Oracle GoldenGate 19c: Fundamentals for Oracle

Duration: 4 Days

Course Description:

This Oracle GoldenGate 19c: Fundamentals for Oracle training focuses on Oracle-to-Oracle database replication. Expert Oracle University instructors will deep dive into the Oracle GoldenGate product suite, walking you through various product features.

Course Objectives:

- Design replication solutions using Oracle GoldenGate products and environments
- Install Oracle GoldenGate and prepare the source and target database (assumes Oracle-to-Oracle replication)
- Issue GGSCI commands (batch Obey scripts and command-line interactive)
- Configure, start, stop, and monitor Change Capture (Extract), Change Delivery (Replicat), and Initial Load
- Manage Extract trails and files using Data Pump and utilities such as logdump
- Control network transmission using compression and encryption
- Transform data
- Manage multiple Oracle GoldenGate instances

Course Outlines:

Introduction
- ➢ Introduction
- ➢ Use Case Example
- ➢ Oracle GoldenGate for Oracle Database Offload Redo Logs
- ➢ Supported Operating Systems
- ➢ Verifying the Lab Environment

Oracle GoldenGate Architecture
- ➢ Oracle GoldenGate Architecture
- ➢ Oracle GoldenGate Classic Architecture
- ➢ Microservices Architecture
- ➢ Microservices Architecture: Secure and Nonsecure Deployments
- ➢ Extract Types
- ➢ Checkpoints: Capture

Installing Oracle GoldenGate Microservices Architecture
- ➢ Installing Oracle GoldenGate Microservices Architecture
- ➢ Phase 2: Creating Certificates
- ➢ Phase 3, oggca.sh Step 10: Replication Options
- ➢ Installing the Oracle GoldenGate Microservices Architecture Software
- ➢ Configuring Oracle Wallet and Client and Server Certificates
- ➢ Using oggca.sh to Configure the Service Manager and Source and Target Deployments (Part 01)
- ➢ Using oggca.sh to Configure the Service Manager and Source and Target Deployments (Part 02)
- ➢ Verifying the Successful Installation and Configuration of the MA Implementation

Installing Oracle GoldenGate Classic Architecture
- ➢ Installing Oracle GoldenGate Classic Architecture
- ➢ Installation on Linux Using a tar Command
- ➢ Running Oracle GoldenGate from the OS Shell
- ➢ Installing Oracle GoldenGate Classic Architecture
- ➢ Setting the Stage
- ➢ Using the GGSCI

Preparing the Environment
- ➢ Preparing the Environment
- ➢ Preparing the Environment: Supplemental Logging
- ➢ Handling TCP/IP Errors
- ➢ Preparing the Environment (Part01)
- ➢ Preparing the Environment (Part02)

Configuring the Extracts
- ➢ Configuring the Extracts
- ➢ MA Administration Server: Webpage Overview
- ➢ CA Editing Extract Parameters: ggsci Example
- ➢ Data Definition Language Replication
- ➢ Configuring Integrated Extract
- ➢ Configuring Classic and Pump Extracts

Oracle GoldenGate Microservices Architecture: Distribution Server
- ➢ Oracle GoldenGate Microservices Architecture: Distribution Server
- ➢ Web Page Overview
- ➢ Configuring a Path Using the adminclient

Oracle GoldenGate Microservices Architecture: Receiver Server
- Oracle GoldenGate Microservices Architecture: Receiver Server
- Secure GoldenGate Host Machine with Reverse Proxy
- Accessing the Receiver Server to Display Path Statistics
- Configuring Reverse Proxy (Part01)
- Configuring Reverse Proxy (Part02)

Configuring Initial Load
- Configuring Initial Load
- Prerequisites for Initial Load
- MA Initial Load: Oracle GoldenGate Methods
- Configuring Initial Load by Using File to Replicat Method (Part 01)
- Configuring Initial Load by Using File to Replicat Method (Part 02)
- Configuring Initial Load by Using Oracle Data Pump
- Configuring Initial Load by Using Bulk Load

Configuring Replicat
- Configuring Replicat
- Comparison of Replicats
- Parallel Replicat
- MA: Change Delivery Tasks
- Obtaining Process Information: adminclient or GGSCI
- Configuring Parallel Replicat Nonintegrated Mode Using adminclient
- Generating Activity and Testing Replication
- Configuring Parallel Replicat Using GGSCI

Managing Extract Trails and Files
- Managing Extract Trails and Files
- Alternative Trail Formats
- Counting Records in the Trail
- Using the logdump Utility

Oracle GoldenGate Parameters
- Oracle GoldenGate Parameters
- MA Managed Process Settings Profile
- Extract Parameter Categories
- Replicat Parameter Categories
- Configuring an Administration Server Managed Process Settings Profile and Purge Trails Task for Extract
- Configuring an Administration Server Managed Process Settings Profile and Purge Trails Task for Replicat
- Modifying Extract Parameters
- Modifying Source Manager Parameters
- Modifying Target Manager Parameters

Data Selection and Filtering
- Data Selection and Filtering
- MA Distribution Server Path: Filter Clause
- @IF Function
- SQLEXEC: Usage with a LOOKUP Stored Procedure
- Practice 13-1: Configuring Filters in Extract and Replicat Groups (Part 01)
- Configuring Filters in Extract and Replicat Groups (Part 02)
- Creating a Path Filter
- Mapping Different Column and Table Names Between Source and Target (Part 01)
- Mapping Different Column and Table Names Between Source and Target (Part 02)
- Invoking Stored Procedures from Coordinated Replicat Processes

Data Transformation and Configuration Options
- Data Transformation and Configuration Options
- User Tokens: Overview
- Sample User Exits
- Encryption: Overview
- CA Password Encryption: Method 1
- Triggering and Executing End-of-Day Job (Database Backup) via EVENTACTIONS (Part 01)
- Triggering and Executing End-of-Day Job (Database Backup) via EVENTACTIONS (Part 02)
- Configuring CA Pump Extract to Send Changes to MA Receiver Server (Part 01)
- Configuring CA Pump Extract to Send Changes to MA Receiver Server (Part 02)

Oracle GoldenGate Microservices Architecture—Performance Metrics Server
- Oracle GoldenGate Microservices Architecture—Performance Metrics Server
- Replicat Group: Process Performance Analysis
- Causing Database Activity and Monitoring Through the Performance Metrics Server (Part 01)
- Causing Database Activity and Monitoring Through the Performance Metrics Server (Part 02)

Database Sharding Support, Replication Lag Management, Invisible Column Support
- Database Sharding Support, Replication Lag Management, Invisible Column Support
- Oracle GoldenGate MA Sharding Advantages
- Accessing Heartbeat Statistics
- Configuring Replication Lag and Checking Lag Statistics for MA
- Configuring Replication Lag and Checking Lag Statistics for CA and MA
- Replicating Invisible Columns

REGISTER NOW!

training@trends.com.ph
(+632) 8863-2123
www.trendsacademy.com.ph