

Oracle Goldengate For Oracle To Oracle

Bobby Curtis

Oracle GoldenGate With Microservices Y. V. Ravi Kumar, Mariami Kapatadze, 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

Mastering Oracle GoldenGate Ravinder Gupta, 2016-11-01 Master Oracle GoldenGate technology on multiple database platforms using this step-by-step implementation guide. Learn about advanced features to use in building a robust, high-availability replication system. Provided are detailed illustration of Oracle GoldenGate concepts, GoldenGate tools and add-ons, as well as illustrative examples. The book covers Oracle GoldenGate for Oracle database, and also discusses setup and configuration for other common databases such as IBM DB2, SYBASE ASE, MySQL, and Microsoft SQL Server. The technology landscape is fast-changing, and Mastering Oracle GoldenGate stays current by covering the new features included in Oracle GoldenGate 12c. The book covers both classic capture and integrated capture, as well as delivery. Also covered are Oracle GoldenGate security and performance tuning, to keep your system secure and performing at its best. You will learn to monitor your GoldenGate system using tools that come with Oracle GoldenGate management pack, as well as using shell scripts. Troubleshooting is well-illustrated with examples: Covering Oracle GoldenGate technology across common database brands Discussing high-performing and secure replication environments Speaking to replication in Big Data and cloud computing environments What You Will Learn Implement Oracle GoldenGate for real time replication Secure and tune your replication environment for high performance Administer your Oracle GoldenGate environment Learn troubleshooting approaches with help of examples Make use of GoldenGate Management Pack and its API Feed live data into Big Data and cloud-based systems Who This Book Is For Database professionals who have chosen to ride the Oracle GoldenGate roller coaster for real-time replication solutions. The book is for beginners as well as professionals who are willing to master the leading replication technology in the industry. It is an excellent choice for professionals who are implementing or maintaining Oracle GoldenGate replication environments on any of the major database management system platforms.

Oracle GoldenGate Sachin Srivastava, 2021-04-28 Too often the best consultants are too busy fielding insane customer requests with equally insane timelines, which would bring 99 percent of other consultants to their knees, and making them a reality. They do this by working late into the night, testing, testing, testing, and finding creative ways to ultimately satisfy their customers. They don't have the bandwidth to stop in the middle of all this and post responses to forums, turn what they learned into helpful blog posts, and definitely not to create comprehensive books. But in that elite 1 percent there are some that still rise above the rest and somehow find the time to contribute to the greater community. Bobby Curtis is one of those people. It's a technology with nearly limitless use cases and in the last ten years or so, the technology industry has really caught on. Gone are the days where we would have to explain what database replication is. Instead we're explaining how to do it; how to stream real-time database changes into JMS, Kafka, Spark, Hive, HDFS, and the like; how to set up multimaster with conflict detection and resolution; and how to validate data consistency between heterogeneous systems. It really is a new era and Bobby's book is the most ambitious in this space yet. His writing style is clear and concise, presenting the world's most popular database replication technology-Oracle GoldenGate-to you, the reader, with usable examples taken from his vast experience. This is the first book on Oracle GoldenGate to walk the reader

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 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.

Pro Oracle GoldenGate for the DBA Bobby Curtis, 2016-08-24 Take a simple approach to learning the Oracle GoldenGate product. This approach provides the in-depth perspective of GoldenGate from an implementer's viewpoint; however, also addresses why the management viewpoint is important as well. Your journey through this book includes an architecture discussion of GoldenGate and the benefits of purchasing GoldenGate from a management perspective. Then the book quickly moves into advanced implementation components associated with GoldenGate. You'll find many use-cases and instructions throughout the book to help with everything from easy to complex GoldenGate implementations. An Oracle GoldenGate implementation generally consists of a group project, involving both business and technical resources. Pro Oracle

GoldenGate for the DBA provides the viewpoint from the DBA's vantage point. This approach provides the components of who, what, why, when, and how in defining the implementation and support of a GoldenGate project. The success of most technical projects require the support of multiple resource groups, and Pro Oracle GoldenGate for the DBA supplies the insight for the DBA member to understand the implementation and support process. Takes you through justification, installation, and support. Provides the DBA perspective toward a successful a result. Covers from basic toward increasingly advanced implementations What You Will Learn Understand the core architecture of data replication using Oracle GoldenGate Implement a one-way setup of a classic capture and an integrated capture and replication Design, architect and implement a multi-master replication model Replicate unsupported data types using tokens Manage and troubleshoot multiple GoldenGate implementations New features of GoldenGate supported in Oracle 12c Who this Book is For Pro Oracle GoldenGate for the DBA is aimed squarely at Oracle database administrators who find themselves involved in GoldenGate integration projects. The book provides the DBA view into such projects, helping database administrators toward successful implementations and solid business results.

Working with Oracle GoldenGate 12c Gavin Powell,2019-01-25 This book teaches the basics of Oracle GoldenGate, which is a product that is used to simplify the process of Oracle Database Replication. GoldenGate can be used for reporting, failover, high availability, live reporting, data warehousing, and BigData ETL process, as well as connecting to multiple other data sources outside of Oracle Database such as SQL Server, MySQL, Teradata, PostgreSQL, and many others. The purpose of GoldenGate and its popularity is its ability to make the highly complex architecture of database replication into a much more simplistic task. This book teaches the reader how to use Oracle GoldenGate, from installation to troubleshooting.

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 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 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 12c Implementer's Guide John Parsons Jeffries,2015 The book is aimed at Oracle database administrators, project managers, and solution architects who wish to extend their knowledge of GoldenGate. The reader is assumed to be familiar with Oracle databases. No knowledge of GoldenGate is required.

Instant Oracle GoldenGate Tony Bruzzese,2013-01-01 Filled with practical, step-by-step instructions and clear explanations for the most important and useful tasks. Get the job done and learn as you go. A how-To book with practical recipes accompanied with rich screenshots for easy comprehension.This is a Packt Instant How-to guide, which provides concise and clear recipes for performing the core task of replication using Oracle GoldenGate.The book is aimed at DBAs from any of popular RDBMS systems such as Oracle, SQL Server, Teradata, Sybase, and so on. The level of detail provides quick applicability to beginners and a handy review for more advanced administrators.

Expert Oracle GoldenGate Ben Prusinski,Steve Phillips,Shing Chung,2011-07-15 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 GoldenGate 11g Implementer's Guide John P. Jeffries,2011

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 Cloud Infrastructure (OCI) GoldenGate Y V Ravi Kumar,Raghavendra S,Ankur Goel,2024-04-26 This book focuses on the utilization of GoldenGate Services (GGS) in conjunction with a microservices architecture on the Oracle cloud (OCI), primarily for data migration and integration across various data sources and targets. The book begins with a practical example of utilizing GGS on a Marketplace VM,

progressively advancing to in-depth discussions on implementing GoldenGate as a Service on OCI. The book offers illustrative guides for data replication between RDBMSs (such as Oracle, Postgres, and big data targets such as Kafka). Additionally, it explores monitoring techniques using Enterprise Manager and Grafana dashboards. A comparative analysis is presented between traditional VM-based GoldenGate installations and the OCI service model. Special attention is given to Zero Downtime Migration (ZDM) and leveraging GGS for database migration from on-premises to OCI. Some chapters address multi-cloud replication using OCI GGS and include real-life case studies. By the end of this book you will have gained comprehensive insights into the architectural design of GoldenGate Services and will be adept at replicating data using GGS, enabling you to replicate setups in your own environments. What You Will Learn Set up GoldenGate Services for high availability (HA), disaster recovery (DR), migration of data to cloud, and moving data into the data lake or lakehouse Perform logical migration of data to the cloud using the ZDM tool (ZDM uses GoldenGate internally). Replicate data to big data targets Monitor GGS using Enterprise Manager and Grafana Replicate data in a multi-cloud environment Who This Book Is For Oracle database administrators who want to replicate data or use Oracle GoldenGate Services for migration and setup of high availability (HA) and disaster recovery (DR); and data engineers who want to build the data warehouse, data lake, data lakehouse to push data in near real-time

Oracle Database 12c New Features Robert G. Freeman, 2013-12-10 Authored by Master Principle Database Expert; Oracle; and Oracle ACE Robert G. Freeman; this Oracle Press guide describes the myriad new and enhanced capabilities available in the latest Oracle Database release; and presents everything you need to get up and running quickly on Oracle Database 12c. --

Oracle Data Integration: Tools for Harnessing Data Michelle Malcher, Bobby Curtis, Chris Lawless, 2015-11-05 This comprehensive Oracle Press guide thoroughly covers the latest Oracle-focused data integration tools, techniques, and practices Data integration is one of the most critical skills that all database professionals must understand and master. Traditional integrations have long proven difficult, and today's ubiquitous "big data" sources are exponentially more challenging. This practical volume focuses on current Oracle Integration and Database tools in the Oracle Technology stack and will teach you how to effectively assimilate myriad sources of information into a single, unified view. Written by an exceptional team of Oracle experts with dedicated followings, Oracle Data Integration: Tools for Harnessing Data fully explains the latest methods for integrating disparate formats and sources securely, quickly, and with the least possible manual tuning. You will learn the techniques that top database professionals employ to merge different data sources into one framework. This Oracle Press resource features best practices for optimizing the use of SQL, PL/SQL Gateways, Oracle GoldenGate, and Oracle Integrator. Contains fully up-to-date details on current versions of all Oracle tools Multi-solution approaches throughout offer optimal results for a wide range of integrations Authored by a team with extensive experience as Oracle professionals, trainers, and writers

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/replicate 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 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 For Oracle To Oracle Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Oracle Goldengate For Oracle To Oracle**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a

transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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