

Datasource for initial load:
source tables

Network

INITIAL LOAD

TARGET DB

Extract

Replicat

Manager

Manager

Extract

Collector

Replicat

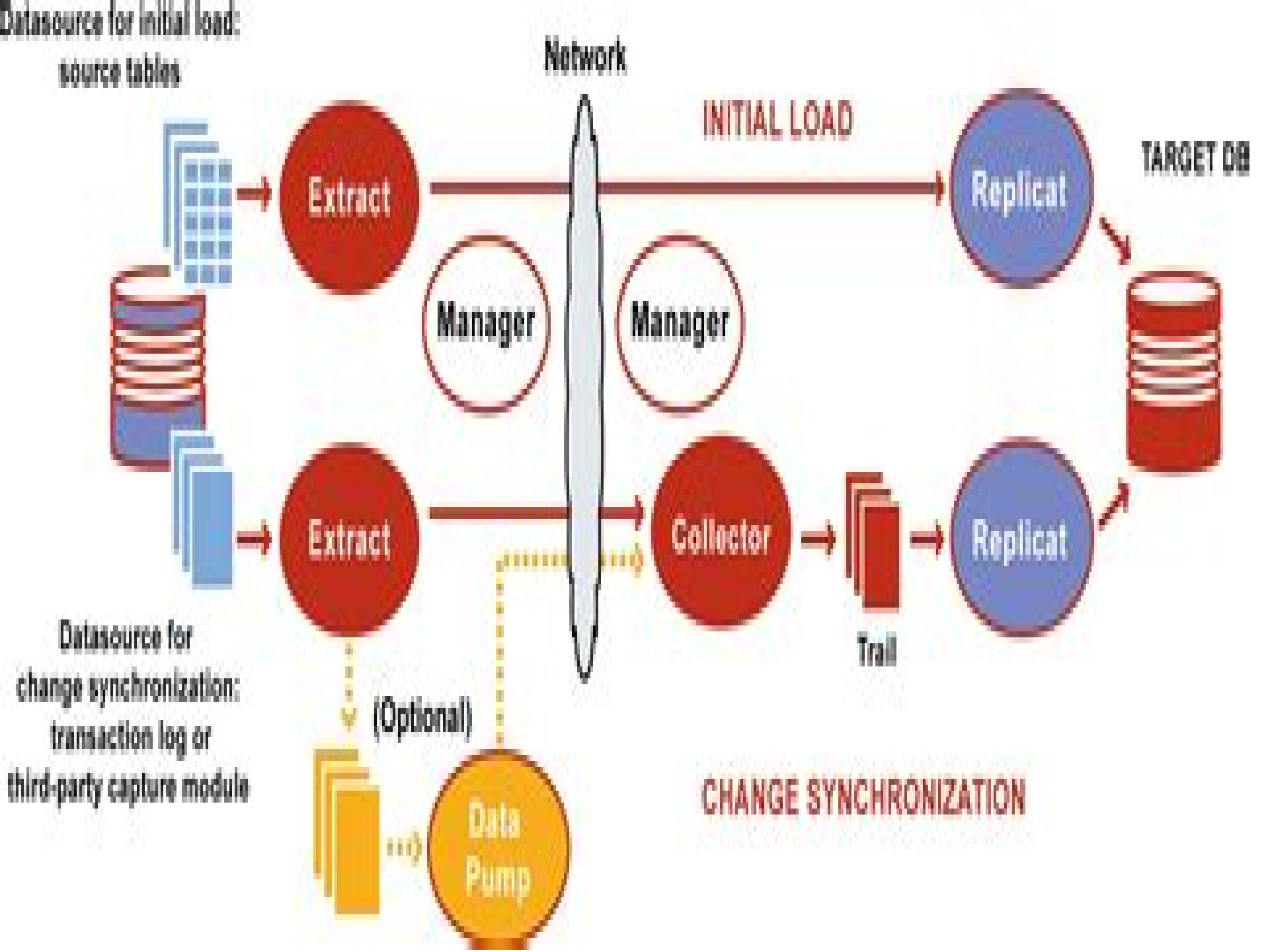
Trail

Datasource for
change synchronization:
transaction log or
third-party capture module

(Optional)

Data
Pump

CHANGE SYNCHRONIZATION



Oracle Golden Gate Implementation Guide

K Gopalakrishnan



Oracle Golden Gate Implementation Guide:

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 **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 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

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 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 aGoldenGate 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

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 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

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 11g Implementer's Guide John P. Jeffries, 2011 **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

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[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

Banking on Cloud Data Platforms: A Guide Dillip Kumar, Sarah Mohapatra, 2023-10-12 This book explores the evolution of data platforms over the last five decades spanning from data warehousing to big data and cloud technologies It discusses architecture guiding principles technology and various use cases in the banking industry The role of fintech and meeting digital payment demands with modern platforms is addressed Techniques for handling PII SPDI data in the cloud ingestion frameworks real time and streaming data and data availability are discussed practically Additionally it covers the increasing roles of CDOs governance data security and DPDP These chapters serve as valuable references for banks and financial institutions drawing from real world data sources and global events

Experiences with Oracle Database 12c Release 1 on Linux on System z Arrell Kathryn, Mike Ebberts, 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

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 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 **Oracle Business Intelligence and Essbase Solutions Guide** Rosendo Abellera,Lakshman Bulusu,2016-11-30 This book highlights the practical aspects of using Oracle Essbase and Oracle Business Intelligence Enterprise Edition OBIEE as a comprehensive BI solution It explains the key steps involved in Oracle Essbase and OBIEE implementations Using case studies the book covers Oracle Essbase for analytical BI and data integration using OBIEE for operational BI including presentation services and BI Publisher for real time reporting services Self service BI in terms of VLDB scalability high performance stability long lasting and ease of use that saves time effort and costs while maximizing ROI *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 **OCA: Oracle Database 12c Administrator Certified Associate Study Guide** Biju Thomas,2014-05-02 An all in one study guide prepares you for the updated Oracle Certified Associate certification It s been nearly six years since Oracle updated its cornerstone database software making the demand for a comprehensive study guide for the OCA 12c certification a top priority This resource answers that demand Packed with invaluable insight chapter review questions bonus practice exams hundreds of electronic

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Experiences with Oracle 11gR2 on Linux on System z Ivan Dobos, Sam Amsavelu, Kathryn Arrell, Gaylan Braselton, Armelle Cheve, Damian Gallagher, Hel ne Grosch, Michael MacIsaac, Romain Pochard, Barton Robinson, David Simpson, Richard Smrcina, IBM Redbooks, 2013-11-22 Linux on System z offers many advantages to customers who rely on the IBM mainframe systems to run their businesses Linux on System z makes use of the qualities of service in the System z hardware and in z VM making it a robust industrial strength Linux This provides an excellent platform for hosting Oracle solutions that run in your enterprise This IBM Redbooks publication is divided into several sections to share the following experiences that are gained while Oracle Database 11gR2 is installed and tested Setting up Red Hat Enterprise Linux 6 for Oracle Managing an Oracle on Linux on System z environment Provisioning Linux guests using several tools It also includes many general hints and tips for running Oracle products on IBM System z with Linux and z VM Interested readers include database consultants installers administrators and system programmers This book is not meant to replace Oracle documentation but to supplement it with our experiences while Oracle products are installed and used **Federal Register**, 1995-07-14

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