Oracle® GlassFish Server 3.1 Installation Guide

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Contents

Preface

This document contains instructions for installing and uninstalling Oracle GlassFish Server 3.1 software.

This preface contains information about and conventions for the entire Oracle GlassFish Server (GlassFish Server) documentation set.

GlassFish Server 3.1 is developed through the GlassFish project open-source community at http://glassfish.java.net/. The GlassFish project provides a structured process for developing the GlassFish Server platform that makes the new features of the Java EE platform available faster, while maintaining the most important feature of Java EE: compatibility. It enables Java developers to access the GlassFish Server source code and to contribute to the development of the GlassFish Server. The GlassFish project is designed to encourage communication between Oracle engineers and the community.

The following topics are addressed here:

GlassFish Server Documentation Set

The GlassFish Server documentation set describes deployment planning and system installation. For an introduction to GlassFish Server, refer to the books in the order in which they are listed in the following table.

TABLE P–1 Books in the GlassFish Server Documentation Set

Book Title	Description
Release Notes	Provides late-breaking information about the software and the documentation and includes a comprehensive, table-based summary of the supported hardware, operating system, Java Development Kit (JDK), and database drivers.
Quick Start Guide	Explains how to get started with the GlassFish Server product.
Installation Guide	Explains how to install the software and its components.
Upgrade Guide	Explains how to upgrade to the latest version of GlassFish Server. This guide also describes differences between adjacent product releases and configuration options that can result in incompatibility with the product specifications.
Deployment Planning Guide	Explains how to build a production deployment of GlassFish Server that meets the requirements of your system and enterprise.
Administration Guide	Explains how to configure, monitor, and manage GlassFish Server subsystems and components from the command line by using the `asadmin(1M)` utility. Instructions for performing these tasks from the Administration Console are provided in the Administration Console online help.
Security Guide	Provides instructions for configuring and administering GlassFish Server security.
Application Deployment Guide	Explains how to assemble and deploy applications to the GlassFish Server and provides information about deployment descriptors.
Application Development Guide	Explains how to create and implement Java Platform, Enterprise Edition (Java EE platform) applications that are intended to run on the GlassFish Server. These applications follow the open Java standards model for Java EE components and application programmer interfaces (APIs). This guide provides information about developer tools, security, and debugging.
Add-On Component Development Guide	Explains how to use published interfaces of GlassFish Server to develop add-on components for GlassFish Server. This document explains how to perform *only* those tasks that ensure that the add-on component is suitable for GlassFish Server.
Embedded Server Guide	Explains how to run applications in embedded GlassFish Server and to develop applications in which GlassFish Server is embedded.
High Availability Administration Guide	Explains how to configure GlassFish Server to provide higher availability and scalability through failover and load balancing.
Performance Tuning Guide	Explains how to optimize the performance of GlassFish Server.

TABLE P–1   Books in the GlassFish Server Documentation Set   *(Continued)*

Book Title	Description
Troubleshooting Guide	Describes common problems that you might encounter when using GlassFish Server and explains how to solve them.
Error Message Reference	Describes error messages that you might encounter when using GlassFish Server.
Reference Manual	Provides reference information in man page format for GlassFish Server administration commands, utility commands, and related concepts.
Message Queue Release Notes	Describes new features, compatibility issues, and existing bugs for GlassFish Server Message Queue.
Message Queue Technical Overview	Provides an introduction to the technology, concepts, architecture, capabilities, and features of the Message Queue messaging service.
Message Queue Administration Guide	Explains how to set up and manage a Message Queue messaging system.
Message Queue Developer's Guide for JMX Clients	Describes the application programming interface in Message Queue for programmatically configuring and monitoring Message Queue resources in conformance with the Java Management Extensions (JMX).
Message Queue Developer's Guide for Java Clients	Provides information about concepts and procedures for developing Java messaging applications (Java clients) that work with GlassFish Server.
Message Queue Developer's Guide for C Clients	Provides programming and reference information for developers working with Message Queue who want to use the C language binding to the Message Queue messaging service to send, receive, and process Message Queue messages.

Related Documentation

The following tutorials explain how to develop Java EE applications:

- *Your First Cup: An Introduction to the Java EE Platform* (`http://download.oracle.com/javaee/6/firstcup/doc/`). For beginning Java EE programmers, this short tutorial explains the entire process for developing a simple enterprise application. The sample application is a web application that consists of a component that is based on the Enterprise JavaBeans specification, a JAX-RS web service, and a JavaServer Faces component for the web front end.

- *The Java EE 6 Tutorial* (`http://download.oracle.com/javaee/6/tutorial/doc/`). This comprehensive tutorial explains how to use Java EE 6 platform technologies and APIs to develop Java EE applications.

Javadoc tool reference documentation for packages that are provided with GlassFish Server is available as follows.

- The API specification for version 6 of Java EE is located at `http://download.oracle.com/javaee/6/api/`.

- The API specification for GlassFish Server 3.1, including Java EE 6 platform packages and nonplatform packages that are specific to the GlassFish Server product, is located at `http://glassfish.java.net/nonav/docs/v3/api/`.

Additionally, the Java EE Specifications (`http://www.oracle.com/technetwork/java/javaee/tech/index.html`) might be useful.

For information about creating enterprise applications in the NetBeans Integrated Development Environment (IDE), see the NetBeans Documentation, Training & Support page (`http://www.netbeans.org/kb/`).

For information about the Java DB database for use with the GlassFish Server, see the Java DB product page (`http://www.oracle.com/technetwork/java/javadb/overview/index.html`).

The Java EE Samples project is a collection of sample applications that demonstrate a broad range of Java EE technologies. The Java EE Samples are bundled with the Java EE Software Development Kit (SDK) and are also available from the Java EE Samples project page (`http://java.net/projects/glassfish-samples`).

Typographic Conventions

The following table describes the typographic changes that are used in this book.

TABLE P–2   Typographic Conventions

Typeface	Meaning	Example
AaBbCc123	The names of commands, files, and directories, and onscreen computer output	Edit your `.login` file. Use `ls -a` to list all files. `machine_name% you have mail.`
AaBbCc123	What you type, contrasted with onscreen computer output	`machine_name%` **su** `Password:`
AaBbCc123	A placeholder to be replaced with a real name or value	The command to remove a file is `rm` *filename*.
AaBbCc123	Book titles, new terms, and terms to be emphasized (note that some emphasized items appear bold online)	Read Chapter 6 in the *User's Guide*. A *cache* is a copy that is stored locally. Do *not* save the file.

Symbol Conventions

The following table explains symbols that might be used in this book.

TABLE P–3   Symbol Conventions

Symbol	Description	Example	Meaning
[ ]	Contains optional arguments and command options.	ls [-l]	The -l option is not required.
{ | }	Contains a set of choices for a required command option.	-d {y|n}	The -d option requires that you use either the y argument or the n argument.
${ }	Indicates a variable reference.	${com.sun.javaRoot}	References the value of the com.sun.javaRoot variable.
-	Joins simultaneous multiple keystrokes.	Control-A	Press the Control key while you press the A key.
+	Joins consecutive multiple keystrokes.	Ctrl+A+N	Press the Control key, release it, and then press the subsequent keys.
→	Indicates menu item selection in a graphical user interface.	File → New → Templates	From the File menu, choose New. From the New submenu, choose Templates.

Default Paths and File Names

The following table describes the default paths and file names that are used in this book.

TABLE P–4   Default Paths and File Names

Placeholder	Description	Default Value
as-install	Represents the base installation directory for GlassFish Server. In configuration files, *as-install* is represented as follows: ${com.sun.aas.installRoot}	Installations on the Oracle Solaris operating system, Linux operating system, and Mac OS operating system: *user's-home-directory*/glassfish3/glassfish Windows, all installations: *SystemDrive*:\glassfish3\glassfish

TABLE P–4 Default Paths and File Names *(Continued)*

Placeholder	Description	Default Value
as-install-parent	Represents the parent of the base installation directory for GlassFish Server.	Installations on the Oracle Solaris operating system, Linux operating system, and Mac operating system: *user's-home-directory*/`glassfish3` Windows, all installations: *SystemDrive*:\`glassfish3`
domain-root-dir	Represents the directory in which a domain is created by default.	*as-install*/`domains/`
domain-dir	Represents the directory in which a domain's configuration is stored. In configuration files, *domain-dir* is represented as follows: `${com.sun.aas.instanceRoot}`	*domain-root-dir*/*domain-name*

Documentation, Support, and Training

The Oracle web site provides information about the following additional resources:

- Documentation (http://www.oracle.com/technetwork/indexes/documentation/index.html)
- Support (http://www.oracle.com/us/support/index.html)
- Training (http://education.oracle.com/)

Searching Oracle Product Documentation

Besides searching Oracle product documentation from the Oracle Documentation (http://www.oracle.com/technetwork/indexes/documentation/index.html) web site, you can use a search engine by typing the following syntax in the search field:

search-term **site:oracle.com**

For example, to search for "broker," type the following:

broker site:oracle.com

Third-Party Web Site References

Third-party URLs are referenced in this document and provide additional, related information.

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Installing GlassFish Server 3.1

This chapter provides instructions for installing Oracle GlassFish Server 3.1 software on Solaris, Linux, Mac OS X, and Windows systems.

The following topics are addressed here:

- "Installation Requirements" on page 13
- "Installation Files for GlassFish Server 3.1" on page 21
- "Installing GlassFish Server From a ZIP File" on page 27
- "Installing GlassFish Server From a Self-Extracting Bundle" on page 28
- "Performing a Silent Mode Installation" on page 38
- "Installation Command-Line Options" on page 45

Installation Requirements

Before installing Oracle GlassFish Server 3.1, ensure that your system meets the requirements listed in "Hardware and Software Requirements" in *Oracle GlassFish Server 3.1-3.1.1 Release Notes*. If necessary, download and install the required JDK software. Problems are likely to arise if you attempt to install on a platform that is not supported or on a system that in some other way does not meet release requirements. Also see "Known Issues" in *Oracle GlassFish Server 3.1-3.1.1 Release Notes* for known issues related to installation.

- On Solaris, Linux, and Windows systems, JDK software is available from the Java SE downloads page.
- For Mac OS X systems, GlassFish Server uses the JDK that is part of the Macintosh operating system. If necessary, obtain the required JDK version from the Mac OS X Updates site.

Javassist Library License Notice

You are receiving a copy of the Javassist (Java Programming Assistant) Library in source form at
http://repo1.maven.org/

`maven2/org/javassist/javassist/3.14.0-GA/javassist-3.14.0-GA-sources.jar` and in object code form in the jar file `glassfish/modules/weld-osgi-bundle.jar` included with the distribution. The terms of the Oracle license do NOT apply to the Javassist (Java Programming Assistant) program; it is licensed under the following license, separately from the Oracle programs you receive. If you do not wish to install this program, you may choose to not proceed with the installation of Oracle GlassFish Server.

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Installation Files for GlassFish Server 3.1

The following topics are addressed here:

GlassFish Server Download Locations

Installation files for Oracle GlassFish Server 3.1 are available from the GlassFish Server Downloads (`http://www.oracle.com/technetwork/middleware/glassfish/downloads/index.html`) page.

GlassFish Server Installation Methods

Table 1–1 lists the various Oracle GlassFish Server installation methods. The table also provides links to installation instructions for each method.

Note – Before performing any GlassFish Server installation, ensure that your environment adheres to the JDK guidelines in "Paths and Environment Settings for the JDK Software" in *Oracle GlassFish Server 3.1-3.1.1 Release Notes*.

TABLE 1–1   GlassFish Server 3.1 Installation Methods

Installation Method	Installation Instructions
Multi-platform ZIP file	"Installing GlassFish Server From a ZIP File" on page 27.
Solaris, Linux, Mac OS, UNIX, or Windows self-extracting bundle in graphical mode	"Installing GlassFish Server From a Self-Extracting Bundle" on page 28.
Solaris, Linux, Mac OS, UNIX, or Windows self-extracting bundle in silent mode	"Performing a Silent Mode Installation" on page 38

Each of the installation methods listed in Table 1–1 also let you choose between installing the *Full Platform* or the *Web Profile*. These two distributions are explained in the next section.

Choosing an Installation Method

There are two general sets of questions you should consider when deciding which GlassFish Server 3.1 installation method to use.

- "ZIP Package or Self-Extracting Bundle?" on page 23
- "Full Platform or Web Profile Distribution?" on page 23

ZIP Package or Self-Extracting Bundle?

The relative features and strengths of the GlassFish Server ZIP packages and self-extracting bundles are listed below.

- **ZIP Package**
  - Is simpler to install, but provides no configuration options during the installation
  - Any additional configurations must be performed manually, after installation
  - Includes Update Tool and pkg utility installer stubs, which can be used to install those utilities after GlassFish Server installation
  - If uninstallation is desired, product must be uninstalled manually
  - Product downloads are roughly 25%-30% larger than the analogous self-extracting bundles

- **Self-Extracting Bundle**
  - Provides a GUI-based installation wizard with many configuration options
  - The installation wizard can be used again after the initial installation to perform additional configuration tasks
  - Can be used to perform Silent Mode installation, which is useful for performing consistent script-based installations on multiple server machines
  - Provides the option to install the full Update Tool and pkg utility at installation time
  - If uninstallation is required, a GUI-based uninstaller is provided

Full Platform or Web Profile Distribution?

Each of the installation methods listed in Table 1–1 also let you choose to install either the GlassFish Server *Full Platform* or *Web Profile* distribution. Table 1–2 lists the features available in each of these two distributions. Note that some of these features are value-adds, and are not required by the Java 6 EE specification.

TABLE 1–2   GlassFish Server Full Profile and Web Profile Features

Feature	Full Platform	Web Profile
Java Platform, Enterprise Edition 6	X	X
EJB 3.1 Lite (Support for Local Container only)	X	X
JTS/JTA 1.1 **	X	X
OSGi-based microkernel	X	X
Java Web Technologies (Servlet 3.0, JSP 2.2, JSF 2.0, JSTL 1.2, EL 2.2)	X	X
Grizzly/Comet	X	X

TABLE 1–2   GlassFish Server Full Profile and Web Profile Features   *(Continued)*

Feature	Full Platform	Web Profile
JPA 2.0, (EclipseLink), JDBC Connection Pooling	X	X
JDBC 4.0	X	X
JavaDB 10.5.3	X	X
Web Administration Console and CLI	X	X
Rapid Redeployment (Maintain session state on application redeploy)	X	X
OMG CORBA APIs 3.0	X	X
Debugging Support for Other Languages 1.0	X	X
Common Annotations for Java 1.1	X	X
Dependency Injection for Java 1.0	X	X
Managed Beans 1.0	X	X
Interceptors 1.1	X	X
Contexts and Dependency Injection for Java 1.0 (CDI, ex-Web Beans)	X	X
Bean Validation 1.0	X	X
JAX-RS 1.1 (Jersey)	X	X
EJB 3.1 Full API (Support for Remote Container)	X	-
Java EE Connector Architecture 1.6	X	-
JAX-WS 2.2	X	-
JAXB 2.2	X	-
Implementing Java Web Services 1.3	X	-
Web Services Metadata for the Java Platform 2.1	X	-
JMS 1.1	X	-
JavaMail 1.4	X	-
JACC 1.4	X	-
Java Authentication Service Provider Interface for Containers 1.1	X	-
Java EE Application Deployment 1.2	X	-
J2EE Management 1.1	X	-

TABLE 1–2 GlassFish Server Full Profile and Web Profile Features *(Continued)*

Feature	Full Platform	Web Profile
JAX-RPC 1.1	X	-
JAXR 1.0	X	-
CORBA 3.0.0	X	*
Metro	X	-

* The Full Java EE Platform contains the complete CORBA package. The OMG CORBA v3.0 APIs are available in the Java EE Web Profile.

** Transaction propagation not supported.

Note – Regardless of whether you choose the Full Platform or Web Profile distribution, you can add or removed packages after installation by using the Update Tool or pkg utility. See Chapter 11, "Extending and Updating GlassFish Server," in *Oracle GlassFish Server 3.1 Administration Guide* for more information.

GlassFish Server ZIP Files

The Oracle GlassFish Server 3.1 multi-platform ZIP files are compatible with Solaris, Linux, Mac OS, UNIX, and Windows operating systems. See "GlassFish Server Download Locations" on page 22 for a list of download locations.

Table 1–3 lists the available ZIP file downloads.

Note – In all cases, the *-ml.zip bundles in the table are multilingual versions of the product.

TABLE 1–3 GlassFish Server Downloadable ZIP Files

ZIP File	Description
ogs-3.1.zip ogs-3.1—ml.zip	Full Platform distribution of Oracle GlassFish Server
ogs-3.1-web.zip ogs-3.1—web-ml.zip	Web Profile distribution of Oracle GlassFish Server

GlassFish Server Self-Extracting Bundles

The Oracle GlassFish Server 3.1 self-extracting bundles are platform-specific, and are available for Solaris, Linux, Mac OS, UNIX, and Windows operating systems. See "GlassFish Server Download Locations" on page 22 for a list of download locations.

Table 1–4 lists the available self-extracting bundles.

Note – In all cases, the `*-ml.*` bundles in the table are multilingual versions of the product.

TABLE 1–4   GlassFish Server Self-extracting Bundles

Self—Extracting Bundle	Description

`ogs-3.1-unix.sh`
`ogs-3.1-windows.exe`
`ogs-3.1-unix-ml.sh`
`ogs-3.1-windows-ml.exe`
	Full Platform distribution of Oracle GlassFish Server for Solaris, Linux, and Mac OS X systems (`*-unix.sh`) and Windows (`*-windows.exe`)

`ogs-3.1-web-unix.sh`
`ogs-3.1-web-windows.exe`
`ogs-3.1-web-unix-ml.sh`
`ogs-3.1-web-windows-ml.exe`
	Web Profile distribution of Oracle GlassFish Server for Solaris, Linux, and Mac OS X systems (`*-unix.sh`) and Windows (`*-windows.exe`)

HTTP Load Balancer Plug-in for Oracle GlassFish Server

The HTTP Load Balancer Plug-in for Oracle GlassFish Server 3.1 provides high availability load balancing features for GlassFish Server.

The Plug-in is shipped as a ZIP bundle that you install after installing and configuring GlassFish Server and your desired Web server. The Plug-in is installed by means of a graphical Load Balancer Configurator that helps you configure your Web server and GlassFish Server to work together.

Note – The Load Balancer Plug-in is only available to customers who are using Oracle GlassFish Server 3.1. The Plug-in is not available for GlassFish Server Open Source Edition.

See Chapter 7, "Configuring Web Servers for HTTP Load Balancing," in *Oracle GlassFish Server 3.1-3.1.1 High Availability Administration Guide* for instructions on installing the HTTP Load Balancer Plug-in and performing the configuration steps required to make the Plug-in work with your Web server.

Installing GlassFish Server From a ZIP File

This section describes how to install Oracle GlassFish Server 3.1 using the multi-platform ZIP file. GlassFish Server is installed by unzipping the file in the installation directory of your choice.

Note – It is not possible to specify any GlassFish Server configuration options during a ZIP file installation. Any configuration changes, such as creating domains, clusters, and server instances, must be made manually after installation. If you prefer to make such changes during the GlassFish Server installation process, or if you prefer to use the GUI-based installation wizard, follow the instructions in "Installing GlassFish Server From a Self-Extracting Bundle" on page 28.

▼ To Install GlassFish Server Using the ZIP File

Before You Begin   Ensure that your system meets the requirements listed in "Hardware and Software Requirements" in *Oracle GlassFish Server 3.1-3.1.1 Release Notes*.

Also see "Known Issues" in *Oracle GlassFish Server 3.1-3.1.1 Release Notes* for known issues related to installation.

1   **Download the desired GlassFish Server 3.1 ZIP file.**

See "GlassFish Server Download Locations" on page 22 for a list of download locations. See Table 1–3 for a list of available ZIP files.

2   **Change to the directory where you downloaded the ZIP file.**

3   **Unzip the file.**

- **Solaris, Linux, and Mac OS X systems:**

  unzip *zip-file-name*

  zip-file-name is the name of the file that you downloaded.

  For example:

  unzip ogs-3.1.zip

- **Windows systems:**

  Unzip using your favorite file compression utility.

GlassFish Server 3.1 is extracted into a new `glassfish3` directory under your current directory. This `glassfish3` directory is referred to throughout the GlassFish Server documentation set as *as-install-parent*.

4   **(Optional) Start GlassFish Server using the instructions in the** *Oracle GlassFish Server 3.1 Quick Start Guide***.**

The guide explains how to perform basic tasks such as starting the server, accessing the Administration Console, and deploying a sample application.

Installing GlassFish Server From a Self-Extracting Bundle

This section describes how to install Oracle GlassFish Server 3.1 software using one of the self-extracting installation bundles. Running any of the self-extracting bundles automatically launches the GUI-based GlassFish Server installation wizard.

The following topics are addressed here:

- "To Install GlassFish Server Using the Self-Extracting File" on page 28
- "To Perform a Custom Installation" on page 31
- "Custom Configuration Parameters" on page 35

Note – Console installation is not supported in Oracle GlassFish Server 3.1. Silent mode installation is available, however. For more information, see "Performing a Silent Mode Installation" on page 38.

▼ To Install GlassFish Server Using the Self-Extracting File

Before You Begin
- When launching the self-extracting installer from the command-line, it possible to specify several command-line options that may be useful to you. See "Installation Command-Line Options" on page 45 for more information.

- Ensure that your system meets the requirements listed in "Hardware and Software Requirements" in *Oracle GlassFish Server 3.1-3.1.1 Release Notes*.

- See "Known Issues" in *Oracle GlassFish Server 3.1-3.1.1 Release Notes* for known issues related to installation.

1   **Download the desired GlassFish Server 3.1 bundle.**

See "GlassFish Server Download Locations" on page 22 for a list of download locations. See Table 1–4 for a list of available self-extracting bundles.

2   **Change to the directory where you downloaded the self-extracting file.**

3   Start the installer.

- **Solaris, Linux, and Mac OS X systems:**

  a.   If necessary, grant execute permissions to the self–extracting file:

  `chmod +x ./`*self-extracting-file-name*

  self-extracting-file-name is the name of the self-extracting file that you downloaded.

  b.   At the command prompt, type:

  `sh ./`*self-extracting-file-name*

  For example, start the installer by typing the following:

  `sh ./ogs-3.1-unix.sh`

  See "Installation Command-Line Options" on page 45 for a list of command-line options you can specify here, if desired.

- **Windows systems:**

  a.   Double-click the executable .exe installation file.

  For example, double-click:

  `ogs-3.1–windows.exe`

  On Windows you can also start the installer by typing the file name at the command prompt.

Note –

- Additional setup options are available. See "Installation Command-Line Options" on page 45.
- If you are installing on a 64–bit Windows system, run the installer with the -j option pointing to a 64–bit JDK.
- Depending on your user privileges and the version of Windows you are running, it may be necessary to run the installer as Administrator. In particular, if you will be configuring the domain as a Service as part of a *Custom Installation* (see next step) or after the installation, then you should run the installer as Administrator.

After starting the installer, the Introduction page is displayed. Use the Next button to move through the installation process.

4   Choose the Installation Type

- **Typical Installation**

  Choose this option for application development purposes or non-production use only. This option installs the GlassFish Server binaries and creates a DAS.

- **Custom Installation**

  Choose the option if you are deploying GlassFish Server in a production environment. This option provides several installation choices, which are described in detail later in this guide, in "To Perform a Custom Installation" on page 31.

The remainder of this procedure describes the steps in the Typical Installation path. If you are performing a Custom Installation, skip the remainder of this procedure and jump instead to "To Perform a Custom Installation" on page 31.

5   Specify where to install GlassFish Server.

The default installation directories are as follows:

- **Solaris, Linux, and Mac OS X systems**

  user-home-directory/glassfish3

- **Windows systems**

  SystemDrive\glassfish3

Make sure the directory you specify is empty before installing the product.

The default installation directory is referred to as *as-install-parent* throughout the GlassFish Server documentation.

6   Specify whether to install and enable Update Tool.

Update Tool is an administrative tool that enables you to install updates and add-on components to an existing GlassFish Server 3.1 installation. Update Tool can be installed during GlassFish Server installation or at a later time. For more information about Update Tool, see "Update Tool" in *Oracle GlassFish Server 3.1 Administration Guide*.

- If you are not installing Update Tool, deselect the Install Update Tool check box.
- If you are installing Update Tool and your system accesses the Internet through a proxy, specify the proxy host and proxy port.
- If you are installing Update Tool and do not require the automatic notifications of available updates after installation, deselect the Enable Update Tool check box.

Note – Update Tool differs from Upgrade Tool, which is used to migrate the configuration and deployed applications from an earlier version of GlassFish Server to the current version. For more information about Upgrade Tool, see the *Oracle GlassFish Server 3.1 Upgrade Guide*.

---

7   Review the Ready To Install selections and click Install to proceed with the installation.

A progress bar is displayed as the core GlassFish Server components are installed and the default domain is automatically created and started.

The installer creates a default domain named domain1. The results of this process will be briefly visible in the ConfigResults screen.

Tip – The configuration results panel presents the recently executed command in the center section and this is a selectable text. The text can be copied on to a script for future automated runs of such commands.

Note – If you choose to cancel the installation at this point, no GlassFish Server files will be installed, but the directory you specified for *as-install-parent* will remain. This directory can be deleted manually.

---

8   Review the summary page and click Exit to exit the installer.

Installation information is captured in log files. The names of the files are *timestamp*-install.log and *timestamp*-install-summary.html. On Solaris, Linux, and Mac OS X systems, these files are generated by default in the /tmp directory. On Windows systems, these files are generated in the *%TEMP%* directory.

9   (Optional) Register your GlassFish Server product.

Follow the instructions on the registration screen to complete the registration process.

See Also   Familiarize yourself with the instructions in the *Oracle GlassFish Server 3.1 Quick Start Guide*. The guide explains how to perform basic tasks such as starting the server, accessing the Administration Console, and deploying a sample application.

▼ To Perform a Custom Installation

This procedure builds upon the instructions provided for the Typical Installation path in "To Install GlassFish Server Using the Self-Extracting File" on page 28.

1   Complete the steps in "To Install GlassFish Server Using the Self-Extracting File" on page 28.

2   Choose the kind of Custom Installation you want to perform.

■   **Install and Configure**

Install the GlassFish Server binaries, and then configure a DAS and one or more standalone server instances, clusters, or clustered instances.

■   **Install Only**

Install only the GlassFish Server binaries, without configuring a DAS or any server instances or clusters. You can rerun the GlassFish Server installation wizard at a later time and choose the Configure an Existing Installation option to configure the items.

■   **Configure an Existing Installation**

Configure a DAS, standalone server instances, clusters, or clustered instances for an existing GlassFish Server 3.1 installation. Note that this option is not for upgrading from an older version of GlassFish Server. For instructions on upgrading from a version of GlassFish Server prior to 3.1, see the *Oracle GlassFish Server 3.1 Upgrade Guide*.

The remainder of this procedure explains the Install and Configure option. Most of these steps also apply to the other options.

3   Specify where to install GlassFish Server.

The default installation directories are as follows:

■   **Solaris, Linux, and Mac OS X systems**

user-home-directory/glassfish3

■   **Windows systems**

SystemDrive\glassfish3

Make sure the directory you specify is empty before installing the product.

The default installation directory is referred to as *as-install-parent* throughout the GlassFish Server documentation.

4   Specify the path to the JDK to be used with the installation.

Use a JDK installation detected by the installer or specify the path for a different JDK.

JDK 6 is required. See "Installation Requirements" on page 13 for more information.

Note – This JDK page is not presented for Mac OS X installations. The installation uses the value in the JAVA_HOME environment variable.

---

5   Specify whether to install Update Tool.

Update Tool is an administrative tool that enables you to install updates and add-on components to an existing GlassFish Server 3.1 installation. Update Tool can be installed during GlassFish Server installation or at a later time. For more information about Update Tool, see "Update Tool" in *Oracle GlassFish Server 3.1 Administration Guide*.

- If you are not installing Update Tool, deselect the Install Update Tool check box.
- If you are installing Update Tool and your system accesses the Internet through a proxy, specify the proxy host and proxy port.
- If you are installing Update Tool and do not require the automatic notifications of available updates after installation, deselect the Enable Update Tool check box.

Note – Update Tool differs from Upgrade Tool, which is used to migrate the configuration and deployed applications from an earlier version of GlassFish Server to the current version. For more information about Upgrade Tool, see the *Oracle GlassFish Server 3.1 Upgrade Guide*.

---

6   Review the Ready To Install selections and click Install to proceed with the installation.

A progress bar is displayed as the core GlassFish Server components are installed and the default domain is automatically created and started.

Note – If you choose to cancel the installation at this point, no GlassFish Server files will be installed, but the directory you specified for *as-install-parent* will remain. This directory can be deleted manually.

When the core installation has completed, the installer displays the Configuration page.

7   Configure GlassFish Server components.

The general procedure for configuring server components involves the following substeps:

a.   Choose a component configuration option:

Create a server domain
Create a Domain Administration Server (DAS). At least one DAS must be created and running before you can configure any other components. The parameters in the Configuration screen for this option are described in "Parameters for the Create a server domain Option" on page 35.

Create a standalone server instance
Create a standalone GlassFish Server instance. The parameters in the Configuration screen for this option are described in "Parameters for the Create a standalone server instance Option" on page 36.

Create a clustered server instance
Create a new cluster or a clustered server instance in a new or existing a cluster. The parameters in the Configuration screen for this option are described in "Parameters for the Create a clustered server instance Option" on page 37.

Skip configuration
Skip any additional component configuration and proceed immediately to the final steps of the installation and configuration wizard.

When configuring a new or previously unconfigured GlassFish Server installation you must choose the first option, Create a server domain, before proceeding with any of the other options. Once at least one server domain has been created, you can choose any of the other options in any order you wish, including creating additional domains.

b. Configure the selected component.

Each configuration option displays its own configuration screen. The specific options in each configuration screen are described after this procedure, in "Custom Configuration Parameters" on page 35.

c. Choose how you want to proceed.

After configuring any one of the available options, a Configuration Results screen is displayed. In addition to displaying the configuration results, three buttons are displayed:

Cancel
Cancel the configuration and exit the installation wizard. Note that the core GlassFish Server components will already be installed at this point, as well as any configurations that may have been configured during this step or during another installation. To remove the core GlassFish Server components and any configurations, follow the instructions in Chapter 2, "Uninstalling GlassFish Server 3.1"

Configure again
Return to the Configuration page so you can configure another item.

Next
Complete the configuration option and continue to the final steps of the installation and configuration wizard. Note that this label becomes "Exit" if this is a Custom Installation and the "Configure Existing Installation" option is selected.

Tip – The configuration results panel presents the recently executed command in the center section. This is selectable text, and it can be copied to a script for future automated runs of such commands.

When you have configured all the components you want and then clicked the Next button, the final configuration option is performed and a Summary screen is displayed.

8   **Click Exit to exit the installation and configuration wizard.**

A web browser is displayed so you can register your GlassFish Server product.

9   **(Optional) Register your GlassFish Server product.**

Follow the instructions on the registration screen to complete the registration process.

See Also   If you are done with the installation at this point, it is recommended that you familiarize yourself with the instructions in the *Oracle GlassFish Server 3.1 Quick Start Guide*. The guide explains how to perform basic tasks such as starting the server, accessing the Administration Console, and deploying a sample application.

Custom Configuration Parameters

This section lists the configuration parameters in the screens displayed for the options in the Configure GlassFish Server components. step in "To Perform a Custom Installation" on page 31.

- "Parameters for the Create a server domain Option" on page 35
- "Parameters for the Create a standalone server instance Option" on page 36
- "Parameters for the Create a clustered server instance Option" on page 37

Parameters for the Create a server domain Option

The following are the parameters displayed in the Configuration screen when you choose the Create a server domain option in Configure GlassFish Server components. step in "To Perform a Custom Installation" on page 31. This option enables you to create a Domain Administration Server (DAS)

Domain Name
   The unique domain name to use for the DAS. The default name is domain1.

Admin Port
   The port on which the GlassFish Server Admin Console will listen. The default port is 4848.

HTTP Port
   The port on which the non-secure HTTP server will listen. The default port is 8080. Note that the port used for the secure HTTP listener is 8181.

Username
   The user name for administrative access to the GlassFish Server Admin Console.

Password
   The password for administrative access to the GlassFish Server Admin Console. You can leave this parameter empty to enable unauthenticated logins to the Admin Console, but make sure that the Username field has "admin" as the input value. Specifying a password is highly recommended if you are installing GlassFish Server in a production environment.

Reenter Password
Reenter the password to verify your typing.

Create Operating System Service for the domain
Specify whether an operating system service will be created for the DAS. The service will be started when the operating system is booted.

If a service is not created here, the DAS can be started manually using the asadmin start-domain subcommand.

Note – The Create Operating System Service option is not available on Mac OS X systems. Also note that on Unix or Linux systems, you must run the installer as superuser or root if you want to create a system service for the domain.

Service Name
Specify the name for the DAS operating system service. The default name is domain1Service. This parameter is only required if the Create Operating System service parameter is enabled.

Start domain after creation
Start the domain as soon as it is created. This option is enabled by default. Note that is necessary for the DAS to be running before you can configure any server instances or clusters. If you choose to not start the domain at this time, you can start it manually later using the asadmin start-domain subcommand.

Note – Ensure that this option is enabled if you plan on performing more configurations during this installation procedure. The DAS must be running in order to create any server instances or clusters.

Parameters for the Create a standalone server instance Option

The following are the parameters displayed in the Configuration screen when you choose the Create a standalone server instance option in Configure GlassFish Server components. step in "To Perform a Custom Installation" on page 31. This option enables you to create a standalone GlassFish Server instance.

Note – The DAS for the domain in which the standalone server instance will be created must be running with the specified name and at the specified port before configuring a standalone server instance. See the "Parameters for the Create a server domain Option" on page 35 for instructions.

Instance Name
> The unique name to use for the standalone GlassFish Server instance. If the name is already in use, an error will be generated when the configuration is performed. The default name is `instance1`.

Host Name
> The name of the physical host on which the DAS is running. The default name is `localhost`.

Administration Port
> The administration port on which the DAS is running. The default port is `4848`.

Parameters for the Create a clustered server instance Option

The following are the parameters displayed in the Configuration screen when you choose the Create a clustered server instance option in Configure GlassFish Server components. step in "To Perform a Custom Installation" on page 31. This option enables you to create a new cluster or a clustered server instance in a new or existing a cluster.

Note – The DAS for the domain in which the standalone server instance will be created must be running with the specified name and at the specified port before configuring a cluster or clustered server instance. See the "Parameters for the Create a server domain Option" on page 35 for instructions.

Instance Name
> The unique name to use for the clustered GlassFish Server instance. If the name is already in use, an error will be generated when the configuration is performed. The default name is `instance1`.

Host Name
> The name of the physical host on which the DAS is running. The default name is `localhost`.

Administration Port
> The administration port on which the DAS is running. The default port is `4848`.

Create Cluster
> Specify whether a new cluster will be created at this time. The default is to leave this option disabled. If left disabled, the cluster specified in the Cluster Name field, below, must already exist.
>
> - Ensure that this option is **enabled** if the cluster in which you want to create the clustered server instance does not yet exist.
>
> - Ensure that this option is **disabled** if the cluster in which you want to create the clustered server existence already exists.

Cluster Name
> The unique name to use for the cluster. If the name is already in use, an error will be generated when the configuration is performed. The default name is `c1`.

Domain Name
> The name of the DAS in which the cluster will run. The default name is domain1.

Performing a Silent Mode Installation

This section describes how to install Oracle GlassFish Server 3.1 using *silent mode* installation. Silent mode is a non-interactive installation based on user-defined parameters captured in an answer file. The answer file can be used later to install GlassFish Server on one or more systems.

Note – It is only possible to perform a silent installation using the **Typical Installation** path described in "To Install GlassFish Server Using the Self-Extracting File" on page 28. It is not possible to perform a silent installation using the more complex **Custom Installation** path described in "To Perform a Custom Installation" on page 31.

The following topics are addressed here:

- "Creating the Installation Answer File" on page 38
- "Reviewing the Installation Answer File" on page 41
- "Installing in Silent Mode" on page 44

Creating the Installation Answer File

The answer file forms the template for silent installation. The file is created when you use the *dry-run* (-n) option to start an interactive installation. In dry-run mode, actual installation does not take place.

During the interactive installation you can accept the default values presented or you can change them. Your input is collected and stored in the *answer file*, which is then used to install GlassFish Server. You can use the answer file as it is or you can modify the file before using it.

▼ To Create the Installation Answer File

The installation wizard is used to create the answer file. Actual installation does not take place.

Before You Begin
- Remember that it is only possible to perform a silent installation using the **Typical Installation** path described in "To Install GlassFish Server Using the Self-Extracting File" on page 28. It is not possible to perform a silent installation using the more complex **Custom Installation** path described in "To Perform a Custom Installation" on page 31.

- When launching the self-extracting installer from the command-line, it possible to specify several command line options that may be useful to you. See "Installation Command-Line Options" on page 45 for more information.

- Ensure that your system meets the requirements listed in "Hardware and Software Requirements" in *Oracle GlassFish Server 3.1-3.1.1 Release Notes*.

- See "Known Issues" in *Oracle GlassFish Server 3.1-3.1.1 Release Notes* for known issues related to installation.

1 Download the desired GlassFish Server 3.1 bundle.

See "GlassFish Server Download Locations" on page 22 for a list of download locations. See Table 1–4 for a list of available self-extracting bundles.

2 Change to the directory where you downloaded the self-extracting file.

3 Start the installer in dry-run mode.

- **Solaris, Linux, and Mac OS X systems:**

    a. If necessary, grant execute permissions to the self–extracting file:

    chmod +x ./*self-extracting-file-name*

    self-extracting-file-name is the name of the self-extracting file that you downloaded.

    b. At the command prompt, type:

    self-extracting-file-name **-n** *answer-file*

    answer-file is the name of the answer file you want to generate. If you do not include a path to the answer file, the file is created under the directory from which the installation program is run.

    For example, start the installer in dry-run mode by typing the following:

    ogs-3.1-unix.sh -n 31-answer

    See "Installation Command-Line Options" on page 45 for a list of command-line options you can specify here, if desired.

- **Windows systems:**

    a. Open a Windows Command Prompt shell with Administrative privileges.

    b. At the command prompt, type:

    self-extracting-file-name **-n** *answer-file*

    answer-file is the name of the answer file you want to generate. If you do not include a path to the answer file, the file is created under the directory from which the installation program is run.

    For example, start the installer in dry-run mode by typing the following:

    ogs-3.1-windows.exe -n 31-answer

See "Installation Command-Line Options" on page 45 for a list of command-line options you can specify here, if desired.

Note –

- Additional setup options are available. See "Installation Command-Line Options" on page 45.

- If you are installing on a 64–bit Windows system, run the installer with the -j option pointing to a 64–bit JDK.

- Depending on your user privileges and the version of Windows you are running, it may be necessary to run the installer as Administrator. In particular, if you will be configuring the domain as a Service as part of a *Custom Installation* (see next step) or after the installation, then you should run the installer as Administrator.

After starting the installer, the Introduction page is displayed. Use the Next button to move through the installation process.

4 Choose Typical Installation in the Installation Type screen.

It is not possible to use the Custom Installation path when generating an answer file for silent-mode installation.

5 Specify where to install GlassFish Server.

The default installation directories are as follows:

- **Solaris, Linux, and Mac OS X systems**

  user-home-directory/glassfish3

- **Windows systems**

  SystemDrive\glassfish3

Make sure the directory you specify is empty before installing the product.

The default installation directory is referred to as *as-install-parent* throughout the GlassFish Server documentation.

6 Specify whether to install and enable Update Tool.

Update Tool is an administrative tool that enables you to install updates and add-on components to an existing GlassFish Server 3.1 installation. Update Tool can be installed during GlassFish Server installation or at a later time. For more information about Update Tool, see "Update Tool" in *Oracle GlassFish Server 3.1 Administration Guide*.

- If you are not installing Update Tool, deselect the Install Update Tool check box.

- If you are installing Update Tool and your system accesses the Internet through a proxy, specify the proxy host and proxy port.

- If you are installing Update Tool and do not require the automatic notifications of available updates after installation, deselect the Enable Update Tool check box.

Note – Update Tool differs from Upgrade Tool, which is used to migrate the configuration and deployed applications from an earlier version of GlassFish Server to the current version. For more information about Upgrade Tool, see the *Oracle GlassFish Server 3.1 Upgrade Guide*.

---

7   **Review the Ready To Install selections and click Install to proceed with the installation.**

A progress bar is displayed as the answer file is created and an empty *as-install-parent* directory is created.

Tip – The configuration results panel presents the recently executed command in the center section and this is a selectable text. The text can be copied on to a script for future automated runs of such commands.

---

8   **Review the summary page and click Exit to exit the installer.**

Installation information is captured in log files. The names of the files are *timestamp*-install.log and *timestamp*-install-summary.html. On Solaris, Linux, and Mac OS X systems, these files are generated by default in the /tmp directory. On Windows systems, these files are generated in the *%TEMP%* directory.

9   **Proceed to the instructions in "Reviewing the Installation Answer File" on page 41.**

Reviewing the Installation Answer File

The answer file generated using the procedure described in "Creating the Installation Answer File" on page 38 provides a number of system-specific parameters as well as parameters that you selected during dry-run mode installation. Values for some parameters can be edited as described in "To Edit the Answer File" on page 43.

The following example shows the contents of an answer file that was created during a dry-run mode installation. All default values were accepted during the installation.

Note – The following example contains a complete answer file, where most of the parameters are not used in GlassFish Server 3.1. For an answer file template that contains only the elements required to perform a typical installation, see the Example 1–2.

EXAMPLE 1–1   Example Answer File

```
#openInstaller Dry Run Answer File.  This File can be used as input to the
openInstaller engine using the -a option.
#Sun Jan 16 16:56:14 EST 2011
```

EXAMPLE 1–1   Example Answer File   *(Continued)*

```
InstallType.Option.INSTALL_AND_CONFIG=INSTALL_AND_CONFIG
UpdateTool.Configuration.PROXY_PORT=
SOAccountCreation.accountinfo.FIRSTNAME=
ClusteredInstance.Configuration.CLUSTER_NAME=c1
Domain.Configuration.ADMIN_PASSWORD_REENTER=
StandaloneInstance.Configuration.SERVER_HOST_NAME=localhost
RegistrationOptions.regoptions.USE_EXISTINGACCT=USE_EXISTINGACCT
Domain.Configuration.ADMIN_PASSWORD=
UpdateTool.Configuration.BOOTSTRAP_UPDATETOOL=true
RegistrationOptions.regoptions.USERNAME=
StandaloneInstance.Configuration.INSTANCE_NAME=instance1
ClusteredInstance.Configuration.INSTANCE_NAME=instance1
SOAccountCreation.accountinfo.EMAIL=
ClusteredInstance.Configuration.SERVER_ADMIN_PORT=4848
Domain.Configuration.CREATE_SERVICE=false
ClusteredInstance.Configuration.CREATE_CLUSTER=false
InstallUserType.Option.ADVANCED_USER=ADVANCED_USER
UpdateTool.Configuration.ALLOW_UPDATE_CHECK=true
SOAccountCreation.accountinfo.LASTNAME=
RegistrationOptions.regoptions.CREATE_NEWACCT=CREATE_NEWACCT
JDKSelection.directory.HIDDEN_JDK=
SOAccountCreation.accountinfo.PASSWORD=
ConfigType.Option.CREATE_CLUSTEREDINSTANCE=CREATE_CLUSTEREDINSTANCE
JDKSelection.directory.JDK_LIST=
ClusteredInstance.Configuration.SERVER_HOST_NAME=localhost
SOAccountCreation.accountinfo.REENTERPASSWORD=
JDKSelection.directory.JDK_TYPED_IN_CHOICE=false
UpdateTool.Configuration.PROXY_HOST=
InstallType.Option.INSTALL_ONLY=INSTALL_ONLY
ConfigType.Option.CREATE_STANDALONEINSTANCE=CREATE_STANDALONEINSTANCE
Domain.Configuration.HTTP_PORT=8080
RegistrationOptions.regoptions.SKIP_REGISTRATION=SKIP_REGISTRATION
Domain.Configuration.SERVICE_NAME=domain1Service
ConfigType.Option.NO_CONFIGURATION=NO_CONFIGURATION
Domain.Configuration.ADMIN_USER=admin
JDKSelection.directory.JDK_FROM_LIST_CHOICE=false
RegistrationOptions.regoptions.USERPASSWORD=
SOAccountCreation.accountinfo.COUNTRY=
InstallHome.directory.INSTALL_HOME=C\:\\glassfish3
Domain.Configuration.ADMIN_PORT=4848
SOAccountCreation.accountinfo.COMPANYNAME=
InstallUserType.Option.BASIC_USER=BASIC_USER
ConfigType.Option.CREATE_DOMAIN=CREATE_DOMAIN
InstallType.Option.CONFIG_ONLY=CONFIG_ONLY
Domain.Configuration.START_SERVER=false
Domain.Configuration.DOMAIN_NAME=domain1
ClusteredInstance.Configuration.DOMAIN_NAME=domain1
JDKSelection.directory.JDK_TYPE_IN=
StandaloneInstance.Configuration.SERVER_ADMIN_PORT=4848
SOAccountCreation.accountinfo.COUNTRY_DROP_DOWN=
RegistrationOptions.regoptions.DUMMY_PROP=
```

EXAMPLE 1–2   Answer File Template for GlassFish Server 3.1

```
#openInstaller Dry Run Answer File. This File can be used as input to the
openInstaller engine using the -a option.
Domain.Configuration.ADMIN_PASSWORD=
```

EXAMPLE 1–2 Answer File Template for GlassFish Server 3.1   *(Continued)*

```
Domain.Configuration.ADMIN_PASSWORD_REENTER=
Domain.Configuration.ADMIN_PORT=4848
Domain.Configuration.ADMIN_USER=admin
Domain.Configuration.DOMAIN_NAME=domain1
Domain.Configuration.HTTP_PORT=8080
InstallHome.directory.INSTALL_HOME=C\:\\glassfish3
UpdateTool.Configuration.ALLOW_UPDATE_CHECK=true
UpdateTool.Configuration.BOOTSTRAP_UPDATETOOL=true
UpdateTool.Configuration.PROXY_HOST=
UpdateTool.Configuration.PROXY_PORT=8888
```

▼ **To Edit the Answer File**

Some values in the answer file can be changed if desired. Such editing is strictly optional.

Before You Begin Create the answer file as described in "To Create the Installation Answer File" on page 38.

1 **Review the answer file.**

Review the values that will be used for silent installation.

2 **Edit the answer file.**

Only the following default values can be changed:

InstallHome.directory.INSTALL_HOME=*as-install-parent*
  Provide another directory name for GlassFish Server 3.1 installation files.

Domain.Configuration.ADMIN_PASSWORD=
  Provide a password for access to the Administration Console. This password is case sensitive.

Domain.Configuration.ADMIN_PASSWORD_REENTER=
  Provide the password confirmation for Administration Console. Make sure that this matches the value for Domain.Configuration.ADMIN_PASSWORD.

Domain.Configuration.ADMIN_PORT=4848
  Assign another port number to the Administration Console.

Domain.Configuration.ADMIN_USER=admin
  Provide another user name for the administrator. This name is case sensitive.

Domain.Configuration.HTTP_Port=8080
  Assign another port number to HTTP connections.

UpdateTool.Configuration.ALLOW_UPDATE_CHECK=true
  Change value to false if you do not want Update Tool notifications.

UpdateTool.Configuration.BOOTSTRAP_UPDATE=true
  Change value to false if you do not want to install the standalone Update Tool.

UpdateTool.Configuration.PROXY_HOST=
  Assign a name to the proxy host.

UpdateTool.Configuration.PROXY_PORT=
  Assign a port number to the proxy host.

Note – Parameters not listed are system specific. Do not change system-specific parameters. Doing so will cause problems with the installation program.

Installing in Silent Mode

The non-interactive installation program reads the specified answer file, checks for adequate disk space, and installs GlassFish Server based on the data in the answer file.

▼ To Install Using Silent Mode

Before You Begin

- Create the answer file as described in "To Create the Installation Answer File" on page 38. Verify that the parameters in the answer file are set to the values that you want to use for silent installation, as described in "Reviewing the Installation Answer File" on page 41.

- Answer files generated using the GlassFish Server 3.1 installer are not backward-compatible with earlier versions of GlassFish Server including version 3.1.

1 **Navigate to the directory that contains the self-extracting installer file and the installation answer file.**

2 **From the command line, type:**

self-extracting-file-name **-a** *answer-file* **-s**

self-extracting-file-name is the name of the file that you downloaded during "Creating the Installation Answer File" on page 38.

-a *answer-file*
  The name of the answer file that was generated according to the instructions in Creating the Installation Answer File. Ensure that you provide the complete path to the answer file.

-s
  Runs the installer in silent mode.

For example:

```
ogs-3.1-unix.sh -a 31-answer -s
```

When the prompt is returned, the silent installation is complete and the installation components are installed on your system.

Next Steps Familiarize yourself with the instructions in the *Oracle GlassFish Server 3.1 Quick Start Guide*. The guide explains how to perform basic tasks such as starting the server, accessing the Administration Console, and deploying a sample application.

Installation Command-Line Options

The following options can be used when you run the installation program from the command line using the self-extracting installation file (.sh or .exe). Specify the desired options after typing the installation file name at the command prompt.

For example:

```
ogs-3.1-unix.sh -a 3.1-answer -l log-directory -s
```

The options are as follows:

-a *answer-file*
  Run the installation program in silent mode using the answer file specified. Use this option with the -s option.

-l *log-directory*
  Write log information to this directory.

-q
  Set logging level to WARNING.

-v
  Runs the installation program in verbose mode, which can be useful for troubleshooting. Also sets the logging level to FINEST.

-s
  Run the installation program in silent mode.

-j *javahome*
  Use this directory for the JDK software installation.

-n *answer-file*
  Run the installation program in trial mode to generate the answer file for silent mode installation.

-h or -help
  Display the help message listing these options.

2

C H A P T E R 2

Uninstalling GlassFish Server 3.1

This chapter describes how to uninstall Oracle GlassFish Server 3.1 software.

Removing a GlassFish Server Installation

This section describes how to remove Oracle GlassFish Server 3.1 software.

The following topics are addressed here:

- "To Uninstall GlassFish Server Software After a ZIP File Installation" on page 47
- "To Uninstall GlassFish Server Software After a GUI-Mode Installation" on page 48

▼ To Uninstall GlassFish Server Software After a ZIP File Installation

This procedure describes how to uninstall GlassFish Server software that was installed using a ZIP file, as described in "Installing GlassFish Server From a ZIP File" on page 27.

Before You Begin Stop all domains and other related processes, including command prompts using the installation directory or its subdirectories, the Update Tool notifier process if present, and any applications using Java SE files.

To stop domains, use the asadmin stop-domain command. For more information about stopping a domain, see "To Stop a Domain" in *Oracle GlassFish Server 3.1 Administration Guide*.

To stop the Update Tool notifier process, use the updatetool --notifier --shutdown command, executed from *as-install-parent*/bin.

If orphaned processes remain, identify and terminate the processes as follows:

- **Solaris, Linux, and Mac OS X systems:**

  Use the `ps -ef` command and terminate the processes using the `kill` command.

- **Windows systems:**

  Use the Task Manager and terminate the processes.

Also see "Known Issues" in *Oracle GlassFish Server 3.1-3.1.1 Release Notes* for known issues related to uninstallation.

1   **Save any files in the installation directory that you may want to keep.**

2   **Manually delete installation directory and all its contents.**

▼ To Uninstall GlassFish Server Software After a GUI-Mode Installation

This procedure describes how to uninstall GlassFish Server software that was installed using a self-extracting file, as described in "Installing GlassFish Server From a Self-Extracting Bundle" on page 28.

During installation, a script for uninstalling GlassFish Server is placed in the installation directory. This section provides instructions for removing the software using this script. If you attempt to remove the software using another method, problems are likely to arise when you try to reinstall the same version of GlassFish Server or when you install a new version.

1   **Stop all GlassFish Server domains and other related processes, including the following:**

- All domains, clusters, and instances
- Command shells that may be active in the product installation directory or subdirectories
- The GlassFish Server Update Tool Notifier process, if present
- Any applications that are using Java SE files

   a.   **To stop domains, use the `asadmin stop-domain` command.**

   For more information about stopping a domain, see "To Stop a Domain" in *Oracle GlassFish Server 3.1 Administration Guide*.

   b.   **To stop the Update Tool Notifier process, use the `updatetool --notifier --shutdown` command, executed from** *as-install-parent*`/bin`**.**

   c.   **If orphaned processes remain, identify and terminate the processes as follows:**

   - **Solaris, Linux, and Mac OS X systems**
     Use the `ps -ef` command and terminate the processes using the `kill` command.

- **Windows systems**

  Use the Task Manager and terminate the processes.

2 **Navigate to the directory in which GlassFish Server 3.1 is installed.**

Alternatively, if you are running on Windows and want to run the uninstaller from the Windows Start menu, you can skip this step and jump ahead to the next step.

The default installation directories are as follows:

- **Solaris, Linux, and Mac OS X systems:** *user's-home-directory*/`glassfish3`
- **Windows systems:** *SystemDrive*:`\glassfish3`

The default installation directory is referred to as *as-install-parent* throughout GlassFish Server documentation.

3 **Start the uninstallation program and remove the software.**

- **Solaris, Linux, and Mac OS X systems:**

  a. **If necessary, grant execute permissions to the uninstall file.**

  ```
  chmod +x ./uninstall.sh
  ```

  b. **At the command prompt, type:**

  ```
  sh ./uninstall.sh
  ```

- **Windows systems, from the Start menu** *(recommended)***:**

  a. **Choose Start→Programs→Oracle GlassFish Server→Uninstall.**

- **Windows systems, from the command line:**

  a. **Double-click the `uninstall.exe` file.**

  On Windows you can also start the uninstaller by typing the file name at the command prompt.

Tip – There is a known issue on Windows 7 systems (Issue 12093), whereby uninstallation of GlassFish Server may fail because Windows cannot find the required JDK installation. The problem may occur when the Java binaries are not installed through a standard Java SDK installer. This problem does not occur when running the uninstaller from the Windows Start menu.

The workaround for this issue is to explicitly specify the location of the Java binaries when running the GlassFish Server `uninstall` utility from the command line. For example:

```
uninstall.exe -j "%JAVA_HOME%"
```

Note – To uninstall in silent (non-interactive) mode, use the `-s` option after the file name. For example: `./uninstall.sh -s` or `uninstall.exe -s`

4   Review the summary page that displays following uninstallation and click Exit to exit the uninstaller.

Uninstallation information is captured in log files. The names of the files are *timestamp*`-remove.log` and *timestamp*`-remove-summary.html`. On Solaris, Linux, and Mac OS X systems, these files are generated by default in the `/tmp` directory. On Windows systems, these files are generated in the *%TEMP%* directory.

5   Examine the contents of the remaining installation directories and remove any files or directories that you do not want.

Note – Not all GlassFish Server directories are automatically removed by the uninstallation program. Remove the remaining contents as desired, including hidden directories prefixed with a dot. It is safe to remove uninstallation and installation log files after you have examined them.

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