



# **Zero-Downtime Database Upgrade & Active-Active Replication Using Oracle GoldenGate 11g Release 2**

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# Zero Downtime Database Upgrade Active Active Replication Using Oracle Goldengate 11g Release

**CloudRoar Consulting Services**



## **Zero Downtime Database Upgrade Active Active Replication Using Oracle Goldengate 11g Release :**

### **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 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 Database 12C Administrator Certified Professional Certification Prep Guide : 350 Questions & Answers* CloudRoar Consulting Services,2025-08-15 Ace the Oracle Database 12C Administrator Certified Professional exam with 350 questions and answers covering database architecture installation backup recovery performance tuning security and administration best practices Each question includes practical examples and explanations to ensure exam readiness Ideal for Oracle DBAs and IT professionals Oracle12C DBA DatabaseAdministration BackupAndRecovery PerformanceTuning Security Architecture ExamPreparation TechCertifications ITCertifications CareerGrowth ProfessionalDevelopment OracleDB DatabaseSkills ITSkills *Oracle Goldengate 12C Certified Implementation Specialist Certification Prep Guide : 350 Questions & Answers* CloudRoar Consulting Services,2025-08-15 Prepare for the Oracle GoldenGate 12C Certified Implementation Specialist exam with 350 questions and answers covering data replication configuration monitoring performance tuning troubleshooting and integration best practices Each question includes practical examples and explanations to ensure exam readiness Ideal for database administrators and data replication specialists OracleGoldenGate DataReplication Configuration Monitoring PerformanceTuning Troubleshooting Integration ExamPreparation TechCertifications ITCertifications CareerGrowth ProfessionalDevelopment DBASkills OracleDB ITSkills *Oracle GoldenGate 11g Handbook* Robert G. Freeman,2013-07-09 The only Oracle Press guide to Oracle GoldenGate

11g the comprehensive software package for enabling the replication of data in heterogeneous data environments **Oracle Certified Database Administrator Oracle DbA Certification Prep Guide : 350 Questions & Answers** CloudRoar Consulting Services, 2025-08-15 Prepare for the Oracle Certified Database Administrator DBA exam with 350 questions and answers covering database installation configuration security backup recovery performance tuning and troubleshooting Each question includes practical examples and detailed explanations to ensure exam readiness Ideal for Oracle DBAs and IT professionals OracleDBACertification DatabaseAdministration Security BackupAndRecovery PerformanceTuning Troubleshooting ExamPreparation TechCertifications ITCertifications CareerGrowth CertificationGuide ProfessionalDevelopment OracleSkills DatabaseSkills CloudDatabase **Oracle Certified Database Administrator Certification Prep Guide : 350 Questions & Answers** CloudRoar Consulting Services, 2025-08-15 Ace the Oracle Certified Database Administrator exam with 350 questions and answers covering database architecture SQL PL SQL security backup recovery performance tuning and cloud integration Each question provides practical explanations and examples to ensure learning and exam readiness Ideal for database administrators and Oracle professionals OracleCertification DBA SQL PLSQL DatabaseArchitecture Security BackupAndRecovery PerformanceTuning ExamPreparation TechCertifications ITCertifications CareerGrowth CertificationGuide ProfessionalDevelopment DatabaseSkills CloudIntegration **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 Database Upgrade, Migration & Transformation Tips & Techniques* Edward Whalen, Jim Czuprynski, 2015-06-05 A practical roadmap for database upgrade migration and transformation This Oracle Press guide provides best practices for migrating between different operating systems and platforms transforming existing databases to use different storage or enterprise systems and upgrading databases from one release to the next Based on the expert authors real world experience Oracle Database Upgrade Migration Transformation Tips Techniques will help you choose the best migration path for your project and develop an effective methodology Code examples and detailed checklists are included in this comprehensive resource Leverage the features of Oracle Data Guard to migrate an Oracle Database Use Oracle Recovery Manager transportable tablespace sets and transportable database toolsets to migrate between platforms Migrate databases with export import Use Oracle GoldenGate for zero or near zero downtime migrations Take advantage of the Cross Platform Transportable Tablespace Set utility Migrate to new storage platforms using the features of Oracle Automatic Storage Management Upgrade to Oracle Database 12c with the Database Upgrade Assistant tool Move seamlessly to Oracle s engineered systems Migrate to the cloud *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 Database Upgrade and Migration Methods** Y V Ravikumar, K M Krishnakumar, Nassyam Basha, 2017-03-01 Learn all of the available upgrade and migration methods in detail to move to Oracle Database version 12c You will become familiar with database upgrade best practices to complete the upgrade in an effective manner and understand the Oracle Database 12c patching process So it s time to upgrade Oracle Database to version 12c and you need to choose the appropriate method while considering issues such as downtime This book explains all of the available upgrade and migration methods so you can choose the one that suits your environment You will be aware of the practical issues and proactive measures to take to

upgrade successfully and reduce unexpected issues With every release of Oracle Database there are new features and fixes to bugs identified in previous versions As each release becomes obsolete existing databases need to be upgraded Oracle Database Upgrade and Migration Methods explains each method along with its strategy requirements steps and known issues that have been seen so far This book also compares the methods to help you choose the proper method according to your constraints Also included in this book Pre requisite patches and pre upgrade steps Patching to perform changes at the binary and database level to apply bug fixes What You Will Learn Understand the need and importance of database upgrading and migration Be aware of the challenges associated with database upgrade decision making Compare all upgrade migration methods Become familiar with database upgrade best practices and recommendations Understand database upgrade concepts in high availability and multi tenant environments Know the database downgrade steps in case the upgraded database isn't compatible with the environment Discover the features and benefits to the organization when it moves from the old database version to the latest database version Understand Oracle 12c patching concepts Who This Book Is For Core database administrators solution architects business consultants and database architects     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 With Microservices* Y. V. Ravi Kumar, Mariami Kupatadze, Konstantin Kerekovski, Tridib Das, 2020-02-20 A step by step guide to practising Oracle GoldenGate High Availability HA options Microservices and Real Time downstream techniques \_DESCRIPTION The book starts with a brief introduction about Oracle GoldenGate with Microservices and how to configure high availability using various methods Oracle GoldenGate Microservices Architecture MA is a similar architecture based on REST APIs which enable us to configure monitor and manage Oracle GoldenGate services using a web based user interface Each module supports a specific business goal and uses a simple lightweight and well defined interface to communicate with other sets of services Oracle GoldenGate can interact with custom conflict resolution routines that customers write to satisfy their business rules KEY FEATURES Understand how and when they're used classic Vs Microservices Learn how to use real time downstream methods based on the environment Learn how to solve Oracle GoldenGate OGG Conflict Detection and Resolution CDR in bi directional active replication Learn how to implement high availability for mission critical systems using

Oracle GoldenGate XAG components Learn how to set up bi directional replication between pluggable databases PDBs in a multi tenant environment Learn how to use differently typed of replicates in pluggable databases PDBs in a multi tenant environment WHAT WILL YOU LEARN By the end of the book you will come across a few case studies about how to use Microservices Kubernetes REST APIs in Oracle GoldenGate and How to monitor Oracle GoldenGate processes in real time environments This book also helps how to use various file systems like ACFS DBFS and NFS in high availability for Oracle GoldenGate WHO THIS BOOK IS FOR This book is intended for anyone looking for how to set up and configure Uni directional Bi directional replication in mission critical environments either using classic Oracle GoldenGate OR Oracle GoldenGate with Microservices This book also helps various methods to implement real time downstream techniques Table of Contents 1 Introduction to Oracle GoldenGate HA XAG Components 2 Extract and Replicat in Multitenant Environment 3 Consolidated and Cascaded Oracle GoldenGate 4 Introduction to Oracle GoldenGate Methodologies 5 Introduction to Oracle GoldenGate Utilities 6 Bi Directional Replication with Conflict Detection and Resolution CDR 7 Bi directional Replication with Pluggable Databases PDBs in Multitenant Environment 8 Real Time Downstream Database with Multiple Scenarios 9 Oracle GoldenGate Microservices Architecture overview 10 Managing Oracle GoldenGate and Kubernetes 11 Automation Recipes Via Rest APIs 12 Oracle GoldenGate Tuning and Troubleshooting

**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

**Maximum Availability Architecture (MAA) with Oracle GoldenGate MicroServices in HUB Architecture** Lucia Hustatyova, 2023-09-25 A step by step guide for designing implementing and managing Oracle GoldenGate with HUB Architecture KEY FEATURES Learn how to use the REST API command line solutions and web interface to manage Oracle GoldenGate Microservices Architecture Configure

Oracle GoldenGate Microservices for disaster recovery and high availability architecture Learn how to monitor and troubleshoot Oracle GoldenGate Microservices Architecture DESCRIPTION Oracle GoldenGate is a software product that allows you to replicate data from one database to another If you are interested in using Oracle GoldenGate Microservices OGG MA in HUB configuration for database upgrade migration and data replication then this book is a valuable resource for you This book provides a step by step guide for designing and implementing an Oracle GoldenGate Microservices architecture in a hub configuration with high availability HA and disaster recovery DR capabilities It begins by explaining the architecture of Oracle GoldenGate Microservices and then provides real world examples of how it can be used to upgrade or migrate databases replicate data and monitor the environment Moving on the book includes detailed instructions on how to install and configure Oracle GoldenGate Microservices as well as how to use the REST API command line and web interface to manage the solution Lastly the book provides a practical example of how the architecture can be used to achieve HA and DR for data replication By the end of the book you will be a confident and knowledgeable OGG MA user who is able to design implement and manage Oracle GoldenGate Microservices Architecture solutions for your organization WHAT YOU WILL LEARN Understand the architectural design of OGG MA in HUB configuration using ACFS Set up monitoring for OGG MA with Oracle Cloud Control Use the REST API in OGG for automation Check and verify data consistency with Veridata Perform patching without extended downtime by using high availability capabilities Learn how to handle errors during data replication in ACFS or OGG extract replicat processes WHO THIS BOOK IS FOR This book is for technical professionals database administrators and engineers who want complete control over their Oracle GoldenGate Microservices environment TABLE OF CONTENTS 1 Introduction to Oracle GoldenGate in HUB Architecture 2 Oracle GoldenGate MicroServices Architecture in HUB Configuration 3 Installation Setup OGG in HUB Architecture Part GI and ACFS 4 Installation Setup OGG in HUB Architecture Part RDBMS 5 Installation of OGG MA OGG in HUB Infrastructure 6 Uni Directional Replication Setup OGG in HUB Architecture 7 How to DDL Parallelism and REST API for Automation 8 Bi Directional Replication Setup OGG in HUB Architecture Setup and Preparation 9 Bi Directional Replication Setup OGG in HUB Architecture 10 Monitoring OGG in HUB Architecture Setup Veridata 11 Monitoring OGG in HUB Architecture Execute Veridata and Configure Cloud Control 12 Patching Oracle OGG in HUB Architecture 13 Troubleshooting OGG in HUB Architecture 14 Disaster Recovery Setup OGG in HUB Architecture

**Oracle Database 11g Release 2 High Availability: Maximize Your Availability with Grid Infrastructure, RAC and Data Guard** Scott Jesse,Bill Burton,Bryan Vongray,2011-04-22 Leverage Oracle Database 11g Release 2 High Availability Features Protect your critical business assets and achieve maximum database uptime using the detailed information in this Oracle Press guide Oracle Database 11g Release 2 High Availability Maximize Your Availability with Grid Infrastructure Oracle Real Application Clusters and Oracle Data Guard Second Edition provides cost effective solutions to current availability challenges Discover how to grid enable your IT framework roll out Oracle Real Application

Clusters maintain standby databases and deploy Oracle Flashback Monitoring tuning and disaster recovery techniques are also covered in this comprehensive resource Install Oracle Clusterware as part of Oracle's grid infrastructure or upgrade from an earlier version Build test clusters and hosts using Oracle VM Work with Oracle Automatic Storage Management and Oracle Automatic Storage Management Cluster File System Create synchronized standby databases using Oracle Data Guard Reliably archive and restore data with Oracle Recovery Manager Use Oracle Flashback to identify and undo user errors Configure Oracle Enterprise Manager Grid Control for management of an Oracle maximum availability architecture environment

Oracle GoldenGate Implementation: 350 Practice Questions & Detailed Explanations CloudRoar Consulting Services, 2025-08-15 Embarking on the journey to become an Oracle GoldenGate Implementation certified professional signifies a significant step towards mastering one of the most sophisticated data integration and replication solutions available today The Oracle GoldenGate Implementation certification is designed to validate your skills in deploying and managing data integration environments using Oracle's powerful suite of tools This certification is ideal for IT professionals who aim to leverage GoldenGate to ensure high availability real time transactional data integration and transformation across enterprise environments In today's data driven world the ability to seamlessly replicate data across heterogeneous systems is a highly sought after skill This certification is tailored for database administrators system architects and IT professionals who are keen to enhance their expertise in data management and achieve a competitive edge in the industry As businesses increasingly rely on real time data analytics to drive decision making the demand for professionals skilled in Oracle GoldenGate continues to grow Earning this certification not only demonstrates your technical prowess but also your dedication to staying at the forefront of technological advancements in data replication and integration This comprehensive resource Oracle GoldenGate Implementation 350 Practice Questions Detailed Explanations is meticulously crafted to align with the exam's core domains The practice questions are designed to simulate real world scenarios providing you with a robust understanding of the practical challenges you may face Each question is accompanied by detailed explanations guiding you through the reasoning behind correct answers and helping you develop problem solving skills that go beyond rote memorization By engaging with these exercises you'll build genuine confidence in your ability to navigate complex data environments ensuring you're well prepared for the certification exam Achieving the Oracle GoldenGate Implementation certification can significantly enhance your career trajectory offering opportunities for advancement and increased professional recognition This resource serves as a valuable tool in your preparation equipping you with the knowledge and skills necessary to excel As you master the intricacies of GoldenGate you'll unlock new possibilities for career growth and contribute meaningfully to your organization's data strategy Whether you're seeking to advance in your current role or exploring new career paths this certification and its supporting practice questions offer a clear pathway to success

Beginning Oracle GoldenGate Hank Tullis, Paul Elbow, Chaitanya R. Geddam, 2015-03-18 Beginning Oracle GoldenGate

provides an introduction to Oracle GoldenGate from an implementer's viewpoint. The book helps in the implementation of GoldenGate as a tool for moving data in all types of use cases from a simple database copy to high performance replication in real time within an active scenario. The book takes a hands-on, example-based approach with an emphasis on the advanced implementation components that make up so much of the power and capability that GoldenGate offers. A GoldenGate implementation generally consists of a group project involving both business and technical resources. First, a business case must be built showing a proper justification and return on investment. Then comes a planning phase, and that's followed by implementation and actual use of the tool. Beginning Oracle GoldenGate begins from the beginning by helping you make the business case. Next, the book guides you through the subsequent installation, configuration, and operation of the product. Beginning Oracle GoldenGate helps you learn to replicate using classic capture and integrated capture. You'll learn about one-way and multi-master replication. Along the way, you'll learn about the GoldenGate Manager and about the Extract and Pump processes and when to use them. You'll learn some critical points about the oft-overlooked task of creating the target database for a replication process. You'll learn about basic maintenance, security, and types of storage. Coverage is also given to metrics reporting and troubleshooting. Takes you through justification, installation, and support. Provides multiple perspectives on each implementation approach. Starts with basic and discusses more advanced implementations. What you'll learn: Implement classic capture in a one-way setup. Build integrated capture and replication scenarios. Design, architect, and implement a multi-master replication model. Perform heterogeneous replication between multiple database architectures. Replicate unsupported data types using tokens. Manage and troubleshoot multiple GoldenGate implementations. Who this book is for: Beginning Oracle GoldenGate is aimed at technical architects, database administrators, and others who are tasked with implementing data movement across large enterprises. Data and its flow are like blood moving through the veins of the enterprise. This is the one must-have book for those whose job it is to create and manage that life-giving flow of information within a successful business.

**Pro Oracle GoldenGate 23ai for the DBA** Bobby Curtis, 2026-02-11 Transform your data replication strategy into a competitive advantage with Oracle GoldenGate 23ai. This comprehensive guide delivers the practical knowledge DBAs and architects need to implement, optimize, and scale Oracle GoldenGate 23ai in production environments. Written by Oracle ACE Director Bobby Curtis, it blends deep technical expertise with real-world business insights from hundreds of implementations across manufacturing, financial services, and technology sectors. Beyond traditional replication, this book explores the groundbreaking capabilities that make GoldenGate 23ai essential for modern AI initiatives. Learn how to implement real-time vector replication for RAG systems, integrate with cloud platforms like GCP and Snowflake, and automate deployments using REST APIs and Python. Each chapter offers proven strategies to deliver measurable ROI while reducing operational risk. Whether you're upgrading from Classic GoldenGate, deploying your first cloud data pipeline, or building AI-ready data architectures, this book provides the strategic guidance and technical depth to

succeed With Bobby's signature direct approach you'll avoid common pitfalls and implement best practices that scale with your business What You Will Learn Master the microservices architecture and new capabilities of Oracle GoldenGate 23ai Implement secure high performance data replication across Oracle PostgreSQL and cloud databases Configure vector replication for AI and machine learning workloads including RAG systems Design and build multi master replication models with automatic conflict resolution Automate deployments and management using RESTful APIs and Python Optimize performance for sub second replication lag in production environments Secure your replication environment with enterprise grade features and compliance Upgrade from Classic to Microservices architecture with zero downtime Integrate with cloud platforms including OCI GCP AWS and Azure Implement real time data pipelines to BigQuery Snowflake and other cloud targets Navigate Oracle licensing models and optimize costs Who This Book Is For Database administrators architects and IT leaders working with Oracle GoldenGate whether deploying for the first time migrating from Classic architecture or enabling AI driven replication will find actionable guidance on implementation performance tuning automation and cloud integration Covers unidirectional and multi master replication and is packed with real world use cases

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### **Zero Downtime Database Upgrade Active Active Replication Using Oracle Goldengate 11g Release Introduction**

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