

Oracle® AI Database Free Installation Guide



26ai for Microsoft Windows

G43603-02

February 2026

The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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Oracle AI Database Free Installation Guide, 26ai for Microsoft Windows

G43603-02

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Preface

This guide explains how to install and configure Oracle AI Database Free on Microsoft Windows.

This guide also provides information about resources available to develop applications and how to remove the database software.

- [Audience](#)
- [Command Syntax](#)
- [Related Documents](#)
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Audience

This guide is intended primarily for application developers who are either developing applications or converting applications to run in the Oracle AI Database environment.

Oracle AI Database Free is a free version of the world's most advanced database. Oracle AI Database Free is easy to install, easy to manage, and easy to develop with. With Oracle AI Database Free, you use an intuitive, browser-based interface to administer the database, create tables, views, and other database objects, import, export, and view table data, run queries and SQL scripts, and generate reports.

Command Syntax

Refer to these command syntax conventions to understand command examples in this guide.

Convention	Description
\$	Bourne or BASH shell prompt in a command example. Do not enter the prompt as part of the command.
%	C Shell prompt in a command example. Do not enter the prompt as part of the command.
#	Superuser (root) prompt in a command example. Do not enter the prompt as part of the command.
monospace	UNIX command syntax
backslash \	A backslash is the UNIX and Linux command continuation character. It is used in command examples that are too long to fit on a single line. Enter the command as displayed (with a backslash) or enter it on a single line without a backslash:

```
dd if=/dev/rdskc0t1d0s6 of=/dev/rst0 bs=10b \ count=10000
```

Convention	Description
braces { }	Braces indicate required items: <code>.DEFINE {macro1}</code>
brackets []	Brackets indicate optional items: <code>cvtcrt termname [outfile]</code>
ellipses ...	Ellipses indicate an arbitrary number of similar items: <code>CHKVAL fieldname value1 value2 ... valueN</code>
<i>italic</i>	Italic type indicates a variable. Substitute a value for the variable: <code>library_name</code>
vertical line	A vertical line indicates a choice within braces or brackets: <code>FILE filesize [K M]</code>

Related Documents

To help you with your development efforts, consult the books in the development category of the [Oracle AI Database documentation set](#).

For more information, see these documents in the Oracle AI Database documentation set:

- *Oracle AI Database SQL Language Reference*
- *Oracle AI Database PL/SQL Language Reference*
- *Oracle AI Database PL/SQL Packages and Types Reference*
- *Oracle AI Database JSON Developer's Guide*
- *Oracle AI Database Development Guide*
- *Oracle AI Database Administrator's Guide*
- *Oracle AI Database SecureFiles and Large Objects Developer's Guide*
- *Oracle AI Database Object-Relational Developer's Guide*
- *Oracle AI Database Concepts*
- *Oracle AI Database Sample Schemas*
- [Oracle APEX Documentation](#)
- [Application Development with Oracle AI Database](#)

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1

Introduction

Oracle AI Database Free is a fully free edition of the Oracle AI Database.

Development Environments

Oracle AI Database Free supports the following development environments:

- **Java:** Develop and deploy modern database-bound Java Web applications (Servlets), modules (Microservices) or standalone Java frameworks using the Oracle JDBC Driver, the Universal Connection Pool (UCP), and the Database-embedded JVM (for in-place, server-side processing).

Visit <https://www.oracle.com/database/technologies/appdev/jdbc.html> for more information.

- **C and C++:** Developers can use Oracle Call Interface (OCI) and Oracle C++ Call Interface (OCCI) to create high performance programs accessing Oracle AI Database Free. ODBC and the ODPI-C wrapper over OCI are also usable.

Visit <https://www.oracle.com/database/technologies/appdev/oci.html> for more information.

- **.NET and Visual Studio:** Developers can use Oracle Data Provider for .NET (ODP.NET) for C# and VB.NET data access to any Oracle AI Database. At design-time, they can use Oracle Developer Tools for Visual Studio for full development life cycle support.

Visit <https://www.oracle.com/database/technologies/appdev/dotnet.html> for more information

For walk-throughs on creating a .NET application with Oracle AI Database Free:

Visit <https://www.oracle.com/tools/technologies/quickstart-dotnet-for-oracle-database.html>

The walk-throughs cover several development scenarios, including with Visual Studio and command line.

- **Oracle SQL Developer:** Oracle SQL Developer is a graphical version of SQL*Plus that gives database developers a convenient way to perform basic tasks. You can connect to any target Oracle AI Database Free schema using standard Oracle AI Database authentication. Once connected, you can perform operations on objects in the database.

Download and install Oracle SQL Developer from:

<https://www.oracle.com/database/sqldeveloper/>

- **Oracle SQL Developer Web:** Included with Oracle REST Data Services, Oracle SQL Developer Web is the web-based version of Oracle SQL Developer that enables you to run queries and scripts, create database objects, build data models, and monitor database activity.
- **Oracle Application Express:** Oracle Application Express (APEX) is a rapid web application development tool for the Oracle AI Database.

Download and install Application Express from:

<https://www.oracle.com/database/technologies/appdev/rest.html>

- **Oracle REST Data Services (ORDS):** ORDS makes it easy to develop modern REST interfaces for relational data in the Oracle AI Database and the Oracle AI Database JSON Document Store.

Download and install ORDS from:

<https://www.oracle.com/database/technologies/appdev/rest.html>

- **SODA** (Simple Oracle Document Access) APIs that let you develop NoSQL-style applications against collections of JSON documents. Native language SODA drivers are available for common languages.

Visit <https://docs.oracle.com/en/database/oracle/simple-oracle-document-access/> for more information.

Scripting Languages

You can use **scripting languages** such as:

- **Python**

The `python-oracledb` driver is a Python programming language extension module allowing Python programs to connect to Oracle AI Database.

Visit <https://oracle.github.io/python-oracledb/> for more information.

- **Node.js**

The `node-oracledb` driver allows Node.js applications to access Oracle AI Database.

Visit <https://oracle.github.io/node-oracledb/> for more information.

- **PHP**

Access Oracle AI Database with the PHP OCI8 extension or the PDO_OCI Driver. PHP OCI8 and PDO_OCI are part of the PHP open source project.

Visit <https://www.php.net/oci8> for more information on PHP OCI8 and https://www.php.net/pdo_oci for more information on PDO_OCI.

- **Go**

Access Oracle AI Database using the open source `godror` driver.

Visit <https://pkg.go.dev/github.com/godror/godror> for more information.

- **ROracle**

ROracle is an open source R package supporting a DBI-compliant Oracle driver based on the high performance OCI library.

Visit <https://www.oracle.com/database/technologies/oracle-downloads.html> for more information about ROracle.

- **Ruby**

Build Ruby and Ruby on Rails applications using the `ruby-oci8` driver or JRuby with the Oracle Enhanced Adapter for ActiveRecord.

Visit:

– <https://www.rubydoc.info/gems/ruby-oci8/> for information about `ruby-oci8`.

– <https://www.jruby.org/> for information about JRuby.

– <https://github.com/rsim/oracle-enhanced> for information about Oracle Enhanced Adapter.

- **Rust**

The open source `rust-oracle` driver lets Rust programs access Oracle AI Database.

Visit <https://crates.io/crates/oracle> for more information.

- **Others**

Accessing Oracle AI Database Free from other languages is possible using community drivers.

Oracle Call Interface (OCI) Demonstration Programs

A set of OCI demonstration programs and their corresponding project files are available in the `demo` subdirectory of Oracle home after an Oracle AI Database Free installation.

You can run these OCI demonstration programs to familiarize yourself with the steps involved in developing OCI applications. Oracle AI Database Free does not support generating the client shared library. The build option in `demo_rdbms.mk` is not valid for Oracle AI Database Free. You can compile and link application and demo programs with the provided header files. Because the object (`.o's`) and archive (`.a's`) libraries are not available in the installed location, you cannot use `genclntsh` and `genclntst`.

Examples

You can download and install Oracle AI Database Examples in an existing Oracle home to view the product demonstrations.

See Examples Installation Guide for more information about products available on the Oracle AI Database Examples

Examples are also available from <https://github.com/oracle/oracle-db-examples>

Learn More About Oracle AI Database Free

- Oracle AI Database Free home page:

<https://www.oracle.com/database/free/>

- Oracle AI Database Free Discussion Forum:

You can search the Oracle AI Database Free Discussion Forum for answers to problems already discussed and post new questions to the community for answers.

<https://forums.oracle.com/ords/apexds/domain/dev-community/category/oracle-database-free>

2

Requirements

This section covers the following topics:

- [Software Requirements](#)
- [Permission Requirement for Installing Oracle AI Database Free](#)

Software Requirements

This section covers the following topics:

- [System Requirements](#)
- [#unique_21](#)

System Requirements

The following are the system requirements for Oracle AI Database Free for Windows x64:

Table 2-1 Oracle AI Database Free for Microsoft Windows 64-bit

Requirement	Value
Operating system general requirements	Oracle AI Database Free for Windows x64 is supported on the following operating system versions: <ul style="list-style-type: none">• Windows 10 x64 - Pro, Pro for Workstations, Enterprise, and Education editions• Windows 11 x64 - Pro, Enterprise, and Education editions• Windows Server 2016 x64 - Standard, Datacenter, and Essentials editions• Windows Server 2019 x64 - Standard, Datacenter, and Essentials editions• Windows Server 2022 x64 - Standard, Datacenter, and Essentials editions• Windows Server 2025 x64 - Standard, Datacenter, and Essentials editions
Virtualization	Oracle certifies the following virtualization technologies with Oracle AI Database on Windows: <ul style="list-style-type: none">• KVM Hypervisor• Microsoft Hyper-V• Oracle VM Server For more information on certified Hyper-V combinations and other virtualization technologies, visit https://www.oracle.com/database/technologies/virtualization-matrix.html
Disk space	8.5 GB minimum for Oracle software, plus 2 GB or more for temporary storage
RAM	2 GB RAM minimum

① See Also

For more information about Hyper-V support, see the following note (1563794.1) in My Oracle Support:

<https://support.oracle.com/rs?type=doc&id=1563794.1>

Permission Requirement for Installing Oracle AI Database Free

You must be a direct member of the Administrators group on Windows to install Oracle AI Database Free. If you are logged in as a domain user, ensure sure that you are connected to the network before you install Oracle AI Database Free.

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Licensing Restrictions

For more information on licensing details, see *Oracle AI Database Licensing Information User Manual*

This section covers the following topics:

- [Oracle AI Database Free CPU Limitations](#)
- [Oracle AI Database Free Installation and Runtime Restrictions](#)
- [Oracle AI Database Free User Data Limitations](#)
- [Oracle AI Database Free RAM Limitation](#)

Oracle AI Database Free CPU Limitations

Oracle AI Database Free limits itself automatically to two cores for processing. For example, on a computer with 2 dual-core CPUs (four cores), if a large number of database clients try to simultaneously run CPU-intensive queries, then Oracle AI Database Free will process the queries at the rate of just two cores even if more CPU capacity is available.

Oracle AI Database Free Installation and Runtime Restrictions

Oracle AI Database Free restricts itself to only one installation per logical environment. The logical environment can either be a virtual host such as a VM or container, or a physical host. If you attempt to start more than one Oracle AI Database Free installation in such a logical environment, then an ORA-00442: Oracle AI Database Free single instance violation error is displayed and your database will not start.

This does not affect any existing installation or new installations of Oracle AI Database Standard Edition 2 or Oracle AI Database Enterprise Edition.

Oracle AI Database Free User Data Limitations

The maximum amount of user data in Oracle AI Database Free cannot exceed 12 GB. If the user data grows beyond this limit, then the system displays an ORA-12954: The request exceeds the maximum allowed database size of 12 GB error.

Oracle AI Database Free RAM Limitation

The maximum amount of RAM for Oracle AI Database Free cannot exceed 2 GB, even if more is available.

Related Topics

- Database Memory Management Methods

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Installing Oracle AI Database Free

This section covers the following topics:

- [Authenticated Users Group Restriction for Oracle AI Database Free Installations on Windows](#)
- [Running the Installer](#)
- [Performing a Silent Installation](#)

Authenticated Users Group Restriction for Oracle AI Database Free Installations on Windows

On Microsoft Windows, there is a requirement that the directory where you install Oracle AI Database Free 26ai, and any of its parent directories other than the root directory, (for example, C:\) cannot be modified by the **Authenticated Users** group.

Oracle recommends that you accept the default installation location provided during the installation or enter an installation path consisting of directories that do not exist yet. The installer will create these directories for you with the permissions set correctly.

Alternatively, you may provide an installation location consisting of existing directories and allow the installer to change the permissions on these directories, removing access by the **Authenticated Users** group. You should only allow the installer to change permissions on existing directories if you are sure that this will not impact other applications using these directories.

For more information, see step 8 in [Running the Installer](#).

Note

- This restriction applies to the Authenticated Users group which cannot have the `modify` (Write/Rename/Delete) access on these directories. Administrators who are members of that group will still be able to install.
- Non-server Windows operating systems, for example Windows 11, have `modify` access granted by default to the Authenticated Users group for directories created under C:\

Manually Changing Permissions on Installation Directories

As the installer can create directories with the correct permissions or change permissions on existing directories, it is not required that you change the permissions yourself. However, if you wish to change the permissions, you may perform these steps:

1. Disable the inheritance of the top directory in the path.

```
C:\> icacls c:\dbfree /inheritancelevel:d
```

Note

It is not necessary to perform this command on every directory in the path:

2. Remove the **Authenticated Users** permissions from each directory in the path:

```
C:\> icacls c:\dbfree /remove:g *s-1-5-11
C:\> icacls c:\dbfree\mydb /remove:g *s-1-5-11
```

Checking the Permissions of Your Directories

To check the permissions of the directories in the path where you want to install Oracle AI Database Free, perform one of the following steps for each directory in the path:

1. Run the `icacls` utility to check the permissions of the directory. For example: `C:\> icacls c:\dbfree`
2. In File Explorer, right-click the directory and select the **Security** tab.

If you see that the **Authenticated Users** group can modify any of the directories in the path other than the root directory (for example, `C:\`), then you will not be able to install Oracle AI Database Free in that directory.

Running the Installer

Most users will install Oracle AI Database Free by downloading the installation package, extracting the files, double-clicking `setup.exe`, and answering graphical user interface prompts as needed.

Note

- Before attempting to install Oracle AI Database Free 26ai, uninstall any existing Oracle Database XE or Oracle Database Free or database with the `SID_XE` or `FREE` from the target system.
- The installer will use `SID_FREE` for database creation. Any `SID` other than `SID_FREE` will not be allowed.

To install Oracle AI Database Free:

1. Log on to Windows with **Administrator** privileges.
You must be a direct member of the `Administrators` group on Windows to install Oracle AI Database Free. If you are logged in as a domain user, ensure that you are connected to the network. Otherwise, you may receive a prerequisite check failure for `Administrator` privileges during the install.
2. If the `ORACLE_HOME` or `TNS_ADMIN` environment variables have been set, then delete them.
3. Download the Microsoft Windows version of Oracle AI Database Free.
4. Extract the downloaded `zip` file to a temporary location. Locate `setup.exe` and double click it. The installation of the prerequisites will take place, if applicable, to the environment.
5. In the **Welcome to the InstallShield Wizard for Oracle AI Database 26ai Free** window, click **Next**.

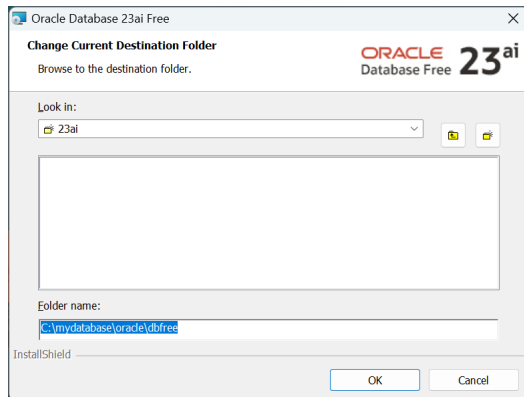
6. In the **License Agreement** window, read the text of the agreement and if you agree to its terms, select **I accept the terms in the license agreement** and then click **Next**. If you do not accept the terms, cancel the installation and delete the Oracle AI Database 26ai Free software from the computer.
7. The installer now performs a prerequisite check to ensure that:
 - the version and edition of Windows is supported
 - the environment variables `ORACLE_HOME` and `TNS_ADMIN` are not set
 - the installation user is a direct member of the Administrators group
 - there is no Oracle AI Database Free or Oracle AI Database Express Edition service already created

If any of these checks fail, a **Prerequisite Checks** window will open notifying the user. In that case, cancel the installation, fix the problem, and retry the installation.

Prerequisite Check	Details
Windows Version	See, System Requirements .
Windows Edition	Windows Home Edition is not supported.
Install Environment Variables	<code>ORACLE_HOME</code> and <code>TNS_ADMIN</code> environment variables must not be set. These environment variables must be temporarily unset at the system level (unsetting them in a command prompt is not sufficient).
Pre-existing Oracle Database Free or Oracle Database Express Edition Service	There must not be an existing Oracle Database Free or Oracle Database Express Edition Service on this machine.
User Administrative Privileges	The current user must be a direct member of the Administrators group. Indirect membership of the Administrators group (e.g. when a user is a member of a group and that group is a member of Administrators), or running the installer "as administrator" is not sufficient. If you are logged in as a domain user, make sure you are on a network that can reach the domain server. For example, if you must use a VPN to reach your domain server, make sure to enable your VPN before beginning the installation. If you cannot connect to a network that can reach the domain server, you can instead create a local user and add that user to the local Administrators group. Then you can log in and install as that local user.

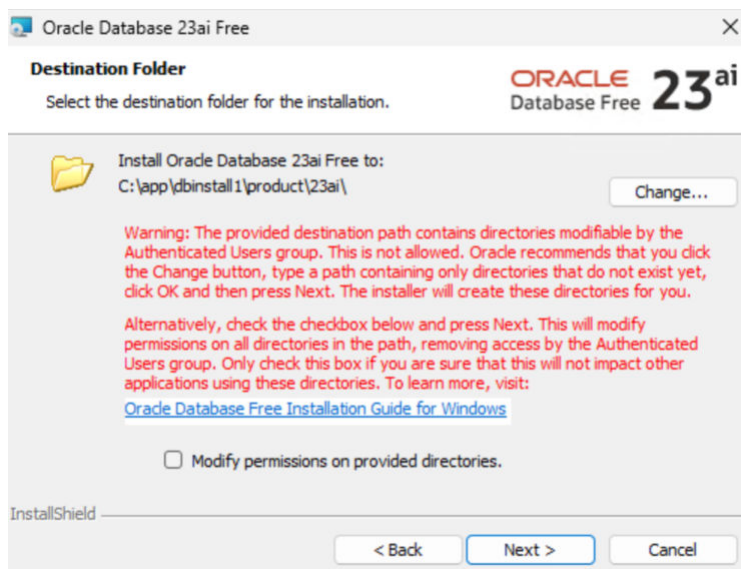
8. In the **Destination Folder** window, either accept the default location or click **Change** and type a path containing directories that do not exist yet into the **Folder Name** field in the **Change Current Destination Folder** dialog box. This allows the installer to create the directories for you. Do not use the **Create New Folder** icon in the **Change Current Destination Folder** dialog box. You may also select an existing installation directory. However, do not select a directory that has spaces in its name. Click **Next**.

Figure 4-1 Change Current Destination Folder Dialog Box



On Microsoft Windows, there is a requirement that the directory where you install Oracle AI Database Free 26ai, and any of its parent directories cannot be modified by the **Authenticated Users** group. If you chose an existing directory and do not meet this requirement, the following warning screen appears:

Figure 4-2 Warning Screen



If you see this message, Oracle recommends that you click **Change** and type a path containing directories that do not exist yet in the **Folder Name** field in the **Change Current Destination Folder** dialog box. This allows the installer to create the directories for you with the correct permissions. Do not use the **Create New Folder** icon in the **Change** dialog box as it will not create folders with the proper permissions.

Alternatively, select the **Modify permissions on provided directories** checkbox and click **Next**. The installer changes the permissions on the existing directories, removing access by the **Authenticated Users** group. Select this checkbox only if you are sure that changing the permissions will not impact other applications that use these directories.

Note

If you wish to check directory permissions or set the permissions manually see [Authenticated Users Group Restriction for Oracle AI Database Free Installations](#) for more details.

9. In the **Oracle AI Database Information** window, enter and confirm the single database password to use for the SYS, SYSTEM, and PDBADMIN database accounts. Then click **Next**.

Note

The same password will be used for these accounts. The password should conform to the Oracle recommended standards. See *Oracle AI Database Security Guide* for more information about guidelines for securing passwords.

10. In the Summary window, review the installation settings, and if you are satisfied, click **Install**. Otherwise, click **Back** and modify the settings as necessary.
11. When the installation is complete, the **Oracle AI Database Installed Successfully** window is displayed.

Make a note of the connection strings provided for multitenant container database and the pluggable database. Click **Finish** to close the installer.

Configuration, Database Files, and Logs Location

The following table lists important locations such as Oracle Base, Oracle Home, Database files, and logs. <INSTALL_DIR> is the installation directory chosen by you during the time of install. The default installation directory is C:\app\\product\26ai, where <username> is the name of the Windows user performing the installation.

Table 4-1 Configuration, Database Files and Logs Location

File Name and Location	Purpose
<INSTALL_DIR>	Oracle Base This is the root of the Oracle AI Database Free directory tree.
<INSTALL_DIR>\dbhomeFree	Oracle Home This home is where the Oracle AI Database Free is installed. It contains the directories of the Oracle AI Database Free executables and network files.
<INSTALL_DIR>\oradata\Free	Database files
<INSTALL_DIR>\diag\rdbms\free\free\trace	D diagnostic logs The database alert log is <INSTALL_DIR>\diag\rdbms\free\free\trace\alert_free.log
<INSTALL_DIR>\cfgtoollogs\	Database installation, creation, and configuration logs. The <INSTALL_DIR>\cfgtoollogs\dbca\Free\Free.log file contains the results of the database creation script execution.
%Program Files%\Oracle\Inventory\logs	Software installation logs.

Performing a Silent Installation

If you plan to install Oracle AI Database Free on multiple computers or bundle it with a third-party application, then you may want to perform a silent installation, in which you download the installation file and run it at a command line using the provided response files.

If you have an existing version of Oracle AI Database Free, you can save your data by exporting it to data files. After you install the new version of Oracle AI Database Free, you can import this data into the new database.

To perform a silent installation of Oracle AI Database Free:

1. Log on to Windows with Administrator privileges.
You must be part of the `Administrators` group on Windows to install Oracle AI Database Free. If you are logged in as a domain user, ensure that you are connected to the network.
2. Download Oracle AI Database Free for Microsoft Windows. Extract the files to a temporary directory.
3. Open the `FREEInstall.rsp` response file and modify the settings if necessary.

Note

For information on response file parameters, see [Table 4-2](#).

4. If the `ORACLE_HOME` environment variable has been set, then delete it.
5. Run the installation file with the `FREEInstall.rsp` response file.

For example, if you extracted the `setup.exe` file and the `FREEInstall.rsp` file to a directory called `free_temp`, you would enter the following command:

```
c:\free_temp> setup.exe /s /
v"RSP_FILE=c:\free_temp\response\FREEInstall.rsp" /v"/L*v
c:\free_temp\setup.log" /v"/qn"
```

After the installation is complete, Oracle AI Database Free starts.

Response File Parameters

The following table describes the important response file parameters. The parameter value cannot be empty. You must specify a valid value for the parameters.

Table 4-2 Response File Parameters

Parameter	Purpose	Default Value
INSTALLDIR	The install directory location. Replace [USERNAME] with current user.	INSTALLDIR=C:\app\ e>\product\26ai
PASSWORD	The Oracle AI Database Free password. All users are set with this password. Reset the password immediately after the installation is complete.	PASSWORD=passwordvalue

Table 4-2 (Cont.) Response File Parameters

Parameter	Purpose	Default Value
LISTENER_PORT	The listener port.	LISTENER_PORT=0 If listener port is set to 0, available ports will be automatically allocated starting from 1521.
CHAR_SET	The character set of the database.	CHAR_SET=AL32UTF8
DB_DOMAIN	Specify the database domain name for the database unique name specification.	
SOFTWARE_ONLY	For software-only installations, specify SOFTWARE_ONLY=TRUE. This is required for True Cache configurations.	SOFTWARE_ONLY=FALSE
MODIFY_DIRECTORY_PERMISSIONS	Specify MODIFY_DIRECTORY_PERMISSIONS=TRUE if the installer should modify the directory permissions when the ACL is incorrect. When you provide an installation path containing directories that have permissions for the Authenticated Users group, then the silent installation fails. By modifying this flag to TRUE, the installer changes the permissions on the existing directories, removing access by the Authenticated Users group. Note: Specify MODIFY_DIRECTORY_PERMISSIONS=TRUE if you see the following message in the log file. SEVERE: The provided destination folder is under a directory that is modifiable by Authenticated users. Specify a path that is not modifiable by Authenticated Users. See Authenticated Group Restriction for Oracle AI Database Free Installations for more details.	MODIFY_DIRECTORY_PERMISSIONS=FALSE

Note

After the installation is successfully completed, the following message is available in the log file that you have specified as the parameter to `setup.exe`. For example, `c:\free_temp\setup.log`:

```
MSI (c) (28:B8) [Timestamp]: Windows Installer installed the product. Product Name:
Oracle AI Database 26ai Free Release. Product Version: 23.26.0.0.0. Product
Language: [Current Language ID]. Manufacturer: Oracle Corporation. Installation
success or error status: 0.
```

Since silent install runs asynchronously, you can check the log file for the completion status.

If the installation fails, see the following installation log files:

- general logs: located at `%Program Files%\Oracle\Inventory\logs`
- database creation logs: located at `Oracle_base\cfgtoollogs`

5

Configuring True Cache on Oracle AI Database Free

To configure True Cache on Oracle AI Database Free, set up Oracle AI Database Free on the primary node and then configure True Cache in another True Cache node.

- [Licensing for True Cache](#)
- [Set Up Oracle AI Database Free Primary Database](#)
- [Configuring Oracle AI Database Free True Cache](#)

Licensing for True Cache

True Cache licensing is based on the edition of Oracle AI Database that you're using for both the primary database and True Cache.

See [Permitted Features, Options, and Management Packs by Oracle AI Database Offering](#) in the *Oracle AI Database Licensing Information User Manual*.

Set Up Oracle AI Database Free Primary Database

Before you configure Oracle AI Database Free True Cache, install and set up the Oracle AI Database Free primary database on the primary node.

To set up Oracle AI Database Free primary database:

1. Install Oracle AI Database Free using the interactive or silent mode. See, [Installing Oracle AI Database Free](#).
2. Ensure that a primary database is running on the primary node in archive logging (ARCHIVELOG) mode.

The primary database must be in ARCHIVELOG mode to ship redo log files to the True Cache node. Oracle DBCA verifies that the primary database is in ARCHIVELOG mode.

If the primary database is not in ARCHIVELOG mode, restart it in mount mode, run the ALTER DATABASE ARCHIVELOG command, and open the primary database again.

Note

Don't set LOG_ARCHIVE_CONFIG and LOG_ARCHIVE_DEST_n on the primary database. True Cache automatically configures these for the primary database.

Configuring Oracle AI Database Free True Cache

After you set up the primary database, configure Oracle AI Database Free True Cache on the True Cache node.

To configure Oracle AI Database Free True Cache:

1. Install the Oracle AI Database Free software using one of the following methods in silent mode:

- a. Using command-line interface:

```
setup.exe /s /v"/L*v c:\free_temp\setupsw.log" /v"/qn
INSTALLDIR=C:\app\\product\26ai\ SOFTWARE_ONLY=TRUE"
```

- b. Using Response file:

- i. Open the `FREEInstall.rsp` response file and modify the following settings:

```
INSTALLDIR=C:\app\\product\26ai\
SOFTWARE_ONLY=TRUE
```

- ii. Run the installation file with the `FREEInstall.rsp` response file. For example, if you extracted the `setup.exe` file and the `FREEInstall.rsp` file to a directory called `free_temp`, you would enter the following command:

```
setup.exe /s /
v"RSP_FILE=C:\free_temp\response\FREEInstall.rsp" /v"/L*v
c:\free_temp\setupsw.log" /v"/qn"
```

Note

Do not create and configure the database on the True Cache node.

2. Copy the password file
`C:\app\\product\26ai\dbhomeFree\database\PWDFREE.ora` from the primary database node to the True Cache node to a temp location
`C:\temp\PWDFREE.ora`.

3. Run Oracle DBCA to complete the True Cache configuration.

```
dbca.bat -silent -createTrueCache -gdbName FREE -sourceDBConnectionString
Primary DBNode:1521/FREE -passwordFileFromSourceDB C:\temp\PWDFREE.ora
```

Enter the password for the Oracle AI Database Free primary database.

```
Enter Remote DB SYS user password:
password
```

4. To configure database application services for True Cache, see [Create Database Application Services on the Primary Database](#)
5. To verify the True Cache configuration, see [Verifying the True Cache Configuration](#)

Related Topics

- [Using Oracle True Cache in Your Applications](#)

6

Connecting to Oracle AI Database Free

Connecting Locally using OS Authentication

When you install Oracle AI Database Free, your Windows user is automatically added to the `ORA_DBA` operating system group, which grants you the `SYSDBA` privileges. You can use the following commands to connect to the database. In the commands, replace "`oracle_home`" with the path to your Oracle Home; see [Table 4-1](#) for more details about the Oracle Home:

```
cd oracle_home\bin
sqlplus / as sysdba
```

These commands connect you to the root container `CDB$ROOT` of the multitenant database (CDB) as database user `SYS`. This method of connecting to the database works even if the Net Services listener is not running.

Connecting to Oracle AI Database Using Easy Connect Naming Method

You can connect to the database using the following Easy Connect strings:

- Multitenant container database: `host[:port]`
- Pluggable database: `host[:port]/service_name`

`FREEPDB1` is the service name defined for the first PDB created by default. You can replace `FREEPDB1` with the name of another PDB you want to connect to.

Specifying the port is optional when the listener is setup with the default port 1521. You must specify the port number if you use another port.

Connection strings for local connections were provided on the final screen of the install. If you are connecting from a remote computer, you need to provide the hostname (where Free is installed) instead of localhost.

Please note that, Net Services database listener must be running on the database host on the specified port for the connections to succeed.

For example, you can connect to the root container of the database from a client computer with SQL*Plus using the following commands:

```
cd oracle_home\bin
sqlplus system@dbhost.example.com:1521
```

You can connect to the default pluggable database `FREEPDB1` using the following commands:

```
cd oracle_home\bin
sqlplus system@dbhost.example.com:1521/FREEPDB1
```

Replace `dbhost.example.com` with your database host name. If needed, replace 1521 with the port number the listener listens on. You can replace `FREEPDB1` with the name of another PDB you want to connect to.

To shorten connect strings or to avoid hardcoding host name and port in application code and DBA scripts, you can define an alias for the connect string in the configuration file `oracle_base_home\network\admin\tnsnames.ora` on database clients. See [Configuring the Local Naming Method](#) for more details.

Net Services Listener and Default Services

The Net Services database listener for Oracle AI Database Free allows you to connect to the database over TCP/IP from the same machine or other machines on the network. The configuration of the Listener can be viewed using the following commands run from the command prompt:

```
cd oracle_home\bin
lsnrctl status

Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=dbhost.example.com)(PORT=1521)))
STATUS of the LISTENER
-----
Alias                LISTENER
Version              TNSLSNR for Linux: Version 23.26.0.0.0 - Development
Trace Level          off
Security              ON: Local OS Authentication
SNMP                 OFF
Default Service      FREE
Listener Parameter File C:\install_dir\dbhomeFree\network\admin\listener.ora
Listener Log File    C:\install_dir\diag\tnslnsr\dbhost\listener>alert\log.xml
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=dbhost.example.com)(PORT=1521)))
  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=EXTPROC1521)))
Services Summary...
Service "dbhost.example.com" has 1 instance(s).
  Instance "FREE", status READY, has 1 handler(s) for this service...
Service "FREE.dbhost.example.com" has 1 instance(s).
  Instance "FREE", status READY, has 1 handler(s) for this service...
Service "FREEEXDB.dbhost.example.com" has 1 instance(s).
  Instance "FREE", status READY, has 1 handler(s) for this service...
Service "freepdb1.dbhost.example.com" has 1 instance(s).
  Instance "FREE", status READY, has 1 handler(s) for this service...
The command completed successfully
```

The output from the `lsnrctl` command shows values of a number of important parameters:

- the port the listener listens on
- the list of services registered with the listener
- the name of the configuration file used by the listener
- the name of the log file

You specify a service when connecting to the database through the listener. The default services created by Oracle AI Database Free are `FREE` and `FREEPDB1`. The `FREE` service connects you to the root container of the database (`CDB$ROOT`) and the `FREEPDB1` service connects you to the default pluggable database (`FREEPDB1`) created at the installation time. For each new pluggable database (PDB) in the database, there will be a new default service created with the same name as the PDB.

Note

If the Oracle AI Database Free instance is shut down, the `lsnrctl status` command does not show any services you can connect to.

Related Topics

- [Connection Strategies for Database Applications](#)

- Understanding Oracle Net Services
- Multitenant Architecture

7

Starting and Stopping Oracle AI Database Free

After you have installed Oracle AI Database Free, the database is up and running and you can begin using it right away.

The Oracle AI Database service must be running and the database must be started and opened prior to use.

By default, when the Oracle AI Database service is started, the container database is started and opened, but any pluggable databases must be opened before use. See below for a command to automatically open pluggable databases when the Oracle service starts.

Starting Up and Shutting Down Using Windows Services

The Oracle AI Database service must be started prior to accessing the database. By default, the Oracle AI Database Service will automatically startup and open the container database. Pluggable databases will remain closed by default and must be opened manually or set to automatically open.

You can start or stop the database using Windows **Services**:

1. From the **Start** menu, enter `services.msc` in the search field and press **Enter**.
2. Locate the `OracleServiceFREE` service in the **Services** window.
3. Right-click the service name, and from the menu, select **Start** or **Stop**.
4. To set its startup properties, right-click and select **Properties**, and in the dialog box, select either **Automatic**, **Manual**, or **Disabled** from the **Startup** type list.

Note

To control connections to the database from the network, you can start or stop the Net Services listener. The listener runs as a service with the name `OracleOraDB26Home<n>TNSListener`, where `<n>` is a number chosen by the Oracle AI Database Free to control the listener service similar to the database service as described above.

Starting Up and Shutting Down Using SQL*Plus

You can shut down and start the database using SQL*Plus.

To shutdown the database issue the following SQL*Plus commands:

```
cd oracle_home\bin
sqlplus / as sysdba
SQL> SHUTDOWN IMMEDIATE
```

To start the database, issue the commands:

```
SQL> STARTUP
SQL> ALTER PLUGGABLE DATABASE ALL OPEN;
```

Setting Pluggable Databases to Automatically Open

The default pluggable database FREEPDB1 will open automatically when the container database opens, such as when Windows is rebooted and the FREE service starts. It will not need to be opened manually using the SQL provided above.

Other pluggable databases can be set to automatically open when the container database opens by connecting to the container database via SQL*Plus (as above), and issuing the following SQL:

```
SQL> ALTER PLUGGABLE DATABASE ALL OPEN;
SQL> ALTER PLUGGABLE DATABASE ALL SAVE STATE;
```

Note

If additional pluggable databases are created, these commands will need to be reissued.

Related Topics

- *Oracle Multitenant Administrator's Guide*
- *Oracle AI Database Administrator's Guide*

8

Moving from Previous Versions of Oracle Database XE to Oracle AI Database Free

This section explains how to export data from Oracle Database Express Edition XE 21c and import to Oracle AI Database 26ai Free.

Note these points before you start the export and import process:

- You cannot use Oracle Database Upgrade Assistant (Oracle DBUA) to perform an upgrade.
- You cannot use Oracle Database Configuration Assistant (Oracle DBCA) to plug PDBs of previous versions to Oracle AI Database Free.
- Oracle Database 18c XE users must first move to 21c XE (See, [Moving from Previous Versions of Oracle Database XE to XE 21c](#)), and then export data from 21c XE to import them into Oracle AI Database 26ai Free.

Exporting and Importing Data between Oracle Database 21c XE and Oracle AI Database 26ai Free

Learn how to export and import data between Oracle Database 21c Express Edition (XE) and Oracle AI Database 26ai Free.

Exporting Data

To export data from your 21c XE database:

1. Create a `C:\Temp\dump1` directory for the `DUMP_DIR` directory object.

```
mkdir C:\Temp\dump1
```

2. Perform the following steps for each pluggable database (PDB). The steps in this section are for the PDB `xepdb1`.

- a. Set the `ORACLE_HOME` and `ORACLE_SID` environment variables.

```
set ORACLE_SID=XE
set ORACLE_HOME=C:\oldexpxe\dbhomeXE
```

- b. Connect to the 21c XE database as user `SYS` using the `SYSDBA` privilege, and switch the container to `xepdb1`.
- c. Create the directory object `DUMP_DIR` and grant `READ` and `WRITE` privileges on the `DUMP_DIR` directory to the `SYSTEM` user.

```
SQL> ALTER SESSION SET CONTAINER=xepdb1;
SQL> CREATE DIRECTORY DUMP_DIR6 AS 'C:\TEMP\dump1';
SQL> GRANT read, write ON DIRECTORY DUMP_DIR6 TO SYSTEM;
```

- d. Export data from your 21c XE PDB `xepdb1` to the dump folder.

```
%ORACLE_HOME%/bin/expdp system/system_password@dbhost.example.com:1521/
xepdb1 full=Y directory=DUMP_DIR6 dumpfile=DB10G.dmp
logfile=expdpDB10G.log
```

```
OUTPUT:Master table "SYSTEM"."SYS_EXPORT_FULL_01" successfully loaded/
unloaded
*****
*****
Dump file set for SYSTEM.SYS_EXPORT_FULL_01 is:
C:\TEMP\DUMP1\DB10G.DMP
Job "SYSTEM"."SYS_EXPORT_FULL_01" successfully completed at .*
```

Note

- Replace `dbhost.example.com` with your database host name. If required, replace 1521 with the port number the listener listens on.
- The default PDB name created is `xepdb1` in 21c and `freepdb1` in 26ai.

3. Deinstall Oracle Database 21c XE if you plan to install 26ai Free on the same system. See, [Deinstalling Oracle Database XE](#) for more information.
4. Install Oracle AI Database 26ai Free.

Importing Data

To import data to your Oracle AI Database 26ai Free, perform the following steps for each PDB. The steps in this section are for importing data from PDB `xepdb1` to `freepdb1`.

1. Set the `ORACLE_HOME` and `ORACLE_SID` environment variables.

```
set ORACLE_SID=FREE
set ORACLE_HOME=C:\newimpfree\dbhomeFree
```

2. Connect to the 26ai Free database as user `SYS` using the `SYSDBA` privilege and switch the container to `freepdb1`.
3. Create the directory object `DUMP_DIR` and grant `READ` and `WRITE` privileges on the `DUMP_DIR` directory to the `SYSTEM` user.

```
SQL> ALTER SESSION SET CONTAINER=freepdb1;
SQL> CREATE DIRECTORY DUMP_DIR6 AS 'C:\Temp\dump1';
SQL> GRANT read, write ON DIRECTORY DUMP_DIR6 TO SYSTEM;
```

4. Import data to the 26ai Free PDB `freepdb1` from the dump folder created during the export operation.

```
%ORACLE_HOME%/bin/impdp system/system_password@dbhost.example.com:1521/
freepdb1 full=Y directory=DUMP_DIR6
dumpfile=DB10G.dmp logfile=impdb26ai_freepdb1.log
```

Note

- Replace `dbhost.example.com` with your database host name. If required, replace `1521` with the port number the listener listens on.
- The default PDB name created is `xepdb1` in 21c and `freepdb1` in 26ai.

Ignore the following errors:

- ORA-31684: Object type TABLESPACE:"UNDOTBS1" already exists
- ORA-31684: Object type TABLESPACE:"TEMP" already exists
- ORA-31684: Object type TABLESPACE:"USERS" already exists
- ORA-39083: Object type PROC_SYSTEM_GRANT failed to create with error:
- ORA-29393: user EM_EXPRESS_ALL does not exist or is not logged on

Failing sql is:

```
BEGIN
dbms_resource_manager_privs.grant_system_privilege(grantee_name =>
'"EM_EXPRESS_ALL"', admin_option => TRUE);COMMIT; END;
ORA-31684: Object type DIRECTORY:"DUMP_DIR6" already exists
```

9

Deinstalling Oracle AI Database Free

If you want to save your data files but remove the Oracle AI Database Free software and database, then first export the data before you deinstall.

Caution

When you deinstall Oracle AI Database Free, all components, including data files, the database, and the software, are removed.

Because the deinstallation process removes all files from the directory in which Oracle AI Database Free is installed, back up any files from the directory (if needed) before you deinstall. The database will no longer be operational after deinstallation.

You can deinstall Oracle AI Database Free using one of the following methods:

- Deinstalling Using User Interface
- Deinstalling Using Silent Mode

Note

Oracle recommends that you follow the deinstall procedure described in the deinstall section. If you have deinstalled Oracle AI Database Free using `ORACLE_HOME\deinstall\deinstall.bat` utility, run the following command to remove Oracle AI Database Free completely: `msiexec /qn /x {C220B7FD-3095-47FC-A0C0-AE49DE6E320A}`

Deinstalling Using User Interface

Use **Add or Remove Programs** to deinstall Oracle AI Database Free:

1. In the Windows Control Panel, select **Add or Remove Programs**.
2. Select **Oracle AI Database 26ai Free**.
3. Click **Uninstall**.
4. Follow the prompts to deinstall Oracle AI Database 26ai Free. After few minutes, the window will close and the deinstallation will be complete.

Alternatively, you can use following `msiexec` command to perform the deinstall:

```
msiexec /x {C220B7FD-3095-47FC-A0C0-AE49DE6E320A}
```

Deinstalling Using Silent Mode

If the downloaded software is available, you can use `setup.exe` to deinstall Oracle AI Database Free.

For example, if you downloaded and extracted the files to a directory called `free_temp`, enter the following command to deinstall Oracle AI Database Free:

```
c:\free_temp> setup.exe /s /x /v"/qn /Lv c:\test1.log"
```

If you do not have the downloaded software (`setup.exe`) you can deinstall using:

```
msiexec /qn /x {C220B7FD-3095-47FC-A0C0-AE49DE6E320A}
```

You can replace `/qn` with `/qb` to display the progress bar.

Note

- Silent deinstall runs asynchronously; you can check the log file for the completion status.
- After the deinstall is successfully completed, the following message is available in the log file: MSI (s) (8C:C4) [Timestamp]: Windows Installer removed the product. Product Name: Oracle AI Database 26ai Free Release. Product Version: 23.26.0.0.0. Product Language: [Current Language ID]. Manufacturer: Oracle Corporation. Removal success or error status: 0.

10

Reporting Security Vulnerabilities

If you find any security vulnerabilities with Oracle AI Database Free, then email a description of the issue to Oracle at secalert_us@oracle.com.

Include the following information in your email:

- A complete description of the problem.
- The version of Oracle AI Database Free you are using.
- The platform on which you are running Oracle AI Database Free.
- Any scripts or examples that may be helpful in tracking down the security problem.

11

Globalization Support

Oracle AI Database Free is configured by default to be able to process character data in all supported languages simultaneously:

- The database is created with the Unicode AL32UTF8 character set. AL32UTF8 is the recommended database character set suitable for storing data in practically any language. Multiple languages can be mixed even in a single character value. While not a recommended option, you can create the database with another supported database character set by calling `setup.exe` from the Command Prompt as follows:

```
setup.exe /v"CHAR_SET=<character_set>"
```

where `<character_set>` is the desired database character set. Supported database character sets are listed in tables A-4 and A-6 in Appendix A of the Database Globalization Support Guide. Character sets from Table A-4 are preferred over character sets from Table A-6 because of more comprehensive character repertoires.

- Oracle AI Database Free supports the same globalization features that Oracle AI Database Enterprise Edition (EE) provides.

Setting Language and Locale Preferences for Client Connections

Configure client applications connecting to an Oracle AI Database according to your locale preferences and your I/O device character set.

You must configure client applications connecting to an Oracle AI Database according to your locale preferences and your I/O device character set. If your applications do not have their own specific methods to configure locale preferences, then the method you use to configure an Oracle AI Database client connection depends on the access API you use to connect to the database. Check your application documentation before you configure locale preferences for your applications.

For applications that connect to Oracle AI Databases using Oracle Call Interface (OCI), use `NLS_LANG` and other client settings with names that start with `NLS_` to set the locale conventions and client character set for Oracle AI Database sessions. It is important that you set the character set part of the `NLS_LANG` value properly. The Oracle character set whose name you set in `NLS_LANG` must correspond to the character encoding used by your I/O devices. For Linux, it is the character encoding of the terminal or terminal emulator, and usually corresponds to what the `locale` command reports. For Microsoft Windows, it is either the ANSI Code Page (for GUI applications), such as WE8MSWIN1252, or the OEM Code Page (for Console mode applications), such as US8PC437. By doing this, the OCI API is notified about the character set of data that it receives from the application. OCI can then convert this data correctly to and from the database character set.

You can specify `NLS_LANG` and the other NLS settings as environment variables. On Microsoft Windows, you can also specify them as Registry settings. Environment variable values take precedence over Registry values.

Oracle Universal Installer sets a default value for the `NLS_LANG` setting in Registry when it creates a new Oracle home on Microsoft Windows. The `NLS_LANG` value is based on the

language of the Windows user interface, which is the language of Windows menu items and dialog box labels. The installer does not set NLS_LANG on Linux and other UNIX system-based operating systems.

 **Caution**

Failure to set the client character set correctly can cause data loss.

Java applications that connect to Oracle AI Databases by using Oracle JDBC do not use NLS_LANG. Instead, Oracle JDBC maps the default locale of the Java VM in which the application runs to the Oracle AI Database language and territory settings. Oracle JDBC then configures the connected database session using these settings. Because Java works internally in Unicode, the client character set is always set to Unicode. Unless an application explicitly changes it, the default locale of the Java VM is set based on the locale of the user operating system on which the Java VM runs. Check your Java VM documentation for information about configuring the Java VM default locale.

 **Note**

In 3-tier architecture deployments, application servers that are database clients can have settings in their configuration files that specify the NLS_LANG value or the Java VM locale. Check the documentation accompanying these servers.

 **See Also**

Oracle AI Database Globalization Support Guide for more information about configuring user locale preferences