

The Ultimate Oracle Goldengate 12c Implementer Guide: Everything You Need to Know



Oracle GoldenGate 12c Implementer's Guide

Leverage the power of real-time data access for designing, building, and tuning your GoldenGate Enterprise

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Are you ready to unlock the full potential of Oracle Goldengate 12c? In this comprehensive guide, we will delve into the ins and outs of this powerful

replication software and show you how to effectively implement it within your organization. Whether you're a seasoned Oracle DBA or just starting your journey with Oracle technologies, this guide is packed with valuable information that will help you master Goldengate 12c.

What is Oracle Goldengate 12c?

Oracle Goldengate 12c is a real-time data integration and replication software that enables high availability, real-time data integration, data migration, and data warehousing solutions for Oracle databases. With its intuitive and robust features, Goldengate 12c allows businesses to accurately capture and deliver transactional data across a wide range of platforms, including Oracle, non-Oracle databases, and heterogeneous systems.



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by John P Jeffries (Kindle Edition)

★★★★☆ 4.5 out of 5

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Screen Reader : Supported

Enhanced typesetting : Enabled

Print length : 424 pages



The software provides a powerful set of data replication capabilities, including real-time change data capture (CDC), data transformation, data filtering, and data routing. These features make Goldengate 12c an ideal choice for scenarios that require high availability, data integration between different database platforms, and real-time reporting and analytics.

Why Should You Implement Oracle Goldengate 12c?

Implementing Oracle Goldengate 12c offers numerous benefits for your organization. Let's explore some of the key reasons why you should consider incorporating this powerful replication software into your workflow:

- 1. Real-Time Data Integration:** Goldengate 12c enables real-time data replication and integration, allowing you to have up-to-date and synchronized data across multiple systems. This ensures that critical business processes are based on the most recent and accurate information.
- 2. High Availability and Disaster Recovery:** By implementing Goldengate 12c, you can achieve zero downtime for your Oracle databases and ensure business continuity in the event of hardware failures or disasters. The software provides real-time replication and failover capabilities, allowing you to switch seamlessly to a standby system without any disruption.
- 3. Heterogeneous Database Replication:** Goldengate 12c supports replication between different database platforms, such as Oracle, Microsoft SQL Server, DB2, MySQL, and more. This enables you to integrate data from diverse sources into a unified system, streamlining data consolidation and analytics.
- 4. Flexible Data Transformation and Routing:** With Goldengate 12c, you have full control over data transformation and routing. You can apply custom rules to manipulate data during replication, ensuring the data is delivered in the required format and structure to meet specific business needs.
- 5. Advanced Monitoring and Troubleshooting:** The software provides comprehensive monitoring and troubleshooting capabilities, allowing you to proactively identify and resolve any issues that may impact data replication. This ensures smooth operation and reduces the risk of data inconsistencies or delays.

Implementing Oracle Goldengate 12c - A Step-by-Step Guide

Now that we've covered the benefits, let's dive into the step-by-step process of implementing Oracle Goldengate 12c within your organization:

Step 1: Planning and Design

Before starting the implementation, it's crucial to plan and design the architecture based on your specific requirements. This includes determining the replication topology, selecting the appropriate database platforms, defining data transformation rules, and identifying the necessary hardware and network infrastructure.

Step 2: Installation and Configuration

Once the planning is complete, the next step is to install and configure Goldengate 12c on the source and target systems. This involves setting up the required database objects, establishing network connectivity, creating and configuring the necessary replication processes, and securing the communication channels to ensure data integrity and confidentiality.

Step 3: Initial Data Load

If you're performing a full data migration or refreshing a target database, you'll need to perform an initial data load. This step involves extracting the source data, transforming it as per the defined rules, and loading it into the target database. Goldengate 12c provides various utilities and methods to streamline this process and minimize downtime.

Step 4: Real-Time Replication

With the initial data load complete, you can now enable real-time replication using Goldengate 12c. This includes configuring the data extraction and change data

capture processes on the source system, defining the target tables and schemas, implementing data transformation and filtering rules, and monitoring the replication status and performance.

Step 5: Maintenance and Monitoring

Once the replication is operational, it's essential to perform routine maintenance tasks and monitor the system for any issues. This includes monitoring the replication lag, verifying data consistency, applying patches and updates, optimizing the replication performance, and ensuring adequate resources are allocated to support the replication workload.

Step 6: Backup and Recovery

To ensure the integrity and availability of your replicated data, it's crucial to implement a robust backup and recovery strategy. This involves taking regular backups of the source and target databases, testing the recovery procedures, and implementing mechanisms to recover from any data corruption or loss.

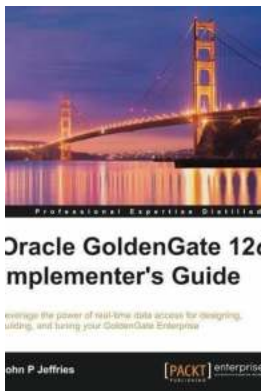
The Future of Oracle Goldengate 12c

As the technology landscape evolves, Oracle continues to enhance and innovate Goldengate 12c to meet the ever-growing demands of data replication and integration. With ongoing advancements in cloud computing, big data analytics, and IoT, Goldengate 12c is well-positioned to support the integration and synchronization of diverse data sources across on-premises and cloud-based platforms.

Furthermore, Oracle's commitment to security and data privacy ensures that Goldengate 12c remains a trusted solution for businesses operating in regulated industries or handling sensitive data.

In , Oracle GoldenGate 12c is a powerful data replication and integration software that empowers businesses to achieve high availability, real-time data integration, and seamless data migration. By implementing GoldenGate 12c, organizations can unlock the full potential of their Oracle databases and harness the power of real-time analytics, while ensuring business continuity and data consistency.

So, are you ready to embark on the journey of becoming a GoldenGate 12c implementer? With this comprehensive guide, you have all the information you need to kickstart your Oracle GoldenGate 12c implementation and take your data replication capabilities to new heights!



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About This Book

- Orchestrate the rich features of GoldenGate 12c and exploit the performance-enhancing features and manageability in your Enterprise environment

- Master data integration techniques to empower your organisation's readiness to migrate to cloud technologies quickly and easily
- An easy-to-follow step-by-step guide full of hands-on examples that offer a solid foundation of real-time data integration and replication in heterogeneous IT environments

Who This Book Is For

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.

What You Will Learn

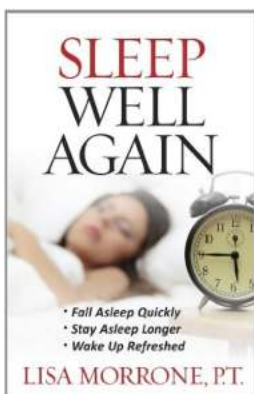
- Extend GoldenGate's out-of-the-box functionality to employ its rich features and meet your business objectives
- Deliver best-in-class data integration solutions by integrating GoldenGate with other Oracle products
- Deploy data integration solutions effectively to lower your total cost of ownership and increase your ROI
- Extend GoldenGate functionality through APIs and reduce your IT operational expenditure
- Leverage the designs to build efficient, cost effective data integration solutions
- Enhance system management and monitoring in your GoldenGate environment
- Generate real-time statistics to gauge data throughput and performance

- Evaluate data integration concepts through Oracle's new Integration Cloud Service offering

In Detail

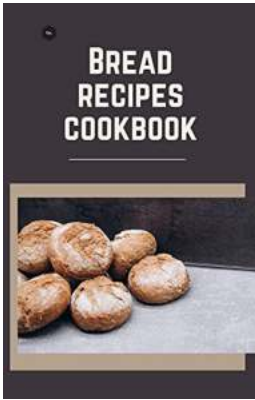
GoldenGate exchanges data among systems in a timely manner and meets the demand for real-time access to information regardless of volume. The new release, 12c, includes an optimized database, intelligent and integrated delivery capabilities, expanded heterogeneity, and tighter security. Perform zero 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.



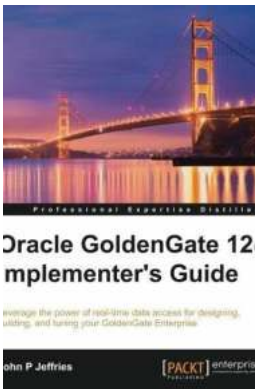
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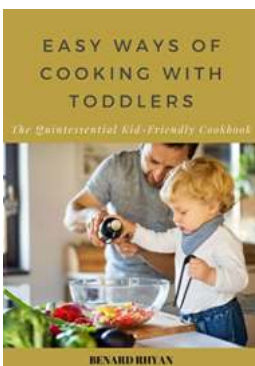
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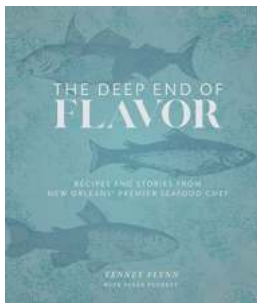
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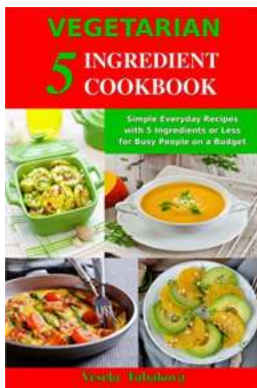
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