DZone Refcardz

GlassFish Application Server

By Masoud Kalali

ABOUT GLASSFISH

The use of GlassFish application server is growing, and having a reference card for day-to-day jobs is inevitable. Looking for a sample command to perform a specific job can take time but by using this refcard, you won't need to look for any commands or lose time searching in countless pages of manuals and administration references. This refcard covers administration, security, and performance management topics.

WHAT IS GLASSFISH?

GlassFish is a Java EE application server which is hosted on Java.net and mainly sponsored by Sun Microsystems. GlassFish usually has full support of the latest Java EE related JSRs. It is accessible both under GPL and CDDL licenses.

What makes it different from other products:

- Support for the latest web services specification in addition to proven interoperability with Microsoft WCF.
- Support for both older and newer versions of EJBs.
- Cluster wide management and deployment.
- High availability both with in-memory replication and persisted replication using HADB.
- Fine grained monitoring API based on JMX in addition to already available monitoring facilities in its administration console.
- Support for Ruby on Rails, in addition to PHP support, using Quercus makes GlassFish a suitable application server for hosting heterogeneous applications.

WHERE TO GET GLASSFISH

Usually more than one version of GlassFish is available for download, which includes the current stable version, the previous stable version with all patch and post ported features, and development builds of the next GlassFish version. You should choose the current version unless you are looking for a maintenance release for past versions, or you are eager to check out new JSRs or functionalities.

Downloading the right version of GlassFish: If you are going to deploy some applications in a production environment you should choose a current stable version. And if you have a very mission critical application, but you do not require to have the latest standards, go with the previous stable version. Development versions are only suitable for experimental tasks and not for production. The current version of GlassFish is GlassFish Version 2, update release 2, which is available at: https://glassfish.dev.java.net/downloads/v2ur2-b04.html.

Distribution packages are available for six different operating systems as follows:

Operating Systems	English Language Distribution Package	Multilingual Distribution Package
Solaris SPARC Platform	glassfish-installer-v2ur2-b04-sunos.jar	glassfish-installer-v2ur2-b04-sunos-ml.jar
Solaris x86 Platform	glassfish-installer-v2ur2-b04-sunos_x86.jar	glassfish-installer-v2ur2-b04-sunos_x86-ml.jar
Windows Platform	glassfish-installer-v2ur2-b04-windows.jar	glassfish-installer-v2ur2-b04-windows-ml.jar
Linux Platform	glassfish-installer-v2ur2-b04-linux.jar	glassfish-installer-v2ur2-b04-linux-ml.jar
MacOS Platform	glassfish-installer-v2ur2-b04-darwin.jar	glassfish-installer-v2ur2-b04-darwin-ml.jar
AIX Platform	glassfish-installer-v2ur2-b04-aix.jar	glassfish-installer-v2ur2-b04-aix-ml.jar

Selecting a GlassFish version: There are several downloads available for each version of GlassFish. Each of these packages is suitable for one operating system so you need to ensure to get the package designated for your own OS. Go to https://glassfish.dev.java.net/public/downloadsindex.html to access the GlassFish download page.

Sun Microsystems' distribution of GlassFish: Sun Microsystems provides an alternate package of GlassFish application server. Sun's package comes with an installer, integrated HADB for the enterprise version, an integrated Open ESB, Portlet container, access manager, and some other projects. Sun's distribution is located at http://java.sun.com/javaee/downloads/index.jsp.

GlassFish documentation: There is plenty of documentation which will help you to get started or to continue with using GlassFish. Some of the most important:

- GlassFish tech tips master index: https://glassfish.dev.java.net/public/TipsandBlogs.html
- Master index for all versions of GlassFish documentation: https://glassfish.dev.java.net/javaee5/docs/DocsIndex.html
- GlassFish Wiki: http://wiki.glassfish.java.net/

[Glassfish Application Development Guide](#)

Guillaume Favre

Glassfish Application Development Guide:

  Java EE 5 Development Using GlassFish Application Server David R. Heffelfinger,2007 This is a guide to developing Java EE 5 applications deployed to the high performance Java EE 5 compliant GlassFish application server which is quickly gaining massive popularity After GlassFish installation and configuration it covers application development including all major Java EE 5 APIs JSPs JSTL Servlets and JSF for web applications the Java Persistence API and JDBC to interact with RDBMS EJB 3 including container managed transactions and EJB declarative security through annotations the JMS API for messaging the JAAS API for secure applications frameworks built on the Java EE 5 specification including Seam Facelets and Ajax4jsf It is aimed at Java developers wishing to become proficient with Java EE 5 who are expected to have some experience with Java and J2EE technologies and to have developed and deployed applications in the past but need no previous knowledge of Java EE and will teach the reader how to use GlassFish to develop and deploy applications   *Java EE 8 Application Development* David R. Heffelfinger,2017-12-12 Develop Enterprise Java applications compliant with the latest version of the Java EE specification About This Book This book covers all of the major Java EE 8 APIs and includes new additions such as enhanced Security JSON B Processing and more Learn additional Java EE APIs such as the Java API for Websocket and the Java Message Service JMS Develop applications by taking advantage of the latest versions of CDI Security Servlets and JSF and other Java EE specifications Who This Book Is For If you are a Java developer who wants to become proficient with Java EE 8 this book is ideal for you You are expected to have some experience with Java and to have developed and deployed applications in the past but you don t need any previous knowledge of Java EE What You Will Learn Develop and deploy Java EE applications Embrace the latest additions to the Contexts and Dependency Injection CDI specification to develop Java EE applications Develop web based applications by utilizing the latest version of JavaServer Faces JSF 2 3 Understand the steps needed to process JSON data with JSON P and the new JSON B Java EE API Implement RESTful web services using the new JAX RS 2 1 API which also includes support for Server Sent Events SSE and the new reactive client API In Detail Java EE is an Enterprise Java standard Applications written to comply with the Java EE specification do not tie developers to a specific vendor instead they can be deployed to any Java EE compliant application server With this book you ll get all the tools and techniques you need to build robust and scalable applications in Java EE 8 This book covers all the major Java EE 8 APIs including JSF 2 3 Enterprise JavaBeans EJB 3 2 Contexts and Dependency Injection CDI 2 0 the Java API for WebSockets JAX RS 2 1 Servlet 4 0 and more The book begins by introducing you to Java EE 8 application development and goes on to cover all the major Java EE 8 APIs It goes beyond the basics to develop Java EE applications that can be deployed to any Java EE 8 compliant application server It also introduces advanced topics such as JSON P and JSON B the Java APIs for JSON processing and the Java API for JSON binding These topics dive deep explaining how the two APIs the Model API and the Streaming API are used to process JSON data Moving on we cover additional Java

EE APIs such as the Java API for Websocket and the Java Message Service JMS which allows loosely coupled asynchronous communication Further on you ll discover ways to secure Java EE applications by taking advantage of the new Java EE Security API Finally you ll learn more about the RESTful web service development using the latest JAX RS 2 1 specification You ll also get to know techniques to develop cloud ready microservices in Java EE Style and approach The book takes a pragmatic approach showing you various techniques to utilize new features of Java EE 8 specification It is packed with clear step by step instructions practical examples and straightforward explanations **Java EE 8 Development with Eclipse** Ram Kulkarni,2018-06-29 Develop and deploy fully functional applications and microservices utilising Tomcat Glassfish servers Cloud and docker in Java EE 8 Key Features Explore the complete workflow of developing enterprise Java applications Develop microservices with Docker Container and deploy it in cloud Simplify Java EE application development Book Description Java EE is one of the most popular tools for enterprise application design and development With recent changes to Java EE 8 specifications Java EE application development has become a lot simpler with the new specifications some of which compete with the existing specifications This guide provides a complete overview of developing highly performant robust and secure enterprise applications with Java EE with Eclipse The book begins by exploring different Java EE technologies and how to use them JSP JSF JPA JDBC EJB and more along with suitable technologies for different scenarios You will learn how to set up the development environment for Java EE applications and understand Java EE specifications in detail with an emphasis on examples The book takes you through deployment of an application in Tomcat GlassFish Servers and also in the cloud It goes beyond the basics and covers topics like debugging testing deployment and securing your Java EE applications You ll also get to know techniques to develop cloud ready microservices in Java EE What you will learn Set up Eclipse Tomcat and Glassfish servers for Java EE application development Use JSP Servlet JSF and EJBs to create a user interface and write business logic Create Java EE database applications using JDBC and JPA Handle asynchronous messages using MDBs for better scalability Deploy and debug Java EE applications and create SOAP and REST web services Write unit tests and calculate code coverage Use Eclipse MAT Memory Analysis Tool to debug memory issues Create and deploy microservices Who this book is for If you are a Java developer with little or no experience in Java EE application development or if you have experience in Java EE technology but are looking for tips to simplify and accelerate your development process then this book is for you **The Java EE 6 Tutorial** Eric Jendrock,Ian Evans,Devika Gollapudi,Kim Haase,Chinmayee Srivathsa,2010-08-24 The Java EE 6 Tutorial Basic Concepts Fourth Edition is a task oriented example driven guide to developing enterprise applications for the Java Platform Enterprise Edition 6 Java EE 6 Written by members of the Java EE 6 documentation team at Oracle this book provides new and intermediate Java programmers with a deep understanding of the platform Starting with expert guidance on web tier technologies including JavaServer Faces and Facelets this book also covers building web services using JAX WS and JAX RS developing business logic with Enterprise JavaBeans components

accessing databases using the Java Persistence API securing web and enterprise applications and using Contexts and Dependency Injection for the Java EE platform This edition contains extensive new material throughout including detailed introductions to the latest APIs and platform features and instructions for using the latest versions of GlassFish Server Open Source Edition and NetBeans IDE Key platform features covered include Convention over configuration so developers need specify only those aspects of an application that vary from the convention Annotated POJOs Plain Old Java Objects with optional XML configuration Simplified but more flexible packaging Lightweight Web Profile that is ideal for developing web applications The Java Series from the Source Since 1996 when Addison Wesley published the first edition of The Java Programming Language by Ken Arnold and James Gosling this series has been the place to go for complete expert and definitive information on Java technology The books in this series provide the detailed information developers need to build effective robust and portable applications and are an indispensable resource for anyone using the Java platform

   Beginning EJB 3 Jonathan Wetherbee,Raghu Kodali,Chirag Rathod,Peter Zadrozny,2013-06-25 Develop powerful standards based back end business logic with Beginning EJB 3 Java EE 7 Edition Led by an author team with 20 years of combined Enterprise JavaBeans experience you ll learn how to use the new EJB 3 2 APIs You ll gain the knowledge and skills you ll need to create the complex enterprise applications that run today s transactions and more Targeted at Java and Java EE developers with and without prior EJB experience Beginning EJB 3 is packed with practical insights strategy tips and code examples As each chapter unfolds you ll not only explore a new area of the spec you ll also see how you can apply it to your own applications through specific examples Beginning EJB 3 will serve not only as a reference but it will also function as a how to guide and repository of practical examples to which you can refer as you build your own applications It will help you harness the power of EJBs and take your Java EE 7 development to the next level   **Introduction to Middleware** Letha Hughes Etzkorn,2017-06-12 A stereotype of computer science textbooks is that they are dry boring and sometimes even intimidating As a result they turn students interests off from the subject matter instead of enticing them into it This textbook is the opposite of such a stereotype The author presents the subject matter in a refreshing story telling style and aims to bring the Internet generation of students closer to her stories Yingcai Xiao The University of Akron Introduction to Middleware Web Services Object Components and Cloud Computing provides a comparison of different middleware technologies and the overarching middleware concepts they are based on The various major paradigms of middleware are introduced and their pros and cons are discussed This includes modern cloud interfaces including the utility of Service Oriented Architectures The text discusses pros and cons of RESTful vs non RESTful web services and also compares these to older but still heavily used distributed object component middleware The text guides readers to select an appropriate middleware technology to use for any given task and to learn new middleware technologies as they appear over time without being greatly overwhelmed by any new concept The book begins with an introduction to different distributed computing

paradigms and a review of the different kinds of architectures architectural styles patterns and properties that various researchers have used in the past to examine distributed applications and determine the quality of distributed applications Then it includes appropriate background material in networking and the web security and encoding necessary to understand detailed discussion in this area The major middleware paradigms are compared and a comparison methodology is developed Readers will learn how to select a paradigm and technology for a particular task after reading this text Detailed middleware technology review sections allow students or industry practitioners working to expand their knowledge to achieve practical skills based on real projects so as to become well functional in that technology in industry Major technologies examined include RESTful web services RESTful cloud interfaces such as OpenStack AWS EC2 interface CloudStack AJAX JAX RS ASP NET MVC and ASP NET Core non RESTful SOAP and WSDL based web services JAX WS Windows Communication Foundation distributed objects components Enterprise Java Beans NET Remoting CORBA The book presents two projects that can be used to illustrate the practical use of middleware and provides implementations of these projects over different technologies This versatile and class tested textbook is suitable depending on chapters selected for undergraduate or first year graduate courses on client server architectures middleware and cloud computing web services and web programming

Java Ee 5 Development Using Glassfish Application Server David R. Heffelfinger,2007-01-01 The complete guide to installing and configuring the GlassFish Application Server and developing Java EE 5 applications to be deployed to this server   *Java Web Services* Martin Kalin,2013 Annotation Learn how to develop REST style and SOAP based web services and clients with this quick and thorough introduction This hands on book delivers a clear pragmatic approach to web services by providing an architectural overview complete working code examples and short yet precise instructions for compiling deploying and executing them Youll learn how to write services from scratch and integrate existing services into your Java applications With greater emphasis on REST style services this second edition covers HttpServlet Restlet and JAX RS APIs jQuery clients against REST style services and JAX WS for SOAP based services Code samples include an Apache Ant script that compiles packages and deploys web services Learn differences and similarities between REST style and SOAP based servicesProgram and deliver RESTful web services using Java APIs and implementationsExplore RESTful web service clients written in Java JavaScript and PerlWrite SOAP based web services with an emphasis on the application levelExamine the handler and transport levels in SOAP based messagingLearn wire level security in HTTP S users roles security and WS SecurityUse a Java Application Server JAS as an alternative to a standalone web server   **Java EE 7 with GlassFish 4 Application Server** David R Heffelfinger,2014   **NetBeans IDE Programmer Certified Expert Exam Guide (Exam 310-045)** Robert Liguori,Ryan Cuprak,2010-08-23 The Best Fully Integrated Study System Available With hundreds of practice questions and hands on exercises NetBeans IDE Programmer Certified Expert Exam Guide covers what you need to know and shows you how to prepare for this challenging exam 100% complete coverage of all official objectives for exam 310

045 Exam Readiness checklist at the front of the book you re ready for the exam when all objectives on the list are checked off Inside the Exam sections in every chapter highlight key exam topics covered Two Minute Drills for quick review at the end of every chapter Simulated exam questions match the format tone topics and difficulty of the real exam Covers all the exam topics including General Configurations Builds and Controls Java SE Desktop Applications Java EE Web Applications Database Connectivity Source Editor Refactoring Support HTTP Server Side Monitor Local and Remote Debugging Testing and Profiling CD ROM includes Complete MasterExam practice testing engine featuring One full practice exam Detailed answers with explanations Score Report performance assessment tool Electronic book for studying on the go Plus NetBeans sample projects resources and more with free online registration Bonus downloadable MasterExam practice test   OCM Java EE 6 Enterprise Architect Exam Guide (Exams 1Z0-807, 1Z0-865 & 1Z0-866) Paul R. Allen,Joseph J. Bambara,2014-08-15 A Complete Study System for OCM Exams 1Z0 807 1Z0 865 and 1Z0 866 Prepare for the Oracle Certified Master Java EE 6 Enterprise Architect exams with this exclusive Oracle Press guide The multiple choice exam the assignment and the essay exam are covered Chapters feature challenging exercises a certification summary a two minute drill and a self test to reinforce the topics presented This authoritative resource helps you pass these exams and also serves as an essential on the job reference Get complete coverage of all exam objectives including Application design concepts and principles Common architectures Integration and messaging Business tier technologies Web tier technologies Design patterns Security Electronic content includes 120 multiple choice practice exam questions Test engine that provides practice exams and customized quizzes by chapter   **Teacher's Guide for Bones** Education Development Center,1968   *Java EE 6 with GlassFish 3 Application Server* David R. Heffelfinger,2010 This book is a practical guide with a very user friendly approach It aims to speed up the reader in Java EE 6 development All major Java EE 6 APIs and the details of the GlassFish 3 server are covered followed by examples of its use If you are a Java developer and wish to become proficient with Java EE 6 then this book is for you You are expected to have some experience with Java and to have developed and deployed applications in the past but need no previous knowledge of Java EE or J2EE You will also learn how to use GlassFish 3 to develop and deploy applications   *Java EE 7 with GlassFish 4 Application Server* Heffelfinger David,2014-03 This book is a practical guide and follows a very userfriendly approach The book aims to get the reader up to speed in Java EE 7 development All major Java EE 7 APIs and the details of the GlassFish 4 server are covered followed by examples of their use If you are a Java developers who wants to become proficient with Java EE 7 this book is ideal for you Readers are expected to have some experience with Java and to have developed and deployed applications in the past but don t need any previous knowledge of Java EE or J2EE It teaches the reader how to use GlassFish 4 to develop and deploy applications   **GlassFish Security** Masoud Kalali,2010 Security was is and will be one of the most important aspects of Enterprise Applications and one of the most challenging areas for architects developers and administrators It is mandatory for Java EE application

developers to secure their enterprise applications using Glassfish security features Learn to secure Java EE artifacts like Servlets and EJB methods configure and use GlassFish JAAS modules and establish environment and network security using this practical guide filled with examples One of the things you will love about this book is that it covers the advantages of protecting application servers and web service providers using OpenSSO The book starts by introducing Java EE security in Web EJB and Application Client modules Then it introduces the Security Realms provided in GlassFish which developers and administrators can use to complete the authentication and authorization setup In the next step we develop a completely secure Java EE application with Web EJB and Application Client modules The next part includes a detailed and practical guide to setting up configuring and extending GlassFish security This part covers everything an administrator needs to know about GlassFish security starting from installation and operating environment security listeners and password security through policy enforcement to auditing and developing new auditing modules Before starting the third major part of the book we have a chapter on OpenDS discussing how to install and administrate OpenDS The chapter covers importing and exporting data setting up replications backup and recovery and finally developing LDAP based solutions using OpenDS and Java Finally the third part starts by introducing OpenSSO and continues with guiding you through OpenSSO features installation configuration and how you can use it to secure Java EE applications in general and web services in particular Identity Federation and SSO are discussed in the last chapter of the book along with a working sample Inspired from real development cases this practical guide shows you how to secure a GlassFish installation and how to develop applications with secure authentication based on GlassFish Java EE and OpenSSO capabilities Security is driven by requirement and design and we implement security on the basis of the requirements provided by analysts In this book we take a programmatic approach to understand Java EE and GlassFish security You will find plenty of code samples in this book It is easy to secure your application when you have a demonstration of a complete and working application explained in the book isnt it Each chapter starts with the importance and relevance of the topic by introducing some Java EE applications requirement which will encourage you to read it further This book is for application designers developers and administrators who work with GlassFish and are keen to understand Java EE and GlassFish security To take full advantage of this book you need to be familiar with Java EE and GlassFish application servers You will love this book if you are looking for a book that covers Java EE security and using GlassFish features to create secure Java EE applications or to secure the GlassFish installation and operating environment and using OpenSSO *Information Resources Management* ,2010-01-01 This work is a comprehensive four volume reference addressing major issues trends and areas for advancement in information management research containing chapters investigating human factors in IT management as well as IT governance outsourcing and diffusion Provided by publisher **GlassFish Operations Handbook** William D Jones,2026-01-03 GlassFish Operations Handbook Deploying Managing and Optimizing Enterprise Applications is a practical authoritative guide for IT professionals

architects and developers who operate GlassFish in modern enterprise environments Beginning with a clear exposition of GlassFish s evolution within the Java EE and Jakarta EE ecosystems the book demystifies the platform s architecture microkernel design service provider interfaces core runtime components and extension points so readers understand how the server delivers flexibility extensibility and protocol support for diverse application needs The handbook covers the full lifecycle of GlassFish environments from infrastructure planning and installation to automated provisioning domain and instance creation and configuration as code It lays out operational best practices for deployment including blue green and zero downtime patterns resource management JDBC JMS tuning security hardening compliance considerations and high availability Detailed chapters on backup disaster recovery and upgrade strategies help teams design resilient auditable and compliant operations for mission critical systems Recognizing the centrality of automation and DevOps the book provides in depth recipes for scripting remote management via REST and seamless integration into CI CD pipelines and orchestration platforms such as Kubernetes It also covers observability with Prometheus and Grafana multi domain administration interoperability with other servers and migration strategies from legacy environments Practical examples and actionable guidance empower practitioners to deploy manage and continuously optimize GlassFish to meet enterprise performance scalability and reliability objectives **Webster's New International Dictionary of the English Language. --** Noah Webster,1961 **Informationweek** ,2008 Instruments ,1947 Issues for Nov 1949 Dec 1953 include the Journal of the Southern California Meter Association

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Table of Contents Glassfish Application Development Guide

Glassfish Application Development Guide Introduction

In todays digital age, the availability of Glassfish Application Development Guide books and manuals for download has revolutionized the way we access information. Gone are the days of physically flipping through pages and carrying heavy textbooks or manuals. With just a few clicks, we can now access a wealth of knowledge from the comfort of our own homes or on the go. This article will explore the advantages of Glassfish Application Development Guide books and manuals for download, along with some popular platforms that offer these resources. One of the significant advantages of Glassfish

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