



Oracle GoldenGate

Course Description:

This training program is designed to prepare the students for Oracle GoldenGate 11g Developer track. The Oracle GoldenGate 11g: Fundamentals for Oracle course focuses on Oracle-to-Oracle data replication. This course introduces the Oracle GoldenGate architecture as well as various product features. Participants learn to install Oracle GoldenGate and prepare the source and target environment. The course teaches how to use the Oracle GoldenGate command line interface efficiently. Participants configure Change Capture, Initial Load, and Change Delivery. They learn to extract trails and files, create parameter files, and to manage Oracle GoldenGate instances

Oracle GoldenGate online training curriculum

Module 1–GoldenGate Overview

- 1 : Why GoldenGate
- 2 : Listing Supported OS and DB's
- 3: GoldenGate Topologies

Module 2–Oracle GoldenGate Architecture

- 1 : Oracle GoldenGate Architecture
- 2 : Overview: Extract , Replicat and Pump
- 3 : Oracle GoldenGate Checkpoints
- 4: Trail files, Parameter file
- 5 : Commit Sequence Numbers (CSN)
- 6 : Initial Load vs Change Synchronization

Module 3– Installing Oracle GoldenGate

- 1 : Listing System Requirements
- 2 : Performing Installation
- 3 : Configuring Environment Variables
- 4: Understanding Directories
- 5: Using GGSCI

Module 4– Configuring Database and Manager

- 1: Create and Configure Goldengate user
- 2: Execute Scripts
- 3: Supplemental Logging and trandata
- 4: Manager and Global Parameter file
- 5: Understaing DEFGEN utility

Module 5– Configuring Extract, Pump and Trail files

- 1 : Extract Overview and Parameter File
- 2 : Accessing Logs on Oracle ASM
- 3 : Adding Extract Group
- 4 : Adding Trails
- 5 : Extract Trails and Files Overview
- 6 : Configuring and Using Data Pumps

Module 6– Configuring Replicat and Unidirectional Replication

- 1 : Add Replicat
- 2: Configure Replicat
- 3: Replication using data dump
- 4 : Replication without using Data Pump
- 5: Using DEFGEN utility for 12.1 below

Module 7– Performing Initial Load

- 1: Oracle GoldenGate Initial Load
- 2: Advantages and Restrictions
- 2 : Configuring File Load Methods & Direct Load Methods
- 3: Handling Collisions with Initial Load

Module 8 – Integrated Capture and Integrated Delivery

- 1: Using Integrated Capture and benefits
- 2: Steps to Upgrade to Integrated Capture
- 3: Integrated Delivery and its benefits
- 4: Upgrade to Integrated Delivery
- 5: Dictionary View for Integrated Capture and Delivery

Module 9– Filtering and Data Selection

- 1: COLUMN MAPPING
- 2: Data Selection
- 3: Filter Functions
- 4: Using Built-in “@” (at) Functions
- 5: Date and Range Functions
- 6: SQLEXEC

Module 10–DDL Replication

- 1 : Requirement and Restrictions
- 2: DDL Replication : Scope
- 3 : Configuring and Using String Substitution in DDL

Module 11– Troubleshooting and Monitoring

- 1: Process Information, Reporting and Statistics
- 2: Overview of Trail File, Logdump and Trail File Recovery
- 3: Using BATCHSQL

Module 12 - Compression and Encryption

- 1: Compression
- 2: Trail file, Message and Password Encryption
- 3: CMDSEC
- 4: USERIDALIAS

Module 13: Event Marker System

Module 14– Bidirectional Replication

- 1: Reviewing Bidirectional Considerations
- 2: Detecting and Preventing Loops
- 3: Avoiding and Resolving Conflicts
- 4: Insert, Delete and Update Conflicts
- 5: Using CompareCols
- 6: Trusted Source

Module 15: Installing Oracle GoldenGate Microservices Architecture (12.3)

1. Various Components of the Oracle GoldenGate Microservices Architecture
2. List the Operating System Pre-Requisites Needed for a Microservices Architecture installation
3. Perform an Oracle GoldenGate Microservice Architecture Installation and Verify its Successful Completion

Module 16: Overview of other Advance Topics

- 1: GoldenGate Cloud Service
- 2: Configuring GoldenGate for Container Database , RAC and DataGuard
- 3: Reverse utility

BISP