

直接通过 **rman** 的 **restore** 命令来尝试判断备份集中是否含有控制文件的备份

相关文章链接：

【RMAN】利用备份片还原数据库(上)：<http://blog.itpub.net/26736162/viewspace-1621581/>

【RMAN】利用备份片还原数据库(中)：<http://blog.itpub.net/26736162/viewspace-1621661/>

【RMAN】利用备份片还原数据库(下)：<http://blog.itpub.net/26736162/viewspace-1621672/>

前边的 3 篇 blog 中介绍了，在只剩下一些备份片的情况下如何从这些仅剩的备份片中判断是否有控制文件的备份并还原整个数据库，我们介绍了 2 种① 推荐：采用 `dbms_backup_restore.restoreControlfileTo` 从备份片中来尝试找回控制文件 ② 尝试采用创建临时库来找回控制文件 ③ 采用操作系统命令的 `strings` 来判断（私聊），今天我们来看看如何直接通过 `rman` 的 `restore` 命令来尝试判断备份集中是否含有控制文件的备份，这也是一种推荐的方法。

假设，现在我们只有下边的 4 个备份片段，不知道 `dbid` 和 `db_name`，如果 `db_name` 不知道的话，可以任意指定一个实例名，然后尝试从 `rman` 来启动到 `nomount`，这个时候会启动默认的 `DUMMY` 数据库，然后从各个备份集中来尝试恢复控制文件，如果控制文件不在备份集中那么就只能重建控制文件了，参考 <http://blog.itpub.net/26736162/viewspace-1621672/>

```
[oracle@orcltest ~]$ cd /tmp/2015_05_02/
[oracle@orcltest 2015_05_02]$ ll
total 1161972
-rw-r----- 1 oracle oinstall 10125312 May  4 14:23 01q63iof_1_1
-rw-r----- 1 oracle oinstall 31271424 May  2 15:49 ol_mf_annnn_TAG20150502T154402_bn9022tb_.bkp
-rw-r----- 1 oracle oinstall 4096 May  2 15:49 ol_mf_annnn_TAG20150502T154451_bn903mln_.bkp
-rw-r----- 1 oracle oinstall 1148452864 May  2 15:49 ol_mf_nnndf_TAG20150502T154404_bn9025w1_.bkp
[oracle@orcltest 2015_05_02]$
[oracle@orcltest ~]$ ORACLE_SID=TEST
[oracle@orcltest ~]$ rman target /
```

Recovery Manager: Release 11.2.0.1.0 - Production on Mon May 4 14:27:00 2015

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connected to target database (not started)

RMAN> startup nomount;

startup failed: ORA-01078: failure in processing system parameters

LRM-00109: could not open parameter file '/u01/app/oracle/product/11.2.0/dbhome_1/dbs/initTEST.ora'

starting Oracle instance without parameter file for retrieval of spfile

Oracle instance started

Total System Global Area 158662656 bytes

Fixed Size 2211448 bytes

Variable Size 92275080 bytes

Database Buffers 58720256 bytes

Redo Buffers 5455872 bytes

RMAN> restore controlfile from '/tmp/2015_05_02/ol_mf_annnn_TAG20150502T154402_bn9022tb_.bkp';

Starting restore at 2015-05-04 14:28:03

using target database control file instead of recovery catalog

allocated channel: ORA_DISK_1

channel ORA_DISK_1: SID=87 device type=DISK

channel ORA_DISK_1: restoring control file

RMAN-00571: =====

RMAN-00569: ===== ERROR MESSAGE STACK FOLLOWS =====

RMAN-00571: =====

RMAN-03002: failure of restore command at 05/04/2015 14:28:04

ORA-19870: error while restoring backup piece /tmp/2015_05_02/ol_mf_annnn_TAG20150502T154402_bn9022tb_.bkp

ORA-19626: backup set type is archived log - can not be processed by this conversation

RMAN> restore controlfile from '/tmp/2015_05_02/ol_mf_annnn_TAG20150502T154451_bn903mln_.bkp';

Starting restore at 2015-05-04 14:28:20

using channel ORA_DISK_1

channel ORA_DISK_1: restoring control file

RMAN-00571: =====

RMAN-00569: ===== ERROR MESSAGE STACK FOLLOWS =====

RMAN-00571: =====

RMAN-03002: failure of restore command at 05/04/2015 14:28:20

ORA-19870: error while restoring backup piece /tmp/2015_05_02/ol_mf_annnn_TAG20150502T154451_bn903mln_.bkp

ORA-19626: backup set type is archived log - can not be processed by this conversation

RMAN> restore controlfile from '/tmp/2015_05_02/ol_mf_nnndf_TAG20150502T154404_bn9025w1_.bkp';

Starting restore at 2015-05-04 14:28:33

using channel ORA_DISK_1

channel ORA_DISK_1: restoring control file

RMAN-00571: =====

RMAN-00569: ===== ERROR MESSAGE STACK FOLLOWS =====

RMAN-00571: =====

RMAN-03002: failure of restore command at 05/04/2015 14:28:34

ORA-19697: standby control file not found in backup set

RMAN> restore controlfile from '/tmp/2015_05_02/olq63iof_1_1';

Starting restore at 2015-05-04 14:28:59

using channel ORA_DISK_1

channel ORA_DISK_1: restoring control file

channel ORA_DISK_1: restore complete, elapsed time: 00:00:01

output file name=/u01/app/oracle/product/11.2.0/dbhome_1/dbs/cntrlTEST.dbf

Finished restore at 2015-05-04 14:29:00

```
RMAN> alter database mount;
```

```
using target database control file instead of recovery catalog
```

```
RMAN-00571: =====
```

```
RMAN-00569: ===== ERROR MESSAGE STACK FOLLOWS =====
```

```
RMAN-00571: =====
```

```
RMAN-03002: failure of alter db command at 05/04/2015 14:44:38
```

```
ORA-01103: database name 'ORAI1G' in control file is not 'DUMMY'
```

```
RMAN> exit
```

Recovery Manager complete.

```
[oracle@orcltest ~]$
```

```
[oracle@orcltest ~]$ rman target /
```

Recovery Manager: Release 11.2.0.1.0 - Production on Mon May 4 14:44:21 2015

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connected to target database: **DUMMY** (not mounted)

```
RMAN> exit
```

Recovery Manager complete.

```
[oracle@orcltest ~]$ ps -ef|grep ora_
```

```
oracle 25153 1 0 14:27 ? 00:00:00 ora_pmon_TEST
```

```
oracle 25155 1 0 14:27 ? 00:00:00 ora_vktm_TEST
```

```
oracle 25159 1 0 14:27 ? 00:00:00 ora_gen0_TEST
```

```
oracle 25161 1 0 14:27 ? 00:00:00 ora_diag_TEST
```

```
oracle 25163 1 0 14:27 ? 00:00:00 ora_dbrm_TEST
```

```
oracle 25165 1 0 14:27 ? 00:00:00 ora_psp0_TEST
```

```
oracle 25167 1 0 14:27 ? 00:00:00 ora_dia0_TEST
```

```
oracle 25169 1 0 14:27 ? 00:00:00 ora_mman_TEST
```

```
oracle 25171 1 0 14:27 ? 00:00:00 ora_dbw0_TEST
```

```
oracle 25173 1 0 14:27 ? 00:00:00 ora_lgwr_TEST
```

```
oracle 25175 1 0 14:27 ? 00:00:00 ora_ckpt_TEST
```

```
oracle 25177 1 0 14:27 ? 00:00:00 ora_smon_TEST
```

```
oracle 25179 1 0 14:27 ? 00:00:00 ora_reco_TEST
```

```
oracle 25181 1 0 14:27 ? 00:00:00 ora_mmon_TEST
```

```
oracle 25183 1 0 14:27 ? 00:00:00 ora_mmmn1_TEST
```

```
oracle 25255 25216 0 14:46 pts/3 00:00:00 grep ora_
```

```
[oracle@orcltest ~]$
```

尝试的过程中可以看到，能识别出是不是归档文件的备份集，是不是数据文件的备份集，最后 mount 的时候还可以识别出控制文件中记录的 db_name，如果包含控制文件的话，就可以直接来恢复控制文件了，控制文件恢复了其他恢复都很简单了。

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