Oracle Golden Gate Admin

Introduction

- ✓ Oracle High Availability Techniques
- ✓ Datagaurd/Streams Vs Golden Gate.
- ✓ Definition
- ✓ Real Time Use Cases.
- ✓ Supported databases and platforms.

1.   OGG Architecture

- ✓ Building Blocks of Golden Gate
- ✓ Manager
- ✓ Extract(Capture)
- ✓ Datapump(Routing)
- ✓ Replicate(Delivery)
- ✓ Trails (Extract) Files
- ✓ Checkpoints – Detailed explanation of checkpoints
- ✓ Collector (Server collector)
- ✓ Data Source
- ✓ Groups
- ✓ Transformation

2.   Installation of Golden Gate

- ✓ Preparation & Installation of GG S/W on Source Server
  - o Very Important pre-requisites on Source DB.
  - o Installing OGG S/W on Source Server
  - o Creating of working /mandatory directories
  - o Verifying DB connectivity from GG S/W
- ✓ Preparation & Installation of GG on Target server
  - o Very Important Pre-requisites on Target DB.
  - o Installing OGG S/W on Target server
  - o Creation of working/Mandatory Directories.
  - o Verify DB connectivity from GG S/W

3.   Oracle Golden Gate Sub-Directories

- ✓ Reports(.rpt)
- ✓ Parameters (.prm)
- ✓ Stdout (.out)
- ✓ Replicate checkpoints (.cpr)
- ✓ Extract checkpoints (.cpe)
- ✓ Process Status (.pcs)
- ✓ SQL Scripts (.sql)
- ✓ Database Definitions (.def)

4.   Operating System Requirements

- ✓ Memory Requirements.
- ✓ Disk Requirements.
- ✓ Storage for Oracle Golden Gate Trails.
- ✓ To estimate required trail space.
- ✓ Temporary Disk requirements.
- ✓ Network
- ✓ Operating System Privileges.

5.   Configuring GLOBALS file.

- ✓ Checkpoint table
- ✓ Configuring the Manager process.
- ✓ Describing the Manager Parameters.
- ✓ Starting the Manager process.

6.   High level steps of "Replication with Datapump" Extract Configuration on Source side.

- ✓ Describing the Extract process.
- ✓ Explaining Extract checkpoints.
- ✓ Extract Creation on source side.
- ✓ Adding Extract on GG Interface.
- ✓ Adding remote trail at GG Interface on source side.
- ✓ Registering Extract at GG Interface on source side.
- ✓ Starting Extract process.
- ✓ Describing GGSCI commands.
- ✓ Describing Extract trails and files.

Configuring Replicate on target side

- o Describing the Replicate process
- o Explaining Replicate checkpoints
- o Replicate Creation on target side
- o Adding Replicate on GG Interface
- o Starting replicate process on target side

Observing Unidirectional Replication

- o Describing GGSCI commands
- o Describing Extract trails and files

7.   Replication with Datapump

- ✓ Extract Configuration on Source side
  - o Describing the Extract process
  - o Explaining Extract Checkpoints
  - o Extract Creation on Source side
  - o Adding Extract on GG Interface
  - o Registering Extract at GG Interface on source side
  - o Adding local trail at GG Interface on source side

- ✓ Starting a Extract process
    - o Describing GGSCI commands
    - o Describing Extract trails and files

- ✓ Datapump (Secondary Extract-Optionla) Configuration on Source side
    - o Describing the Datapump process
    - o Explaining Datapump checkpoints
    - o Datapump Creation on source side
    - o Adding Datapump on GG Interface
    - o Adding remote trail at GG Interface on source side
    - o Starting Datapump process
    - o Describing GGSCI commands
    - o Describing Extract trails and files

- ✓ Configuring Replicate target side
    - o Describing the Replicate process
    - o Explaining Replicate Checkpoints
    - o Replicate Creation on target side
    - o Adding Replicate on GG Interface
    - o Starting replicate processes on target side
- ✓ Observing Unidirectional Replication
    - o Describing GGSCI Commands
    - o Describing Extract trails and files

8.   Configuring DDL Replication at high level

- ✓ Instantiation through Initial Load (table level)
- ✓ Instantiation through exp & Imp (Schema/table)
- ✓ Instantiation through RMAN cloning (FULL DB)

9.   Password Encryption

- ✓ Importance of Discard file
- ✓ Overview of Data Definition File
- ✓ When to use Data Definition File
- ✓ Configuring Data Definition File

10.   Bidirectional replication (Active – Active)

- ✓ Overview of Integrated Capture

11.   Common errors/Troubleshooting

- ✓ Handing Data missing errors on target side
- ✓ Handing TCP/IP Errors
- ✓ Troubleshooting process startup failures
- ✓ Troubleshooting Extract problems
- ✓ Troubleshooting missed transactions
- ✓ Using the discard file
- ✓ Using SHOWSYNTAX to view Replicate SQL statements
- ✓ Using the Log dump utility