Oracle® Fusion Middleware
Installing Oracle JDeveloper
12c (12.2.1)
E60735-04

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Documentation for installers and application developers that explains how to install Oracle JDeveloper on various operating systems.
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### A Silent Installation and Deinstallation of Oracle JDeveloper

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This document describes how to install Oracle JDeveloper.

**Audience**

This guide is intended for application developers who want to develop Java applications using JDeveloper. It is assumed that readers are familiar with Web technologies and have a general understanding of Windows and UNIX platforms.

**Related Documents**

For more information, see the following documents in the Oracle Fusion Middleware library:

- *Planning an Installation of Oracle Fusion Middleware*
- *Oracle Fusion Middleware System Requirements and Specifications*
- *Installing and Configuring Oracle WebLogic Server and Coherence*
- *Developing Fusion Web Applications with Oracle Application Development Framework*

**Conventions**

The following text conventions are used in this document:

<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>boldface</strong></td>
<td>Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.</td>
</tr>
<tr>
<td><em>italic</em></td>
<td>Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.</td>
</tr>
<tr>
<td>monospace</td>
<td>Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.</td>
</tr>
</tbody>
</table>
Preparing to Install Oracle JDeveloper

To prepare for your Oracle JDeveloper installation, understand what’s new in this release, verify that your system meets the basic requirements, then obtain the correct installation software.

**Introducing Oracle JDeveloper**
Oracle JDeveloper provides an extremely productive development environment that covers the full development life cycle and integrates features addressing the multitude of technologies used for building standard-based enterprise applications.

**Roadmap for Installing Oracle JDeveloper**
This roadmap provides all the steps required to install Oracle JDeveloper.

**Verifying the Oracle JDeveloper Certification Information**
Before you install Oracle JDeveloper, you should understand compatibility with other certified software.

**Verifying System Requirements**
Before you install Oracle JDeveloper, you should understand the system requirements.

**Understanding and Obtaining the Oracle JDeveloper Distributions**
Oracle JDeveloper is available in two distinct distributions: Oracle JDeveloper Studio and Oracle JDeveloper Java.

**Deploying and Testing Applications Developed in Oracle JDeveloper**
With the Oracle JDeveloper Studio distribution, you can test your applications locally in an embedded version of Oracle WebLogic Server that contains the required libraries and Oracle ADF runtime software.

### 1.1 Introducing Oracle JDeveloper
Oracle JDeveloper provides an extremely productive development environment that covers the full development life cycle and integrates features addressing the multitude of technologies used for building standard-based enterprise applications.

Some of the salient features of Oracle JDeveloper are:

- Integrates development features for Java, SOA, Web 2.0, Database, XML and Web services into a single development tool.
- Covers the full development life cycle from initial design and analysis, through the coding and testing phases, all the way to deployment.
- Focuses on increasing developers productivity by offering a visual and declarative approach to application design that provide a simpler way to define the
components that construct an application, thereby simplifying and eliminating tedious coding.

- Integrates the full set of features needed for developing composite applications with specific features that address technologies such as Java, Database, web page designing, Web Services and XML, Fusion Middleware, and others.

**Note:** This release of JDeveloper requires Java SE Development Kit (JDK) 8.

### 1.2 Roadmap for Installing Oracle JDeveloper
This roadmap provides all the steps required to install Oracle JDeveloper.

#### Table 1-1 Roadmap for Installing Oracle JDeveloper

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Verify your system environment</td>
<td>Before beginning the installation, verify that the minimum system and network requirements are met.</td>
<td>See Verifying the Oracle JDeveloper Certification Information and Verifying Your System Requirements for Installing Oracle JDeveloper</td>
</tr>
<tr>
<td>Obtain the appropriate software distribution</td>
<td>To install Oracle JDeveloper on your system, obtain an Oracle JDeveloper distribution.</td>
<td>See Understanding and Obtaining the Oracle JDeveloper Distributions</td>
</tr>
<tr>
<td>Install the software</td>
<td>Run the Oracle Universal Installer to install Oracle JDeveloper. Installing JDeveloper transfers the software to your system and creates the Oracle home directory.</td>
<td>See Installing Oracle JDeveloper</td>
</tr>
<tr>
<td>Customize your Oracle JDeveloper on Startup</td>
<td>To use Oracle JDeveloper, customize the settings on your system.</td>
<td>See Customizing Oracle JDeveloper on Startup</td>
</tr>
</tbody>
</table>

### 1.3 Verifying the Oracle JDeveloper Certification Information
Before you install Oracle JDeveloper, you should understand compatibility with other certified software.

For the most current information on software that is certified for use with Oracle JDeveloper, see the Oracle JDeveloper documentation information on the Oracle Technology Network (OTN): [http://www.oracle.com/technetwork/developer-tools/jdev/documentation/index.html](http://www.oracle.com/technetwork/developer-tools/jdev/documentation/index.html)

**Note:**
This version of Oracle JDeveloper ships with Apache ANT 1.7.1.0.0. Higher versions of ANT may work with this release, but they are not supported, and may cause unexpected behavior.
1.4 Verifying System Requirements
Before you install Oracle JDeveloper, you should understand the system requirements. This release of Oracle JDeveloper has been tested and certified on Windows, Linux, and Mac OS X. It has not been certified for porting platform like Solaris, AIX, or HPI, but Oracle provides support if you are running Oracle JDeveloper on any platform with Java SE Development Kit (JDK) 8.

For information about recommended CPU, memory, display, and hard drive configurations, see "Oracle JDeveloper Requirements" in Oracle Fusion Middleware System Requirements and Specifications

For information about the certified JDK for your installation, see Understanding JDK Requirements for an Oracle Fusion Middleware Installation in Planning an Installation of Oracle Fusion Middleware.

1.5 Understanding and Obtaining the Oracle JDeveloper Distributions
Oracle JDeveloper is available in two distinct distributions: Oracle JDeveloper Studio and Oracle JDeveloper Java.

<table>
<thead>
<tr>
<th>Distribution</th>
<th>Description</th>
<th>Installer Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle JDeveloper Studio</td>
<td>Includes not only the Oracle JDeveloper Integrated Development Environment, but also the embedded Oracle Fusion Middleware Infrastructure software, which includes Oracle WebLogic Server and Oracle Application Development Framework for developing and testing Java and Oracle ADF applications.</td>
<td>The 12c (12.2.1) Oracle JDeveloper Studio installer is available in a generic form that requires you to install a certified JDK before you can run it. For information about JDK versions, see Understanding JDK Requirements for an Oracle Fusion Middleware Installation in Planning an Installation of Oracle Fusion Middleware. Oracle JDeveloper Studio can also be installed with 64-bit platform-specific installers for Linux or Windows.</td>
</tr>
<tr>
<td>Oracle JDeveloper Java</td>
<td>A smaller version of Oracle JDeveloper in ZIP file format for developers who want to develop pure Java applications without the Oracle WebLogic Server or Oracle ADF. You do not need to run an installer to begin developing with this version.</td>
<td>Oracle JDeveloper Java is contained in a ZIP file. There is no executable installer for the Java distribution.</td>
</tr>
</tbody>
</table>


**Note:** If the size of the installer is greater than 2GB, there will be more than one zip file shown for download (for example, file 1 and file 2). Download all installer files into the same directory prior to running the installer (see Installing the Oracle JDeveloper Software).
1.6 Deploying and Testing Applications Developed in Oracle JDeveloper

With the Oracle JDeveloper Studio distribution, you can test your applications locally in an embedded version of Oracle WebLogic Server that contains the required libraries and Oracle ADF runtime software.

For more information, see Using Oracle WebLogic Server with Oracle JDeveloper.

To deploy Java Enterprise Edition (Java EE) applications from Oracle JDeveloper, install and configure the Oracle WebLogic Server and Coherence distribution. For more information, see Installing and Configuring Oracle WebLogic Server and Coherence.

To deploy Oracle ADF applications from Oracle JDeveloper, install and configure the Oracle Fusion Middleware Infrastructure distribution. For more information, see Installing and Configuring the Oracle Fusion Middleware Infrastructure.
Installing the Oracle JDeveloper Software

Follow the steps pertinent to your operating system to install the Oracle JDeveloper software.

---

**Note:** The Oracle JDeveloper software installation described here does not enable you to develop SOA or Business Process Management applications.

To install a version of JDeveloper pre-configured for SOA Suite or Business Process Management Suite applications, see Introducing the Quick Start Distributions in *Installing SOA Suite and Business Process Management Suite Quick Start for Developers.*

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**Understanding the Oracle JDeveloper Installation Types**

The installation steps depend on the Oracle JDeveloper distribution and installer you are using.

**Installing Oracle JDeveloper Studio**

You can install Oracle JDeveloper Studio on Linux, UNIX, Mac OS X, and Windows operating systems.

**Verifying the Oracle JDeveloper Studio Installation**

After you complete the installation of Oracle JDeveloper Studio, verify it was successful.

**Installing the JDeveloper Java Distribution**

JDeveloper Java does not require an installer. To install the Oracle JDeveloper Java distribution, all you need is an unzip tool.

**Specifying the JDK Location for JDeveloper Java**

When you start the Java edition of Oracle JDeveloper for the first time, the `jdev` script prompts you to provide the location of your JDK installation if it cannot locate it.

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**2.1 Understanding the Oracle JDeveloper Installation Types**

The installation steps depend on the Oracle JDeveloper distribution and installer you are using.

---

**Note:**

The installation types described here do not support SOA extensions. To install a version of JDeveloper pre-configured for SOA Suite or Business Process Management Suite applications, see Introducing the Quick Start Distributions in *Installing SOA Suite and Business Process Management Suite Quick Start for Developers.*
You should have obtained the appropriate installer for your operating system as described in Understanding and Obtaining the Oracle JDeveloper Distributions. Depending on what distribution and installer you are using, the type of installation you will perform differs:

- If you are installing the Oracle JDeveloper Java distribution, all you need to do is unzip the files. This process is covered in Installing the JDeveloper Java Distribution.

- If you are using a platform-specific installer for Oracle JDeveloper Studio, the JDK version specific to this Oracle JDeveloper installation is installed automatically.

- If you are going to run the generic installer for Oracle JDeveloper Studio, ensure that the following prerequisites are met:
  - You must have the required JDK installed on your system.
  
  Identify what JDK versions are certified for JDeveloper 12c (12.2.1) on your operating system using this site: [http://www.oracle.com/technetwork/developer-tools/jdev/documentation/index.html](http://www.oracle.com/technetwork/developer-tools/jdev/documentation/index.html)

  Obtain a certified version of the JDK from the following location on OTN: [http://www.oracle.com/technetwork/java/javase/downloads/index.html](http://www.oracle.com/technetwork/java/javase/downloads/index.html)

  - To streamline the installation process, the JDK you wish to use with the product should be the one you use to start the installer program. Make sure that the desired JDK is the first one in your system `PATH`, or reference it explicitly on the command line.

### 2.2 Installing Oracle JDeveloper Studio

You can install Oracle JDeveloper Studio on Linux, UNIX, Mac OS X, and Windows operating systems.

**Note:**

The Oracle JDeveloper Studio installation described here cannot be used to develop SOA Suite or Business Process Management Suite applications. See Understanding the Oracle JDeveloper Installation Types for details.
Starting the Oracle JDeveloper Studio Installation Program
The steps to launch the Oracle JDeveloper Studio installation program
depends on the type of installer you are using.

Navigating the Installation Screens
The installer shows a series of screens where you verify or enter
information.

Customizing Oracle JDeveloper on Startup
You can customize Oracle JDeveloper Studio on startup using options on
the Installation Complete screen of the installer.

2.2.1 Starting the Oracle JDeveloper Studio Installation Program
The steps to launch the Oracle JDeveloper Studio installation program depends on the
type of installer you are using.

• Launching the Generic Installer on Linux, UNIX, and Mac OS X
• Launching the Generic Installer on Windows
• Launching the Platform-Specific Installer for Linux, UNIX, and Mac OS X
• Launching the Windows-Specific Installer
• Launching the Installer in Silent Mode

Launching the Generic Installer on Linux, UNIX, and Mac OS X
To launch the platform-independent installer on your hosted Linux, UNIX, or Mac OS
X machine:

1. Log into the host computer where you want to install Oracle JDeveloper.
   Be sure the user account you use for installing Oracle JDeveloper has the required
   privileges. For more information, see Selecting an Installation User in Planning an
   Installation of Oracle Fusion Middleware.

2. Ensure that a certified JDK exists on the system on which you are about to install
   Oracle JDeveloper. If you checked the prerequisites for generic installers as
   described in Understanding the Oracle JDeveloper Installation Types, you should
   have already obtained and installed a certified JDK on your system.
   You can double-check your JDK version by running java -version from the
   command line. This command will return the JDK version that you have installed
   on your machine. Make sure the outputted version is certified for 12c (12.2.1)
   JDeveloper by checking here: http://www.oracle.com/technetwork/
   developer-tools/jdev/documentation/index.html

3. Navigate to the directory where you downloaded the installer files.

4. Launch the installer by invoking java -jar from the JDK directory on your
   system, as shown in the example below:
   \home\Oracle\jdk1.8.0_60\bin\java -jar jdev_suite_122100.jar
   Be sure to replace /home/Oracle/jdk1.8.0_60 in this example with the
   location of the JDK on your system.
When the installation program appears, you are ready to begin the installation. See Navigating the Installation Screens to Install Oracle JDeveloper for a description of each installation program screen.

Launching the Generic Installer on Windows
To launch the platform-independent installer on your Windows machine:

1. Log into the host computer where you want to install Oracle JDeveloper.
   Be sure the user account you use for installing Oracle JDeveloper has the required privileges. For more information, see Selecting an Installation User in Planning an Installation of Oracle Fusion Middleware.

2. Ensure that a certified JDK exists on the system on which you are about to install Oracle JDeveloper. If you checked the prerequisites for generic installers as described in Understanding the Oracle JDeveloper Installation Types, you should have already obtained and installed a certified JDK on your system.

   You can double-check your JDK version using one of the methods described here: https://www.java.com/en/download/help/version_manual.xml. Make sure your JDK version is certified for 12c (12.2.1) JDeveloper by checking the certification information for this release at the following page: http://www.oracle.com/technetwork/developer-tools/jdev/documentation/index.html

3. Navigate to the directory where you downloaded the installer files.

4. Launch the installer by invoking `java -jar` from the JDK directory on your system, as shown in the example below:

   ```
   \home\Oracle\jdk1.8.0_60\bin\java -jar jdev_suite_122100.jar
   ```

   Be sure to replace \home\Oracle\jdk1.8.0_60 in this example with the location of the JDK on your system.

   You can also navigate to the folder where you downloaded the Oracle JDeveloper installer and double-click on the icon to launch the installation wizard.

   When the installation program appears, you are ready to begin the installation. See Navigating the Installation Screens to Install Oracle JDeveloper for a description of each installation program screen.

Launching the Platform-Specific Installer for Linux, UNIX, and Mac OS X
To launch the platform-specific installer on Linux, UNIX, or Mac OS X:

1. Log into the host computer where you want to install Oracle JDeveloper.
   Be sure the user account you use for installing Oracle JDeveloper has the required privileges. For more information, see Selecting an Installation User in Planning an Installation of Oracle Fusion Middleware.

2. Navigate to the directory where you downloaded the platform-specific installer files.

3. Launch the installer by running the following command:

   ```
   ./jdev-suite_122100_linux64.bin
   ```
You can also navigate to the folder where you downloaded the Oracle JDeveloper installer and double-click on the icon to launch the installation wizard.

When the installation program appears, you are ready to begin the installation. See Navigating the Installation Screens to Install Oracle JDeveloper for a description of each installation program screen.

**Launching the Windows-Specific Installer**

To launch the platform-specific installer on Windows:

1. Log into the host computer where you want to install Oracle JDeveloper.
   
   Be sure the user account you use for installing Oracle JDeveloper has the required privileges. For more information, see Selecting an Installation User in Planning an Installation of Oracle Fusion Middleware.

2. Navigate to the directory where you downloaded the platform-specific installer files.

3. Launch the installer. You launch it from the command line by running the following command:

   jdev_suite_122100_win64.exe

You can also navigate to the folder where you downloaded the Oracle JDeveloper installer and double-click on the icon to launch the installation wizard.

When the installation program appears, you are ready to begin the installation. See Navigating the Installation Screens to Install Oracle JDeveloper for a description of each installation program screen.

**Launching the Installer in Silent Mode**

You can also launch the installer in silent mode to ensure that no configuration options are displayed during the installation process. For more information, see Installing Oracle JDeveloper Studio in Silent Mode.

### 2.2.2 Navigating the Installation Screens

The installer shows a series of screens where you verify or enter information.

The following table lists the order in which installer screens appear. If you need additional help with an installation screen, click the screen name in the table or **Help** in the installer.

| Table 2-1   | Oracle JDeveloper Install Screens |
### Table 2-1  (Cont.) Oracle JDeveloper Install Screens

<table>
<thead>
<tr>
<th>Screen</th>
<th>Description</th>
</tr>
</thead>
</table>
| Installation Inventory Setup | On UNIX operating systems, this screen opens if this is the first time you are installing any Oracle product on this host. Specify the location where you want to create your central inventory. Make sure that the operating system group name selected on this screen has write permissions to the central inventory location.  
  For more information about the central inventory, see Understanding the Oracle Central Inventory in *Installing Software with the Oracle Universal Installer*.  
  This screen does not appear on Windows operating systems. |
| Welcome                  | This screen introduces you to the product installer.                                                                                                                                                                                                                                                                                            |
| Installation Location    | Use this screen to specify the location of your Oracle home directory.  
  The JDeveloper component should always be installed in a new Oracle home.  
  The only component in the Oracle installer that can be installed into an existing Oracle home is the Application Development Framework (ADF), if ADF has not already been installed by other Oracle Fusion Middleware products.  
  Ensure that the name of the directory does not contain spaces. For example, do not use `C:\Program Files` as the Oracle home.  
  For more about Oracle Fusion Middleware directory structure, see Understanding Directories for Installation and Configuration in *Planning an Installation of Oracle Fusion Middleware*. |
| Prerequisite Checks      | This screen verifies that your system meets the minimum necessary requirements.  
  If there are any warning or error messages, refer to Verifying Your System Requirements for Installing Oracle JDeveloper.                                                                                                                                                       |
| Installation Summary     | Use this screen to verify the installation options you selected. If you want to save these options to a response file, click **Save** and provide the location and name of the response file. Response files can be used later in a silent installation situation.  
  For more information about silent or command line installation, see Using the Oracle Universal Installer in Silent Mode in *Installing Software with the Oracle Universal Installer*.  
  Click **Install** to begin the installation.                                                                                                                                                                                                                                       |
| Installation Progress    | This screen shows the installation progress.  
  When the progress bar reaches 100% complete, click **Finish** to dismiss the installer, or click **Next** to see a summary.                                                                                                                                                        |
| Installation Complete    | This screen appears when the installation is complete. Review the information on this screen.  
  For more information about customizing Oracle JDeveloper using the Installation Completed screen, see Customizing Oracle JDeveloper on Startup.                                                                                                           |
For more information about the installation screens that appear while installing Oracle JDeveloper, see Oracle Universal Installer Installation Screens in *Installing Software with the Oracle Universal Installer*.

### 2.2.3 Customizing Oracle JDeveloper on Startup

You can customize Oracle JDeveloper Studio on startup using options on the Installation Complete screen of the installer.

*Figure 2-1 Options to Customize Oracle JDeveloper Installer*

The following table describes the options in the Next Steps section of the Installation Complete screen:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description and Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start JDeveloper with Default Settings</td>
<td>Select if you want to start Oracle JDeveloper using the default settings. All your Oracle JDeveloper projects will be saved in this default location.</td>
</tr>
<tr>
<td>Customize Settings and Then Start JDeveloper</td>
<td>Select to do the following:</td>
</tr>
<tr>
<td></td>
<td>• Change the location where Oracle JDeveloper projects are saved</td>
</tr>
<tr>
<td></td>
<td>• Change the location where Oracle JDeveloper user preferences are saved</td>
</tr>
<tr>
<td></td>
<td>• Identify the file types to be associated with Oracle JDeveloper (Windows only)</td>
</tr>
<tr>
<td>Finish Installation without Starting JDeveloper</td>
<td>If the box to launch JDeveloper after quitting the installation wizard is checked, uncheck it. Click Finish to quit the installation wizard without starting Oracle JDeveloper.</td>
</tr>
</tbody>
</table>

**Note:**

- During installation, a file called `product.conf` is created in your home directory by default. This will contain your JDeveloper preferences. Old preferences will carry over to new installations of JDeveloper unless you delete this file.

- On Windows systems, if you are deinstalling your current version of Oracle JDeveloper to install a newer version, Oracle recommends that you reboot your system after you deinstall the software and before you begin a new installation of the software.
2.3 Verifying the Oracle JDeveloper Studio Installation

After you complete the installation of Oracle JDeveloper Studio, verify it was successful.

To verify that Oracle JDeveloper Studio installed successfully, you can compare the directory structure created on your to the expected directory structure shown in the following table.

<table>
<thead>
<tr>
<th>Directory or File</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JDeveloper Home</td>
<td>This directory is the Oracle home that contains the binary files and configuration files that are required to run Oracle JDeveloper.</td>
</tr>
<tr>
<td>coherence</td>
<td>This directory contains the Coherence product files.</td>
</tr>
<tr>
<td>em</td>
<td>This directory contains files used by Oracle Enterprise Manager Fusion Middleware Control.</td>
</tr>
<tr>
<td>inventory</td>
<td>This directory contains information about the components, feature sets, and patches installed in this Oracle JDeveloper home directory.</td>
</tr>
<tr>
<td>registry.xml</td>
<td>This file is located in the inventory directory. It contains the location and versions of all components currently registered with this Oracle Jdeveloper installation. Whenever you add a new plug-in or add-on, the information gets updated in this file.</td>
</tr>
<tr>
<td>jdeveloper</td>
<td>This directory contains the files that are needed to run the Oracle JDeveloper application. It also contains files that can be used to modify the application settings.</td>
</tr>
<tr>
<td>OPatch</td>
<td>This directory contains OPatch and supported files. OPatch is a tool used to patch Oracle Fusion Middleware software.</td>
</tr>
<tr>
<td>oracle_common</td>
<td>This directory contains the binary and library files required for Oracle Enterprise Manager Fusion Middleware Control and Java Required Files (JRF).</td>
</tr>
<tr>
<td>oraInst.loc</td>
<td>You may not see this file on an Windows installation. This file contains information about the inventory location of the installation.</td>
</tr>
<tr>
<td>oui</td>
<td>This directory contains files used by the Oracle Universal Installer, including the deinstaller program. If you need to run the Oracle Universal Installer again after the product is installed, you should do so from this directory.</td>
</tr>
<tr>
<td>wlserver</td>
<td>This directory contains the WebLogic Server product files.</td>
</tr>
</tbody>
</table>

For Windows distributions with the MAF extension installed, you may also see a folder called cfgtoollogs. This directory contains the log files for your installation and configuration transactions.
2.4 Installing the JDeveloper Java Distribution

JDeveloper Java does not require an installer. To install the Oracle JDeveloper Java distribution, all you need is an unzip tool.


Caution:

Ensure that the directory that in which you install Oracle JDeveloper does not contain spaces. For example, do not use C:\Program Files as the installation directory.

To install Oracle JDeveloper from jdev-java-122100.zip:

1. Obtain the required JDK.

   Identify what JDK versions are certified for this release of JDeveloper on your operating system using this site: http://www.oracle.com/technetwork/developer-tools/jdev/documentation/index.html

   Obtain a certified version of JDK from the following location on OTN: http://www.oracle.com/technetwork/java/javase/downloads/index.html

2. Unzip jdev-java-122100.zip to the target directory.

Note:

In this guide, in the context of the Java Edition, JDEV_HOME is used to represent the directory of the installation. For example, if you unzipped jdev-java-122100.zip into C:\jdev_install, then JDEV_HOME refers to C:\jdev_install.

2.5 Specifying the JDK Location for JDeveloper Java

When you start the Java edition of Oracle JDeveloper for the first time, the jdev script prompts you to provide the location of your JDK installation if it cannot locate it.

When prompted, enter the path to the Java executable file.

For Windows, your path definition may look like this: D:\jdk1.8.0_60\bin

For Linux, UNIX, and Mac OS X, your path may look like this: /home/jdk1.8.0_60/bin.
After installing Oracle JDeveloper, you can launch JDeveloper and perform related tasks.
Preparing to Launch Oracle JDeveloper
You can launch Oracle JDeveloper on Linux, UNIX, Mac OS X, Windows, and multiuser environments.

Launching Oracle JDeveloper
To start Oracle JDeveloper, follow the steps for the operating system you are using, or launch it from the command line.

Migrating Oracle JDeveloper From a Previous Version
Oracle JDeveloper 12c (12.2.1) supports migration from Oracle JDeveloper 11.1.1.9.0 or 11.1.2.3.0.

Enabling Oracle JDeveloper Extensions
Oracle JDeveloper extensions (such as JUnit) are available through JDeveloper or by downloading from OTN.

Using Oracle WebLogic Server with Oracle JDeveloper
Installing Oracle JDeveloper Studio 12c (12.2.1) also automatically installs Oracle WebLogic Server 12c (12.2.1).

Understanding Oracle JDeveloper Accessibility Information
You can use a screen reader with Oracle JDeveloper, and become familiar with assistive technologies in Oracle products and Oracle JDeveloper.

Additional Resources
Useful Oracle resources related to Oracle JDeveloper are available on the Web.

3.1 Preparing to Launch Oracle JDeveloper
You can launch Oracle JDeveloper on Linux, UNIX, Mac OS X, Windows, and multiuser environments.

Optimizing Oracle JDeveloper on Linux, UNIX, and Mac OS X
Before launching Oracle JDeveloper, you can specify settings for Linux, UNIX, and Mac OS X environments.

Optimizing Oracle JDeveloper on Windows
Before launching Oracle JDeveloper, you can specify settings for a Windows environment.

Optimizing Oracle JDeveloper in a Multiuser Environment
When installing and configuring Oracle JDeveloper for a multiuser environment (such as Microsoft Terminal Server, Citrix MetaFrame and MetaFrame XP (for Windows), and MetaFrame 1.1 for UNIX), you will need to account for resource planning, such as number of users and...
power of the server to deliver optimal performance for JDeveloper and your users.

3.1 Optimizing Oracle JDeveloper on Linux, UNIX, and Mac OS X

Before launching Oracle JDeveloper, you can specify settings for Linux, UNIX, and Mac OS X environments.

- **Setting the System Resource Limit**
  The minimum recommended system resource limit for Oracle JDeveloper on Linux systems is 4096.

- **Setting the User Home Directory on Linux, UNIX, and Mac OS X**
  You can permanently redefine the location of your user home directory in a Linux, UNIX, or Mac OS X environment.

- **Changing the JDK Location on Linux, UNIX, and Mac OS X**
  You can permanently change the location of your JDK if it has changed since the first time you launched JDeveloper.

- **Changing System Cursors on Linux, UNIX, and Mac OS X**
  On Linux platforms, the Java cursors might display as large and opaque, creating difficulties when used for drag and drop operations.

### 3.1.1 Setting the System Resource Limit

The minimum recommended system resource limit for Oracle JDeveloper on Linux systems is 4096.

To determine the resource limit configuration for your system, enter the following command:

```
/bin/sh -c 'ulimit -n'
```

If the value returned is less than 4096, set the system resource limit as follows:

1. Open the `limits.conf` file, which is located at `/etc/security/`.
2. Find the following parameters:

   ```
   soft nofile value_of_the_parameter
   hard nofile value_of_the_parameter
   ```

3. Change the value of these parameters to 4096:

   ```
   soft nofile 4096
   hard nofile 4096
   ```

   **Note:**

   If the parameters listed in Step 2 do not exist, add the parameters with their values as listed in Step 3 to the `limits.conf` file.

### 3.1.2 Setting the User Home Directory on Linux, UNIX, and Mac OS X

You can permanently redefine the location of your user home directory in a Linux, UNIX, or Mac OS X environment.

When you define the user home directory, it will contain a system subdirectory that stores the user’s preferences for JDeveloper, also known as the domain home. The user
home directory will also contain a separate subdirectory for user-generated content and other configuration files that are specific to a given user, also known as the application home.

If you do not define a user home directory, these subdirectories will be located in different areas on your computer.

- The default location for the system subdirectory is $HOME/.jdeveloper/system12.2.1.XX.XX.XX, where XX.XX.XX is the unique number of the product build.

- The default location for user-generated content is $HOME/jdeveloper/mywork.

There are two ways to set your user home directory if you do not want your JDeveloper files to be stored at $HOME. Both methods set the user home directory for all instances of JDeveloper on your system.

Use either of the following methods to set the user home directory:

- Editing product.conf

- Setting environment variable JDEV_USER_DIR, which will require you to restart your terminal session

**Editing product.conf**

With 12c (12.2.1), many JDeveloper settings, including the location of your JDK, are stored in product.conf. This file is created by JDeveloper on first startup unless the file already exists from a previous installation. JDeveloper will use the settings stored in product.conf even if they are from a previous installation.

---

**Note:**

In earlier versions of JDeveloper, product.conf was named jdev.conf.

---

1. Find the product.conf file. It should be located at $HOME/.jdeveloper/12.2.1.0.0.

2. Open product.conf in an editor. Add a line to set AddVMOption -Dide.user.dir to your preferred directory path.

   For example, if your preferred directory is $HOME/mydocs/jdevfiles, your definition should look like this:

   ```shell
   AddVMOption -Dide.user.dir=$HOME/mydocs/jdevfiles
   ```

   **Caution:**

   Do not use a directory that contains spaces as the home directory. For example, do not specify $HOME/my projects as the home directory.

3. Save your changes. The changes should take effect immediately when you start JDeveloper. The changes made to product.conf will also override any environment variable you have defined.

   When you launch Oracle JDeveloper for the first time, you can verify that the user home directory has been set to your preferred directory by accessing the Help
menu, selecting About from the drop-down menu, toggling the Properties tab, and finding the definition for ide.user.dir.

**Setting environment variable JDEV_USER_DIR**

You can set the environment variable JDEV_USER_DIR to your preferred home directory path. The examples and syntax provided below are for the bash shell on Linux systems.

1. Open your startup configuration file with an editor. For the bash shell, this file is named .bashrc. The configuration file should be located in your home directory. If the appropriate file for your shell does not exist at this location, create a new file.

2. Set the environment variable JDEV_USER_DIR to your preferred directory.

   For example, if your preferred directory is $HOME/mydocs/jdevfiles, your definition may look like this:

   ```
   export JDEV_USER_DIR=$HOME/mydocs/jdevfiles
   ```

   **Caution:**

   Do not use a directory that contains spaces as the home directory. For example, do not specify $HOME/my project folder as the home directory.

3. Save your file and exit the editor. Start a new terminal session.

4. In the command line, use the following command to display the environment variable to confirm the change:

   ```
   echo $JDEV_USER_DIR
   ```

   This should output the directory you specified. For this example, the command will output the following:

   ```
   $HOME/mydocs/jdevfiles
   ```

When you launch Oracle JDeveloper for the first time, you can verify that the user home directory has been set to your preferred directory by accessing the Help menu, selecting About from the drop-down menu, toggling the Properties tab, and finding the definition for ide.user.dir.

**3.1.1.3 Changing the JDK Location on Linux, UNIX, and Mac OS X**

You can permanently change the location of your JDK if it has changed since the first time you launched JDeveloper.

To change a JDK location:

1. Find the product.conf file. It should be located at $HOME/.jdeveloper/12.2.1.0.0.

2. Open product.conf in an editor. Find the following line:

   ```
   SetJavaHome /path/jdk
   ```

3. Uncomment this line, and replace /path/jdk with the path to your JDK directory.

   For example, if the location of your JDK is /usr/local/java, your definition will look like this:
SetJavaHome /usr/local/java

This will set the JDK path for all installations of JDeveloper on your system.

If you deinstall JDeveloper but do not delete the product.conf file, all settings stored in this file, including the JDK path, will be preserved for future installations. If you re-install JDeveloper with the same numerical version as your previous installation, your new installation will automatically read that JDK location again.

### 3.1.1.4 Changing System Cursors on Linux, UNIX, and Mac OS X

On Linux platforms, the Java cursors might display as large and opaque, creating difficulties when used for drag and drop operations.

To address this problem, Oracle JDeveloper provides a set of cursors to replace the default set. You must have write-access to the JDK to replace the cursors.

To replace the cursors:

1. Create a backup copy of the default cursors located in the JDK directory at:
   
   jdk_install/jre/lib/images/cursors

2. Extract the replacement cursors from the .tar file as follows:
   
   a. Navigate to the following location on your system:
      
      JDEV_HOME/jdeveloper/jdev/bin/clear_cursors.tar
   
      b. Run the following command to extract the replacement cursors from the tar file:
      
      tar -xvf clear_cursors.tar

### 3.1.2 Optimizing Oracle JDeveloper on Windows

Before launching Oracle JDeveloper, you can specify settings for a Windows environment.

#### Setting the User Home Directory on Windows

You can permanently redefine the location of your user home directory in a Windows environment.

#### Changing the JDK location on Windows

You can permanently change the location of your JDK if it has changed since the first time you launched JDeveloper.

### 3.1.2.1 Setting the User Home Directory on Windows

You can permanently redefine the location of your user home directory in a Windows environment.

When you define a user home directory, it will contain a system subdirectory that stores the user’s preferences for JDeveloper, also known as the domain home. The user home directory will also contain a separate subdirectory for user-generated content and other configuration files that are specific to a given user, also known as the application home.

If you do not define a user home directory, these subdirectories will be located in different areas on your computer:

- The default location for the system subdirectory is:
where \( XX.XX.XX \) is the unique number of the product build.

- The default location of the user-generated content is:
  - \( C:\\)JDeveloper\mywork on Windows 7 systems.
  - \( C:\Documents and Settings\My Documents\JDeveloper\mywork \) on all other Windows platforms.

There are two ways to set your user home directory if you do not want your JDeveloper files to be stored at the default location. Both methods set the user home directory for all instances of JDeveloper on your system.

Use either of the following methods to set the user home directory:

- **Editing product.conf**
- **Setting the environment variable JDEV_USER_DIR**

**Editing product.conf**

With 12c (12.2.1), many JDeveloper settings, including the location of your JDK, are stored in `product.conf`. This file is created by JDeveloper on first startup unless the file already exists from a previous installation. JDeveloper will use the settings stored in `product.conf` even if they are from a previous installation.

**Note:**

In earlier versions of JDeveloper, `product.conf` was named `jdev.conf`.

1. Find the `product.conf` file. It should be located at `\%USERPROFILE\\AppData\Roaming\JDeveloper\system12.2.1.XX.XX.XX`.
2. Open `product.conf` in an editor. Add a line to set `AddVMOption -Dide.user.dir` to your preferred directory path.

   For example, if your preferred directory is `N:\users\jdoe`, your definition should look like this:

   ```
   AddVMOption -Dide.user.dir=N:\users\jdoe
   ```

**Caution:**

Do not use a directory that contains spaces as the home directory. For example, do not specify `C:\My Projects` as the home directory.

3. Save your changes. The changes should take effect immediately when you start JDeveloper. The changes made to `product.conf` will also override any environment variable you have defined.

When you launch Oracle JDeveloper for the first time, you can verify that the user home directory has been set to your preferred directory by accessing the **Help**.
menu, selecting About from the drop-down menu, toggling the Properties tab, and finding the definition for ide.user.dir.

**Setting the environment variable JDEV_USER_DIR**

You can set the environment variable `JDEV_USER_DIR` to your preferred home directory path on a Windows system, including individual users of Oracle JDeveloper on a multiuser system.

1. From the Windows Start menu, select Control Panel, and then select System.
2. Click Advanced system settings, then click Environment Variables.
3. In the User Variables section, click New.
4. Add `JDEV_USER_DIR` as a user variable.
5. Set the value of this variable to your home directory (for example, `N:\users\jdoe`), and click OK.

```
Caution:
Do not use a directory that contains spaces as the home directory. For example, do not specify C:\My Projects as the home directory.
```

6. To check your variable setting, open a command shell and enter the following command:

```
set
```

This will list all of your defined variables. Find and verify that your newly defined variable appears similar to the following:

```
JDEV_USER_DIR=N:\users\jdoe
```

When you launch Oracle JDeveloper for the first time, you can verify that the user home directory has been set to your preferred directory by accessing the Help menu, selecting About from the drop-down menu, toggling the Properties tab, and finding the definition for ide.user.dir.

**3.1.2.2 Changing the JDK location on Windows**

You can permanently change the location of your JDK if it has changed since the first time you launched JDeveloper.

To change a JDK location:

1. Find the `product.conf` file. It should be located at `%USERPROFILE%\AppData\Roaming\JDeveloper\system12.2.1.XX.XX.XX`.
2. Open `product.conf` in an editor. Find the following line:

```
SetJavaHome \path\jdk
```

3. Uncomment this line, and replace `\path\jdk` with the path to your JDK directory.

For example, if the location of your JDK is `jdk1.8.0_60` on your D: drive, your definition will look like this:

```
SetJavaHome D:\jdk1.8.0_60
```
This will set the JDK path for all installations of JDeveloper on your system.

If you deinstall JDeveloper but do not delete the product.conf file, all settings stored in this file, including the JDK path, will be preserved. If you re-install JDeveloper with the same numerical version as your previous installation, your new installation will automatically read that JDK location again.

### 3.1.3 Optimizing Oracle JDeveloper in a Multiuser Environment

When installing and configuring Oracle JDeveloper for a multiuser environment (such as Microsoft Terminal Server, Citrix MetaFrame and MetaFrame XP (for Windows), and MetaFrame 1.1 for UNIX), you will need to account for resource planning, such as number of users and power of the server to deliver optimal performance for JDeveloper and your users.

These environments allow many clients to access one installation of Oracle JDeveloper. In all cases, users can save their projects locally.

#### 3.1.3.1 Installing Oracle JDeveloper on a Citrix MetaFrame Server or a Microsoft Terminal Server

With administrative privileges, you can install Oracle JDeveloper on a Citrix Metaframe Server or a Microsoft Terminal Server.

#### Configuring Terminal Server Clients for Running Oracle JDeveloper

After installing a Citrix MetaFrame or Microsoft Terminal Server client locally, and JDeveloper installed and configured, you can configure a terminal server client for running Oracle JDeveloper.

#### Troubleshooting a System DLL ole32.dll Memory Error

You may encounter this error when you run Oracle JDeveloper in a multiuser environment.

#### 3.1.3.2 Configuring Terminal Server Clients for Running Oracle JDeveloper

After installing a Citrix MetaFrame or Microsoft Terminal Server client locally, and JDeveloper installed and configured, you can configure a terminal server client for running Oracle JDeveloper.

1. Verify that the color resolution of the terminal server client has been set to a minimum of 256 colors.

2. Log in to your terminal server.

3. Verify that the user home environment variable has been defined. Confirm the naming convention that is used on your system. The default variable is JDEV_USER_DIR.
4. Launch Oracle JDeveloper.

5. Oracle JDeveloper prompts you to confirm if the user home directory needs to be created. Click Yes.

6. Verify that the user home directory has been set to your preferred directory:
   - From the Help menu, select About.
   - Toggle the Properties tab, and finding the definition for ide.user.dir.

### 3.1.3.3 Troubleshooting a System DLL ole32.dll Memory Error

You may encounter this error when you run Oracle JDeveloper in a multiuser environment.

The system DLL ole32.dll was relocated in memory. The application will not run properly. The relocation occurred because the DLL Dynamically Allocated Memory occupied an address range reserved for Windows NT system DLL's. The vendor supplying the DLL should be contacted for a new DLL.

If you see this error, update the product.conf file in $HOME/.jdeveloper/12.2.1.0.0 file by uncommenting the following parameter:

```
AddVMOption -Xheapbase100000000
```

In addition, each user must modify the default project to apply this setting. To specify this value in the default project settings:

1. From the Application menu, select Default Project Properties.
2. In the Default Project Properties dialog, click Run/Debug/Profile, then click Edit.
3. Click the Launch Settings node.
4. On the Launch Settings page, enter -Xheapbase100000000 in the Java Options field.

### 3.2 Launching Oracle JDeveloper

To start Oracle JDeveloper, follow the steps for the operating system you are using, or launch it from the command line.

#### On Linux, UNIX, and Mac OS X:

1. Navigate to the following location:

   $JDEV_HOME/jdeveloper/jdev/bin/

2. Run the following command:

   ./jdev

#### On Windows:

From the Start Menu, select All Programs, then select Oracle Fusion Middleware 12.2.1, and then select JDeveloper Studio 12.2.1.
On the Command Line:

You can also start Oracle JDeveloper from the command line by running one of the following commands:

- `JDEV_HOME\jdeveloper\jdeveloper.exe`
- `JDEV_HOME\jdeveloper\jdev\bin\jdevw.exe`
- `JDEV_HOME\jdeveloper\jdev\bin\jdev.exe` (to display a console window for internal diagnostic information)

### 3.3 Migrating Oracle JDeveloper From a Previous Version

Oracle JDeveloper 12c (12.2.1) supports migration from Oracle JDeveloper 11.1.1.9.0 or 11.1.2.3.0.

Oracle recommends migrating to Oracle JDeveloper 11.1.1.9.0 or 11.1.2.3.0 from all other earlier versions before migrating to this release of Oracle JDeveloper.

- Migrating User Settings
- Migrating Projects
- Using Headless Migration

#### 3.3.1 Migrating User Settings

When you start Oracle JDeveloper for the first time (and each time you add a new extension or upgrade to a newer version), JDeveloper displays the **Confirm Import Preferences** dialog to confirm whether to import your preferences and settings from a previous installation.

When the **Confirm Import Preferences** dialog is displayed, click **Show All Installations** to view a list of all the previous installations. From this list, choose the installation that you want to import preferences and settings from. When you hover the mouse over an item in list, the path to the installation is displayed as a tooltip.

Alternatively, you can click **Find a previous installation manually** (with the image of a magnifying glass) on the top right of the installation list to browse for an installation manually. Clicking **Yes** on the Confirm Import Preferences dialog imports user preferences and the state of the IDE from the previous installation.

To force Oracle JDeveloper to display the **Confirm Import Preferences** dialog upon subsequent startups, use the `-migrate` flag when starting Oracle JDeveloper from the command line, for example, `jdev -migrate`.

---

**Note:**

If you migrate to 12c (12.2.1) from another version of Oracle JDeveloper, you will need to reinstall the extensions that you want to use. Some extensions for older versions may no longer exist.

For more information on installing extensions, see [Enabling Oracle JDeveloper Extensions](#).
3.3.2 Migrating Projects

When you open an application or project that was created in a previous release, Oracle JDeveloper prompts you to migrate the project to Oracle JDeveloper 12c. Depending on the content of the projects, Oracle JDeveloper might display additional prompts to migrate some specific source files as well.

Oracle recommends that you create a backup copy of your projects before migrating them. Accepting the initial prompts to migrate your projects means that JDeveloper will update the format for crucial XML files, but migration does not rewrite or update specific project code. After migration, you should re-test your applications to completely verify that they work.

See the Oracle JDeveloper page on OTN for more information about migrating specific types of projects to 12c.

Migrating JSF and JSTL Projects

3.3.2.1 Migrating JSF and JSTL Projects

This release of Oracle JDeveloper requires that all projects with JavaServer Faces and JSTL be migrated to the latest versions of the technologies (version 2.0 and 1.2 respectively). Additionally, any web.xml deployment descriptors will be migrated to version 2.5.

For the most current information on migration, see the Oracle JDeveloper documentation page on OTN: http://www.oracle.com/technetwork/developer-tools/jdev/documentation/1212-cert-1964670.html#Abrams-SupportInformation-MigrationSupport.

3.3.3 Using Headless Migration

You can also migrate files silently from the command line using the headless migration tool. This tool can be found at jdeveloper/jdev/bin/ojmigrate.

Understanding How to Use ojmigrate

Troubleshooting ojmigrate

3.3.3.1 Understanding How to Use ojmigrate

The command to use ojmigrate uses the following structure:

```
ojmigrate [option]... file...@file
```

Specifying a value for the option parameter is optional. The file or the @file parameter value is required.

Using the option Parameter

You can use the following flags for the option parameter:

- -ade to connect to the current ADE view
- -dry to initiate a dry run and skip calling migrators
- -failFast to stop the migration after the first failure
- -generateDefaults to let migrator helpers generate a migration.properties file, alongside the .jws file, that contains the defaults for migration options.
You can view these valid values and their use cases by invoking the help file for
ojmigrate in the command line.

Using the file Parameter
If you want to migrate one application, specify the path to the .jws file you want to
migrate as the value for file.

For example, if you are trying to migrate example.jws with no option flag, your
command would be structured like the following:

```
ojmigrate example.jws
```

If you want to migrate more than one application, you should use the @file
parameter described in the next section.

Using the @file Parameter
If you want to migrate more than one application at a time, you can create a file
containing all the paths to applications you want to migrate and use the @file
parameter to point to this file.

You can autogenerate this file by using a script like the following:

```
fund . -name "*.jws" -printf "%P\n" > workspaces.txt
```

Once this file is generated, you should check it to make sure all the applications you
want migrated are included. You can also create the file manually.

Once you have created and saved this file, specify the path to this file as the value for
@file in the example command structure. The @ symbol must be appended to your
filename when specifying this parameter.

For example, if you have listed the location of multiple .jws files in example.txt,
your command would be structured like the following:

```
ojmigrate @example.txt
```

3.3.3.2 Troubleshooting ojmigrate
If you encounter errors during migration, you can try to troubleshoot them with the
strategies listed in this section. To isolate the cause of your errors, run ojmigrate
with the -failFast flag. This will cause ojmigrate to stop after its first
unsuccessful migration and analyze the issue.

Migrating Applications With -ade
If you see errors about being unable to check out read-only files, you should migrate
these applications in ADE.

Make sure you are in ADE view and have a transaction started. Because the ADE
extension is not part of the JDeveloper non-debug builds, you should use either a
JDeveloper debug build or you should manually install the ADE extension.

Once you are in ADE view, invoke ojmigrate with the -ade flag.

The commands for this section should resemble the following:

```
ade useview VIEW_NAME
ade begintrans TXN_NAME
ojmigrate -ade @workspaces.txt
```
Using a Two-Pass Migration

Migration could have failed because some migrators require extra data normally provided in the migration wizard, or the defaults that the migrators are using are not suitable for your application. In these cases, you should do a two-pass migration.

For the first pass, run the `ojmigrate` command with the `-generateDefaults` flag. Your command may look like this:

```
ojmigrate -generateDefaults @workspaces.txt
```

This command generates a properties file containing a list of defaults formatted as name/value pairs with comments. The key/value pair is per application and per NodeMigratorHelper, meaning that there is one set of key pairs for every application, and the key is prefixed with the class name of the corresponding NodeMigratorHelper.

The properties file is generated beside the `.jws` application you are trying to migrate. Its title will be formatted as `workspacename.migration.properties`.

If the file is generated, open it, change the appropriate values, and save your changes.

If you ran the command and do not see a file like this, no migrators generated defaults.

On the second pass, run the command without the `-generateDefaults` flag.

```
ojmigrate @workspaces.txt
```

If you still encounter errors, then some migrators may not be headless friendly. A developer should prepare your migrator for headless migration before attempting the two-pass migration again.

Preparing a NodeMigratorHelper for Headless Migration

If you need data from the user before performing a migration, you should do the following:

1. Override the `NodeMigratorHelper.generateDefaults(MigrationInf[], TraversableContext)` method. This method is called on your helper on the first run of the two-pass migration.

   Then use the `putDefault(String key, String value, String comment)` method to store the keys and default values you will retrieve on second run of the two-pass migration.

2. In your helper’s `migrate` method, call `isMigrationHeadless()` on the helper to test if the migration is headless. If so, use `getDefault(your_key)` to ask for your data values. Read the data and act accordingly during the migration.

### 3.4 Enabling Oracle JDeveloper Extensions

Oracle JDeveloper extensions (such as JUnit) are available through JDeveloper or by downloading from OTN.

To locate and install extensions using Oracle JDeveloper:

1. Launch JDeveloper.

2. Click **Help**, then select **Check for Updates** to launch an Update wizard.
3. On the first screen of the Update wizard, **Oracle Fusion Middleware Products** and **Official Oracle Extensions and Updates** are selected by default. Select the other two boxes if you want more options.

**Note:**
Starting in 12c (12.1.3), you can no longer download SOA extensions. You need to use a Quick Start distribution to obtain a version of JDeveloper pre-configured for either SOA Suite or Business Process Management Suite. See Introducing the Quick Start Distributions in *Installing SOA Suite and Business Process Management Suite Quick Start for Developers* for more information.

Click **Next** when you have identified and selected your sources.

4. On the **Updates** screen, select the extensions that you want to install and click **Next**.

5. On the **License Agreements** screen, you need to agree to the license terms for the extensions you selected on the previous screen. Click **Next** to begin the download.

6. When the extensions have finished downloading, the wizard displays a summary of the installations or upgrades that you installed. Click **Finish** to exit the wizard.

7. In the dialog box that appears, respond to the prompt to restart JDeveloper to finish installing updates.

Alternatively, you can manually download and install an Oracle JDeveloper extension from OTN as follows:


2. Select an Oracle JDeveloper extension. Make sure that you are selecting extensions for 12c (12.2.1), as there may be different versions of each extension for different versions of JDeveloper.

3. Follow the instructions to download the zip file.

4. Verify if there are additional installation instructions in the extension archive.

5. From the **Help** menu, select **Check for Updates**.

6. In Step 1 of the wizard, select **Install from a Local File** and navigate to the zip file on your system.

7. Finish the wizard and restart Oracle JDeveloper to use the extension.

### 3.5 Using Oracle WebLogic Server with Oracle JDeveloper

Installing Oracle JDeveloper Studio 12c (12.2.1) also automatically installs Oracle WebLogic Server 12c (12.2.1).

**Note:**
The information in this section is not applicable to the Java edition of Oracle JDeveloper.
Oracle JDeveloper uses the preconfigured Oracle WebLogic Server installation as the Integrated Oracle WebLogic Server and JDeveloper managed server for testing and debugging your applications from within the IDE. After installing Oracle JDeveloper, all the applications that you need to begin developing, testing, and debugging are installed and configured.

For additional information about using a standalone Oracle WebLogic Server instance with JDeveloper, see Deploying Applications in Developing Applications with Oracle JDeveloper.

Using the Integrated Oracle WebLogic Server

3.5.1 Using the Integrated Oracle WebLogic Server

Oracle JDeveloper is bundled with an integrated application server called Integrated WebLogic Server, and a default instance called IntegratedWebLogicServer is defined for it.

All applications are bound, by default, to IntegratedWebLogicServer. Oracle JDeveloper manages the Integrated WebLogic Server lifecycle for testing your application. The first time Integrated WebLogic Server is needed, Oracle JDeveloper creates the DefaultDomain and prompts you to provide the administrative username and password. The location of configuration files for the default domain is the DefaultDomain directory located in the Oracle JDeveloper system directory.

Note:
The Oracle WebLogic Server domain that is created for you during installation, DefaultDomain, is not intended for use outside of the IDE. To deploy ADF applications to a standalone Oracle WebLogic Server, the server must be configured to run ADF applications.

For more information, see Preparing the Standalone Application Server for Deployment in Administering Oracle ADF Applications.

The IntegratedWebLogicServer's DefaultDomain uses Java DB. If the IntegratedWebLogicServer fails to create the DefaultDomain, you should search for any preexisting instances of Java DB or Derby Client running in the background and stop them.

3.6 Understanding Oracle JDeveloper Accessibility Information

You can use a screen reader with Oracle JDeveloper, and become familiar with assistive technologies in Oracle products and Oracle JDeveloper.

Using a Screen Reader and Java Access Bridge with Oracle JDeveloper

Finding Accessibility Information

3.6.1 Using a Screen Reader and Java Access Bridge with Oracle JDeveloper

To make the best use of accessibility features, Oracle Corporation recommends the following minimum configuration:

- Windows XP, Windows Vista
- Java J2SE 1.7.0_15
• Java Access Bridge 2.0.1
• JAWS 12.0.522
• Microsoft Internet Explorer 7.0 or higher
• Mozilla Firefox 3.5 or higher

To set up a screen reader and Java Access Bridge:

---

**Note:**

- These steps apply to machines that have the Windows operating system.
- You must use a screen reader that is compatible with Windows.

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1. Install the screen reader if it is not already installed.
   
   For more information about installation, refer to the documentation for your screen reader.

2. Install Oracle JDeveloper.
   
   For information about performing a silent installation, see [Installing Oracle JDeveloper Studio in Silent Mode](#).

   
   For more information about Java Access Bridge, refer to the Java Access Bridge documentation available on the web site.

4. Extract the contents of the zip file to a folder, `accessbridge_home`.

5. Install Java Access Bridge by running the `install.exe` file from the `accessbridge_home\installer` folder.
   
   The installer first checks the JDK version for compatibility. Then, the Available Java virtual machines dialog displays.

6. Click **Search Disks**. Then customize your search for only the drive that contain the Oracle JDeveloper build and the JDK version in the program files directory (if it exists).

   The search process can take a long time if the disk that has many instances of JDK or Oracle JDeveloper, or when searching multiple disks. However, unless you complete an exhaustive search of your disk, Access Bridge will not be configured optimally, and will not be correctly installed to all of the Java virtual machines on your system. After selecting the disk to search, click **Search**.

7. Confirm that you want to install the Java Access Bridge into each of the Java virtual machines displayed in the dialog, by clicking **Install in All**.

8. Click **OK** when you see the Installation Completed message.

9. Confirm that the following files have been installed in the `Winnt\System32` directory (or the equivalent Windows XP or Vista directory), or copy them from
accessbridge_home\installerfiles, as they must be in the system path to work with Oracle JDeveloper:

JavaAccessBridge.dll
JWTAccessBridge.dll
WindowsAccessBridge.dll

Note that the system directory is required in the PATH system variable.

10. Confirm that the following files have been installed in the JDEV_HOME\jdk\jre \lib\ext directory, or copy them from accessbridge_home \installerfiles:

access-bridge.jar
jaccess-1_4.jar

11. Confirm that the file accessibility.properties has been installed in the jdev_home\jdk\jre\lib directory, or copy it from \installerfiles.

12. Start your screen reader.

13. Start Oracle JDeveloper by running the file jdev.exe located in the folder JDEV_HOME\jdeveloper\jdev\bin.

A console window that contains error information (if any) is displayed first. The Oracle JDeveloper window appears when Oracle JDeveloper starts up. Any error or warning messages that appear do not affect the functionality of Oracle JDeveloper.

3.6.2 Finding Accessibility Information

For the latest configuration information or for information about addressing accessibility and assistive technology issues, see the Oracle Accessibility FAQ at http://www.oracle.com/us/corporate/accessibility/faqs/index.htm. See also Oracle JDeveloper Accessibility Information in Developing Applications with Oracle JDeveloper.

3.7 Additional Resources

Useful Oracle resources related to Oracle JDeveloper are available on the Web.

The following table lists some sites you may find helpful.

<table>
<thead>
<tr>
<th>Description</th>
<th>URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corporate Site</td>
<td><a href="http://www.oracle.com/">http://www.oracle.com/</a></td>
</tr>
</tbody>
</table>
Deinstalling Oracle JDeveloper

Follow the instructions in this section to deinstall Oracle JDeveloper.

**Performing Pre-Deinstallation Tasks**
Before deinstalling Oracle Fusion Middleware software components, you should stop all Oracle JDeveloper processes.

**Deinstalling Oracle JDeveloper**
When you run the Oracle JDeveloper deinstaller, it removes everything under the Oracle home from which the deinstaller is started.

4.1 Performing Pre-Deinstallation Tasks
Before deinstalling Oracle Fusion Middleware software components, you should stop all Oracle JDeveloper processes.

For more information about starting and stopping Oracle Fusion Middleware, see Starting and Stopping Oracle Fusion Middleware in *Administering Oracle Fusion Middleware*.

4.2 Deinstalling Oracle JDeveloper
When you run the Oracle JDeveloper deinstaller, it removes everything under the Oracle home from which the deinstaller is started.

Be sure that no system components are using the Oracle home (referred to in this guide as `JDEV_HOME`) you want to remove.

**Starting the Deinstaller**

**Manually Removing Artifacts**

4.2.1 Starting the Deinstaller
To deinstall Oracle JDeveloper Studio:

1. Go to the following location in your `JDEV_HOME`:
   - On a Windows system:
     
     `JDEV_HOME\oui\bin`
   - On Linux, UNIX, and Mac OS X systems:
     
     `JDEV_HOME/oui/bin`  

2. Start the deinstaller by running the following command:
   - On a Windows system:
     
     `install.exe -deinstall`
4.2.2 Manually Removing Artifacts

If you selected No on the warning screen during deinstallation, you must manually remove your JDEV_HOME directory and all sub-directories. For example, if your JDEV_HOME directory is /home/Oracle/, then on a Linux or UNIX operating system run the following command:

\[ cd /home/Oracle/ \]
\[ rm -rf JDEV_HOME \]

On a Windows operating system, if your JDEV_HOME directory is C:\Oracle\JDEV_HOME, use a file manager window and navigate to the C:\Oracle\ directory, then right-click on the JDEV_HOME folder and select Delete.

If you plan on doing a clean reinstall of JDeveloper in the future, you should also find and delete the product.conf file that contains JDeveloper settings from previous installations.

If you did not redefine your user home directory, product.conf will be located at %USERPROFILE%\AppData\Roaming\JDeveloper\system12.2.1.XX.XX.XX for Windows and $HOME/.jdeveloper/12.2.1.0.0 for Linux.
Silent Installation and Deinstallation of Oracle JDeveloper

Silent-mode installation and deinstallation is a way of setting configurations only once to ensure that no configuration options are displayed during the installation or deinstallation process.

During installation in silent mode, the installation program reads the settings from a response file that you create before beginning the installation:

- Installing Oracle JDeveloper Studio in Silent Mode
- Deinstalling Oracle JDeveloper in Silent Mode

A.1 Installing Oracle JDeveloper Studio in Silent Mode

For information about installing Oracle JDeveloper in silent mode, see Running the Oracle Universal Installer in Silent Mode in Installing Software with the Oracle Universal Installer.

A.2 Deinstalling Oracle JDeveloper in Silent Mode

For information about deinstalling Oracle JDeveloper in silent mode, see Running the Oracle Universal Installer for Silent Deinstallation in Installing Software with the Oracle Universal Installer.