

Working With Load Balancers

GlassFish Server supports Web server and hardware-based load balancing for clustered configurations. A load balancer is deployed with a cluster, and provides the following features:

- Allows an application or service to be scaled horizontally across multiple physical (or logical) hosts yet still present the user with a single URL
- Insulates the user from host failures or server crashes when used with session persistence
- Enhances security by hiding the internal network from the user

GlassFish Server Open Source Edition is compatible with the Apache HTTP server `mod_jk` module for load balancing.

GlassFish Server load balancing configurations can vary widely depending on the needs of your enterprise and are beyond the scope of this *Quick Start Guide*. For complete information about configuring load balancing in GlassFish Server, refer to the following documentation:

- Chapter 7, “Configuring HTTP Load Balancing,” in *GlassFish Server Open Source Edition 3.1 High Availability Administration Guide*
- Chapter 11, “RMI-IIOP Load Balancing and Failover,” in *GlassFish Server Open Source Edition 3.1 High Availability Administration Guide*

Updating and Extending an Existing Installation

GlassFish Server provides an administrative tool called Update Tool that enables you to install updates and add-on components to your existing GlassFish Server installation. Update Tool can be accessed as a standalone graphical tool from the command line or as a browser-based graphical tool from the Administration Console. For more information about Update Tool, see “Update Tool” in *GlassFish Server Open Source Edition 3.1 Administration Guide*.

▼ To Access the Graphical Update Tool From the Command Line

- **Run the `updatetool` command:**

`as-install-parent/bin/updatetool`

If Update Tool is not installed, you will be prompted to install it. Install the tool if desired, then use the `updatetool` command to start the tool. Extensive online help is available from the tool's Help menu.

See Also A command-line interface is also available for Update Tool. The command-line interface uses the `pkg` command and enables you to perform most of the tasks provided by the graphical