Oracle® Database

Quick Installation Guide

11*g* Release 2 (11.2) for Microsoft Windows (32-Bit)

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This guide describes how to quickly install the Oracle Database product on 32-bit Windows systems. It includes information about the following:

1 Review Information About this Guide

This guide describes how to install Oracle Database using the default installation options into a new Oracle home.

Tasks Described in this Guide

The procedures in this guide describe how to:

- Configure your system to support Oracle Database.

- Install Oracle Database software on a local file system by using the Typical installation method.

- Configure a general-purpose Oracle database that uses the local file system for database file storage.

Results of a Successful Installation

After you successfully install Oracle Database:

- The database that you created and the default Oracle Net listener process run on the system.

- Oracle Enterprise Manager Database Control is running and can be accessed using a Web browser.

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Tasks Not Described in this Guide

This guide covers the Typical Installation scenario and does *not* describe how to complete the following tasks:

- Using the Advanced Installation option to install the software.

- Installing the software on a system that has an existing Oracle software installation.

- Installing Oracle Clusterware and Oracle Real Application Clusters.

- Cloning an Oracle home.

- Enabling Enterprise Manager e-mail notifications or automated backups.

- Installing and configuring Oracle grid infrastructure.

Where to Get Additional Installation Information

For more detailed information about installing Oracle Database components, including information about the tasks not described in this guide, see *Oracle Database Installation Guide for Microsoft Windows*.

The guide is available on the product media. To access this guide, use a Web browser to open the `welcome.html` file located in the top-level directory of the installation media.

For information about installing Oracle Database examples, see *Oracle Database Examples Installation Guide*.

2 Log On to the System with Administrator Privileges

Log on as a member of the Administrators group to the computer on which you want to install Oracle components. If you are installing on a Primary Domain Controller (PDC) or a Backup Domain Controller (BDC), log on as a member of the Domain Administrators group.

3 Check the Hardware Requirements

The following hardware components are required for installing Oracle Database:

Table 1   Hardware Requirements

Requirement	Minimum Value
Physical memory (RAM)	1 GB minimum
Virtual memory	Double the amount of RAM
Disk space	Total: 5.15 GB See Table 2 for details.
Processor Type	Intel-compatible processor
Video adapter	256 colors

3.1 Hard Disk Space Requirements

Table 2 lists the space requirements on NTFS. Oracle strongly recommends that you install the Oracle database home (Oracle database binaries, trace files, etc.) on Oracle ACFS or NTFS; the database files themselves must be placed on Oracle ASM if using

Oracle ACFS; otherwise they can be placed on NTFS. Usage of Oracle ACFS and Oracle ASM or NTFS instead of FAT32 is recommended to ensure security of these files. The starter database requires 1.55 GB of disk space. The figures in this table include the starter database. FAT32 space requirements are slightly higher.

Table 2   Disk Space Requirements on NTFS

Installation Type	TEMP Space	C:\Program Files\Oracle	Oracle Home	Datafiles *	Total
Typical Installation	500 MB	3.1 MB	2.8 GB	1.86 GB	5.15 GB

* Refers to the contents of the `admin`, `cfgtoollogs`, `flash_recovery_area`, and `oradata` directories in the *ORACLE_BASE* directory.

** This size can be higher depending on the installation options selected, such as languages or additional components. If you choose to install Oracle Database with automated backups enabled, include at least 2 GB extra for data file disk space.

> **See Also:**   "About NTFS File System and Windows Registry Permissions" in *Oracle Database Platform Guide for Microsoft Windows*

To ensure that the system meets these requirements, follow these steps:

1. Determine the physical RAM size. For example, on a Windows Server 2003 computer, double-click **System** in the Windows Control Panel and click the **General** tab.

    On a Windows Server 2008 R2 computer, click **System and Security** in the Windows Control Panel, then click **System**.

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

2. Determine the size of the configured virtual memory (also known as paging file size). For example, on a Windows 2003 computer, double-click **System**, click the **Advanced** tab, and click **Settings** in the Performance section. Then click the **Advanced** tab.

    On a Windows Server 2008 R2 computer, click **System and Security**, then click **System**, click **Advanced System Settings**, click the **Advanced** tab on System Properties page, and then click **Settings** in the Performance section. Then select the **Advanced** tab on Performance Options page.

    The virtual memory is listed in the Virtual Memory section.

    If necessary, see your operating system documentation for information about how to configure additional virtual memory.

3. Determine the amount of free disk space on the system. For example, on a Windows 2003 computer, double-click **My Computer**, right-click the drive where the Oracle software is to be installed, and select **Properties**.

    On a Windows Server 2008 R2 computer, right-click **My Computer** and click **Open**.

4. Determine the amount of disk space available in the `temp` directory. This is equivalent to the total amount of free disk space, minus what is needed for the Oracle software to be installed.

On Windows 32-bit, if there is less than 500 MB of disk space available in the `temp` directory, then delete all unnecessary files. If the temp disk space is still less than 500 MB, then set the `TEMP` or `TMP` environment variable to point to a different hard drive location.

For example, to change the environment variables on a Windows Server 2003 computer, double-click **System**, click the **Advanced** tab, and click **Environment Variables**.

On a Windows Server 2008 R2 computer, click **System and Security**, then click **System**, click **Advanced System Settings**, click the **Advanced** tab on System Properties page, and then click **Environment Variables**.

4 Check the Software Requirements

Table 3 lists the software requirements for Oracle Database.

Table 3   Software Requirements

Requirement	Value
System Architecture	Processor: Intel (x86), AMD64, and Intel EM64T
	Note: Oracle provides 32-bit (Windows x86) and 64-bit (Windows x64) versions of Oracle Database for Microsoft Windows.
Operating System	Oracle Database for 32-bit Windows is supported on the following operating systems: ■ Windows Server 2003 - all editions ■ Windows Server 2003 R2 - all editions ■ Windows XP Professional ■ Windows Vista - Business, Enterprise, and Ultimate editions ■ Windows Server 2008 - Standard, Enterprise, Datacenter, Web, and Foundation editions. The Server Core option is not supported. **Note:** Check My Oracle Support (formerly Oracle*MetaLink*) for more information about Hyper-V support. ■ Windows 7 - Professional, Enterprise, and Ultimate editions Windows Multilingual User Interface Pack is supported.

Table 3   (Cont.) Software Requirements

Requirement	Value
Compiler	Pro*Cobol has been tested and certified with Net Express 5.0.
	Object Oriented COBOL (OOCOBOL) specifications are not supported.
	The following components are supported with the Microsoft Visual C++ .NET 2005 8.0, Microsoft Visual C++ .NET 2008 9.0, and Intel 10.1 C compilers:
	■ Oracle Call Interface
	■ External callouts
	■ Pro*C/C++
	■ XDK
	Oracle C++ Call Interface is supported with
	■ Microsoft Visual C++ .NET 2005 8.0
	■ Microsoft Visual C++ .NET 2008 9.0 - OCCI libraries are installed under *ORACLE_HOME*\oci\lib\msvc\vc9. When developing OCCI applications with MSVC++ 9.0, ensure that the OCCI libraries are correctly selected from this directory for linking and executing.
	■ Intel 10.1 C++ compiler with the relevant Microsoft Visual C++ .NET STLs.
Network Protocol	The Oracle Net foundation layer uses Oracle protocol support to communicate with the following industry-standard network protocols:
	■ TCP/IP
	■ TCP/IP with SSL
	■ Named Pipes
Oracle Database Client	If you plan to connect to Oracle Database 11*g* Release 2 (11.2) from a release of Oracle Database Client that is earlier than 11*g* Release 2 (11.2), the following conditions apply:
	■ Oracle Database Client is version 9.2.0.4 or higher. See Note 207303.1 on My Oracle Support (formerly Oracle*MetaLink*) for more details and up to date information.
	■ If the earlier Oracle Database Client is running on the same computer as Oracle Database 11*g* Release 2 (11.2), a bequeath connection cannot be used.
	Oracle recommends upgrading Oracle Database Client to the latest patchset (9.2.0.8, 10.2.0.4, or later). You can download the patchset from the Patches and Updates section of My Oracle Support (formerly Oracle*MetaLink*) at
	https://support.oracle.com

5 Web Browser Support

The following Web browsers are supported for Oracle Enterprise Manager Database Control:

■ Microsoft Internet Explorer 6.0 SP2

■ Microsoft Internet Explorer 7.0

■ Microsoft Internet Exlorer 7.0 SP1

- Microsoft Internet Explorer 8.0

- Netscape 8.1

- Netscape 9.0

- Firefox 2.0

- Firefox 3.0.7

- Safari 3.0.4

- Safari 3.1

- Safari 3.2

6 Install the Oracle Database Software

To install the Oracle Database software:

> **Note:**   If you run Oracle Universal Installer when the Windows
> Scheduler jobs are running, then you may encounter unexplained
> installation problems if your Windows Scheduler job is performing
> cleanup, and temporary files are deleted before the installation is
> finished. Oracle recommends that you complete installation before the
> Windows Scheduler jobs are run, or disable Windows Scheduler jobs
> that perform cleanup of temporary files until after the installation is
> completed.

1. If you are installing Oracle Database on a multihomed computer or a computer
   that uses multiple aliases, use the **System** in the Control Panel to create the
   `ORACLE_HOSTNAME` system environment variable. Set this variable to point to the
   host name of the computer on which you are installing Oracle Database.

2. Insert Oracle Database installation media and navigate to the `database\Disk1`
   directory. Alternatively, navigate to the directory where you downloaded or
   copied the installation files.

   Use the same installation media to install Oracle Database on all supported
   Windows platforms.

3. Double-click `setup.exe` to start Oracle Universal Installer.

4. Follow these guidelines to complete the installation:

   - Do not install Oracle Database 11*g* Release 2 (11.2) software into an existing
     Oracle home.

   - Follow the instructions displayed in the Oracle Universal Installer screens. If
     you need additional information, click **Help**.

   - When prompted for a password, follow these guidelines:

     The installation does not continue if the following requirements are not met.

     – Password cannot exceed 30 characters.

     – Password cannot contain invalid characters: ! @ % ^ & * ( ) + = \ | ` ~ [{] }
       ; : ' " , < > ?

     – A user name cannot be a password.

- – An empty password cannot be accepted.

- – The `SYS` account password cannot be `change_on_install`. (case-insensitive)

- – The `SYSTEM` account password cannot be `manager`. (case-insensitive)

- – The `SYSMAN` account password cannot be `sysman`. (case-insensitive)

- – The `DBSNMP` account password cannot be `dbsnmp`. (case-insensitive)

- – If you choose to use the same password for all the accounts, then that password cannot be `change_on_install`, `manager`, `sysman`, or `dbsnmp`. (case-insensitive)

> **Note:** You must remember the passwords that you specify.

- Do not modify the Java Runtime Environment (JRE) except by using a patch provided by Oracle Support Services. Oracle Universal Installer automatically installs the Oracle-supplied version of the JRE. This version is required to run Oracle Universal Installer and several Oracle assistants.

- If you encounter errors while installing or linking the software, see Appendix F in *Oracle Database Installation Guide for Microsoft Windows* for information about troubleshooting.

- If you chose an installation type that runs Database Configuration Assistant and Oracle Net Configuration Assistant in interactive mode, you must provide detailed information about configuring your database and network.

  If you need assistance when using the Database Configuration Assistant or Oracle Net Configuration Assistant in interactive mode, click **Help** on any screen.

> **Note:** If you chose a default installation, Database Configuration Assistant and Oracle Net Configuration Assistant run non-interactively.

5. When the configuration tools finish, click **Exit**, then click **Yes** to exit from Oracle Universal Installer.

6. When Oracle Enterprise Manager Database Control opens in a Web browser, enter the user name and password you created during the installation.

   You can log in as `SYS`, `SYSTEM`, or `SYSMAN`. If you log in as `SYS`, then you must connect `AS SYSDBA`. Enter the password you specified for the account during installation.

7. Optionally, delete the `OraInstall`*`date_time`* directory to remove the temporary files that were created during the installation process. The `OraInstall`*`date_time`* directory holds about 45 MB of files. This directory is created in the location set by the `TEMP` environment variable setting.

   Restarting your computer also removes the `OraInstall`*`date_time`* directory.

8. See Chapter 5 in *Oracle Database Installation Guide for Microsoft Windows* for information about postinstallation tasks that you must complete after you have installed Oracle Database.

Screen	Recommended Action
Configure Security Updates	Enter your e-mail address, preferably your My Oracle Support (formerly Oracle*MetaLink*) e-mail address or user name in the **Email** field.
	You can select the **I wish to receive security updates via My Oracle Support** check box to receive security updates.
	Enter your My Oracle Support (formerly Oracle*MetaLink*) password in the **My Oracle Support Password** field.
	Click **Next**.
Select Installation Option	Select **Create and Configure a Database** from the following list of available options, then click **Next**:
	■ Create and Configure a Database: This option creates a new database along with sample schemas.
	■ Install Database Software only: This option installs only the database binaries. To configure database, you must run Oracle Database Configuration Assistant after the software installation.
	■ Upgrade an existing database: This option installs the software binaries in a new Oracle home. At the end of the installation, you can upgrade the existing database.
System Class	Select **Server Class** from the following options to install the database, and click **Next**.
	■ Desktop Class: Choose this option if you are installing on a laptop or desktop class system.
	■ Server Class: Choose this option if you are installing on a server class system, such as what you would use when deploying Oracle in a production data center.
Grid Installation Options	Select **Single instance database installation** for the type of database installation you want to perform, and click **Next**.
	■ Single instance database installation: This option installs the database and the listener.
	■ Real Application Clusters database installation: This option installs Oracle Real Application Clusters and the listener.
Select Install Type	Select Typical Installation as the installation type from the following options, and then click **Next**:
	■ Typical Installation: This installation method is selected by default. It lets you quickly install Oracle Database using minimal input.
	■ Advanced Installation: This installation method enables to perform more complex installations.

Screen	Recommended Action
Typical Install Configuration	Enter the following information according to your requirements:
	Oracle base: The Oracle base path appears by default. You can change the path based on your requirement.
	Software location: 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.
	Storage Type: Select **File System**, or **Automatic Storage Management** as the database storage option.
	Database file location: If you select File System as your storage type, then click **Browse** and specify a database file location.
	ASMSNMP Password: If you select Automatic Storage Management as your Storage Type, then specify the password for the ASMSNMP user.
	Database Edition: Select the database edition to install.
	Global database name: Specify the Global Database Name using the following syntax:
	database_name.domain
	For example, `sales.us.example.com`
	Administrative password: Enter the password for the privileged database account.
	Confirm Password: Reenter, and confirm the password for the privileged database account.
	Click **Next** to continue.
Perform Prerequisite Checks	Verify that all the prerequisite checks succeed, and then click **Next**.
	Oracle Universal Installer checks the system to verify that it is configured correctly to run Oracle software. If you have completed all the preinstallation steps in this guide, all the checks should pass.
	If a check fails, then review the cause of the failure listed for that check on the screen. If possible, rectify the problem and rerun the check. Alternatively, if you are satisfied that your system meets the requirements, then you can select the check box for the failed check to manually verify the requirement.
Summary	Review the information displayed on this screen, and then click **Finish**.
	Note: Starting with Oracle Database 11*g* 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.
Install product	This screen displays the progress of a database installation. It also shows the status information while the product is being installed. Click **Next**.
	This screen then displays the status information for the configuration assistants that configure the software and create a database. When the message is displayed after Database Configuration Assistant process, click **OK** to continue.
Finish	This screen is shown automatically when all the configuration tools are successful.
	Click **Close**.

7 Installing Oracle Database Examples

If you plan to use the following products or features, then download and install the products from the Oracle Database Examples media:

- Oracle JDBC Development Drivers

- Oracle Database Examples

- Oracle Context Companion

- Various Oracle product demonstrations

For information about installing software and various Oracle product demonstrations from the Oracle Database Examples media, see *Oracle Database Examples Installation Guide*.

8 What to Do Next?

To become familiar with this release of Oracle Database, Oracle suggests that you complete the following tasks:

- Log in to Oracle Enterprise Manager Database Control using a Web browser.

  Oracle Enterprise Manager Database Control is a Web-based application that you can use to manage a single Oracle database. The default URL for Database Control is:

  ```
  http://host.domain:port/em/
  ```

  Log in with the user name SYSMAN. Use the password that you specified for this user during the Oracle Database installation.

- See Chapter 5 of *Oracle Database Installation Guide for Microsoft Windows* for information about required and optional postinstallation tasks, depending on the components to use.

- Review Chapter 6 of *Oracle Database Installation Guide for Microsoft Windows* for information about how to get started using Oracle Database.

- Read *Oracle Database 2 Day DBA* guide, to learn more about using Oracle Enterprise Manager Database Control to administer a database.

  This guide, designed for new Oracle DBAs, describes how to use Oracle Enterprise Manager Database Control to manage all aspects of an Oracle database installation. It also provides information about how to enable e-mail notifications and automated backups, which you might not have configured during the installation.

9 Additional Information

This section contains information about the following:

- Product Licenses

- Purchasing Licenses, Version Updates, and Documentation

- Contacting Oracle Support Services

- Locating Product Documentation

Product Licenses

You are welcome to install and evaluate the products included in this media pack for 30 days under the terms of the Trial License Agreement. However, you must purchase a program license to continue using any product after the 30 day evaluation period. See the following section for information about purchasing program licenses.

> **See Also:** *Oracle Database Licensing Information*

Purchasing Licenses, Version Updates, and Documentation

You can purchase program licenses, updated versions of Oracle products from the Oracle Store Web site:

```
http://shop.oracle.com/
```

Contacting Oracle Support Services

If you have purchased Oracle Product Support, you can call Oracle Support Services for assistance 24 hours a day, seven days a week. For information about purchasing Oracle Product Support or contacting Oracle Support Services, go to the Oracle Support Services Web site:

http://www.oracle.com/support/

Locating Product Documentation

Documentation for Oracle products is available in both HTML and Adobe portable document format (PDF) formats from several locations:

- On disks in the media pack:
  - Platform-specific documentation is available on the installation media. To access the documentation, see the `welcome.htm` file located in the top-level directory of the installation media.
  - Generic product documentation is available on the Oracle Documentation Library.
- From the Oracle Technology Network Web site:

  http://www.oracle.com/technology/documentation/

To view PDF documents, download the free Adobe Acrobat Reader from the Adobe Web site, if necessary:

http://www.adobe.com/

10 Documentation Accessibility

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