



# Oracle GoldenGate 11g Handbook

ORACLE  
FUSION MIDDLEWARE  
SOLUTIONS

Enable Data Replication in Heterogeneous Environments

Robert G. Freeman



# Oracle Goldengate 11g Handbook

**Darl Kuhn, Bernard Lopuz, Charles Kim**

## **Oracle Goldengate 11g Handbook:**

*Oracle GoldenGate 11g Handbook* Robert G. Freeman,2013-06-05 Master Oracle GoldenGate 11g Enable highly available real time access to enterprise data in heterogeneous environments Featuring hands on workshops Oracle GoldenGate 11g Handbook shows you how to install configure and implement this high performance application You ll learn how to replicate data across Oracle databases and other platforms including MySQL and Microsoft SQL Server and perform near zero downtime migrations and upgrades Monitoring performance tuning and troubleshooting are also discussed in this Oracle Press guide Install and configure Oracle GoldenGate Implement Oracle GoldenGate one way replication Configure multitarget and cascading replication Use bidirectional replication to build a heterogeneous database infrastructure Secure your environment control and manipulate data and prevent errors Configure Oracle GoldenGate for Oracle Clusterware and Oracle Real Application Clusters Use Oracle GoldenGate with MySQL and Microsoft SQL Server Perform near zero downtime upgrades and migrations Use Oracle GoldenGate Monitor and Oracle GoldenGate Director Ensure data quality with Oracle GoldenGate Veridata Implement nondatabase integration options Oracle Goldengate 11g Complete Cookbook Ankur Gupta,2013-09-25 Oracle Goldengate 11g Complete Cookbook follows the Cookbook style Each recipe provides step by step instructions with various examples and scripts This book provides the necessary information to successfully complete most of the possible administration tasks Oracle Goldengate 11g Complete Cookbook is aimed at Database Administrators Architects and Middleware Administrators who are keen to know more about Oracle Goldengate Whether you are handling Goldengate environments on a day to day basis or using it just for migration this book provides the necessary information required to successfully complete your administration tasks The reader is expected to have some knowledge of Oracle databases

Oracle GoldenGate 11g Handbook Robert G. Freeman,2013-07-09 The only Oracle Press guide to Oracle GoldenGate 11gthe comprehensive software package for enabling the replication of data in heterogeneous data environments **Oracle GoldenGate 11g Implementer's Guide** John P. Jeffries,2011-02-22 Design install and configure high performance data replication solutions using Oracle GoldenGate with this book and eBook **Oracle GoldenGate 12c Implementer's Guide** John P Jeffries,2015-07-27 GoldenGate exchanges data among systems in a timely manner and meets the demand for real time access to information regardless of volume The new release 12c includes an optimized database intelligent and integrated delivery capabilities expanded heterogeneity and tighter security Perform zero downtime data migration to on premise or public cloud with GoldenGate s feature rich portfolio Start with the installation and learn the design concepts and enhanced configuration of GoldenGate 12c Exploit new 12c features to successfully implement GoldenGate on your enterprise Dive deep into configuring GoldenGate for high availability DDL support and reverse processing Build fast secure robust scalable technical solutions by tuning data delivery and networks Finally enrich your data replication knowledge by learning the troubleshooting tips **Oracle GoldenGate 11g Implementer's Guide** John P. Jeffries,2011 **Expert**

**Oracle GoldenGate** Ben Prusinski, Steve Phillips, Shing Chung, 2011-10-07 Expert Oracle GoldenGate is a hands on guide to creating and managing complex data replication environments using the latest in database replication technology from Oracle GoldenGate is the future in replication technology from Oracle and aims to be best of breed GoldenGate supports homogeneous replication between Oracle databases It supports heterogeneous replication involving other brands such as Microsoft SQL Server and IBM DB2 Universal Server GoldenGate is high speed bidirectional highly parallelized and makes only a light impact on the performance of databases involved in replication The authors share their experience in the form of tutorials on designing and implementing all types of Oracle GoldenGate environments You ll learn methods for tuning Oracle GoldenGate performance You ll discover GoldenGate s utility as a migration and extract transform load ETL tool You ll learn to configure highly available environments involving GoldenGate Real Application Clusters and Data Guard From installation to design to implementation and troubleshooting Expert Oracle GoldenGate helps you master all aspects of using and applying Oracle GoldenGate as the replication tool of choice in your environment Explains all aspects of using GoldenGate for replication Covers homogeneous heterogeneous and bidirectional replication Shows the use of GoldenGate for data migration and extract transform load ETL *Oracle Database 11g Oracle Real Application Clusters Handbook, 2nd Edition* K Gopalakrishnan, 2011-08-10 Master Oracle Real Application Clusters Maintain a dynamic enterprise computing infrastructure with expert instruction from an Oracle ACE Oracle Database 11g Oracle Real Application Clusters Handbook Second Edition has been fully revised and updated to cover the latest tools and features Find out how to prepare your hardware deploy Oracle Real Application Clusters optimize data integrity and integrate seamless failover protection Troubleshooting performance tuning and application development are also discussed in this comprehensive Oracle Press guide Install and configure Oracle Real Application Clusters Configure and manage diskgroups using Oracle Automatic Storage Management Work with services voting disks and Oracle Clusterware Repository Look under the hood of the Cache Fusion and Global Resource Directory operations in Oracle Real Applications Clusters Explore the internal workings of backup and recovery in Oracle Real Application Clusters Employ workload balancing and the Transparent Application Failover feature of an Oracle database Get complete coverage of Stretch Clusters also known as Metro Clusters Troubleshoot Oracle Clusterware using the most advanced diagnostics available Develop custom Oracle Real Application Clusters applications **Oracle SOA Suite 11g Handbook** Lucas Jellema, 2010-09-22 Master Oracle SOA Suite 11g Design and implement an agile service oriented enterprise computing infrastructure using the detailed information in this Oracle Press guide Written by an Oracle ACE director Oracle SOA Suite 11g Handbook uses a hands on case study to illustrate each programming management and governance concept Get expert techniques for modeling and implementing complex business processes and deploying and securing Web services while maximizing decoupling and code reuse Install Oracle SOA Suite 11g or migrate from a previous version Design and develop composite applications using SCA and SDO Model processes using BPEL BPMN and human task

components Connect components through mapping and filtering with Oracle Mediator Apply the principles of event driven architecture through complex event processing the event delivery network and Oracle Business Activity Monitoring server Benefit from the power of Java through the Spring component and the interaction with Oracle Validate enrich transform route and operate on data using the Oracle Service Bus Deploy test and manage composite applications from the Oracle Enterprise Manager control console

**Oracle Database Problem Solving and Troubleshooting Handbook** Tariq Farooq, Mike Ault, Paulo Portugal, Mohamed Hourri, Syed Jaffar Hussain, Jim Czuprynski, Guy Harrison, 2016-04-04 An Expert Guide for Solving Complex Oracle Database Problems Oracle Database Problem Solving and Troubleshooting Handbook delivers comprehensive practical and up to date advice for running the Oracle Database reliably and efficiently in complex production environments Seven leading Oracle experts have brought together an unmatched collection of proven solutions hands on examples and step by step tips for Oracle Database 12c 11g and other recent versions of Oracle Database Every solution is crafted to help experienced Oracle DBAs and DMAs understand and fix serious problems as rapidly as possible The authors cover LOB segments UNDO tablespaces high GC buffer wait events poor query response times latch contention indexing XA distributed transactions RMAN backup recovery and much more They also offer in depth coverage of a wide range of topics including DDL optimization VLDB tuning database forensics adaptive cursor sharing data pumps data migration SSDs indexes and how to go about fixing Oracle RAC problems Learn how to Choose the quickest path to solve high impact problems Use modern best practices to make your day more efficient and predictable Construct your Call 9 1 1 plan for future database emergencies Proactively perform maintenance to improve your environment s stability Save time with industry standard tools and scripts Register your product at informit com register for convenient access to downloads updates and corrections as they become available

*Getting Started with Oracle Data Integrator 11g* David Hecksel, Bernard Wheeler, 2012-01-01 Combine high volume data movement complex transformations and real time data integration with the robust capabilities of ODI in this practical guide

**Linux and Solaris Recipes for Oracle DBAs** Darl Kuhn, Bernard Lopuz, Charles Kim, 2015-11-27 Linux and Solaris Recipes for Oracle DBAs 2nd Edition is an example based book on managing Oracle Database under Linux and Solaris The book is written for database administrators who need to get work done and lack the luxury of curling up fireside with a stack of operating system documentation What this book provides instead is task oriented coverage designed around the needs of the Oracle Database Administrator Find the right chapter Look up the task to perform See the solution Implement the solution straight away in your own environment Get the job done New in this edition is coverage of Oracle s own Solaris operating system Oracle Corporation has been working diligently to bring commonality between Solaris and Linux and this book takes advantage of those efforts to provide task oriented solutions that work on common distributions of Linux such as Red Hat Enterprise Linux and Oracle Enterprise Linux while also accommodating the growing number of Oracle Solaris customers Examples in the book match the tasks DBAs perform

daily even hourly Solutions come first in the book but always are followed by close explanations of the details Database administrators won't go wrong with Linux and Solaris Recipes for Oracle DBAs It's the book to buy if you're after clear and reliable examples to help in getting the job done and getting home to your family Takes you directly from problem to solution Covers the right mix of operating system tasks for database administrators Respects your time by being succinct and to the point Includes coverage of Solaris in addition to common Linux distributions What You Will Learn Execute Linux and Solaris commands applicable to Oracle Database Automate critical DBA tasks via operating system shell scripts Monitor tune and optimize Linux and Solaris servers for Oracle Setup a VirtualBox environment for the Oracle database Perform system administration tasks relevant to Oracle Database Remotely and securely manage Oracle on Linux and Solaris Who This Book Is For Linux and Solaris Recipes for Oracle DBAs is a book for Oracle database administrators who want to expertly operate Oracle databases on the Linux and Solaris operating systems If you're new to Linux and Solaris and can benefit from detailed examples showing how to perform tasks that Oracle DBAs perform on Linux and Solaris servers then this book is what you need to help you get the job done and get home on time

**Oracle Goldengate 12c** Fawzi Alswaimil, 2017-06-02 This book covers Oracle Database 11g Oracle Database 12c MySQL and Microsoft SQL Server It includes related Oracle Database features for readers trying to prototype or implement Oracle GoldenGate What you will learn from the book Oracle GoldenGate fundamentals modular architecture flexible and scalable configuration and installation options This is the foundation for all new Oracle GoldenGate users Oracle GoldenGate initial data load techniques for a heterogeneous environment including initial load using the Recovery Manager RMAN suitable for a VLDB environment Learn how to configure Oracle GoldenGate instance for query offloading Reports are diverted to an Oracle Database instance for an operational Data Warehouse running 10x faster Find out how to configure Oracle GoldenGate for high availability using bi-directional topology Learn how to implement internal and user defined Conflict Detection and Resolution CDR necessary to operate active active Oracle GoldenGate environments Deployment of Oracle GoldenGate Veridata Installation and configuration of the Repository Installation and configuration of the agent on source and target systems Configuration of Oracle GoldenGate to determine Out Of Sync tables Use of Oracle GoldenGate for performing Near Zero Downtime Upgrade Migration Learn the use of the Recovery Manager RMAN cloning to prepare the database for upgrade Learn how to configure Oracle GoldenGate on a heterogeneous environment composed of Oracle Database 12c Non CDB MySQL and Oracle Database 12c CDB Learn how to use Oracle GoldenGate performing data transformation for the operational data store Learn how to install configure and use Oracle GoldenGate Management Pack Learn in depth about Oracle GoldenGate Director and Oracle GoldenGate Monitor Integration of Oracle GoldenGate with Oracle Data Guard Migration from Oracle Streams to Oracle GoldenGate Configuration of Oracle GoldenGate for best performance using Integrated Capture and intermediate systems Learn how to Configure Data Definition Language DDL replication

**Oracle SOA Suite 12c**

**Handbook** Lucas Jellema, 2015-09-01 Master Oracle SOA Suite 12c Design implement manage and maintain a highly flexible service oriented computing infrastructure across your enterprise using the detailed information in this Oracle Press guide Written by an Oracle ACE director Oracle SOA Suite 12c Handbook uses a start to finish case study to illustrate each concept and technique Learn expert techniques for designing and implementing components assembling composite applications integrating Java handling complex business logic and maximizing code reuse Runtime administration governance and security are covered in this practical resource Get started with the Oracle SOA Suite 12c development and run time environment Deploy and manage SOA composite applications Expose SOAP XML REST JSON through Oracle Service Bus Establish interactions through adapters for Database JMS File FTP UMS LDAP and Coherence Embed custom logic using Java and the Spring component Perform fast data analysis in real time with Oracle Event Processor Implement Event Drive Architecture based on the Event Delivery Network EDN Use Oracle Business Rules to encapsulate logic and automate decisions Model complex processes using BPEL BPMN and human task components Establish KPIs and evaluate performance using Oracle Business Activity Monitoring Control traffic audit system activity and encrypt sensitive data [The Cloud Computing Journey](#) Divit Gupta, 2024-01-05 Elevate your expertise and gain holistic insights into cloud technology with a focus on smoothly transitioning from on premises to the cloud Key Features Analyze cloud architecture in depth including different layers components and design principles Explore various types of cloud services from AWS Microsoft Azure Google Cloud Oracle Cloud Infrastructure and more Implement best practices and understand the use of various cloud deployment tools Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionAs the need for digital transformation and remote work surges so does the demand for cloud computing However the complexity of cloud architecture and the abundance of vendors and tools can be overwhelming for businesses This book addresses the need for skilled professionals capable of designing building and managing scalable and resilient cloud systems to navigate the complex landscape of cloud computing through practical tips and strategies This comprehensive cloud computing guide offers the expertise and best practices for evaluating different cloud vendors and tools The first part will help you gain a thorough understanding of cloud computing basics before delving deeper into cloud architecture its design and implementation Armed with this expert insight you ll be able to avoid costly mistakes ensure that your cloud systems are secure and compliant and build cloud systems that can adapt and grow with the business By the end of this book you ll be proficient in leveraging different vendors and tools to build robust and secure cloud systems to achieve specific goals and meet business requirements What you will learn Get to grips with the core concepts of cloud architecture and cost optimization Understand the different cloud deployment and service models Explore various cloud related tools and technologies Discover cloud migration strategies and best practices Find out who the major cloud vendors are and what they offer Analyze the impact and future of cloud technology Who this book is for The book is for anyone interested in understanding cloud technology including business leaders and IT

professionals seeking insights into the benefits challenges and best practices of cloud computing Those who are just starting to explore cloud technology as well as those who are already using cloud technology and want to deepen their understanding to optimize usage will find this resource especially useful

**FinOps for Snowflake** Y V Ravi Kumar, Velu Natarajan, Parag Bhardwaj, 2025-10-21 Unlock the full financial potential of your Snowflake environment Learn how to cut costs boost performance and take control of your cloud data spend with FinOps for Snowflake your essential guide to implementing a smart automated and Snowflake optimized FinOps strategy In today s data driven world financial optimization on platforms like Snowflake is more critical than ever Whether you re just beginning your FinOps journey or refining mature practices this book provides a practical roadmap to align Snowflake usage with business goals reduce costs and improve performance without compromising agility Grounded in real world case studies and packed with actionable strategies FinOps for Snowflake shows how leading organizations are transforming their environments through automation governance and cost intelligence You ll learn how to apply proven techniques for architecture tuning workload and storage efficiency and performance optimization empowering you to make smarter data driven decisions What You Will Learn Master FinOps principles tailored for Snowflake s architecture and pricing model Enable collaboration across finance engineering and business teams Deliver real time cost insights for smarter decision making Optimize compute storage and Snowflake AI and ML services for efficiency Leverage Snowflake Cortex AI and Adoptive Warehouse Compute for intelligent cost governance Apply proven strategies to achieve operational excellence and measurable savings Who this Book is For Data professionals cloud engineers FinOps practitioners and finance teams seeking to improve cost visibility operational efficiency and financial accountability in Snowflake environments

**Zero Downtime Database Upgrade and Active Active Replication Using Oracle GoldenGate 11g Release 2** Kashif Aslam, 2012-07-12 A Must Have Guide for using Oracle GoldenGate in Oracle Database Upgrade and Bi Directional Replication Projects Harness the power of Oracle GoldenGate 11gR2 robust tool and use Oracle GoldenGate for your next Database Upgrade Project or for your High Availability requirements Your next Oracle Database Upgrade project should not be nerve wrecking and scary rather you can perform your Oracle Database Upgrade without extensive downtime with full end to end functional and performance testing capabilities Moreover Oracle GoldenGate provides you rollback capabilities like none other in case of a failed Database Upgrade If you are planning to implement High Availability or Disaster Recovery solution you can utilize Oracle GoldenGate Bi directional capabilities to not only provide you High Availability and Disaster Recovery solution but also enable you to use your other database for Read Write activity for better utilization of resources Written by Kashif Aslam who himself has performed multiple database upgrades using Oracle GoldenGate and also has implemented multiple Oracle GoldenGate replication projects including 4 way Multi Master Active Active replication this book provides step by step instructions with screenshots and sample codes to fully enable you to perform Oracle database Upgrade using Oracle GoldenGate and also setup Active Active Bi Directional replication along with

detailed examples of configuring conflict detection and resolution methodologies [Oracle Database 12c Release 2 New Features](#) Bob Bryla, Robert G. Freeman, 2017-04-24 Leverage the New and Improved Features of Oracle Database 12c Written by Oracle experts Bob Bryla and Robert G Freeman this Oracle Press guide describes the myriad new and enhanced capabilities available in the latest Oracle Database release Inside you ll find everything you need to know to get up and running quickly on Oracle Database 12c Release 2 Supported by contributions from Oracle expert Eric Yen Oracle Database 12c Release 2 New Features offers detailed coverage of Installing Oracle Database 12c and Grid Infrastructure Architectural changes such as Oracle Multitenant The most current information on upgrading and migrating to Oracle Database 12c The pre upgrade information tool and parallel processing for database upgrades Oracle Real Application Clusters new features such as Oracle Flex Cluster Oracle Flex Automatic Storage Management and Oracle Automatic Storage Management Cluster File System Enhanced and new online operations tables indexes and PDBs Oracle RMAN enhancements including cross platform backup and recovery Oracle Data Guard improvements such as Fast Sync and Oracle Active Data Guard new features such as Far Sync SQL PL SQL DML and DDL new features Improvements to partitioning manageability performance and availability Advanced business intelligence and data warehousing capabilities Security enhancements including privileges analysis data redaction and new administrative level privileges Manageability performance and optimization improvements [Oracle Autonomous Database in Enterprise Architecture](#) Bal Mukund Sharma, Krishnakumar KM, Rashmi Panda, 2022-12-16 Get up to speed with Oracle s Autonomous Databases and implementation strategies for any workload or use case including transactional data warehousing and non relational databases Key Features Explore ADB its business benefits and architectural considerations Migrate the existing workload to ADB explore high availability and use cloud native methods for monitoring and event notifications Leverage APEX JSON the REST API and SQL Developer Web features for rapid development Book Description Oracle Autonomous Database ADB is built on the world s fastest Oracle Database Platform Exadata and is delivered on Oracle Cloud Infrastructure OCI customer data center ExaCC and Oracle Dedicated Region Cloud This book is a fast paced hands on introduction to the most important aspects of OCI Autonomous Databases You ll get to grips with concepts needed for designing disaster recovery using standby database deployment for Autonomous Databases As you progress you ll understand how you can take advantage of automatic backup and restore The concluding chapters will cover topics such as the security aspects of databases to help you learn about managing Autonomous Databases along with exploring the features of Autonomous Database security such as Data Safe and customer managed keys for Vaults By the end of this Oracle book you ll be able to build and deploy an Autonomous Database in OCI migrate databases to ADB comfortably set up additional high availability features such as Autonomous Data Guard and understand end to end operations with ADBs What you will learn Explore migration methods available for Autonomous Databases using both online and offline methods Create standby databases RTO and RPO objectives and Autonomous Data Guard operations Become well

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## Unveiling the Magic of Words: A Review of "**Oracle Goldengate 11g Handbook**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Oracle Goldengate 11g Handbook**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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