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Oracle Goldengate Documentation

Bobby Curtis



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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

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

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
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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 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
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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 and 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
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vantage point This approach provides the components of who what why when and how in defining the implementation and
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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

GoldenGate Essentials Richard Johnson, 2025-06-14 GoldenGate Essentials provides a comprehensive and practical guide to mastering Oracle GoldenGate the industry leading technology for real time data integration and replication across complex IT landscapes Beginning with a clear exploration of GoldenGate s architecture core processes and foundational concepts the book delivers a structured approach to deploying optimizing and managing enterprise replication solutions Readers will benefit from thorough coverage of process flows from Extract and Replicat operations to fault tolerant deployments modern microservices architectures and robust security configurations making this an indispensable reference for database administrators architects and data integration specialists Spanning installation configuration and environment preparation the book details essential planning for both on premises and cloud based deployments covering sizing upgrades file system layout and modern container ecosystems Advanced chapters delve into extract and replicat tuning parameter customization handling of large and special data types and sophisticated filtering and transformation techniques ensuring accuracy flexibility and resilience in data movement Heterogeneous replication scenarios are explained with practical advice on cross database platforms encoding big data integration and real time streaming empowering professionals to address today s multi cloud and hybrid environments Recognizing the critical importance of data integrity compliance and operational excellence GoldenGate Essentials also addresses transactional consistency conflict management performance tuning comprehensive monitoring and troubleshooting with diagnostic best practices The book concludes with forward looking insights on GoldenGate s evolution from cloud native deployment to integration with CI CD DataOps and emerging analytics pipelines With actionable examples and strategies throughout this essential volume equips practitioners to design and operate robust scalable replication architectures at the heart of modern enterprise data strategies

IBM Power Systems High Availability and Disaster Recovery Updates: Planning for a Multicloud Environment Dino Quintero, Thomas Baumann, Vera Cruz, Nilabja Halder, Youssef Largou, Prashant Pandey, Edson Gomes Pereira, Diego Riesco, Douglas Roach, Antony Steel, IBM Redbooks, 2022-05-27 This IBM Redpaper publication delivers an updated guide for high availability and disaster recovery HADR planning in a multicloud environment for IBM Power This publication describes the ideas from studies that were performed in a virtual collaborative team of IBM Business Partners technical focal points and product managers who used hands on experience to implement case studies to show HADR management aspects to develop this technical update guide for a hybrid multicloud environment The goal of this book is to deliver a HADR guide for backup and

data management on premises and in a multicloud environment This document updates HADR on premises and in the cloud with IBM PowerHA SystemMirror IBM VM Recovery Manager VMRM and other solutions that are available on IBM Power for IBM AIX IBM i and Linux This publication highlights the available offerings at the time of writing for each operating system OS that is supported in IBM Power including best practices This book addresses topics for IT architects IT specialists sellers and anyone looking to implement and manage HADR on premises and in the cloud Moreover this publication provides documentation to transfer how to skills to the technical teams and solution guidance to the sales team This book complements the documentation that is available at IBM Documentation and aligns with the educational materials that are provided by IBM Systems Technical Training

Oracle GoldenGate 12c Implementation Essentials (1Z0-447): 350 Practice Questions & Detailed Explanations CloudRoar Consulting Services, 2025-08-15 The Oracle GoldenGate 12c Implementation Essentials 1Z0 447 certification is a prestigious credential designed for IT professionals who specialize in data integration and replication using Oracle s powerful GoldenGate technology This certification validates the candidate s expertise in implementing and managing the GoldenGate 12c software a critical tool for real time data integration solutions The certification exam assesses knowledge across a range of topics including configuring and maintaining a high performance replication environment troubleshooting and optimizing GoldenGate processes Oracle GoldenGate 12c is a key player in the realm of data integration known for its ability to efficiently handle large volumes of data across diverse and complex IT environments This certification is particularly appealing to database administrators systems architects and IT consultants seeking to enhance their skills in Oracle technologies As businesses increasingly rely on data driven decision making the demand for professionals proficient in Oracle GoldenGate is growing Achieving this certification not only demonstrates your capabilities in managing one of the most robust data replication solutions but also positions you as a valuable asset in today s competitive job market This comprehensive guide of 350 practice questions is meticulously crafted to mirror the structure and substance of the actual certification exam Each question is accompanied by detailed explanations to ensure a deep understanding of the subject matter The questions are systematically organized to cover all exam domains providing a balanced mix of theory and practical scenarios You ll find exercises that challenge your problem solving abilities and simulate real world situations enabling you to apply your knowledge effectively This approach builds genuine confidence and ensures you re not just memorizing facts but truly comprehending the intricacies of Oracle GoldenGate 12c Pursuing the Oracle GoldenGate 12c Implementation Essentials certification can significantly enhance your career trajectory It opens doors to advanced roles within IT departments boosts your professional credibility and increases your earning potential This resource offers not just a pathway to passing the exam but also a solid foundation in Oracle GoldenGate technology equipping you with skills that are immediately applicable in the workplace Whether you re looking to advance your current career or pivot to new opportunities this certification and its accompanying study guide provide the knowledge and

recognition you need to succeed 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 11g Streams Implementer's Guide* Ann L. R. McKinnell,Eric Yen,2010-01-19 Annotation From smaller businesses through to huge enterprises _ users all over the world often require access to data 24 hours a day Distributed database systems proliferate the world of data sharing providing an ability to access real time data anywhere anytime Oracle Streams a built in feature of the Oracle database is a data replication and integration feature critical to the success and wellbeing of enterprises in today s fast moving economy This book provides the reader with solid techniques to master Oracle Streams technology and successfully deploy distributed database systems This book quickly goes over the basics and gets you up and running with a simple Oracle 11g Streams environment It will serve as an excellent companion to the Oracle Streams Administration Guide It is intended for Oracle database architects and administrators and provides in depth discussion on must know information for the design implementation and maintenance of an Oracle Streams environment The book does not attempt to regurgitate all the information in the Oracle Streams Administration Guides but rather provides additional clarification and explanation of design implementation and troubleshooting concepts that are often elusive in Streams documentation It also identifies helpful tools and Oracle resources to add to your knowledge base as well as tried and tested tricks and tips to help you tame Oracle Streams The book starts by introducing and explaining the components of Oracle Streams and how they work together It then moves on logically helping you to determine your distributed environment requirements and design your Streams implementation to meet those requirements Once these concepts are discussed the book moves to configuration and basic implementation examples to help solidify those concepts It then addresses advanced features such as tags down stream capture and conflict resolution You then move on to maintenance techniques such as documenting the environment effectively planning and implementing changes to the environment and monitoring and troubleshooting the environment When you have studied the techniques and completed the hands on examples you will have an understanding of Oracle Streams core concepts and functionally that will allow you to successfully design implement and maintain an Oracle Streamed environment 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

High Availability IT Services Terry Critchley,2014-12-17 This book starts with the basic premise that a service is comprised of the 3Ps products processes and people Moreover these entities and their sub entities interlink to support the services that end users require to run and support a business This widens the scope of any availability design far beyond hardware and software It also increases t

Pro Oracle Database 12c Administration Darl Kuhn,2013-08-23 *Pro Oracle Database 12c Administration* is a book focused on results Author Darl Kuhn draws from a well of experience over a

decade deep to lay out real world techniques that lead to success as an Oracle Database administrator He gives clear explanations on how to perform critical tasks He weaves in theory where necessary without bogging you down in unneeded detail He is not afraid to take a stand on how things should be done He won't leave you adrift in a sea of choices showing you three ways to do something and then walking away Database administration isn't about passing a certified exam or about pointing and clicking your way through a crisis Database administration is about applying the right solution at the right time about avoiding risk about making robust choices that get you home each night in time for dinner with your family If you have buck stops here responsibility for an Oracle database then Pro Oracle Database 12c Administration is the book you need to help elevate yourself to the level of Professional Oracle Database Administrator Covers multi tenant container and pluggable database implementation and management Condenses and organizes the core job of a database administrator into one volume Takes a results oriented approach to getting things done Lays a foundation upon which to build a senior level of expertise

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

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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

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

Experiences with Oracle Database 12c Release 1 on Linux on System z Arrell Kathryn,Mike Ebbers,Sam Amsavelu,Gaylan Braselton,Terry Elliott,Leon Rich,Barton Robinson,David Simpson,IBM Redbooks,2014-05-13 Oracle Database 12c Release 1 is now supported on Linux on IBM System z This platform offers many advantages to customers who rely upon the IBM mainframe systems to run their businesses Linux on System z takes advantage of the qualities of service in the System z hardware and in IBM z VM making it a robust industrial strength version of Linux This provides an excellent platform for hosting Oracle solutions that run in an enterprise This IBM Redbooks publication shares experiences that are gained while installing and testing Oracle Database 12c Release 1 Recommendations about how to set up an infrastructure Installing an Oracle Grid Infrastructure Installing Oracle 12C R1 Real Application Clusters RAC and creating a RAC Database including a multitenant database Using the Cloud Control Agent to manage Oracle Database 12c Release 1 Installing Oracle WebLogic Server 12c Upgrading from an Oracle Database from 11gR2 to 12c Release 1 The audience for this publication includes database consultants installers administrators and system programmers This publication is not meant to replace Oracle documentation but to supplement it with our experiences while installing and using Oracle products

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 versed with automatic and manual backups available in ADB Implement best practices relating to network security and IAM policies Manage database performance and log management in ADB Understand how to perform data masking and manage encryption keys in OCI s Autonomous Databases Who this book is for This book is for decision makers enterprise cloud architects solution consultants cloud engineers implementation partners and technology students as well as anyone who wants to learn about Oracle s Autonomous Databases delivered on Oracle Cloud Infrastructure OCI Beginner level knowledge of Linux and OCI and networking concepts and databases along with hands on experience in OCI environments is required before getting started with this book *Designing Data-Intensive Applications* Martin Kleppmann, 2017-03-16 Data is at the center of many challenges in system design today Difficult issues need to be figured out such as scalability consistency reliability efficiency and maintainability In addition we have an overwhelming variety of tools including relational databases NoSQL datastores stream or batch processors and message brokers What are the right choices for your application How do you make sense of all these buzzwords In this practical and comprehensive guide author Martin Kleppmann helps you navigate this diverse landscape by examining the pros and cons of various technologies for processing and storing data Software keeps changing but the fundamental principles remain the same With this book software engineers and architects will learn how to apply those ideas in practice and how to make full use of data in modern applications Peer under the hood of the systems you already use and learn how to use and operate them more effectively Make informed decisions by identifying the strengths and weaknesses of different tools Navigate the

trade offs around consistency scalability fault tolerance and complexity Understand the distributed systems research upon which modern databases are built Peek behind the scenes of major online services and learn from their architectures

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