos.adt.base
- bos.adt.lib
- bos.adt.libm
- bos.perf.libperfstat
- bos.perf.perfstat
- bos.perf.proctools
- x1C.rte.11.1.0.2 or later
- gpfs.base 3.3.0.11 or later

The following operating system filesets are required for **AIX 7.2**:

- bos.adt.base
- bos.adt.lib
- bos.adt.libm
- bos.perf.libperfstat
- bos.perf.perfstat
- bos.perf.proctools
- xlc.aix61.rte.13.1.2.0 or later
- xlc.rte.13.1.2.0 or later

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**Note:**

- On AIX 5L operating system, if you set the value of LOCK\_SGA parameter to true, then you must ensure that the CAP\_BYPASS\_RAC\_VMM and CAP\_PROPAGATE privileges are enabled for the operating system account that is used to start the respective database instances. Otherwise, setting the value of LOCK\_SGA parameter to TRUE alone does not ensure startup of the database instance.
  - The GPFS fileset is required only if you want to use the IBM GPFS cluster file system as the shared storage for Oracle clusterware or database files.
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1. To determine the distribution and version of AIX installed, enter the following command:

```
# oslevel -s
```

**For AIX 5L:** If the operating system version is lower than AIX 5.3 TL 9 SP 1, then upgrade your operating system to this or a later, level.

**For AIX 6.1:** If the operating system version is lower than AIX 6.1 TL 2 SP 1, then upgrade your operating system to this or a later, level.

**For AIX 7.1:** If the operating system version is lower than AIX 7.1 TL 0 SP 1, then upgrade your operating system to this or a later, level.

**For AIX 7.2:** If the operating system version is lower than AIX 7.2 TL 0 SP 1, then upgrade your operating system to this or a later, level.

AIX maintenance packages are available from the following website:

<http://www.ibm.com>

2. To determine whether the required filesets are installed and committed, enter a command similar to the following:

```
# lsllp -l bos.adt.base bos.adt.lib bos.adt.libm bos.perf.perfstat \
bos.perf.libperfstat bos.perf.proctools
```

3. To determine the supported kernel mode, enter a command similar to the following:

```
# getconf KERNEL_BITMODE
```

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**Note:**

- The expected output of this command is 64. If you do not see the expected output, then you cannot install the software on this system.
  - Oracle Database 11g supports 64-bit kernel and does not provide support for 32-bit kernel applications.
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## 4.2 Compiler Requirements

The following is the minimum compiler requirement 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):

IBM XL C/C++ Enterprise Edition for AIX, V9.0 April 2008 PTF:

You can download this software from the following link:

<http://www-01.ibm.com/support/docview.wss?uid=swg24019055>

Even if you do not install the IBM XL C/C++ compiler, you require the compiler for AIX Runtime Environment Component. The runtime environment file sets can be downloaded with no license requirements. The minimum recommended runtime environment for AIX 5.3 and AIX 6.1 is available at the following URL:

### For AIX 5.3 and AIX 6.1:

IBM XL C/C++ for AIX, V10.1 Runtime Environment

<http://www-01.ibm.com/support/docview.wss?rs=2239&uid=swg24019829>

### For AIX 7.1:

September 2010 Runtime for XL C/C++ for AIX, V11.1

<http://www-01.ibm.com/support/docview.wss?uid=swg24028034>

### For AIX 7.2:

November 2015 Runtime for XL C/C++ for AIX, V13.1

<http://www-01.ibm.com/support/docview.wss?uid=swg24041340>

## 4.3 Patch Requirement

The following, or later, patches are required for Oracle Database 11g Release 2 (11.2) for AIX Based Systems:

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**Note:**

- AIX APAR numbers are tied to AIX versions and technology levels (TL). Download and install the APAR that matches your AIX versions and TL from the IBM fix central website at the following URL:

<http://www.ibm.com>

- If you are using a later TL level than the minimum level listed for this release, then check with IBM to determine if the required APARs listed here are included in the TL level that you have on your system. If they are included, then you do not need to install them. If they are not included, then you must install the equivalent APAR for the appropriate TL level.
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<b>Installation Type or Product</b>	<b>Requirement</b>
All installations	<p>Authorized Problem Analysis Reports (APARs) for <b>AIX 5L</b>:</p> <p>If you are using the minimum operating system TL level for AIX 5L listed above, then install the following Authorized Problem Analysis Reports (APARs) for AIX 5L V5.3 TL 09 SP1:</p> <ul style="list-style-type: none"><li>■ IZ42940</li><li>■ IZ49516</li><li>■ IZ52331</li></ul> <p>These 5.3 fixes are present in the following TL levels:</p> <ul style="list-style-type: none"><li>■ AIX 5.3 TL 09 SP 05 and later</li><li>■ AIX 5.3 TL 10 SP 02 and later</li><li>■ AIX 5.3 TL 11</li></ul>

Installation Type or Product	Requirement
All installations	<p>Authorized Problem Analysis Reports (APARs) for <b>AIX 6.1</b>:</p> <p>If you are using the minimum operating system TL level for AIX 6.1 listed above, then install the following Authorized Problem Analysis Reports (APARs) for AIX 6.1 TL 02 SP1:</p> <ul style="list-style-type: none"> <li>■ IZ41855</li> <li>■ IZ51456</li> <li>■ IZ52319</li> <li>■ IZ97457</li> <li>■ IZ89165</li> </ul> <p>These 6.1 fixes are present in the following TL levels:</p> <ul style="list-style-type: none"> <li>■ AIX 6.1 TL 02 SP 04 and later</li> <li>■ AIX 6.1 TL 03 SP 02 and later</li> <li>■ AIX 6.1 TL 04</li> </ul> <p>If you are using a later TL level than the minimum level listed for this release, apply the following additional operating system patch for defect:</p> <p>BIND64 CORES WITH -BLAZY OPTION</p> <p>Download the appropriate patch for your operating system TL level using the following APAR numbers:</p> <ul style="list-style-type: none"> <li>■ AIX 6.1 TL 03 - use AIX APAR IZ89304</li> <li>■ AIX 6.1 TL 04 - use AIX APAR IZ89302</li> <li>■ AIX 6.1 TL 05 - use AIX APAR IZ89300</li> <li>■ AIX 6.1 TL 06 SP 4 - use AIX APAR IZ88711</li> <li>■ AIX 6.1 TL 06 SP 5 - use AIX APAR IZ89514</li> <li>■ AIX 6.1 TL 07 - use AIX APAR IZ88880</li> </ul>
All installations	<p>Authorized Problem Analysis Reports (APARs) for <b>AIX 7.1</b>:</p> <p>If you are using the minimum operating system TL level for AIX 7.1 listed above, then install the following Authorized Problem Analysis Reports (APARs) for AIX 7.1 TL 0 SP1:</p> <ul style="list-style-type: none"> <li>■ IZ87216</li> <li>■ IZ87564</li> <li>■ IZ89165</li> <li>■ IZ97035</li> </ul>

Installation Type or Product	Requirement
All installations	<p>Authorized Problem Analysis Reports (APARs) for <b>AIX 7.2</b>:</p> <p>If you are using the minimum operating system TL level for AIX 7.2 listed above, then install the following Authorized Problem Analysis Reports (APARs) for AIX 7.2 TL 0 SP1:</p> <ul style="list-style-type: none"> <li>■ IV79639</li> <li>■ IV79848</li> <li>■ IV80412</li> </ul> <p><b>Note:</b> Install IV80412m1a as it includes the required fix for IV79441.</p>

The following procedure describes how to check these requirements:

- To determine whether an APAR is installed, enter a command similar to the following:

```
# /usr/sbin/instfix -i -k "IZ42940 IZ49516 IZ52331 IZ41855 IZ52319"
```

If an APAR is not installed, then download it from the following website and install it:

<http://www.ibm.com>

- If you require a CSD for WebSphere MQ, then refer to the following website for download and installation information:

<http://www.ibm.com>

## 4.4 Additional Software Requirements

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

- [ODBC Drivers](#)
- [Oracle JDBC/OCI Drivers](#)
- [Programming languages](#)
- [Separate 32-Bit Client Software for 64-Bit Ports](#)
- [Browser Requirements](#)

### 4.4.1 ODBC Drivers

Oracle ODBC driver on AIX is certified with ODBC Driver Manager 2.2.12. You can download and install the Driver Manager from the following link:

<http://www.unixodbc.org>

ODBC Driver Manager is not required to install Oracle Database.

To use ODBC, install `gcc 3.4.5`.

#### 4.4.2 Oracle JDBC/OCI Drivers

Use JDK 6 (Java 6 64-bit 6.0.0.50 IZ30726 (SR2)) or JDK 5 (Java 5 64-bit 5.0.0.250 IZ55274 (SR10)) with the JNDI extension with the Oracle Java Database Connectivity and Oracle Call Interface drivers. However, these are not mandatory for the database installation. Note that JDK 1.5 is installed with this release.

#### 4.4.3 Programming languages

The following products are certified for use with:

- Pro\* COBOL
  - IBM COBOL for AIX Version 4.1 (September 2010 PTF)
  - IBM COBOL for AIX Version 3.1
  - Micro Focus Server Express 5.1
- Pro\* FORTRAN
  - IBM XL Fortran Enterprise Edition for AIX, V11.1 April 2008 PTF
- Ada
  - OC Systems PowerAda 5.5

For more information about OC Systems and PowerAda, refer to the following URL:

<http://www.ocsystems.com/contact.html>

#### 4.4.4 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 platforms, then install the 32-bit binaries from the respective 32-bit client software into a separate Oracle home.

**See Also:** My Oracle Support note 883702.1 for more information:

<https://support.oracle.com/CSP/main/article?cmd=show&type=NOT&id=883702.1>

#### 4.4.5 Browser Requirements

You do not require a web browser to install Oracle Database. However, browsers are required to access documentation, and if you intend to use Oracle Enterprise Manager Database Control and Oracle Application Express, web browsers must support JavaScript, and the HTML 4.0 and CSS 1.0 standards.

Oracle Enterprise Manager Database Control supports the following browsers:

- Microsoft Internet Explorer 10.0 (supports Oracle Enterprise Manager Database Control 11.2.0.3 and higher)
- Microsoft Internet Explorer 9.0
- Microsoft Internet Explorer 8.0
- Microsoft Internet Explorer 7.0 SP1
- Microsoft Internet Explorer 6.0 SP2
- Firefox 21.0 (supports Oracle Enterprise Manager Database Control 11.2.0.4)
- Firefox 17.0.6 ESR (supports Oracle Enterprise Manager Database Control 11.2.0.4)

- Firefox 3.6
- Firefox 3.5
- Firefox 3.0.7
- Firefox 2.0
- Safari 4.0.x
- Safari 3.2
- Safari 3.1
- Google Chrome 27.0 (supports Oracle Enterprise Manager Database Control 11.2.0.4)
- Google Chrome 4.0
- Google Chrome 3.0
- Netscape Navigator 9.0
- Netscape Navigator 8.1

**See Also:** *Oracle Application Express Installation Guide*

## 5 Creating Required Operating System Groups and Users

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

- The Oracle Inventory group (`oinstall`)
- The Oracle software owner (`oracle`)

To determine whether these groups and users 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 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, use the following procedure to create the `oinstall` group:

- a. Enter the following command:

```
# smit security
```

- b. Choose the appropriate menu items to create the `oinstall` group.

- c. Press **F10** to exit.

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 the `oracle` user does not exist or if you want to create the `oracle` user, then use the following procedure:

- a. Enter the following command:

```
# smit security
```

- b. Choose the appropriate menu items to create the `oracle` user, specifying the following information:

In the **Primary GROUP** field, specify the Oracle Inventory group, for example `oinstall`.

In the **Group SET** field, specify the OSDBA group and if required, the OSOPER group. For example `dba`.

- c. Press **F10** to exit.

5. If the `oracle` user exists, but its primary group is not `oinstall` or it is not a member of the `dba` group, then use the following procedure to modify the `oracle` user:

- a. Enter the following command:

```
# smit security
```

- b. Choose the appropriate menu items to modify the `oracle` user, specifying the following information:

In the **Primary GROUP** field, specify the Oracle Inventory group, for example `oinstall`.

In the **Group SET** field, specify the OSDBA group and if required, the OSOPER group. For example `dba`.

- c. Press **F10** to exit.

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

```
# passwd oracle
```

## 6 Creating Required Directories

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**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.

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To create the Oracle base directory:

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

```
# df -k
```

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:

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**Note:** Use shell programs supported by your operating system vendor. If you use a shell program that is not supported by your operating system, then you can encounter errors during installation.

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- 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 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 system 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 system 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 -k /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:

```
su - root
$ mkdir /mount_point/tmp
$ 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 AIX 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. Switch user to root:

```
$ su -  
password:
```

2. If necessary, enter a command similar to the following to eject the currently mounted disc, then remove it from the drive:

```
# umount /dvd
```

3. Insert the disc into the disc drive, then enter a command similar to the following to mount it:

```
# /usr/sbin/mount -rv cdrfs /dev/cd0 /dvd
```

In this example, `/dev/cd0` is the device name of the disc drive and `/dvd` is the mount point directory.

4. If Oracle Universal Installer displays the Disk Location dialog box, enter the disc mount point directory path, for example:

```
/dvd
```

## 9 Installing Oracle Database Client

After configuring the `oracle` user's environment, start Oracle Universal Installer and install Oracle Database Client 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 IBM AIX on POWER Systems (64-Bit)* 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 IBM AIX on POWER Systems (64-Bit)* for information about troubleshooting.

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

---

---

1. 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.

Starting with Oracle Database 11g Release 2 (11.2.0.2), if you want to upgrade an earlier release of Oracle Database Client, then select **Upgrade** and follow the instructions in "[Performing an In-place Oracle Database Client Upgrade](#)" on page 1-20

2. In the Select Installation Type screen, select the type of installation that you want: Instant Client, Administrator, or Runtime and click **Next**.
3. Starting with Oracle Database 11g Release 2 (11.2.0.2), you can use the Software Updates feature to dynamically download and apply latest updates. 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. Starting with Oracle Database 11g Release 2 (11.2.0.3), you can enter the Proxy Realm information if required. The proxy realm information is case-sensitive.

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 value or enter the Oracle home 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 software on your computer. Select the **oraInventory Group Name of the operating system group that should own the Oracle Inventory directory (the Oracle Inventory group)**, 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, 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**.

11. In the Finish screen, click **Close** to exit Oracle Universal Installer.

## 10 Performing an In-place Oracle Database Client Upgrade

Starting with Oracle Database 11g Release 2 (11.2.0.2), you can perform an in-place upgrade of Oracle Database Client 11g Release 2 (11.2) using the following instructions:

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**Note:** You can perform an in-place Oracle Database Client upgrade only if you have an existing Oracle Database Client 11g Release 2 (11.2.0.1) or later client home installed on your system.

---

---

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 IBM AIX on POWER Systems (64-Bit)*

2. The Select Installation Mode screen is displayed only if you have an existing Oracle Database Client 11g Release 2 (11.2.0.1) or later installed on your system. Select **Upgrade** to upgrade the existing Oracle Database Client software to the latest version.
3. In the Specify Installation Location screen, accept the default Software Location value or enter the Oracle home directory path in which you want to install Oracle components. The directory path should not contain spaces. Click **Next**.
4. In the Download Software Updates screen, select one of the following options, and click **Next**:
  - Use My Oracle Support credentials for download
  - Use pre-downloaded software updates
  - Skip software updates

See Step 3 in "[Installing Oracle Database Client](#)" on page 18 for more information about the options in the Download Software Updates screen.

5. The Apply Software Updates screen is displayed if you select to download the software updates or provide the pre-downloaded software updates location. Select either **Download and apply all updates** or **Apply all updates**, as applicable, and click **Next**.

See Step 4 in "[Installing Oracle Database Client](#)" on page 18 for more information about the options in the Apply Software Updates screen.

6. 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**.

7. The Perform Prerequisite Checks screen verifies if your computer meets the minimum system requirements to install the desired product. Click **Next**.
8. Review the information displayed in the Summary screen, and click **Install**.
9. The Install Product screen displays the progress of the client upgrade.
10. Review the information in the Finish screen and click **Close** to exit Oracle Universal Installer.

**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 IBM AIX on POWER Systems (64-Bit)*

## 11 What to Do Next?

After you have successfully installed Oracle Client, refer to *Oracle Database Client Installation Guide for IBM AIX on POWER Systems (64-Bit)* for information about required and optional postinstallation steps.

## 12 Additional Information

This section contains information about the following:

- [Product Licenses](#)
- [Purchasing Licenses and Version Updates](#)
- [Contacting Oracle Support Services](#)
- [Locating Product Documentation](#)

### Product Licenses

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<https://www.oracle.com/support/index.html>

### Locating Product Documentation

Product documentation includes information about configuring, using, or administering Oracle products on any platform. The product documentation for Oracle Database 11g products is available in both HTML and PDF formats online:

<http://docs.oracle.com/en/>

## 13 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

### Access to Oracle Support

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<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

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