

Installing Oracle WebLogic Server 11g

Objectives

After completing this lesson, you should be able to:

- Explain Oracle WebLogic Server installation steps
- Install WebLogic Server using both the GUI and command line: `admin_client.jar`
- Describe the organization and contents of the WebLogic Server directory structure
- Navigate the WebLogic Server online and offline documentation
- Explain the importance of WebLogic Server installation in the context of other products in the Fusion Middleware suite

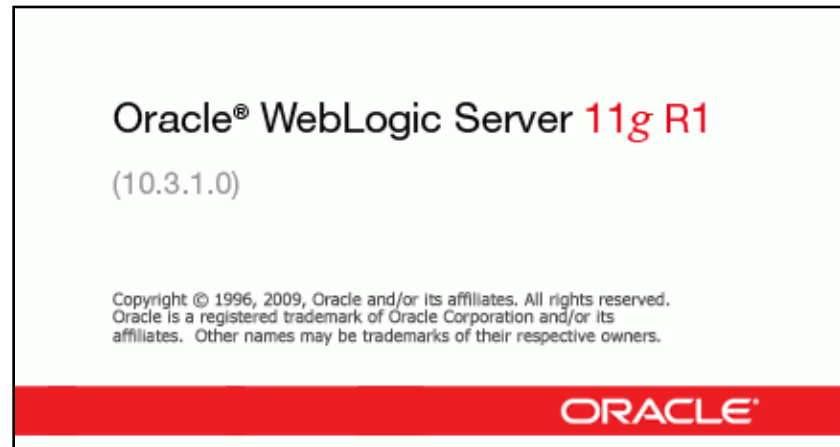
Road Map

- Setting up an Oracle WebLogic Server environment using the GUI
- Setting up an Oracle WebLogic Server environment using the command line



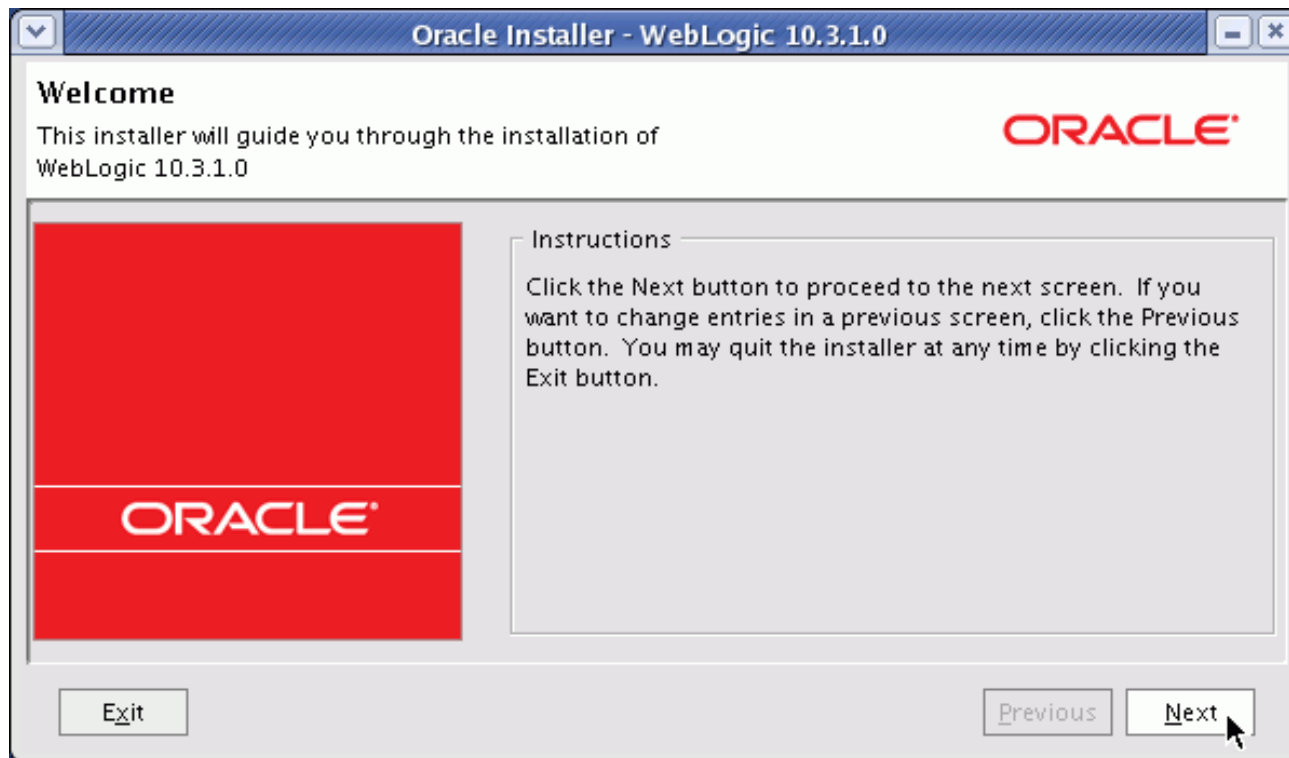
Oracle WebLogic Server Installation

- Install Oracle WebLogic Server in three different ways:
 - GUI mode
 - Console mode
 - Silent mode
- Oracle WebLogic Server supports a number of platforms including:
 - Linux
 - Sun Solaris
 - HP-UX
 - Windows 2000, 2003 Server, XP



GUI Mode Installation

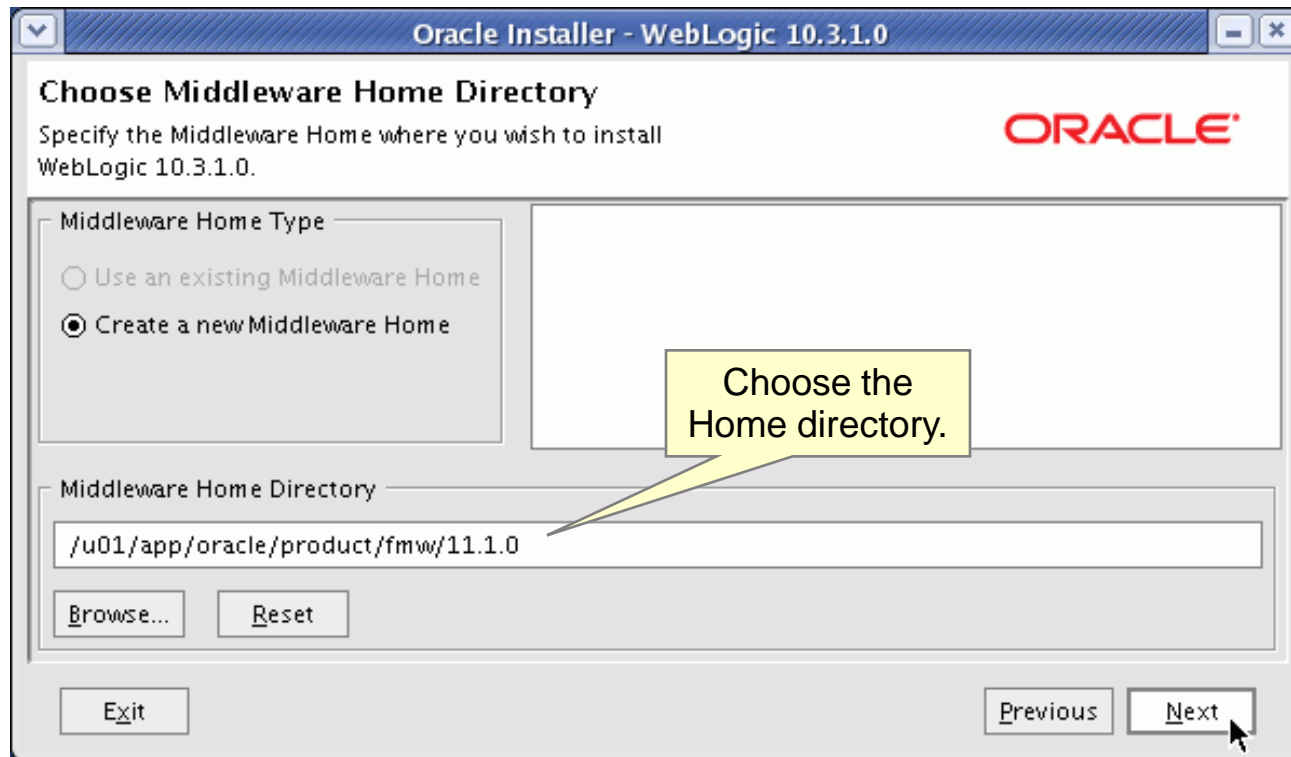
Start the Installer (net or package).



wls1031_ccjk_linux32.bin,
wls1031_linux32.bin, **or** wls1031_win32.exe

Choosing or Creating a Home Directory

Browse or enter a destination.



Registering for Support

Optional, but recommended

Oracle Installer - WebLogic 10.3.1.0

Register for Security Updates

Provide your email address to be informed of security issues, install the product, and initiate configuration manager. <http://www.oracle.com/support/policies.html>

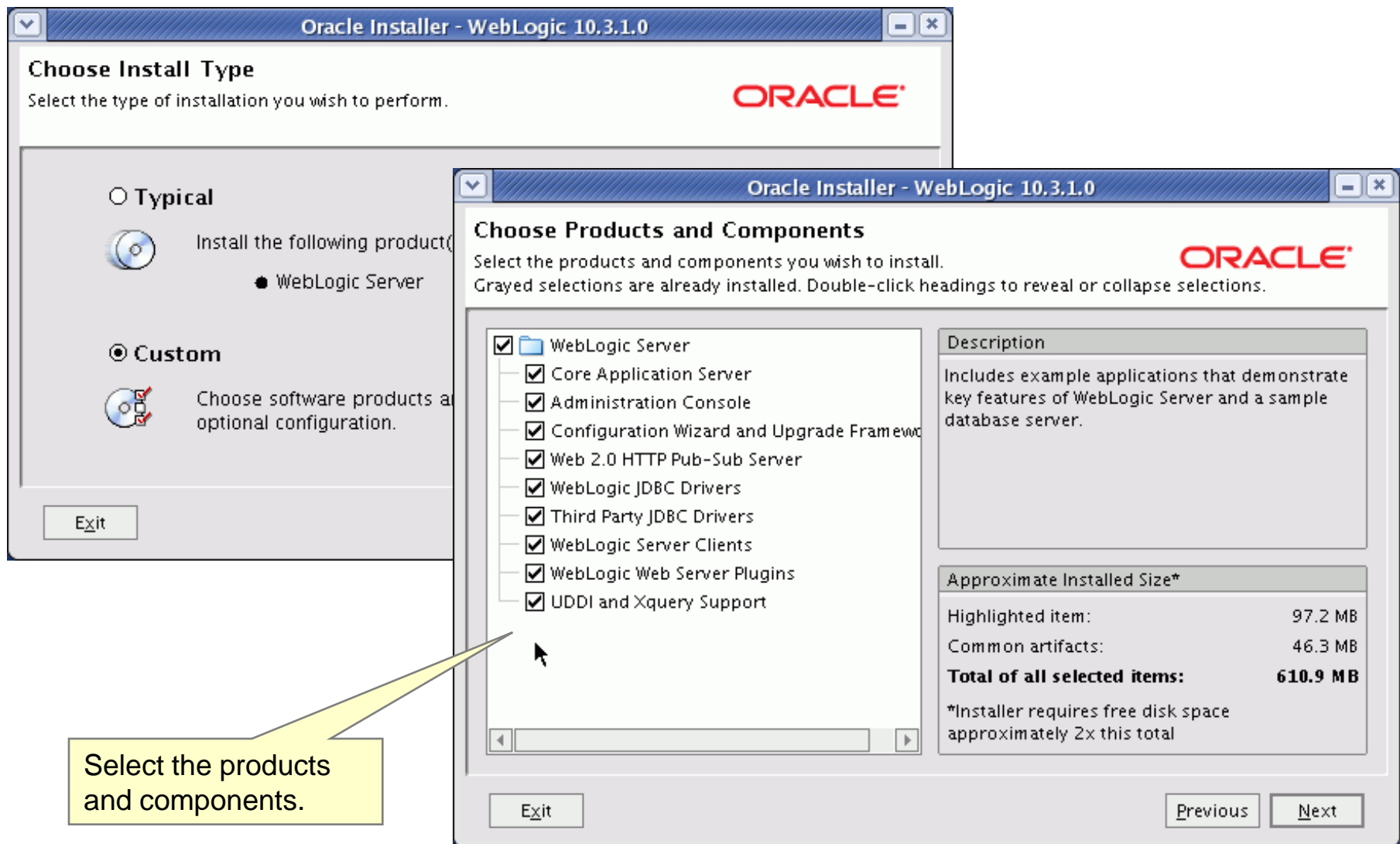
Email:

Easier for you if you use your My Oracle Support email address/username.

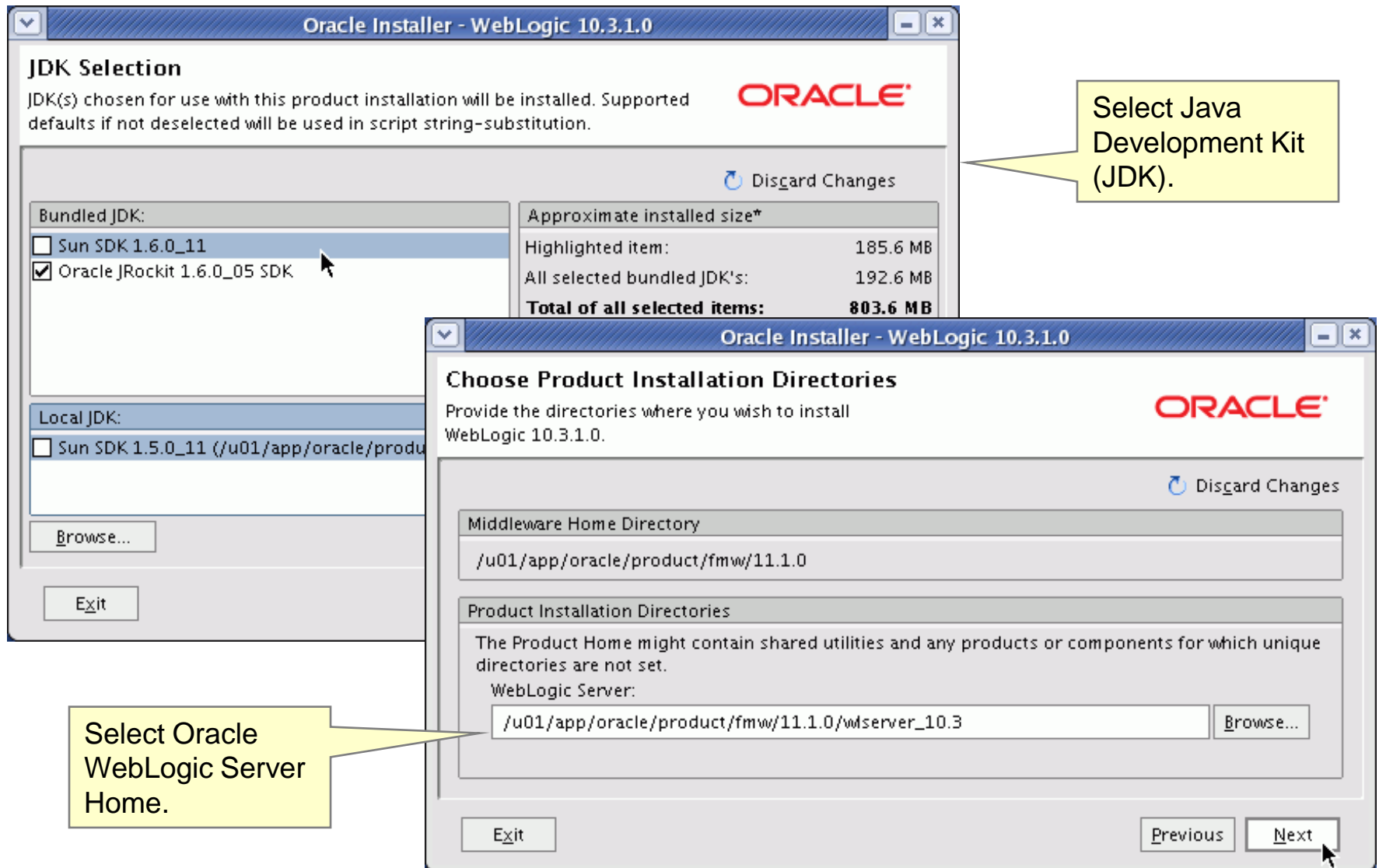
☒ I wish to receive security updates via My Oracle Support

My Oracle Support Password:

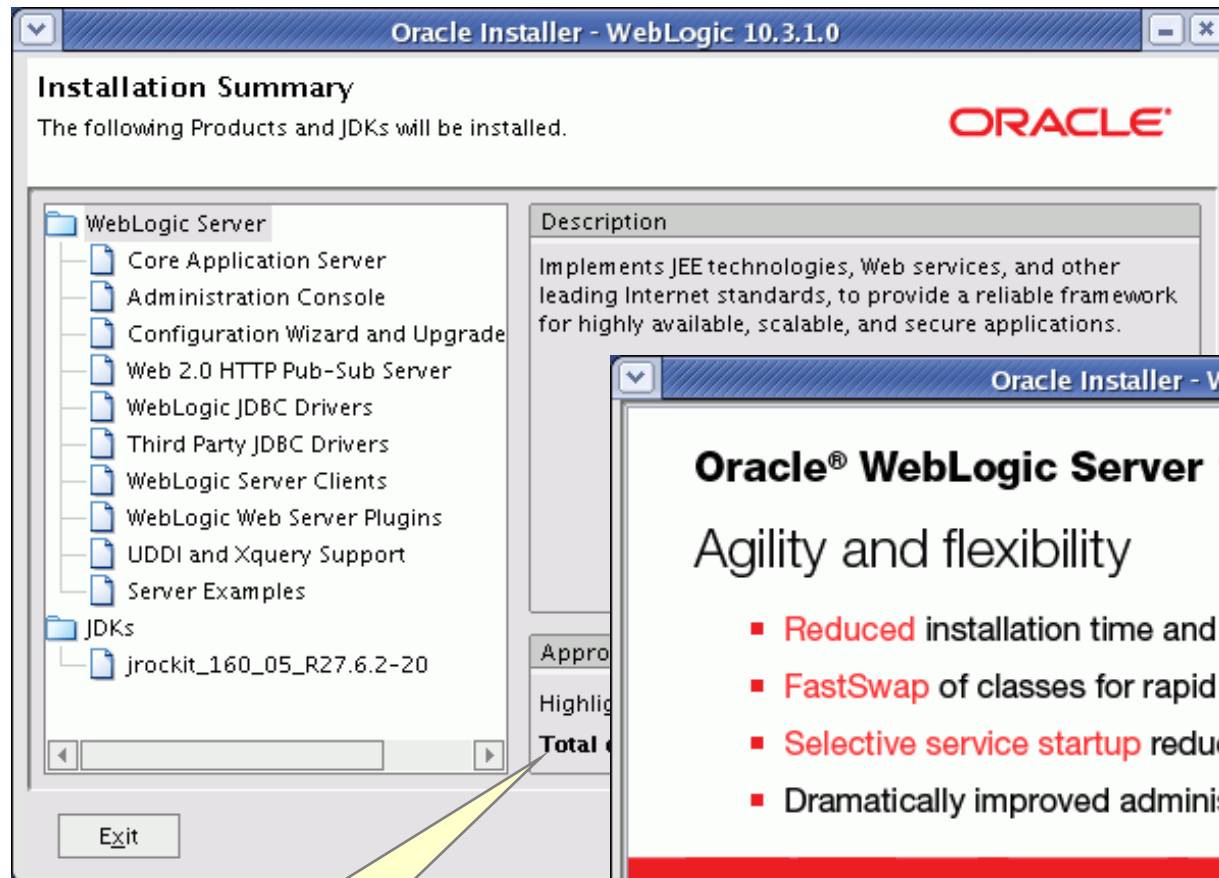
Choosing an Installation Type and Products



Choosing the JDK and Product Directory



Installation and Summary



Repeats total
selected size:
803.6 MB.



Road Map

- Setting up an Oracle WebLogic Server environment using the GUI
- Setting up an Oracle WebLogic Server environment using the command line



Console and Silent Mode Installations

- Console mode:
 - `wls1031_linux32.bin -mode=console`
 - The installation steps are similar to the GUI-based installation.
- Silent mode:
 - Create a `silent.xml` file.
 - `wls1031_linux32.bin -mode=silent
-silent_xml=path_to_silent.xml`

Postinstallation: Oracle Home

- `/u01/app/oracle/product/fmw/11.1.0/`:
Oracle Home
- `registry.dat/registry.xml`:
Record of all Oracle Middleware products
- `utils`: Additional or utility JAR files
- `wlserver_10.3`: Oracle WebLogic Server 10.3.1 Home
- `logs`: Installation logs
- `modules`: Modules (`.jar`) installed in Oracle Home

```
[oracle@wls-sysadm /]$ ls /u01/app/oracle/product/fmw/11.1.0
jrockit_160_05_R27.6.2-20  logs  modules  ocm.rsp  registry.dat  registry.xml
utils  wlserver_10.3
```

```
[oracle@wls-sysadm /]$ ls /u01/app/oracle/product/fmw/11.1.0/wlserver_10.3/
common  inventory  samples  server  uninstall
```

Oracle WebLogic Server Directory Structure

- `common`: The files shared by the Oracle WebLogic Server 10.3.1 components, including the template JAR files used by the Configuration Wizard when creating domains
- `samples`: Sample code and resources
- `server`: Server software components (executables, database files, XML JAR files, alternative JDBC drivers, Oracle WebLogic Server JAR files, and plug-ins)
- `uninstall`: The code required to uninstall Oracle WebLogic Server 10.3.1

```
[oracle@wls-sysadm /]$ ls /u01/app/oracle/product/fmw/11.1.0  
jrockit_160_05_R27.6.2-20  logs  modules  ocm.rsp  registry.dat  registry.xml  
utils  wlserver_10.3
```

```
[oracle@wls-sysadm /]$ ls /u01/app/oracle/product/fmw/11.1.0/wlserver_10.3/  
common  inventory  samples  server  uninstall
```

Setting Environment Variables

- Run `setWLSEnv.sh` under `<WL_HOME>/server/bin` to set `WL_HOME`, `JAVA_HOME`, `PATH`, and `CLASSPATH`.
- `setWLSEnv.sh` makes a call to `commEnv.sh` under `<WL_HOME>/common/bin` to set common environment variables, such as `ORACLE_HOME`, `ANT_HOME`, and `POINTBASE_HOME`.
- Check the version of JDK:
 - `java -version`

```
[oracle@wls-sysadm /]$ java -version
java version "1.6.0_05"
Java(TM) SE Runtime Environment (build 1.6.0_05-b13)
BEA JRockit(R) (build R27.6.1-25_o-105709-1.6.0_05-20081111-1602-linux-ia32,
    compiled mode)
```

Defining Environment Variables

- OS specific:
 - Windows: %SOME_VAR%
 - UNIX: \$SOME_VAR
 - Generic: <SOME_VAR>
- Kinds of environment variables:
 - Location variables: *_HOME
 - Path variables: *_PATH
 - Names
 - Miscellaneous
- Scope:
 - Preinstallation
 - Running session

List of Environment Variables and Their Meanings

- BEA_HOME
- MW_HOME
- WL_HOME
- PATH
- CLASSPATH
- JAVA_HOME
- JAVA_OPTIONS
- JAVA_VENDOR
- JAVA_VM
- JAVA_USE_64BIT
- LD_LIBRARY_PATH
- LIBPATH
- SHLIB_PATH
- MEM_ARGS
- SERVER_NAME
- WEBLOGIC_CLASSPATH
- CLASSPATHSEP
- PATHSEP
- POINTBASE_HOME
- POINTBASE_TOOL
- POINTBASE_CLASSPATH
- POINTBASE_CLIENT_CLASSPATH
- PRODUCTION_MODE
- PATCH_CLASSPATH
- PATCH_LIBPATH
- PATCH_PATH
- WEBLOGIC_EXTENSION_DIRS
- USER_MEM_ARGS
- PRODUCTION_MODE
- DOMAIN_PRODUCTION_MODE
- ANT_HOME
- ANT_CONTRIB
- PRE_CLASSPATH
- POST_CLASSPATH
- PRE_PATH
- POST_PATH

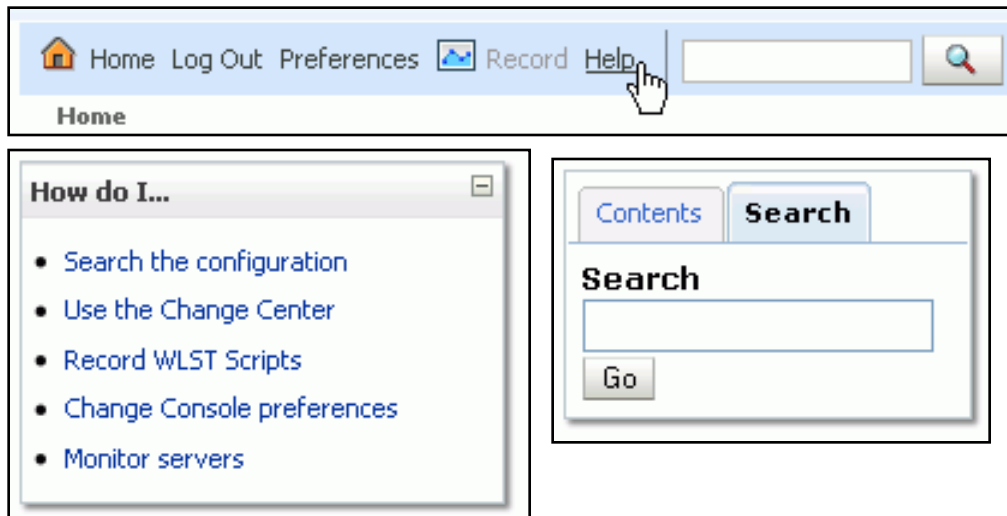
Documentation

Offline (Web)

- <http://edocs.bea.com/wls/docs103/sitemap.html>
- http://download.oracle.com/docs/cd/E12840_01/wls/docs103/sitemap.html

Online (WLS)

- Administration Console



Downloading Software from OTN

Oracle Fusion Middleware 10gR3 Application Server Downloads - Mozilla Firefox

http://www.oracle.com/technology/software/products/ias/index.html

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For Development:

Oracle WebLogic Server 10.3 Net Installer

The Net Installer is a download manager and installation program that allows you to download and install only the WebLogic Server components you select, without having to download the entire WebLogic Server installation package. You can always add more WebLogic Server components to your installation at a later time if you wish. The advantage of using the Net Installer is that you can minimize the amount of time spent downloading WebLogic Server software before getting started with development.

Linux x86 (42 MB) | Windows x86 (39 MB) | [See All](#)

Mandatory for 10.3 Net/Package Installers: [Apache Plug-ins.zip](#)
- [Security Advisory Page](#)
- [Instructions](#)

Oracle JDeveloper 10g Release 3 (10.1.3.3)

Integrated development environment certified on Windows NT/2000/XP, Linux, and Macintosh. **License is free** (read the [Pricing FAQ](#)).

Studio Edition (JDeveloper + ADF + WebCenter Extension; 441MB) | [See All](#)

For Deployment:

Developer Downloads

- Oracle Enterprise Pack for Eclipse
- Oracle Database XE
- Oracle JDeveloper 11g & ADF
- Oracle JRockit
- Oracle SOA Suite
- Oracle SQL Developer
- Oracle WebCenter Suite

Related Downloads

- Oracle Identity Management (10.1.4.0.1)
- Oracle Business Intelligence (10.1.3.x)
- Oracle WebCenter (10.1.3.x)
- Oracle Coherence

Learn More

- Fusion Middleware Supported Configuration

Updated when 10.3.1 is generally available

Quiz

Net installer is preferred over the package installer if you want to install select components using only the Custom option and have access to the Internet.

1. True
2. False

Quiz

Which JDK does Oracle WebLogic Server 10.3.1 come bundled with for a Linux platform?

1. Sun SDK 1.6
2. JRockit SDK 1.6
3. Both

Summary

In this lesson, you should have learned how to:

- Install Oracle WebLogic Server 10.3.1
- Describe the organization and contents of the WebLogic Server directory structure
- Navigate the WebLogic Server online and offline documentation

Practice 3 Overview:

Installing Oracle WebLogic Server 11g

This practice covers the following topics:

- Installing Oracle WebLogic Server with JRockit
- Navigating through the installed folder structure