

Installing Oracle GoldenGate

by Ahmed Baraka

Introduction to Oracle Data Guard

In this lecture, we are going to talk about the basic concepts of Oracle Data Guard

Objectives

By the end of this lecture, you should be able to:

- Describe the requirements to install Oracle GoldenGate
- Install Oracle GoldenGate on a Linux or Windows platform
- Describe the directory structure of an Oracle GoldenGate instance
- Start the `ggsci` command prompt
- Use the Obey files



Supported OS and Database versions

- Check the latest OS and DB Certification matrix document:
 - goldengate12-2-x-cert-matrix-2769360.xls
- For example: GoldenGate 12.2.0.1
 - Linux 6 x86-64bit, Oracle Database 12.1.0.1+; 11.2.0.3+
 - Microsoft Windows x64 (64-bit), Oracle Database 12.1.0.1+; 11.2.0.4+



Operating System Requirements

- Memory requirements:
 - 25 MB to 55 MB for each Extract and Replicat
- Disk space:
 - 450 MB to 800 MB for installataion files
 - Trail files: depends on the transactions
- For Network TCP/IP requirements:
 - One port for the Manager process
 - Range of up to 256 ports
 - IPv4 and IPv6 are supported



Downloading Installation Files

- Oracle web site
- Oracle Software Delivery Cloud
 - select the GoldenGate product
 - select the Platform
 - Click Continue button
 - Older versions of Oracle GoldenGate are available for older database versions
- Oracle GoldenGate Patch Sets (Doc ID 1645495.1)



Installation on UNIX, Linux, or z/OS Systems

1. Extract the installation zip file
2. Run the Oracle Universal Installer
 - Do not select the start Manager process option
3. Create subdirectories

```
GGSCI> CREATE SUBDIRS
```



Installation on Windows

1. Extract the installation zip file
2. Run the Oracle Universal Installer
3. Create subdirectories
4. Configure a Windows Service Name for the Manager

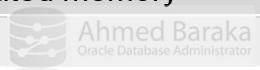
```
C:\OGG> Install AddService AddEvents
```

- Multiple instances can be installed



Oracle GoldenGate Directories

Directory	Contents
dirchk	Oracle GoldenGate checkpoint files
dircrd	Credential Store for users and passwords
dirdat	trail files
dirdef	Column definition
dirprm	Parameter files
dirsq1	SQL scripts
dirtmp	temp storage for transactions that exceed allocated memory
dirwlt	Wallet for masterkey



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Oracle GoldenGate Documentation

- Oracle GoldenGate installation and setup guides
 - Separate installation guide for each supported database platform
- Administration Guide
- Reference Guide
- Error Messages Reference
- Logdump Reference
- Upgrading Oracle GoldenGate for Windows and UNIX



GGSCI Command Interface

- Start the GGSCI
`./ggsci`
- For the help Summary page
`GGSCI> Help`
- For help on a specific command
`GGSCI> Help <command>`



GGSCI Commands

	Manager	Extract	Replicat	ER	ExtTrail	RmtTrail	Trandata	Checkpoint table	Trace Table
Add		X	X		X	X	X	X	X
Alter		X	X		X	X			
Cleanup		X	X					X	
Delete		X	X	X	X	X	X	X	X
Info	X	X	X	X	X	X	X	X	X
Kill		X	X	X					
Lag		X	X	X					
Refresh	X								
Send	X	X	X	X					
Start	X	X	X	X					
Stats		X	X	X					
Status	X	X	X	X					
Stop	X	X	X	X					

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Obey Files

- Automate frequently used commands
- One command per line
- Use ampersand with multi-line commands
- To run the file:

```
GGSCI> obey myscript.oby
```



Oracle GoldenGate Utilities

Utility	Description
DEFGEN	Creates data-definitions file
KEYGEN	Generates encryption key
LOGDUMP	View the data in the trail files
CHECKPRM	Validate the parameter files offline



Summary

By the end of this lecture, you should have learnt how to:

- Describe the requirements to install Oracle GoldenGate
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