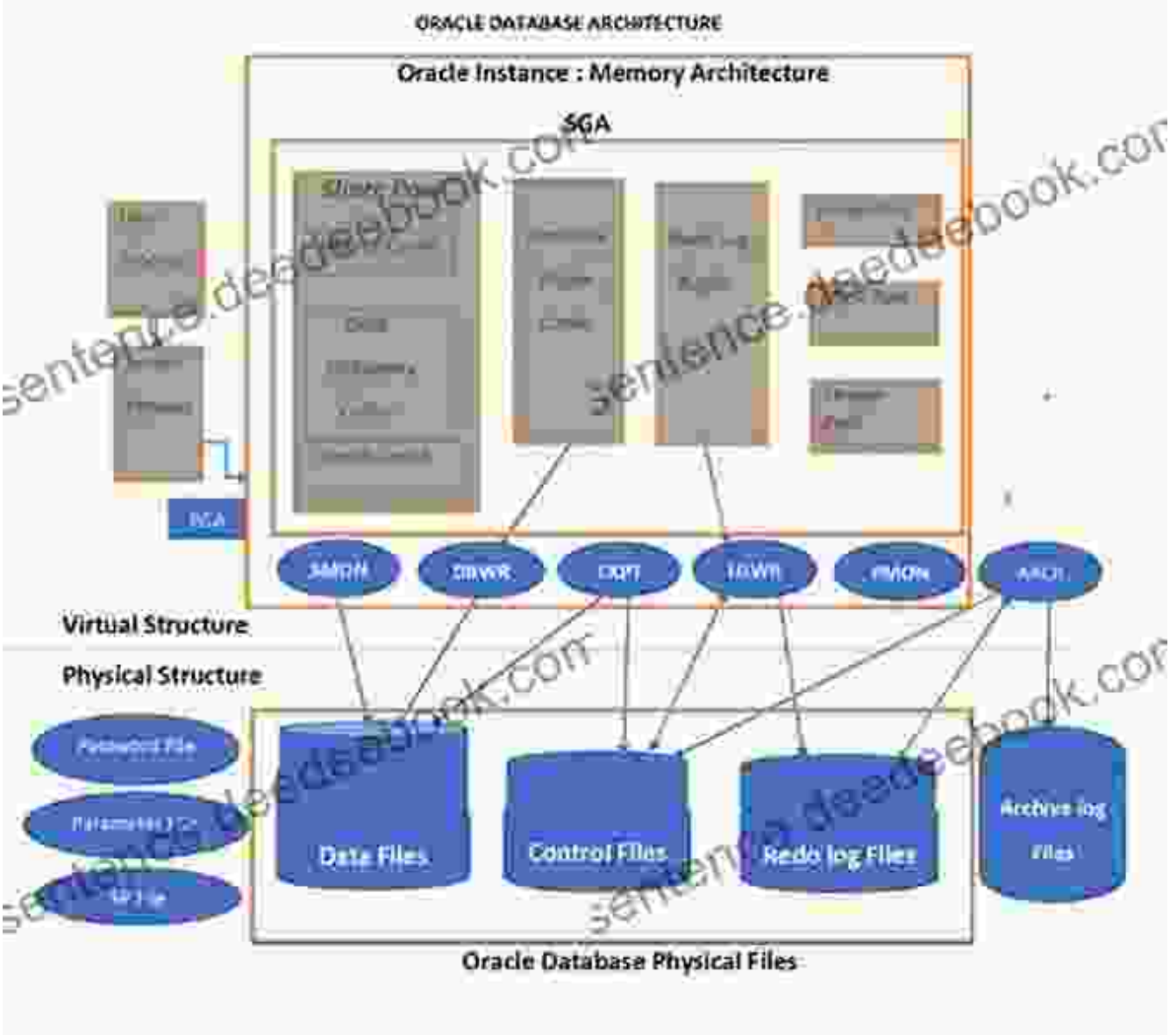
How Oracle's New Architecture Simplifies Database Consolidation



Database consolidation has long been a strategic imperative for businesses looking to streamline their IT infrastructure, reduce costs, and improve performance. However, traditional approaches to database consolidation have often been complex and time-consuming, requiring significant investments in hardware, software, and expertise.

Oracle's new architecture, introduced with Oracle Database 19c, revolutionizes database consolidation by providing a simplified and cost-effective solution. This new architecture is built on a modern, cloud-native foundation and incorporates innovative technologies such as multi-tenancy, containerization, and automation.

Oracle 12c Multi-Tenant Architecture: How Oracle's new architecture simplifies database consolidation!

by John Brook

4.5 out of 5

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In this article, we will explore how Oracle's new architecture simplifies database consolidation, enabling businesses to streamline their IT infrastructure and reduce costs. We will also provide step-by-step guidelines for implementing database consolidation using Oracle's new architecture.

Benefits of Database Consolidation with Oracle's New Architecture

- **Simplified Management:** Oracle's new architecture provides a single point of control and management for all consolidated databases, eliminating the complexity and overhead associated with managing multiple standalone databases.

- **Reduced Costs:** By consolidating databases onto a single platform, businesses can reduce hardware, software, and maintenance costs. Additionally, Oracle's new architecture supports multi-tenancy, allowing multiple databases to share the same hardware and software resources, further reducing costs.
- **Improved Performance:** Oracle's new architecture is built on a modern, cloud-native foundation that provides high performance and scalability. By consolidating databases onto this new architecture, businesses can experience significant performance improvements.
- **Increased Security:** Oracle's new architecture incorporates advanced security features, such as multi-tenancy isolation and encryption, to ensure the confidentiality, integrity, and availability of consolidated databases.
- **Reduced Application Downtime:** Oracle's new architecture supports rolling upgrades, allowing businesses to upgrade their databases without incurring any downtime. This helps ensure business continuity and minimizes the impact of database consolidation on critical applications.

Step-by-Step Guidelines for Implementing Database Consolidation with Oracle's New Architecture

1. **Assess your existing database landscape:** Identify the databases that are candidates for consolidation, consider their size, usage patterns, and interdependencies.
2. **Choose the right consolidation strategy:** Determine the optimal consolidation approach based on your business requirements and

technical constraints. Consider shared-storage or single-instance consolidation strategies.

3. **Design your consolidated database environment:** Create a logical and physical design for your consolidated database environment, including the database schema, table partitioning, and indexing strategies.
4. **Migrate data to the consolidated database:** Use Oracle's Data Pump or other migration tools to move data from the existing databases to the consolidated database.
5. **Test and validate the consolidated database:** Perform comprehensive testing to ensure the accuracy and performance of the consolidated database. Validate data integrity, query performance, and application compatibility.
6. **Monitor and manage the consolidated database:** Establish monitoring and management mechanisms to ensure the ongoing health and performance of the consolidated database. Utilize Oracle's Enterprise Manager or other tools for automated monitoring and proactive issue resolution.

Oracle's new architecture provides a powerful solution for simplifying database consolidation. By leveraging this new architecture, businesses can streamline their IT infrastructure, reduce costs, and improve performance while ensuring security and minimizing application downtime. Following the step-by-step guidelines outlined in this article will help ensure a successful database consolidation implementation using Oracle's new architecture.

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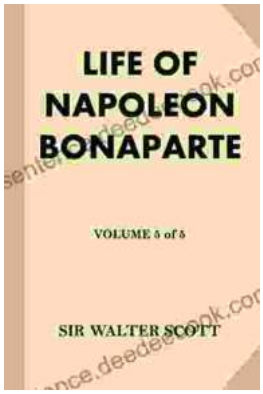

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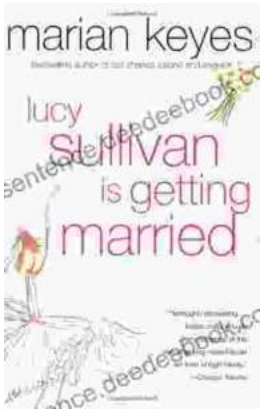

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