【DBCA -SILENT】静默安装之 rac 数据库安装

BLOG 文档结构图

【DBCA -SILENT】静默安装之 rac 数据库安装

一、方法一:利用模板文件来创建

二、方法二:编辑响应文件

三、删除新建的 rac 库

之前的相关文章连接:

DBCA 静默方式建库: http://blog.itpub.net/26736162/viewspace-1448220/

【DBCA -SILENT】静默安装如何启用归档模式: http://blog.itpub.net/26736162/viewspace-1585925/

之前的文章中介绍了单实例的数据库静默安装方式,今天我们来看看 rac 数据库的静默安装方式。

查看集群环境是否准备好:

[root@node2 ~]# crsctl check cluster -all

node1:

CRS-4537: Cluster Ready Services is online

CRS-4529: Cluster Synchronization Services is online

CRS-4533: Event Manager is online

node2:

CRS-4537: Cluster Ready Services is online

CRS-4529: Cluster Synchronization Services is online

CRS-4533: Event Manager is online

[root@node2 ~]#

查看磁盘组空间:

SQL> select name, state, free_mb, required_mirror_free_mb, usable_file_mb, a.group_number from v\$asm_diskgroup a;

NAME	STATE	FREE_MB	REQUIRED_MIRROR_FREE_MB	USABLE_FILE_MB	GROUP_NUMBER
ARCH	MOUNTED	9142	0	9142	1
DATA	MOUNTED	18242	0	18242	2
OVDISK	MOUNTED	2703	0	2703	3
TEST	MOUNTED	929	0	929	4

查看节点列表:

[root@node2 ~]# olsnodes

```
node1
node2
[root@node2 ~]#
```

修改 General Purpose.dbc 文件, 让生成的 rac 库在归档模式:

确保以上集群环境已经搭建好后,开始创建 rac 数据库,当然有 2 种方式可以搭建,个人觉得 2 种方式都挺方便的,下边我们分别介绍:

一、 方法一: 利用模板文件来创建

```
sid: jmrac
文件磁盘组: data
闪回恢复区: arch
节点: node1, node2
```

Copying database files

DBCA_PROGRESS : 30%

[oracle@node1 dbca] dbca -silent -createDatabase -templateName General_Purpose.dbc -gdbname jmrac -sid jmrac -sysPassword lhr -systemPassword lhr -datafileDestination 'DATA/' -redoLogFileSize 50 -recoveryAreaDestination 'ARCH/' -storageType ASM -asmsnmpPassword lhr -diskGroupName 'DATA' -responseFile NO_VALUE -characterset ZHS16GBK -nationalCharacterSet AL16UTF16 -sampleSchema true -automaticMemoryManagement true -totalMemory 500 -nodeinfo node1, node2

```
1% complete
3% complete
9% complete
15% complete
21% complete
27% complete
30% complete
Creating and starting Oracle instance
32% complete
36% complete
40% complete
44% complete
45% complete
48% complete
50% complete
Creating cluster database views
52% complete
70% complete
Completing Database Creation
73% complete
76% complete
85% complete
94% complete
100% complete
Look at the log file "/u01/app/oracle/cfgtoollogs/dbca/jmrac/jmrac.log" for further details.
[oracle@nodel jmrac] $ more /u01/app/oracle/cfgtoollogs/dbca/jmrac/jmrac.log
Copying database files
DBCA PROGRESS: 1%
DBCA_PROGRESS : 3%
DBCA_PROGRESS : 9%
DBCA PROGRESS : 15%
DBCA_PROGRESS : 21%
DBCA PROGRESS : 27%
```

```
Creating and starting Oracle instance
DBCA_PROGRESS : 32%
DBCA_PROGRESS : 36%
DBCA_PROGRESS : 40%
DBCA_PROGRESS : 44%
DBCA_PROGRESS : 45%
DBCA_PROGRESS : 48%
DBCA PROGRESS : 50%
Creating cluster database views
DBCA PROGRESS : 52%
DBCA PROGRESS: 70%
Completing Database Creation
DBCA PROGRESS: 73%
DBCA PROGRESS: 76%
DBCA PROGRESS: 85%
DBCA_PROGRESS : 94%
DBCA PROGRESS: 100%
Database creation complete. For details check the logfiles at:
/u01/app/oracle/cfgtoollogs/dbca/jmrac.
Database Information:
Global Database Name: jmrac
System Identifier(SID) Prefix:jmrac
[oracle@nodel jmrac]$
[oracle@node1 jmrac] $ ORACLE_SID=jmrac1
[oracle@node1 jmrac]$ sqlplus / as sysdba
SQL*Plus: Release 11.2.0.1.0 Production on Sun Apr 19 22:00:18 2015
Copyright (c) 1982, 2009, Oracle. All rights reserved.
Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production
With the Partitioning, Real Application Clusters, Automatic Storage Management, OLAP,
Data Mining and Real Application Testing options
SQL> archive log list;
                               Archive Mode
Database log mode
Automatic archival
                              Enabled
Archive destination
                              USE DB RECOVERY FILE DEST
Oldest online log sequence
Next log sequence to archive
                              5
Current log sequence
SQL>
SQL> set line 9999
SQL> col HOST NAME format al0
SQL> select INSTANCE NAME, HOST NAME, VERSION, STARTUP TIME, STATUS, ACTIVE STATE, INSTANCE ROLE, DATABASE STATUS from gv$INSTANCE;
INSTANCE NAME
                HOST_NAME VERSION
                                             STARTUP_T STATUS
                                                                    ACTIVE_ST INSTANCE_ROLE
                                                                                                 DATABASE STATUS
                                             19-APR-15 OPEN
                                                                    NORMAL
                                                                              PRIMARY INSTANCE ACTIVE
imrac1
                node1
                           11. 2. 0. 1. 0
                           11. 2. 0. 1. 0
                                             19-APR-15 OPEN
                                                                    NORMAL
                                                                              PRIMARY INSTANCE ACTIVE
jmrac2
                node2
SQL> select INST_ID, name , open_mode, log_mode, force_logging from gv$database;
  INST ID NAME
                    OPEN MODE
                                         LOG MODE
                                                      FOR
                                         ARCHIVELOG NO
         1 JMRAC
                    READ WRITE
        2 JMRAC
                    READ WRITE
                                         ARCHIVELOG NO
SQL> show parameter DB_RECOVERY_FILE_DEST
NAME
                                    TYPE
                                                VALUE
db_recovery_file_dest
                                                +ARCH
```

string

```
db_recovery_file_dest_size big integer 3882M SQL>
```

---查看 tns 和 listener 信息

```
[oracle@node1 dbca] $ cd /u01/app/oracle/product/11.2.0/dbhome_1/network/admin/
[oracle@nodel admin]$ 11
total 12
drwxr-xr-x 2 oracle oinstall 4096 Feb 27 2012 samples
-rw-r--r-- 1 oracle oinstall 187 May 7 2007 shrept.lst
-rw-r---- 1 oracle oinstall 685 Apr 19 22:13 tnsnames.ora
[oracle@nodel admin]$ more thsnames.ora
# tnsnames.ora Network Configuration File: /u01/app/oracle/product/11.2.0/dbhome_1/network/admin/tnsnames.ora
# Generated by Oracle configuration tools.
  (DESCRIPTION =
   (ADDRESS = (PROTOCOL = TCP) (HOST = cluster-SCAN) (PORT = 1521))
   (CONNECT_DATA =
  (SERVER = DEDICATED)
     (SERVICE_NAME = jmrac)
[oracle@nodel dbca]$ srvctl status listener
Listener LISTENER is enabled
Listener LISTENER is running on node(s): node1, node2
[oracle@node1 dbca]$
```

说明 tns 已经自动添加,监听也已经启动

查看 rac 服务:

直有 Tac 加x	2 ~]# crsctl status r		
	z j# crsctr status r 	esource -t 	
NAME	TARGET STATE	SERVER	STATE_DETAILS
Local Resou	ırces 		
ora. ARCH. dg	ŗ		
	ONLINE ONLINE	node1	
	ONLINE ONLINE	node2	
ora. DATA. dg			
	ONLINE ONLINE	node1	
L TOTEME	ONLINE ONLINE	node2	
ora.LISTENE	ONLINE ONLINE	nada1	
	ONLINE ONLINE ONLINE	node1 node2	
ora. OVDISK.		nouc2	
	ONLINE ONLINE	node1	
	ONLINE ONLINE	node2	
ora. TEST. dg			
	ONLINE ONLINE	node1	
	ONLINE ONLINE	node2	
ora.asm	ONLINE ONLINE	node1	Started
	ONLINE ONLINE ONLINE	node2	Started
ora. eons	ONBINE ONBINE	noucl	Star toa
	ONLINE ONLINE	node1	
	ONLINE ONLINE	node2	
ora. gsd			
	OFFLINE OFFLINE	node1	
	OFFLINE OFFLINE	node2	
ora. net1. ne	ONLINE ONLINE	node1	
	ONLINE ONLINE	nouer	

```
ONLINE ONLINE
                                   node2
ora. ons
              ONLINE ONLINE
                                   node1
              ONLINE ONLINE
                                   node2
ora.registry.acfs
              ONLINE ONLINE
                                   node1
              ONLINE ONLINE
                                   node2
Cluster Resources
ora.LISTENER SCAN1.lsnr
              ONLINE ONLINE
                                   node1
     1
ora. db. db
     1
              OFFLINE OFFLINE
                                                             Instance Shutdown
     2
              OFFLINE OFFLINE
                                                            Instance Shutdown
ora. jmrac. dl
               ONLINE ONLINE
                                   node1
                                                            Open
               ONLINE ONLINE
                                   node2
                                                            0pen
ora.nodel.vip
              ONLINE ONLINE
  1
                                   node1
ora.node2.vip
  1
              ONLINE ONLINE
                                   node2
ora.oc4j
              OFFLINE OFFLINE
    1
ora.scanl.vip
              ONLINE ONLINE
                                   node1
     1
[root@node2 ~]# crs stat -t
                             Target
Name
              Type
                                       State
                                                 Host
ora. ARCH. dg
              ora....up. type ONLINE
                                       ONLINE
                                                 node1
ora. DATA. dg ora....up. type ONLINE
                                                 node1
ora....ER.lsnr ora....er.type ONLINE
                                       ONLINE
                                                 node1
ora....N1.1snr ora....er.type ONLINE
                                       ONLINE
                                                 node1
ora. OVDISK.dg ora....up.type ONLINE
                                       ONLINE
                                                 node1
ora. TEST. dg ora....up. type ONLINE
                                       ONLINE
                                                 node1
              ora.asm.type ONLINE
ora.asm
                                       ONLINE
                                                 node1
              ora....se.type OFFLINE
                                       OFFLINE
ora. db. db
              ora.eons.type ONLINE
ora. eons
                                       ONLINE
                                                 node1
              ora.gsd.type OFFLINE
                                       OFFLINE
ora.gsd
ora. jmrac.db ora...se.type ONLINE ora...network ora...rk.type ONLINE
                                       ONLINE
                                                 node1
ora.... SM1. asm application ONLINE
                                       ONLINE
                                                 node1
ora....El.lsnr application
                             ONLINE
                                       ONLINE
                                                 node1
ora. nodel. gsd application
                             OFFLINE
                                       OFFLINE
ora. nodel. ons application
                             ONLINE
                                       ONLINE
                                                 node1
ora.nodel.vip ora....tl.type ONLINE
                                       ONLINE
                                                 node1
ora....SM2.asm application ONLINE
                                       ONLINE
                                                 node2
ora....E2.lsnr application
                             ONLINE
                                       ONLINE
                                                 node2
ora.node2.gsd application
                             OFFLINE
                                       OFFLINE
ora.node2.ons application ONLINE
                                       ONLINE
                                                 node2
ora.node2.vip ora....t1.type ONLINE
                                       ONLINE
                                                 node2
              ora.oc4j.type OFFLINE
ora.oc4j
                                       OFFLINE
              ora.ons.type ONLINE
                                       ONLINE
                                                 node1
ora. ons
ora....ry.acfs ora....fs.type ONLINE
                                       ONLINE
                                                 node1
ora.scanl.vip ora....ip.type ONLINE
                                       ONLINE
                                                 node1
[root@node2 ~]# srvctl status database -d jmrac
Instance jmracl is running on node nodel
Instance jmrac2 is running on node node2
[root@node2 ~]# srvctl config database -d jmrac
Database unique name: jmrac
Database name: jmrac
Oracle home: /u01/app/oracle/product/11.2.0/dbhome_1
Oracle user: oracle
Spfile: +DATA/jmrac/spfilejmrac.ora
Domain:
```

```
Start options: open
Stop options: immediate
Database role: PRIMARY
Management policy: AUTOMATIC
Server pools: jmrac
Database instances: jmrac1, jmrac2
Disk Groups: DATA
Services:
Database is administrator managed
[root@node2 ~]#
```

二、 方法二: 编辑响应文件

添加文件\$ORACLE_HOME/assistants/dbca/dbca_rac.rsp,内容如下:

```
[oracle@nodel dbca]$ more $ORACLE_HOME/assistants/dbca/dbca_rac.rsp
[GENERAL]
RESPONSEFILE_VERSION = "11.2.0"
OPERATION_TYPE = "createDatabase"
[CREATEDATABASE]
GDBNAME = "myrac"
SID = "myrac"
NODELIST=node1, node2
TEMPLATENAME = "General_Purpose.dbc"
SYSPASSWORD = "1hr"
SYSTEMPASSWORD = "1hr"
SYSMANPASSWORD = "1hr"
DBSNMPPASSWORD = "1hr"
STORAGETYPE=ASM
DISKGROUPNAME=DATA
ASMSNMP_PASSWORD="1hr"
RECOVERYGROUPNAME=ARCH
CHARACTERSET = "ZHS16GBK"
NATIONALCHARACTERSET= "UTF8"
```

利用响应文件来创建 rac 库:

94% complete

```
[oracle@node1 dbca]$ dbca -silent -responseFile $ORACLE_HOME/assistants/dbca/dbca_rac.rsp
Copying database files
1% complete
3% complete
9% complete
15% complete
21% complete
27% complete
30% complete
Creating and starting Oracle instance
32% complete
36% complete
40% complete
44% complete
45% complete
48% complete
50% complete
Creating cluster database views
52% complete
70% complete
Completing Database Creation
73% complete
76% complete
85% complete
```

100% complete

Look at the log file "/u01/app/oracle/cfgtoollogs/dbca/myrac/myrac.log" for further details.

```
[oracle@nodel dbca]$ more /u01/app/oracle/cfgtoollogs/dbca/myrac/myrac.log
Copying database files
DBCA_PROGRESS : 1%
DBCA_PROGRESS : 3%
DBCA_PROGRESS : 9%
DBCA_PROGRESS : 15%
DBCA PROGRESS : 21%
DBCA PROGRESS : 27%
DBCA PROGRESS: 30%
Creating and starting Oracle instance
DBCA PROGRESS: 32%
DBCA PROGRESS: 36%
DBCA PROGRESS: 40%
DBCA_PROGRESS : 44%
DBCA PROGRESS: 45%
DBCA PROGRESS: 48%
DBCA_PROGRESS : 50%
Creating cluster database views
DBCA PROGRESS : 52%
DBCA PROGRESS: 70%
Completing Database Creation
DBCA PROGRESS: 73%
DBCA PROGRESS: 76%
DBCA PROGRESS: 85%
DBCA PROGRESS: 94%
DBCA PROGRESS: 100%
Database creation complete. For details check the logfiles at:
/u01/app/oracle/cfgtoollogs/dbca/myrac.
Database Information:
Global Database Name:myrac
System Identifier(SID) Prefix:myrac
[oracle@node1 dbca] $ ORACLE_SID=myrac1
[oracle@nodel admin]$ sqlplus / as sysdba
SQL*Plus: Release 11.2.0.1.0 Production on Sun Apr 19 22:37:08 2015
Copyright (c) 1982, 2009, Oracle. All rights reserved.
Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production
With the Partitioning, Real Application Clusters, Automatic Storage Management, OLAP,
Data Mining and Real Application Testing options
SQL> set line 9999
SQL> col HOST NAME format alo
SQL> select INSTANCE NAME, HOST NAME, VERSION, STARTUP TIME, STATUS, ACTIVE STATE, INSTANCE ROLE, DATABASE STATUS from gv$INSTANCE;
INSTANCE NAME
                HOST NAME VERSION
                                             STARTUP_T STATUS
                                                                    ACTIVE_ST INSTANCE_ROLE
                                                                                                 DATABASE STATUS
                node1
                           11. 2. 0. 1. 0
                                             19-APR-15 OPEN
                                                                    NORMAL
                                                                              PRIMARY INSTANCE ACTIVE
myrac1
                           11. 2. 0. 1. 0
                                             19-APR-15 OPEN
                                                                    NORMAL
                                                                              PRIMARY INSTANCE ACTIVE
myrac2
                node2
SQL> select INST_ID, name , open_mode, log_mode, force_logging from gv$database;
  INST ID NAME
                    OPEN MODE
                                         LOG MODE
                                                      FOR
                                         ARCHIVELOG NO
         1 MYRAC
                    READ WRITE
        2 MYRAC
                    READ WRITE
                                         ARCHIVELOG NO
SQL>
```

三、 删除新建的 rac 库

```
[oracle@nodel dbca]$ dbca -silent -deleteDatabase -sourceDB myrac -sysDBAUserName sys -sysDBAPassword lhr
Connecting to database
9% complete
14% complete
23% complete
23% complete
23% complete
33% complete
38% complete
47% complete
Updating network configuration files
48% complete
52% complete
52% complete
52% complete
66% complete
80% complete
95% complete
100% complete
```

.....

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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