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GOLDEN GATE

Introduction

- Discussing Required versus Suggested Knowledge
- Listing Course Objectives
- Discussing Course Non-Objectives (available as other follow-on courses)

Technology Overview

- Creating Oracle GoldenGate Topologies
- Reviewing Oracle GoldenGate Use Cases
- Assembling Building Blocks
- Listing Supported OS
- Listing Supported Databases
- Listing the Oracle Goldengate Product Line
- Describing GUI Management Options
- Listing Non-Database Sources and Targets

Oracle GoldenGate Architecture

- Describing Oracle GoldenGate Process Groups
- Explaining change Capture and Delivery (with and without a data pump)
- Explaining Initial Data Load
- Contrasting Batch and Online Operation
- Explaining Oracle GoldenGate Checkpointing
- Describing Commit Sequence Numbers (CSN)
- Describing Oracle GoldenGate Files and Directories

Installing Oracle GoldenGate

- Listing System Requirements
- Performing Installation
- Configuring Environment Variables

- Using GGSCI
- Running Oracle GoldenGate from the OS shell.

Configuration Overview and Preparing the Environment

- Reviewing Configuration Overview
- Configuring Manager Process
- Creating Source Definitions
- Preparing the Source Database
- Assigning Oracle Database Roles/Privileges Required

Configuring Change Capture (Extract)

- Reviewing Extract Overview
- Accessing Logs on Oracle ASM
- Accessing Logs Remotely
- Configuring Extract Tasks
- Adding Extract Group
- Editing Extract Parameters
- Extracting Use of Archived Transaction Logs
- Adding Trails

Configuring Change Delivery (Replicat)

- Reviewing Replicat Overview
- Configuring Replicat Tasks
- Configuring a Sample Environment

Configuring Extract Trails and Files (Data Pump)

- Reviewing Extract Trails and Files Overview
- Describing Trail Formats
- Using Logdump for Viewing Trails
- Reversing the Trail Sequence
- Configuring and Using Data Pumps

Performing Initial Load

- Oracle GoldenGate Methods
- Listing Database-specific Methods
- Describing Resource Limitations
- Listing Advantages of Oracle GoldenGate Methods

- Configuring File Load Methods
- Configuring Direct Load Methods
- Handling Collisions with Initial Load

Editing Configuration Parameters

- Editing Parameter Files
- Contrasting GLOBALS versus Process Parameters
- Configuring GLOBALS Parameters
- Configuring Manager Parameters
- Configuring Extract Parameters
- Configuring Replicat Parameters

Filtering and Data Selection

- Filtering and Data Selection
- Mapping Columns Between Different Schemas

Additional Transformation Concepts

- Configuring and Using Macros
- Configuring and Using User Tokens
- Configuring and Using User Exits
- Configuring and Using Oracle Sequences

Configuration Options

- Configuring and Using BATCHSQL
- Configuring and Using Compression
- Configuring and Using Encryption
- Configuring and Using Event Actions

Bidirectional Replication

- Reviewing Bidirectional Considerations
- Detecting Loops
- Avoiding Conflicts
- Configuring and Using Conflict Detection and Resolution
- Describing Identity Types Issues

DDL Replication

- Reviewing Data Description Language Replication Overview
- Configuring and Using Options for DDL Replication
- Configuring and Using String Substitution in DDL