<http://blog.csdn.net/tianlesoftware/article/details/5349003>

一 stop  
 1 stop application

stop listener

3 ps -ef | grep "LOCAL=NO"| awk '{print "kill -9 " $2}'

2 make checkpoint  
 alter system switch logfile;  
 alter system switch logfile;  
 alter system switch logfile;  
 alter system checkpoint  
  
  
 4 file  
 show parameter spfile;  
 create pfile='/home/oracle/initSID20150415.ora' from spfile;  
 show parameter control  
 backup current controlfile format '/home/oracle/ctl20150423.ctl';  
  
 note: asm info!!!  
 select file\_name from dba\_data\_files;

select \* from v$recover\_file;  
  
 先决条件检查(仅仅针对aix)：  
  
 select path from v$asm\_disk;  
  
 查询出asm磁盘组所使用的pv，  
 使用lspv 命令查看相关pv的pvid是否有，若是存在pvid，禁止停止asm实例，否则asm实例将启动不了。  
  
 5 stop cluster  
 emctl stop dbconsole  
 srvctl stop listener  
 srvctl stop database -d raw -o immediate  
 srvctl stop asm -n raw1 -o immediate??  
 srvctl stop asm -n raw2  
 srvctl stop nodeapps -n raw1  
 srvctl stop nodeapps -n raw2  
  
 crsctl stop crs -n  
 crsctl stop crs -n  
 ps -ef|grep crs  
  
 注意点： 需要停止cluster 后再去停止hacmp or 第三方软件  
  
 6 stop mcsg  
 cmviewcl  
  
 7 stop storage   
  
  
 ====================================================================  
 二 start  
  
 1 start storage  
  
 2 start mcsg  
 cmviewcl  
  
 3 automatic start(default)  
 manual      
  
 crsctl start crs -n  
 crsctl start crs -n  
  
  
 srvctl start nodeapps -n raw1  
 srvctl start nodeapps -n raw2  
 srvctl start asm -n raw1  
 srvctl start asm -n raw2  
 srvctl start instance -d raw -i raw2  
 srvctl start instance -d orcl -i raw1  
 srvctl start listener  
 emctl start dbconsole  
                  
  
 srvctl start database -d orcl  
 srvctl stop database -d orcl   -o immediate  
  
 =========================================================  
 dataguard not stop

注：CRS Resource 包括GSD(Global Serveice Daemon),ONS(Oracle Notification Service),VIP, Database, Instance 和 Service. 这些资源被分成2类：

GSD，ONS,VIP 和 Listener 属于Noteapps类

Database，Instance 和Service 属于 Database-Related Resource 类。

**在启动的过程中最好检测着crs、ASM和数据库的日志：**

crs日志：

[oracle@rac1 ~]$ tail -f /u01/app/oracle/product/10.2.0/crs\_1/log/rac1/alertrac1.log

[oracle@rac2 ~]$ tail -f /u01/app/oracle/product/10.2.0/crs\_1/log/rac2/alertrac2.log

ASM日志：

[oracle@rac1 ~]$ tail -f /u01/app/oracle/admin/+ASM/bdump/alert\_+ASM1.log

[oracle@rac2 ~]$ tail -f /u01/app/oracle/admin/+ASM/bdump/alert\_+ASM2.log

数据库日志：

[oracle@rac1 ~]$ tail -f /u01/app/oracle/admin/ora9i/bdump/alert\_ora9i1.log

[oracle@rac2 ~]$ tail -f /u01/app/oracle/admin/ora9i/bdump/alert\_ora9i2.log

注：**tail -f**命令可用于监视另一个进程正在写入的文件的增长。

**注意：**

**有这么一种可能，即使杀掉了所有的应用进程，数据库还是无法关闭，我们可能看到：**

Thu Apr 17 18:21:13 2014

Shutting down instance (immediate)

License high water mark = 499

Thu Apr 17 18:21:13 2014

Stopping Job queue slave processes, flags = 7

Thu Apr 17 18:21:13 2014

Job queue slave processes stopped

Waiting for dispatcher 'D000' to shutdown

All dispatchers and shared servers shutdown

Thu Apr 17 18:21:19 2014

ALTER DATABASE CLOSE NORMAL

Thu Apr 17 18:21:21 2014

SMON: disabling tx recovery

Thu Apr 17 18:25:17 2014

Thread 1 advanced to log sequence 217749 (LGWR switch)

  Current log# 1 seq# 217749 mem# 0: +DGSYSTEM/dfkzyk/onlinelog/group\_1.257.709402229

  Current log# 1 seq# 217749 mem# 1: +DGRECOVER/dfkzyk/onlinelog/group\_1.257.709402231

Thu Apr 17 18:26:18 2014

Shutting down instance (abort)

此时停库的时候， SMON process 正在清理不再需要的extents，把他们标记为 free

主要是和临时段大小有关系。

数据库的临时表空间较多，且有的表空间很大。

这个时候，可以采用 shutdown abort的方式关闭数据库，这个时候不是干净的关闭。在下一次 startup的时候，数据库会接着清理。

参考 oracle support 文章

**Shutdown Normal or Shutdown Immediate Hangs. SMON disabling TX Recovery (Doc ID 1076161.6)**

**==============================================**

配置了Dataguard对RAC 重启没有什么特殊要求，正常重启就行，Dataguard会自动解决GAP。  
  
 # crsctl stop crs  
 # crsctl start crs  
  
 如果Dataguard没有自动解决GAP，可以手工解决GAP  
 <http://docs.oracle.com/cd/E11882_01/server.112/e41134/log_transport.htm#BABIDDDC> 6.4.3.1 Manual Gap Resolution  
  
 实在不行可以重启日志应用的进程例如：  
  
 <http://docs.oracle.com/cd/E11882_01/server.112/e41134/log_apply.htm#SBYDB00530> To stop Redo Apply, issue the following SQL statement:  
  
 SQL> ALTER DATABASE RECOVER MANAGED STANDBY DATABASE CANCEL;  
  
  
 To start Redo Apply in the background, include the DISCONNECT keyword on the SQL statement. For example:  
  
 SQL> ALTER DATABASE RECOVER MANAGED STANDBY DATABASE DISCONNECT;