

ORACLE GLASSFISH SERVER CONTROL

KEY FEATURES AND BENEFITS

FEATURES

- Performance Tuner to improve performance
- Active Cache for GlassFish for more flexible clustering
- Monitoring Scripting Client for improved troubleshooting
- Oracle Access Manager Interoperability
- Load balancer plugin and Installer
- Enable single sign-on with Oracle Access Manager
- Domain Administration Server Backup and Recovery

BENEFITS

- Improve performance by up to 300%
- Quickly improve performance with minimal tuning expertise
- Use Coherence*Web as a drop-in replacement for highly available HTTP sessions
- Improve application and management availability
- Improve application security with Oracle Access manager interoperability
- Load balancer plugin smart failover delivers efficient session failover
- Quickly restore management capability in case of domain administration server failure

Oracle GlassFish Server extends the capabilities of GlassFish Server Open Source Edition with Oracle GlassFish Server Control, a suite of features that improves performance, enables fine-grained monitoring, and enables more secure and highly available production deployments.

Performance Tuner

Improves out-of-the-box performance by up to 300%, and even more on Oracle SPARC T-Series servers. Using answers to a series of user-friendly questions like “How much time does your application spend in the database?”, Performance Tuner will recommend Java Virtual Machine and Oracle GlassFish Server configuration settings. All settings can be applied with a single button press, and instructions are also given on how to apply each setting individually. This further enhances the already excellent performance of Oracle GlassFish Server.

Active Cache for GlassFish

By default, Oracle GlassFish Server utilizes in-memory HTTP session state replication for high availability clusters. However, more complex deployment scenarios may require additional flexibility, scalability, and improved performance. Active Cache for GlassFish enables Oracle Coherence*Web as a drop-in replacement for in-memory HTTP session state replication. This enables more flexible session caching algorithms, and can offload session caching to its own logical tier, freeing application server resources to perform business logic. Oracle Coherence can also be used for application data caching in addition to HTTP session storage for high availability clustering.

Monitoring Scripting Client

Oracle GlassFish Server has been instrumented with fine-grained probes that have no performance impact when disabled and, designed with production deployments in mind, minimal overhead when enabled. With the Monitoring Scripting Client, users can write brief JavaScript scripts that enable specific probes and track when they are fired and in what context. With this information, it is possible to determine application performance characteristics, troubleshoot functional application problems, and observe application behavior in general.

Oracle Access Manager (Single Sign-on) Interoperability

Oracle GlassFish Server includes a security provider, implemented as a JSR 196 Server Authentication Module, that allows applications to authenticate and obtain single sign-on functionality by authenticating against Oracle Access Manager. The

Oracle Access Manager security provider can be used in two ways:

1. **Authenticator.** Authenticates user using BASIC, FORM, or client-certificate challenge, and passes credentials to Access Manager for authentication.
2. **Identity Asserter.** The security provider asserts the user identity, and upon failure relays authentication to the Oracle Access Manager Web Gate

RELATED PRODUCTS AND SERVICES

- RELATED PRODUCTS
- Oracle Coherence*Web
 - Oracle Access Manager
 - Oracle Web Tier
 - Oracle WebLogic Server

- RELATED OPEN SOURCE
- GlassFish Server Open Source Edition
 - The EclipseLink project

Load Balancer Configurator and Plugin

GlassFish Server is designed for production deployments and includes high availability for continuous availability in case of a GlassFish Server instance failure. To facilitate smart instance failover, the load balancer plug-in, available for popular web servers, detects instance failure and redirects traffic directly to the instance hosting the backup session. The plug-in also detects when instances recover and re-join a cluster. The installer simplifies plug-in installation and configuration through a graphical user interface, and can be run in “silent” mode to automate configuration across a web server farm. This feature improves reliability and availability, in particular for large production deployments.

Domain Administration Server Backup and Recovery

The Domain Administration Server (DAS) contains critical configuration information for the domain itself, resources, standalone instances, clusters, and applications. While managed instances and clusters continue to run without a DAS, production deployments need the ability to recover from critical DAS host failures to quickly return to a managed environment. To address this, Oracle GlassFish Server can backup a running DAS on pre-defined and custom schedules, and on-demand as well. A DAS can then be quickly restored on a new host by importing one of the stored backups.

System Requirements

Oracle GlassFish Server Control	
Operating Systems	<ul style="list-style-type: none"> • Windows Server 2008 R2, 2008 SP1+ • Red Hat EL 4,5 64-bit • Oracle Linux 4,5 64-bit • SuSE Enterprise Linux 10,11 64-bit • Solaris 10 Update 7+
Browser	<ul style="list-style-type: none"> • IE 7.x, IE 8.x, FireFox 3.6, Safari 5.x
Java Version	<ul style="list-style-type: none"> • JDK 1.6.0_22+
Web Servers	<ul style="list-style-type: none"> • Oracle HTTP Server 11.1.1.4, Apache 2.2.x, iPlanet Web Server Update 9+, IIS 7.5+

Contact Us

For more information about Oracle GlassFish Server Control, please visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.

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