

Oracle GoldenGate 19c: Troubleshooting and Tuning

Duration: 4 Days

Course Outlines:

1 Introduction

- Objectives
- Course Goals
- Agenda: Day 1
- Agenda: Day 2
- Agenda: Day 3
- Agenda: Day 4

2 Gathering Evidence

- Objectives
- GGSCI and adminclient Commands
- MA Administration Server: Status and Details
- Viewing Checkpoint Details
- CA Viewing Checkpoint Details: Integrated Extract
- MA Viewing Checkpoint Details: Integrated Extract
- MA Administration Server: Integrated Extract Checkpoints
- MA Viewing Checkpoint Details: Distribution Server Path
- Viewing Checkpoint Details
- CA Viewing Checkpoint Details: Integrated Replicat
- MA Viewing Checkpoint Details: Integrated Replicat
- MA Administration Server: Integrated Replicat Checkpoints
- Viewing Status and Events: Oracle Management Pack for Oracle GoldenGate
- Process Report
- CA Process Report: Initial Load Example
- MA Process Report: Initial Load Example
- Process Report Not Created
- Event (Error) Log
- Managing Event Log: ogg-ggserr.xml
- Event Log: Sample
- Discard File
- Discard File: Sample
- MA: Service Manager Log Information
- MA: Administration Server Log Information
- MA: Distribution Server Log Information
- MA: Receiver Server Log Information
- MA: extract.log
- MA: replicat.log
- MA: ER-events.log and restapi.log
- MA: health deployment command
- System Logs
- Linux System Logs
- Windows Event Viewer: Sample
- Practice Overview: Gathering Evidence

3 Tools

- Objectives
- Tools: Overview
- Knowledge Documents
- Oracle GoldenGate Documentation
- oggerr Utility
- chkprn Utility
- ShowSyntax Parameter: Overview
- ShowSyntax Parameter: Usage
- ShowSyntax Parameter: Classic Replicat Output for CDB Target Database
- ShowSyntax Parameter: Integrated Replicat Output for CDB Target Database
- ShowSyntax Parameter: Classic Replicat Output for Non-CDB Target Database
- logdump Utility: Overview
- Viewing Canonical Trail Records
- logdump Utility: Header Fields
- Using logdump: Open
- Using logdump
- Using logdump: ScanForHeader
- Using logdump: ScanForEndTrans
- Using logdump: Filter
- Using logdump: Hex
- Using logdump: Position
- Using logdump: Count
- Using logdump: Save
- Using logdump: Env
- Using logdump: Logging
- Getting logdump Help and Exiting
- Other Useful logdump Commands
- logdump Filtering
- Metadata Encapsulation: Overview
- Metadata in Trail Files

4 Basic Problems and Process Startup Problems

- Objectives
- Basic Troubleshooting: Example 1
- Basic Troubleshooting: Example 2
- Startup Problems: Overview
- Startup Problems: Oracle GoldenGate Configuration
- Startup Problems: Operating System
- Startup Problems: Permissions
- Startup Problems: Database Login
- Startup Problems: Slow Startup
- Startup Speed: Building the Object Record
- Startup Speed: Resolving Wildcards

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COURSE OUTLINE

5 Extraction Problems

- Objectives
- Extract Is Slow
- Extract Abends
- Data Pump Abends

6 Replication Problems

- Objectives
- Replicat Is Not Moving
- Replicat Abends: Example 1
- Replicat Abends: Example 2
- Replicat Abends with OGG-02191 Incompatible Record
- Replicat Abends: Diagnosis
- Replicat Abends: Example 3
- Preventing Replicat from Exiting

7 Missed Transactions

- Objectives
- Causes of Missed Transactions/Divergent Data
- Discovering Missed Transactions/Divergent Tables
- Transactions Not Being Processed
- Including Missed Transactions: GGSCI Example
- Including Missed Transactions: adminclient Example
- Including Missed Transactions: Administration Server Example

8 Mapping and Synchronization Problems

- Objectives
- Mapping Problems: Overview
- Mapping Problems: Source Fetch Fails
- Mapping Problems: Table and Column Names
- Mapping Problems: Definitions
- Mapping Problems: Column-Missing Error
- Synchronization Problems: Testing for Out-of-Sync Rows
- Synchronization Problems: Veridata Web GUI
- Synchronization Problems: Causes of Out-of-Sync Data
- Synchronization Problems: DML on Target Tables
- Synchronization Problems: Tables Without Keys
- Synchronization Problems: Character Sets
- Synchronization Problems: Different Structures or Keys
- Synchronization Problems: Options
- Synchronization Problems: Resynchronizing

9 SQLEXEC, File-Maintenance, and Other Problems

- Objectives
- SQLEXEC Problems
- File-Maintenance Problems
- Other Problems
- MA Patching Oracle Platform with OPatch
- CA Patching: Preparing to Patch Oracle GoldenGate
- CA Patching: Patching for Oracle Platform
- CA Patching: Patching Oracle GoldenGate for Heterogeneous Databases

10 Classic Performance Tuning

- Objectives
- Monitoring: Overview
- Monitoring: Lag
- Monitoring: Lag Time Differences
- Monitoring: Checking Lag Statistics
- Monitoring: Controlling How Lag Is Reported
- Monitoring: Checking Volume Statistics
- Monitoring: Using ReportParameter
- Monitoring: Using ReportCount
- Monitoring: Using the Stats Command
- Identifying Bottlenecks
- Bottlenecks: Determining Lag (Latency)
- Bottlenecks: Heartbeat Table Examples
- Bottlenecks: Monitoring Lag
- Bottlenecks: Measuring Throughput
- Bottlenecks: Finding the Cause
- Bottlenecks: Network Bottleneck Solutions
- Bottlenecks: Disk Reads/Writes
- Automatically Restarting Processes that Fail
- Tuning Extract (Filtering, Conversion, Fetching, Log Reads, Dividing Load)
- Tuning Replicat (Classic, Coordinated, Parallel)
- BatchSQL Overview and Syntax
- Checkpoint Frequency

11 Integrated Performance Tuning

- Objectives
- Integrated Capture Architecture
- Logmining Server Architecture
- Deployment Options
- Syntax
- Database Views for Integrated Extract
- Integrated Replicat Architecture
- Integrated Delivery
- Integrated Replicat Performance
- Parallel Apply and Dependency Computation
- Workload-Based Autotuning
- Direct Replicat (OCI) Processing
- Bidirectional Replication
- Changes to Replicat Parameters
- Database Views for Integrated Replicat

12 Integrated Capture and Delivery Troubleshooting

- Objectives
- Troubleshooting Aids
- Replication Performance Advisor (UTL_RPADV)
- Oracle GoldenGate Healthcheck Script
- Healthcheck Script Examples (Database, Extract, Replicat, Table Statistics, Tools, Report Map)
- Oracle Database Enhanced AWR Report
- Oracle GoldenGate Replication Statistics
- Replication Performance at a Glance
- Analyzing Data Capture
- Apply Reader Statistics
- Apply Server and Coordinator Statistics
- DML Operations

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