

【OGG】 OGG 的下载和安装篇

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1.2 前言部分

1.2.1 导读

各位技术爱好者，看完本文后，你可以掌握如下的技能，也可以学到一些其它你所不知道的知识，~O(∩_∩)O~：

① OGG 的下载和安装

注意：本篇 BLOG 中代码部分需要特别关注的地方我都用黄色背景和红色字体来表示，比如下边的例子中，thread 1 的最大归档日志号为 33，thread 2 的最大归档日志号为 43

是需要特别关注的地方。

List of Archived Logs in backup set 11							
Thrd	Seq	Low SCN	Low Time		Next SCN	Next Time	
1	32	1621589	2015-05-29 11:09:52	1625242	2015-05-29 11:15:48		
1	33	1625242	2015-05-29 11:15:48	1625293	2015-05-29 11:15:58		
2	42	1613951	2015-05-29 10:41:18	1625245	2015-05-29 11:15:49		
2	43	1625245	2015-05-29 11:15:49	1625253	2015-05-29 11:15:53		

本文如有错误或不完善的地方请大家多多指正，ITPUB 留言或 QQ 皆可，您的批评指正是我写作的最大动力。

1.2.2 实验环境介绍

11.2.0.3 RHEL6.5

1.2.3 本文简介

有个同事喊我解决 OGG 不能同步的问题，汗颜啊，我也就之前学过安装和简单的配置，当时是成功的，结果帮同事搭建的时候数据死活不能同步。于是下决心这几天好好再研究一下 OGG 的内容。

1.3 gg 安装

在 Linux 上安装 OGG 很简单，总体分为以下几个部分：

- 1. Downloading Oracle GoldenGate software.
- 2. Setting ORACLE_HOME and ORACLE_SID
- 3. Setting library paths for dynamic builds
- 4. Installing the Oracle GoldenGate software

1.3.1 Downloading Oracle GoldenGate software.

第一步，下载 gg 软件，可以有 2 种途径直接下载

1.3.1.1 第一种: <http://edelivery.oracle.com>

1. On a browser, go to <http://edelivery.oracle.com>
2. Welcome page:
 - Select language
 - Continue
3. Export Validation:
 - Enter your name, company, email, country
 - Accept Trial License (even if you have permanent license)
 - Accept Export Restrictions
 - Continue
4. Media Pack Search:
 Select a Product Pack: Oracle Fusion Middleware
 Select a platform from the drop-down list
 Go

Media Pack Search

✓ **Instructions**

1. Review the [License List](#) to determine which Product Pack or Packs you need to download.
2. Select the Product Pack and Platform and click "Go".
3. If there is only one result, you will see the download page. If there are multiple results, select one and click "Continue".

Select a Product Pack ⓘ

Platform

Go

Results

Select	Description	Release	Part Number	Updated	# Parts / Size
*** No search conducted ***					

Continue

5. Results:
 Select the **Oracle GoldenGate Media Pack** you want
 Continue

<input type="radio"/>	Oracle GoldenGate on Oracle Media Pack for Microsoft Windows (32-bit)	n/a	B56876-01	NOV-09-2009	3 / 37M
<input type="radio"/>	Oracle GoldenGate on IBM DB2 Media Pack for Microsoft Windows (32-bit)	n/a	B56892-01	NOV-09-2009	2 / 28M
<input type="radio"/>	Oracle GoldenGate on SQL SERVER Media Pack for Microsoft Windows (32-bit)	n/a	B56896-01	NOV-09-2009	2 / 29M
<input type="radio"/>	Oracle GoldenGate on Sybase Media Pack for Microsoft Windows (32-bit)	n/a	B56924-01	NOV-09-2009	3 / 37M

<input type="radio"/>	Oracle GoldenGate on Oracle v11.2.1 Media Pack for Linux x86-64	11.2.1.0.1	B68070-03	JAN-22-2014	3 / 262M
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- 6. View Readme
- 7. Download software
- 8. Download documentation

Oracle GoldenGate on SQL SERVER Media Pack v1 for Microsoft Windows (32-bit)

Readme

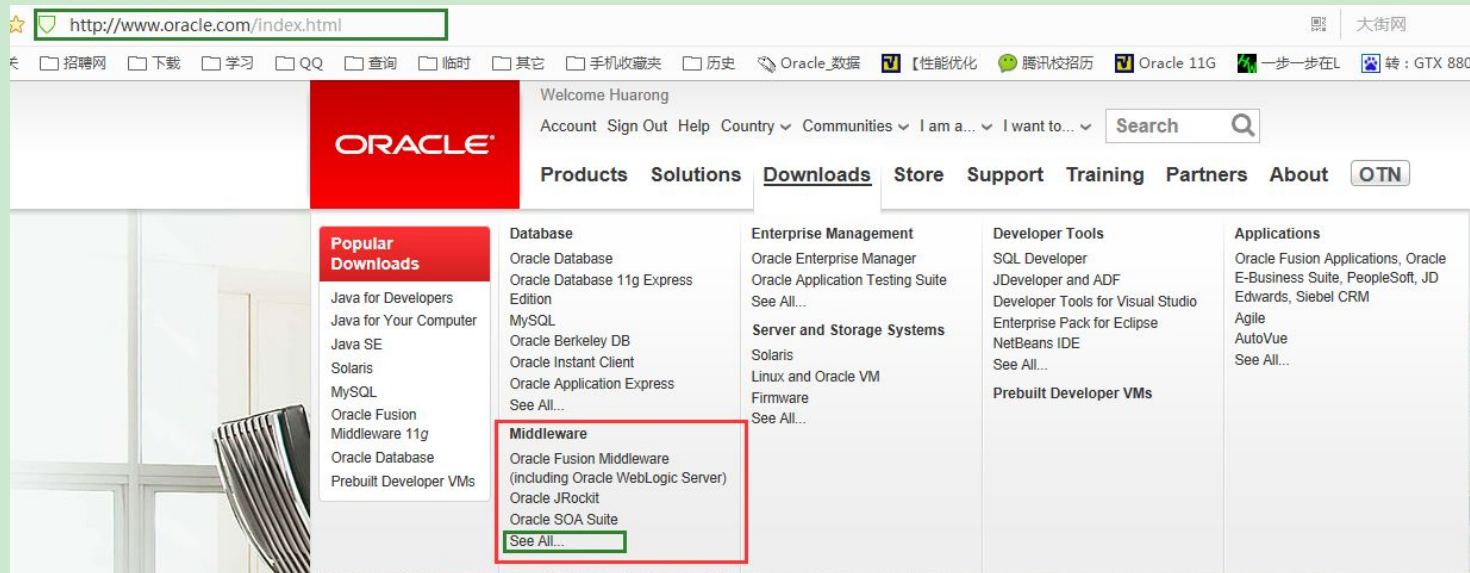
View Digest

Select	Name	Part Number	Size (Bytes)
<div>Download</div>	Oracle GoldenGate V10.4.0.x for Windows 2000, XP, 2003 on SQL Server 2000, 2003, 2008 (delivery only)	V18174-01	8.3M
<div>Download</div>	Oracle GoldenGate Documentation	V18423-01	20M

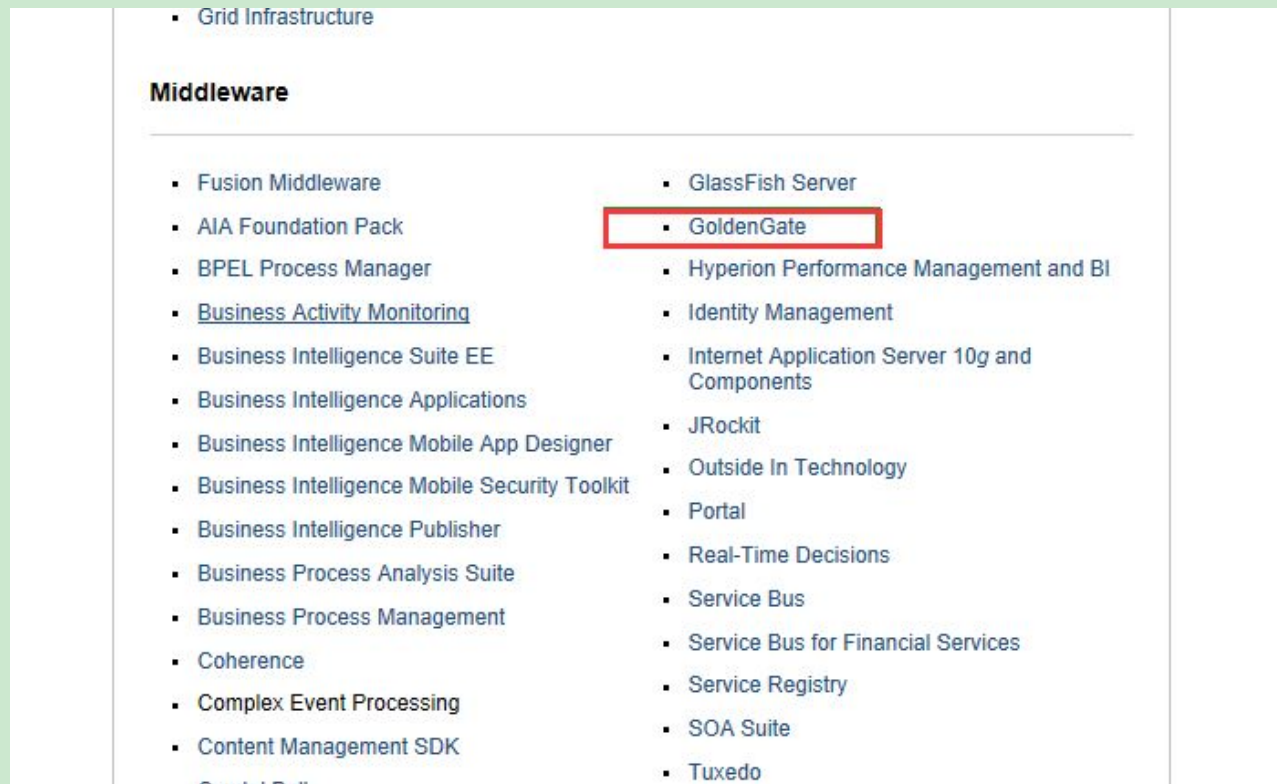
Total: 2

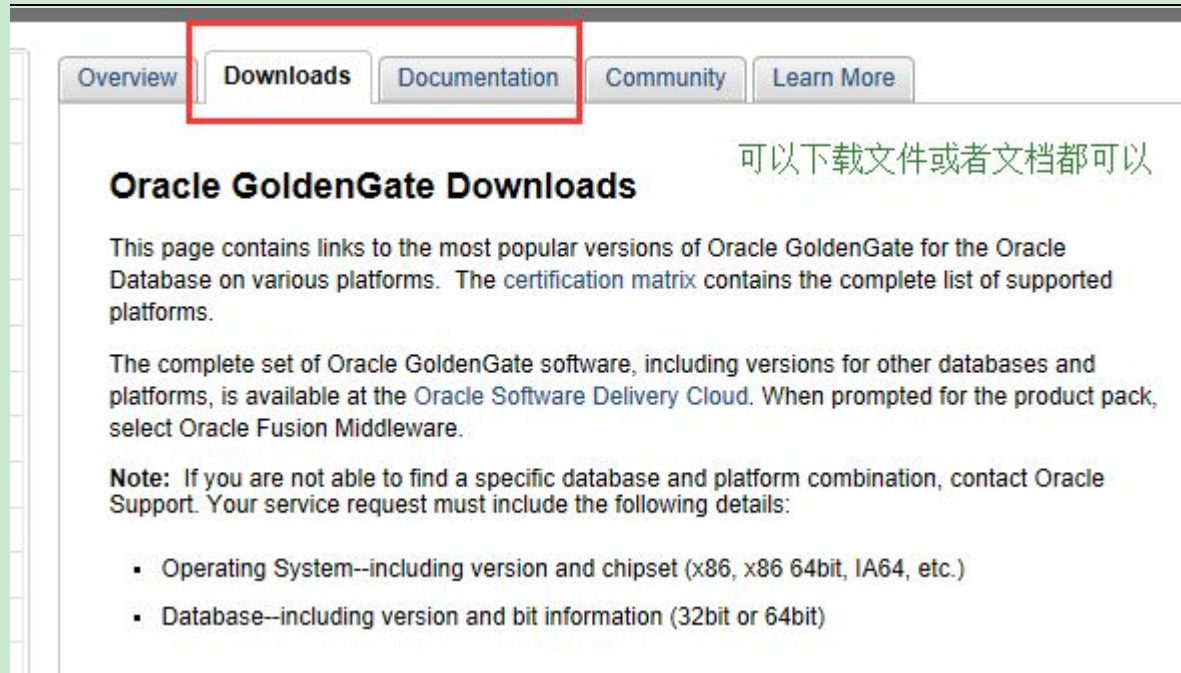
1.3.1.2 第二种：<http://www.oracle.com>

- 1. 登录 www.oracle.com ,选择 Middleware 下的 See All



2. 选择 GoldenGate





注意选择好对应的版本及平台：



不用详细说明了，所以最终的下载地址：

英文：<http://www.oracle.com/technetwork/middleware/goldengate/downloads/index.html>

中文：<http://www.oracle.com/technetwork/cn/middleware/goldengate/downloads/index.html>

1.3.2 Setting ORACLE_HOME and ORACLE_SID

Set the environment variables in your .bash_profile (Bash)

```
ORACLE_BASE=/u01
```

```
ORACLE_HOME=$ORACLE_BASE/oracle
ORACLE_SID=ggsouce

PATH=$ORACLE_BASE/gg11:$ORACLE_HOME/bin:$PATH
LD_LIBRARY_PATH=$ORACLE_BASE/gg11:$ORACLE_HOME/lib:$LD_LIBRARYPATH

export ORACLE_BASE ORACLE_HOME ORACLE_SID
export PATH LD_LIBRARY_PATH
```

自己：

```
export ORACLE_BASE=/u01/app/oracle
export ORACLE_HOME=$ORACLE_BASE/product/11.2.0/dbhome_1
export OGG_HOME=/u01/gg11
export PATH=$OGG_HOME:$ORACLE_HOME/bin:$PATH
export LD_LIBRARY_PATH=$OGG_HOME:$ORACLE_HOME/lib:$LD_LIBRARYPATH

stty erase ^h
alias ggsci='rlwrap ggsci'
```

1. 3. 3 **Setting library paths for dynamic builds**

<u>Platform</u>	<u>Environment variables</u>
IBM AIX	
IBM z/OS	
HP-UX	SHLIB_PATH
Solaris	LD_LIBRARY_PATH
HP Tru64	
Linux	

1. 3. 4 **Installing the Oracle GoldenGate software**

Use the gzip and tar options appropriate for your system. If you are installing GoldenGate into a cluster environment, make certain that the GoldenGate binaries and files are installed on a file system that is available to all cluster nodes. After installing GoldenGate, make certain to configure the GoldenGate Manager process within the cluster application, as directed by the vendor’ s documentation, so that GoldenGate will fail over properly with the other applications. The Manager process is the master control program for all GoldenGate operations. A GoldenGate instance is a single installation of GoldenGate.

- Unzip the Oracle GoldenGate media pack .zip file on a Windows system. This produces a .tar file.
- FTP the .tar file in binary mode to the system and directory where you want GoldenGate to be installed.
- Extract the .tar file into the current directory:

- tar -xvof <filename>.tar
- Run the command shell and change directories to the new GoldenGate directory.
GGSCI> CREATE SUBDIRS

1.3.5 GoldenGate Directories

Directory	Contents
dirchk	GoldenGate checkpoint files
dirdat	GoldenGate trail and extract files
dirdef	Data definitions produced by DEFGEN and used to translate heterogeneous data
dirpcs	Process status files
dirprm	Parameter files
dirrpt	Process report files
dirsql	SQL scripts
dirtmp	Temporary storage for transactions that exceed allocated memory

- a. dirchk:存放检查点文件
- b. dirdat:存放 Trail 文件
- c. dirdef:存放通过 DEFGEN 工具生成的源或目标端数据定义文件
- d. dirpcs:存放进程状态文件
- e. dirprm:存放配置参数文件
- f. dirrpt:存放进程报告文件
- g. dirsql:存放 sql 脚本文件
- h. dirtmp:当食物所需要的内存超过已分配内存时，默认存储在这个目录。

1.4 系统要求

1. 一个 OGG 实例最多支持 300 个并发 extract 和 replicat 进程，每个进程需要 25-55M 内存。
2. GGSCI, view report, 找到 PROCESS VM AVAIL FROM OS，大约就是系统所需 要的 swap space 大小
3. 磁盘空间每个实例 50-150M，外加 trail 等等，至少给 1G。trail 所需空间 的预估方法是：[log volume in one hour] x [number of hours downtime] * 0.4
4. /tmp 空间，默认是 dirtmp 目录，可以通过 CACHEMGR 参数的 CACHEDIRECTORY 选项指定

- 5. 安装 OGG 的用户必须属于 ORACLE 数据库实例的组，通常就是 dba。
- 6. 要想支持 RAC 里的 RMAN log retention 特性，得在 add extract 之前安装 patch BUGFIX 11879974

1.5 自己的安装例子

source 和 target 端的安装过程是一样的。

1.5.1 配置环境变量

```
[oracle@rhel6_lhr ~]$ vi gg_env.sh
[oracle@rhel6_lhr ~]$ . gg_env.sh
[oracle@rhel6_lhr ~]$ more gg_env.sh
export ORACLE_BASE=/u01/app/oracle
export ORACLE_HOME=$ORACLE_BASE/product/11.2.0/dbhome_1

export PATH=/u01/gg11:$ORACLE_HOME/bin:$PATH
export LD_LIBRARY_PATH=/u01/gg11:$ORACLE_HOME/lib:$LD_LIBRARYPATH

stty erase ^h
alias ggsci='rlwrap ggsci'
[oracle@rhel6_lhr ~]$ mkdir /u01/gg11
[oracle@rhel6_lhr ~]$ env | grep LD
LD_LIBRARY_PATH=/u01/app/oracle/product/11.2.0/dbhome_1/lib:/usr/lib
[oracle@rhel6_lhr ~]$ unzip /mnt/hgfs/share/V28941-01.zip -d /tmp/gg/
Archive:  /mnt/hgfs/share/V28941-01.zip
  inflating: /tmp/gg/fbo_ggs_Linux_x64_orallg_64bit.tar
  inflating: /tmp/gg/OGG_WinUnix_Rel_Notes_11.1.1.1.2.pdf
  inflating: /tmp/gg/Oracle_GoldenGate_11.1.1.1_README.txt
[oracle@rhel6_lhr ~]$ ll /tmp/gg
total 268088
-rw-r--r--. 1 oracle oinstall 274247680 Oct  7  2011 fbo_ggs_Linux_x64_orallg_64bit.tar
-rw-r--r--. 1 oracle oinstall   245329 Oct 29  2011 OGG_WinUnix_Rel_Notes_11.1.1.1.2.pdf
-rw-r--r--. 1 oracle oinstall   25065 Oct 29  2011 Oracle_GoldenGate_11.1.1.1_README.txt
```

1.5.2 解压

```
[oracle@rhel6_lhr ~]$ tar xvf /tmp/gg/fbo_ggs_Linux_x64_orallg_64bit.tar -C /u01/gg11/
```

bcpfmt. tpl
bcrypt. txt
cfg/
cfg/MPMetadataSchema. xsd
cfg/Config. properties
cfg/ProfileConfig. xml
cfg/password. properties
cfg/mpmetadata. xml
cfg/jps-config-jse. xml
chkpt_ora_create. sql
cobgen
convchk
db2cntl. tpl
ddl_access. tpl
ddl_cleartrace. sql
ddlcob
ddl_db2_os390. tpl
ddl_db2. tpl
ddl_ddl2file. sql
ddl_disable. sql
ddl_enable. sql
ddl_filter. sql
ddlgen
ddl_informix. tpl
ddl_mss. tpl
ddl_mysql. tpl
ddl_nopurgeRecyclebin. sql
ddl_nssql. tpl
ddl_ora10. sql
ddl_ora10upCommon. sql
ddl_ora11. sql
ddl_ora9. sql
ddl_oracle. tpl
ddl_pin. sql
ddl_purgeRecyclebin. sql
ddl_remove. sql
ddl_session1. sql
ddl_session. sql
ddl_setup. sql
ddl_sqlmx. tpl
ddl_status. sql
ddl_staymetadata_off. sql
ddl_staymetadata_on. sql
ddl_sybase. tpl
ddl_tandem. tpl
ddl_tracelevel. sql
ddl_trace_off. sql

ddl_trace_on.sql
defgen
demo_more_ora_create.sql
demo_more_ora_insert.sql
demo_ora_create.sql
demo_ora_insert.sql
demo_ora_lob_create.sql
demo_ora_misc.sql
demo_ora_pk_befores_create.sql
demo_ora_pk_befores_insert.sql
demo_ora_pk_befores_updates.sql
dirjar/
dirjar/oraclepki.jar
dirjar/jps-unsupported-api.jar
dirjar/fmw_audit.jar
dirjar/spring-security-cas-client-3.0.1.RELEASE.jar
dirjar/jps-manifest.jar
dirjar/xstream-1.3.jar
dirjar/monitor-common.jar
dirjar/commons-logging-1.0.4.jar
dirjar/org.springframework.jdbc-3.0.0.RELEASE.jar
dirjar/jps-upgrade.jar
dirjar/org.springframework.core-3.0.0.RELEASE.jar
dirjar/org.springframework.aop-3.0.0.RELEASE.jar
dirjar/org.springframework.web-3.0.0.RELEASE.jar
dirjar/ldapjclnt11.jar
dirjar/jmxremote_optional-1.0-b02.jar
dirjar/spring-security-acl-3.0.1.RELEASE.jar
dirjar/jps-wls.jar
dirjar/identityutils.jar
dirjar/identitystore.jar
dirjar/org.springframework.context-3.0.0.RELEASE.jar
dirjar/jsr250-api-1.0.jar
dirjar/jacc-spi.jar
dirjar/jagent.jar
dirjar/org.springframework.expression-3.0.0.RELEASE.jar
dirjar/org.springframework.context.support-3.0.0.RELEASE.jar
dirjar/spring-security-core-3.0.1.RELEASE.jar
dirjar/jps-api.jar
dirjar/org.springframework.test-3.0.0.RELEASE.jar
dirjar/osdt_core.jar
dirjar/jps-ee.jar
dirjar/osdt_cert.jar
dirjar/log4j-1.2.15.jar
dirjar/org.springframework.aspects-3.0.0.RELEASE.jar
dirjar/org.springframework.instrument-3.0.0.RELEASE.jar
dirjar/jps-common.jar

dirjar/spring-security-config-3.0.1.RELEASE.jar
dirjar/jps-mbeans.jar
dirjar/xmlparserv2.jar
dirjar/commons-codec-1.3.jar
dirjar/xpp3_min-1.1.4c.jar
dirjar/spring-security-web-3.0.1.RELEASE.jar
dirjar/jps-patching.jar
dirjar/spring-security-taglibs-3.0.1.RELEASE.jar
dirjar/org.springframework.orm-3.0.0.RELEASE.jar
dirjar/slf4j-log4j12-1.4.3.jar
dirjar/org.springframework.beans-3.0.0.RELEASE.jar
dirjar/jdmkrt-1.0-b02.jar
dirjar/jps-internal.jar
dirjar/slf4j-api-1.4.3.jar
dirjar/org.springframework.asm-3.0.0.RELEASE.jar
dirjar/org.springframework.transaction-3.0.0.RELEASE.jar
dirjar/osdt_xmlsec.jar
emscInt
extract
freeBSD.txt
ggMessage.dat
ggsci
help.txt
jagent.sh
keygen
libicudata.so.38
libicui18n.so.38
libicuuc.so.38
libxerces-c.so.28
libxml2.txt
logdump
marker_remove.sql
marker_setup.sql
marker_status.sql
mgr
notices.txt
params.sql
prvtclkm.plb
pw_agent_util.sh
remove_seq.sql
replicat
retrace
reverse
role_setup.sql
sequence.sql
server
sqlldr.tpl

```
tcperrs
UserExitExamples/
UserExitExamples/ExitDemo_lobs/
UserExitExamples/ExitDemo_lobs/Makefile_lob.SOLARIS
UserExitExamples/ExitDemo_lobs/readme.txt
UserExitExamples/ExitDemo_lobs/exitdemo_lob.vcproj
UserExitExamples/ExitDemo_lobs/Makefile_lob.AIX
UserExitExamples/ExitDemo_lobs/Makefile_lob.LINUX
UserExitExamples/ExitDemo_lobs/Makefile_lob.HPUX
UserExitExamples/ExitDemo_lobs/exitdemo_lob.c
UserExitExamples/ExitDemo/
UserExitExamples/ExitDemo/exitdemo.c
UserExitExamples/ExitDemo/readme.txt
UserExitExamples/ExitDemo/Makefile_exit_demo.HPUX
UserExitExamples/ExitDemo/Makefile_exit_demo.AIX
UserExitExamples/ExitDemo/Makefile_exit_demo.SOLARIS
UserExitExamples/ExitDemo/Makefile_exit_demo.LINUX
UserExitExamples/ExitDemo/Makefile_exit_demo.HP_OSS
UserExitExamples/ExitDemo/exitdemo.vcproj
UserExitExamples/ExitDemo_pk_befores/
UserExitExamples/ExitDemo_pk_befores/Makefile_pk_befores.SOLARIS
UserExitExamples/ExitDemo_pk_befores/readme.txt
UserExitExamples/ExitDemo_pk_befores/Makefile_pk_befores.HPUX
UserExitExamples/ExitDemo_pk_befores/exitdemo_pk_befores.c
UserExitExamples/ExitDemo_pk_befores/Makefile_pk_befores.LINUX
UserExitExamples/ExitDemo_pk_befores/exitdemo_pk_befores.vcproj
UserExitExamples/ExitDemo_pk_befores/Makefile_pk_befores.AIX
UserExitExamples/ExitDemo_more_recs/
UserExitExamples/ExitDemo_more_recs/Makefile_more_recs.SOLARIS
UserExitExamples/ExitDemo_more_recs/readme.txt
UserExitExamples/ExitDemo_more_recs/exitdemo_more_recs.c
UserExitExamples/ExitDemo_more_recs/Makefile_more_recs.AIX
UserExitExamples/ExitDemo_more_recs/Makefile_more_recs.HPUX
UserExitExamples/ExitDemo_more_recs/Makefile_more_recs.LINUX
UserExitExamples/ExitDemo_more_recs/exitdemo_more_recs.vcproj
UserExitExamples/ExitDemo_passthru/
UserExitExamples/ExitDemo_passthru/Makefile_passthru.HPUX
UserExitExamples/ExitDemo_passthru/Makefile_passthru.AIX
UserExitExamples/ExitDemo_passthru/exitdemo_passthru.c
UserExitExamples/ExitDemo_passthru/readme.txt
UserExitExamples/ExitDemo_passthru/Makefile_passthru.SOLARIS
UserExitExamples/ExitDemo_passthru/Makefile_passthru.LINUX
UserExitExamples/ExitDemo_passthru/exitdemopassthru.vcproj
UserExitExamples/ExitDemo_passthru/Makefile_passthru.HP_OSS
usrdecs.h
zlib.txt
```


1.5.3 安装

1. 这里确保 gg11 目录的用户为 Oracle，如果不是执行：`chown -R oracle:oinstall gg11`
2. 安装的时候进入 gg11 目录，不然会安装在当前登录的目录下边

```
[oracle@rhel6_lhr ~]$ cd /u01
[oracle@rhel6_lhr u01]$ ll
total 8
drwxrwxr-x. 5 grid oinstall 4096 Jun 14 22:13 app
drwxr-xr-x. 5 oracle oinstall 4096 Oct 30 15:39 gg11
[oracle@rhel6_lhr gg11]$ ggsci

Oracle GoldenGate Command Interpreter for Oracle
Version 11.1.1.1.2 OGGCORE_11.1.1.1.2_PLATFORMS_111004.2100
Linux, x64, 64bit (optimized), Oracle 11g on Oct  4 2011 23:49:46

Copyright (C) 1995, 2011, Oracle and/or its affiliates. All rights reserved.
```

```
GGSCI (rhel6_lhr) 1> create subdirs
```

```
Creating subdirectories under current directory /u01/gg11
```

```
Parameter files           /u01/gg11/dirprm: created
Report files              /u01/gg11/dirrpt: created
Checkpoint files          /u01/gg11/dirchk: created
Process status files      /u01/gg11/dirpcs: created
SQL script files          /u01/gg11/dirsql: created
Database definitions files /u01/gg11/dirdef: created
Extract data files        /u01/gg11/dirdat: created
Temporary files           /u01/gg11/dirtmp: created
Veridata files            /u01/gg11/dirver: created
Veridata Lock files       /u01/gg11/dirver/lock: created
Veridata Out-Of-Sync files /u01/gg11/dirver/oos: created
Veridata Out-Of-Sync XML files /u01/gg11/dirver/oosxml: created
Veridata Parameter files  /u01/gg11/dirver/params: created
Veridata Report files     /u01/gg11/dirver/report: created
Veridata Status files     /u01/gg11/dirver/status: created
Veridata Trace files      /u01/gg11/dirver/trace: created
Stdout files              /u01/gg11/dirout: created
```

```
GGSCI (rhel6_lhr) 2> exit
```

```
[oracle@rhel6_lhr gg11]$ ls -ltr
total 249672
-r--r--r--. 1 oracle oinstall      1476 Oct 15  2010 zlib.txt
-r--r--r--. 1 oracle oinstall       759 Oct 15  2010 tcperrs
-r--r--r--. 1 oracle oinstall       248 Oct 15  2010 sqlldr.tpl
-r--r--r--. 1 oracle oinstall     1668 Oct 15  2010 libxml2.txt
-r--r--r--. 1 oracle oinstall     1968 Oct 15  2010 freeBSD.txt
-r--r--r--. 1 oracle oinstall     2653 Oct 15  2010 ddl_tandem.tpl
-r--r--r--. 1 oracle oinstall     3523 Oct 15  2010 ddl_sybase.tpl
-r--r--r--. 1 oracle oinstall     2652 Oct 15  2010 ddl_sqlmx.tpl
-r--r--r--. 1 oracle oinstall     3458 Oct 15  2010 ddl_oracle.tpl
-r--r--r--. 1 oracle oinstall     2653 Oct 15  2010 ddl_nssql.tpl
-r--r--r--. 1 oracle oinstall     3481 Oct 15  2010 ddl_mysql.tpl
-r--r--r--. 1 oracle oinstall     2984 Oct 15  2010 ddl_informix.tpl
-r--r--r--. 1 oracle oinstall     3017 Oct 15  2010 ddl_db2.tpl
-r--r--r--. 1 oracle oinstall     3502 Oct 15  2010 ddl_db2_os390.tpl
-r--r--r--. 1 oracle oinstall     3334 Oct 15  2010 ddl_access.tpl
-r--r--r--. 1 oracle oinstall       159 Oct 15  2010 db2cntl.tpl
-r--r--r--. 1 oracle oinstall     1725 Oct 15  2010 bcrypt.txt
-r--r--r--. 1 oracle oinstall       426 Oct 15  2010 bcpfmt.tpl
-r--r--r--. 1 oracle oinstall    21197 Oct 15  2010 usrdecs.h
-r--r--r--. 1 oracle oinstall     1715 Oct 15  2010 marker_status.sql
-r--r--r--. 1 oracle oinstall     3702 Oct 15  2010 marker_setup.sql
-r--r--r--. 1 oracle oinstall     2162 Oct 15  2010 marker_remove.sql
-r--r--r--. 1 oracle oinstall     2275 Oct 15  2010 demo_ora_misc.sql
-r--r--r--. 1 oracle oinstall     4015 Oct 15  2010 demo_ora_lob_create.sql
-r--r--r--. 1 oracle oinstall       821 Oct 15  2010 demo_ora_insert.sql
-r--r--r--. 1 oracle oinstall       883 Oct 15  2010 demo_ora_create.sql
-r--r--r--. 1 oracle oinstall     2862 Oct 15  2010 ddl_trace_on.sql
-r--r--r--. 1 oracle oinstall     2955 Oct 15  2010 ddl_tracelevel.sql
-r--r--r--. 1 oracle oinstall     2501 Oct 15  2010 ddl_staymetadata_on.sql
-r--r--r--. 1 oracle oinstall     2506 Oct 15  2010 ddl_staymetadata_off.sql
-r--r--r--. 1 oracle oinstall     8872 Oct 15  2010 ddl_status.sql
-r--r--r--. 1 oracle oinstall     1227 Oct 15  2010 ddl_purgeRecyclebin.sql
-r--r--r--. 1 oracle oinstall     1026 Oct 15  2010 ddl_pin.sql
-r--r--r--. 1 oracle oinstall       388 Oct 15  2010 ddl_nopurgeRecyclebin.sql
-r--r--r--. 1 oracle oinstall       692 Oct 15  2010 ddl_enable.sql
-r--r--r--. 1 oracle oinstall       746 Oct 15  2010 ddl_disable.sql
-r--r--r--. 1 oracle oinstall     4189 Oct 15  2010 ddl_ddl2file.sql
-r--r--r--. 1 oracle oinstall     1059 Oct 15  2010 ddl_cleartrace.sql
-r--r--r--. 1 oracle oinstall       739 Oct 15  2010 chkpt_ora_create.sql
-r--r--r--. 1 oracle oinstall     2520 Oct 15  2010 demo_ora_pk_befores_updates.sql
-r--r--r--. 1 oracle oinstall     1227 Oct 15  2010 demo_ora_pk_befores_insert.sql
-r--r--r--. 1 oracle oinstall     1269 Oct 15  2010 demo_ora_pk_befores_create.sql
-r--r--r--. 1 oracle oinstall       967 Oct 15  2010 demo_more_ora_insert.sql
-r--r--r--. 1 oracle oinstall     1217 Oct 15  2010 demo_more_ora_create.sql
-r--r--r--. 1 oracle oinstall     1053 Oct 15  2010 ddl_session.sql
```

```
-r--r--r--. 1 oracle oinstall      425 Oct 15  2010 ddl_session1.sql
-r--r--r--. 1 oracle oinstall    3686 Oct 15  2010 ddl_remove.sql
-r--r--r--. 1 oracle oinstall    3414 Oct 15  2010 ddl_mss.tpl
-r--r--r--. 1 oracle oinstall    1272 Dec 10  2010 prvtclkm.plb
-r--r--r--. 1 oracle oinstall   206155 Dec 10  2010 notices.txt
-r--r--r--. 1 oracle oinstall    4752 Dec 10  2010 params.sql
-r--r--r--. 1 oracle oinstall    3102 Feb 10  2011 ddl_filter.sql
-r--r--r-x. 1 oracle oinstall   12622 Feb 10  2011 ddl_orall.sql
-r--r--r-x. 1 oracle oinstall    6380 Feb 10  2011 ddl_oral0upCommon.sql
-r--r--r-x. 1 oracle oinstall   12947 Feb 10  2011 ddl_oral0.sql
-r--r--r-x. 1 oracle oinstall    2721 Feb 10  2011 ddl_trace_off.sql
-r--r--r--. 1 oracle oinstall    4375 Mar 11  2011 role_setup.sql
-r--r--r--. 1 oracle oinstall    2406 Mar 31  2011 remove_seq.sql
-r-xr-xr-x. 1 oracle oinstall  248842 May 27  2011 ddl_setup.sql
-r--r--r-x. 1 oracle oinstall   13989 May 27  2011 ddl_ora9.sql
-r--r--r-x. 1 oracle oinstall  156062 Jul 19  2011 help.txt
-r-xr--r--. 1 oracle oinstall   32608 Sep  2  2011 sequence.sql
-r-xr-xr-x. 1 oracle oinstall  5323945 Sep 10  2011 libxerces-c.so.28
-r-xr-xr-x. 1 oracle oinstall 11360748 Sep 10  2011 libicudata.so.38
-r-xr-xr-x. 1 oracle oinstall  4034679 Sep 10  2011 libicuuc.so.38
-r-xr-xr-x. 1 oracle oinstall  5359083 Sep 10  2011 libicu18n.so.38
drwxr-xr-x. 7 oracle oinstall    4096 Oct  5  2011 UserExitExamples
-rw-r--r--. 1 oracle oinstall  475120 Oct  5  2011 ggMessage.dat
-rwxr-xr-x. 1 oracle oinstall 41448853 Oct  5  2011 mgr
-rwxr-xr-x. 1 oracle oinstall 24780728 Oct  5  2011 ggsci
-rwxr-xr-x. 1 oracle oinstall   1015 Oct  5  2011 pw_agent_util.sh
-rwxr-xr-x. 1 oracle oinstall    406 Oct  5  2011 jagent.sh
drwxr-xr-x. 2 oracle oinstall    4096 Oct  5  2011 dirjar
drwxr-xr-x. 2 oracle oinstall    4096 Oct  5  2011 cfg
-rwxr-xr-x. 1 oracle oinstall  8196806 Oct  5  2011 cobgen
-rwxr-xr-x. 1 oracle oinstall  8277142 Oct  5  2011 ddlcob
-rwxr-xr-x. 1 oracle oinstall  8676240 Oct  5  2011 emscInt
-rwxr-xr-x. 1 oracle oinstall  105222 Oct  5  2011 keygen
-rwxr-xr-x. 1 oracle oinstall 1351252 Oct  5  2011 logdump
-rwxr-xr-x. 1 oracle oinstall  8140619 Oct  5  2011 retrace
-rwxr-xr-x. 1 oracle oinstall  402443 Oct  5  2011 reverse
-rwxr-xr-x. 1 oracle oinstall 13821413 Oct  5  2011 server
-rwxr-xr-x. 1 oracle oinstall  8138320 Oct  5  2011 convchk
-rwxr-xr-x. 1 oracle oinstall  9787054 Oct  5  2011 ddlgen
-rwxr-xr-x. 1 oracle oinstall  9668859 Oct  5  2011 defgen
-rwxr-xr-x. 1 oracle oinstall 45803664 Oct  7  2011 extract
-rwxr-xr-x. 1 oracle oinstall 39442364 Oct  7  2011 replicat
drwxrwxr-x. 9 oracle oinstall    4096 Oct 30 15:54 dirver
drwxrwxr-x. 2 oracle oinstall    4096 Oct 30 15:54 dirtmp
drwxrwxr-x. 2 oracle oinstall    4096 Oct 30 15:54 dirsqli
drwxrwxr-x. 2 oracle oinstall    4096 Oct 30 15:54 dirrpt
drwxrwxr-x. 2 oracle oinstall    4096 Oct 30 15:54 dirprm
```

```
drwxrwxr-x. 2 oracle oinstall      4096 Oct 30 15:54 dirpcs
drwxrwxr-x. 2 oracle oinstall      4096 Oct 30 15:54 dirout
drwxrwxr-x. 2 oracle oinstall      4096 Oct 30 15:54 dirdef
drwxrwxr-x. 2 oracle oinstall      4096 Oct 30 15:54 dirdat
drwxrwxr-x. 2 oracle oinstall      4096 Oct 30 15:54 dirchk
[oracle@rhel6_lhr gg11]$
[oracle@rhel6_lhr ~]$ cd $OGG_HOME
[oracle@rhel6_lhr gg11]$ ggsci
```

```
Oracle GoldenGate Command Interpreter for Oracle
Version 11.2.1.0.1 OGGCORE_11.2.1.0.1_PLATFORMS_120423.0230_FBO
Linux, x64, 64bit (optimized), Oracle 11g on Apr 23 2012 08:32:14
```

```
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```

```
GGSCI (rhel6_lhr) 1> info all
```

Program	Status	Group	Lag at Chkpt	Time Since Chkpt
MANAGER	STOPPED			

```
GGSCI (rhel6_lhr) 2> help
```

```
GGSCI Command Summary:
```

Object:	Command:
SUBDIRS	CREATE
ER	INFO, KILL, LAG, SEND, STATUS, START, STATS, STOP
EXTRACT	ADD, ALTER, CLEANUP, DELETE, INFO, KILL, LAG, REGISTER, SEND, START, STATS, STATUS, STOP, UNREGISTER
EXTTRAIL	ADD, ALTER, DELETE, INFO
GGSEVT	VIEW
MANAGER	INFO, SEND, START, STOP, STATUS
MARKER	INFO
PARAMS	EDIT, VIEW
REPLICAT	ADD, ALTER, CLEANUP, DELETE, INFO, KILL, LAG, SEND, START, STATS, STATUS, STOP
REPORT	VIEW
RMTTRAIL	ADD, ALTER, DELETE, INFO
TRACETABLE	ADD, DELETE, INFO
TRANDATA	ADD, DELETE, INFO
SCHEMATRANDATA	ADD, DELETE, INFO

```
CHECKPOINTTABLE  ADD, DELETE, CLEANUP, INFO
```

```
Commands without an object:
```

```
(Database)      DBLOGIN, LIST TABLES, ENCRYPT PASSWORD, FLUSH SEQUENCE  
                MININGDBLOGIN
```

```
(DDL)           DUMPDDL
```

```
(Miscellaneous) FC, HELP, HISTORY, INFO ALL, OBEY, SET EDITOR, SHELL,  
                SHOW, VERSIONS, ! (note: you must type the word  
                COMMAND after the ! to display the ! help topic.)  
                i.e.: GGSCI (sys1)> help ! command
```

```
For help on a specific command, type HELP <command> <object>.
```

```
Example: HELP ADD REPLICAT
```

```
GGSCI (rhel6_lhr) 3>
```

1.6 总结

OGG 的安装相对于 ORACLE 的安装来说是非常简单的，其实也就是配置环境变量，然后解压一下，最后创建目录即可。

1.7 About Me

本文作者：小麦苗，只专注于数据库的技术，更注重技术的运用

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