

# **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
<b>dirchk</b>	Oracle GoldenGate checkpoint files
<b>dircrd</b>	Credential Store for users and passwords
<b>dirdat</b>	trail files
<b>dirdef</b>	Column definition
<b>dirprm</b>	Parameter files
<b>dirsql</b>	SQL scripts
<b>dirtmp</b>	temp storage for transactions that exceed allocated memory
<b>dirwlt</b>	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> He1p
```

- For help on a specific command

```
GGSCI> He1p <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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- Use the Obey files

