

Oracle GoldenGate 12c: Advanced Configuration for Oracle

Oracle GoldenGate Integrated Capture/integrated Delivery

- What is Oracle GoldenGate Integrated Capture?
- Why it is Needed and What Additional Replication Features it Makes Possible
- How to Prepare a Database for Integrated Capture – Creation of Users, Assignments of Roles and Privileges, etc
- Oracle GoldenGate Integrated Capture Deployment Modes
- Integrated Replicat/Apply Architecture
- Integrated Replicat: How it works
- Integrated Delivery in Detail

Oracle Goldengate With Oracle Real Application Clusters Configuration

- Oracle RAC, Oracle GoldenGate and Business Continuity
- Oracle GoldenGate Used in Combination with Oracle RAC
- Oracle GoldenGate and the Oracle Database File System (DBFS)
- Oracle DBFS and Oracle Clusterware
- Configuring Oracle GoldenGate using the DBFS file systems

Oracle GoldenGate Event Marker System

- Starting, Suspending, Stopping Processes, Performing a Transformation, Reporting Statistics, and Capturing Lag History Using the Event Marker System
- Invoking Stored Procedures When Specific Events Occur Using SQLEXEC
- Activating Tracing Following the Exceeding of a Data Threshold
- Running OS Shell Commands at the Occurrence of Specific Data-Driven Events
- Extracting Details Analysis of the TABLE, MAP, FILTER, WHERE and SQLEXEC Statements
- Implementing Event Marker Actions on the Extraction Side and on the Delivery Side of Replication

Data Mapping, Data Selection/Filtering and Data Transformation

- TABLE (for Extract) and MAP (for Replicat) Options Which Allow for Data Selection
- COLMAP and COLMATCH Options
- Exploring Simple Filtering (Achieved Through the WHERE Clause) and Complex Filtering (Using the FILTER Clause)
- Data Transformation Functions: Enabling Concatenation, Substitution, Case Changing, Numeric Conversion and Date Conversion
- SQLEXEC Parameter to Invoke Stored Procedures or to Perform Native SQL Queries

Custom Behavior Through User Exits

- The CUSEREXIT Parameter and its Options
- User Exit Mandatory Parameters: EXIT_CALL_TYPE, EXIT_CALL_RESULT and EXIT_PARAMS
- The EXIT_CALL_PROCESS_RECORD Function
- Oracle GoldenGate Callback Routines Invoked Through ERCALLBACK
- The usrdecs.h "C" Include File
- JMS and Flat File Using Oracle GoldenGate Application Adapters
- Connecting to the Java Subsystem Through the Java Native Interface (JNI)

Configuring Zero-Downtime Migration Replication

- Zero-Downtime Migration Prerequisites
- Zero-Downtime Migration Topology
- Configuring Initial Setup and Required Steps
- Configuring Primary Extract, Data pump and Replicat for Fallback
- Simulating fallback

Bidirectional Replication: Two-Node Configuration

- Bi-Directional Replication
- Data Conflict Types
- Getting Before Image Information from Source Database
- Using RESOLVECONFLICT
- Handling UPDATEROWEXISTS in Conjunction with USEDELTA, USEMAX, and IGNORE
- Exceptions MAP Statement
- Creating and Populating Exception and Discard Tables