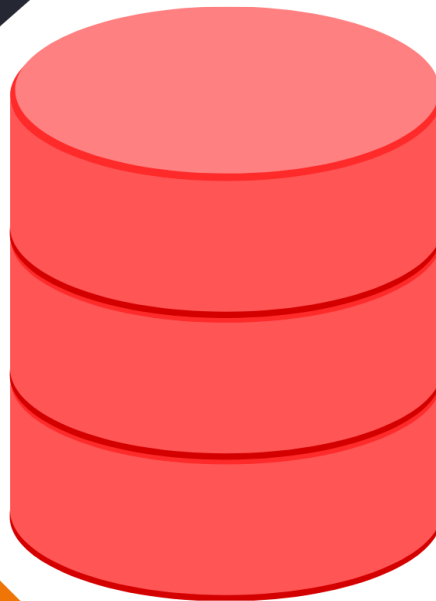


ORACLE 19C ADMINISTRATOR

ON LINUX

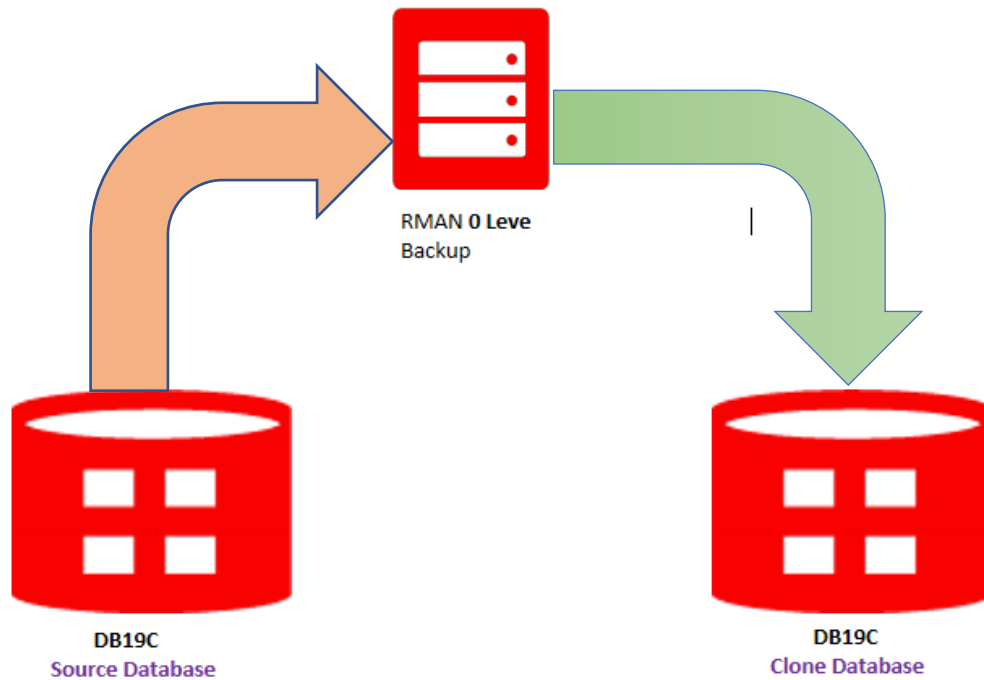


RAVINDRA MALWAL

Topic: Clone database using RMAN 0 level backup 19c

In this section we are going to clone database using RMAN ZERO level backup. To create clone database using RMAN backup on target database, we need database software installed on target database.

Deployment Diagram:



Target and source Node Details

Component details	Source Database	Target Database
Host Name	DB19C.example.com	node1.example.com
ORACLE_HOME	/u01/app/oracle/product/19.0.0.0/db_1	/u01/app/oracle/product/19.0.0.0/db_1
Database Name	DB19C	DB19C
Data File Location	/u01/app/oracle/oradata/DB19C	/u01/app/oracle/oradata/DB19C
Archive location	/u01/Archive	/u01/Archive

In this QuickStart, we learn how to:

- Take 0 level backup of source database
- Create same backup location on target database server and transfer all backup file to same location
- Restore spfile from Backup and create pfile from spfile
- Create structure on target database same as source database using pfile
- Restore Control file, database using RMAN (on target database)
- Validation

Step-1 Take 0 level backup of source database

Database Details

```
SQL> set lines 300
SQL> col NAME for a15
SQL> select con_id, name from v$containers;

  CON_ID NAME
-----
1 CDB$ROOT
2 PDB$SEED
3 PDB
SQL> █
```

Archive location details

```
SQL> archive log list;
Database log mode                Archive Mode
Automatic archival               Enabled
Archive destination              /u01/Archive
Oldest online log sequence       6
Next log sequence to archive     8
Current log sequence             8
SQL> █
```

Create Backup Directory

```
[oracle@DB19C ~]$ mkdir /u01/Archive/backup/
```

Connect target database using RMAN

```
[oracle@DB19C ~]$ rman target /

Recovery Manager: Release 19.0.0.0.0 - Production on Thu Sep 2 23:47:46 2021
Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle and/or its affiliates. All rights reserved.

connected to target database: DB19C (DBID=2210260888)

RMAN> █
```

RMAN> RUN

```
{  
configure controlfile autobackup on;  
set command id to 'DB19OnlineBackupFull';  
ALLOCATE CHANNEL c1 DEVICE TYPE disk;  
ALLOCATE CHANNEL c2 DEVICE TYPE disk;  
backup AS COMPRESSED BACKUPSET full database tag ORCL_FULL format  
'/u01/Archive/backup/%d_%T_%s_%p_FULL' ;  
sql 'alter system archive log current';  
backup tag ORCL_ARCHIVE format  
'/u01/Archive/backup/%d_%T_%s_%p_ARCHIVE' archivelog all delete all  
input ;  
backup tag ORCL_CONTROL current controlfile format  
'/u01/Archive/backup/%d_%T_%s_%p_CONTROL';  
backup tag spfile_pfile spfile format  
'/u01/Archive/backup/%d_%T_%s_%p_spfile';  
release channel c1;  
release channel c2;  
}
```

using target database control file instead of recovery catalog

new RMAN configuration parameters:

CONFIGURE CONTROLFILE AUTOBACKUP ON;

new RMAN configuration parameters are successfully stored

executing command: SET COMMAND ID

allocated channel: c1

channel c1: SID=65 device type=DISK

allocated channel: c2

channel c2: SID=108 device type=DISK

Starting backup at 02-SEP-21

channel c1: starting compressed full datafile backup set

channel c1: specifying datafile(s) in backup set

input datafile file number=00001 name=/u01/app/oracle/oradata/DB19C/system01.dbf

input datafile file number=00007 name=/u01/app/oracle/oradata/DB19C/users01.dbf

channel c1: starting piece 1 at 02-SEP-21

channel c2: starting compressed full datafile backup set

channel c2: specifying datafile(s) in backup set

input datafile file number=00003 name=/u01/app/oracle/oradata/DB19C/sysaux01.dbf

input datafile file number=00004 name=/u01/app/oracle/oradata/DB19C/undotbs01.dbf

channel c2: starting piece 1 at 02-SEP-21

channel c1: finished piece 1 at 02-SEP-21

piece handle=/u01/Archive/backup/DB19C_20210902_2_1_FULL tag=ORCL_FULL comment=NONE

channel c1: backup set complete, elapsed time: 00:00:35

channel c1: starting compressed full datafile backup set

channel c1: specifying datafile(s) in backup set

input datafile file number=00010 name=/u01/app/oracle/oradata/DB19C/pdb/sysaux01.dbf

input datafile file number=00011 name=/u01/app/oracle/oradata/DB19C/pdb/undotbs01.dbf

channel c1: starting piece 1 at 02-SEP-21

channel c2: finished piece 1 at 02-SEP-21

piece handle=/u01/Archive/backup/DB19C_20210902_3_1_FULL tag=ORCL_FULL comment=NONE

channel c2: backup set complete, elapsed time: 00:00:35

channel c2: starting compressed full datafile backup set

channel c2: specifying datafile(s) in backup set

input datafile file number=00005 name=/u01/app/oracle/oradata/DB19C/pdbseed/system01.dbf

input datafile file number=00008 name=/u01/app/oracle/oradata/DB19C/pdbseed/undotbs01.dbf

channel c2: starting piece 1 at 02-SEP-21

channel c1: finished piece 1 at 02-SEP-21

piece handle=/u01/Archive/backup/DB19C_20210902_4_1_FULL tag=ORCL_FULL comment=NONE

channel c1: backup set complete, elapsed time: 00:00:15

channel c1: starting compressed full datafile backup set

channel c1: specifying datafile(s) in backup set

input datafile file number=00006 name=/u01/app/oracle/oradata/DB19C/pdbseed/sysaux01.dbf

channel c1: starting piece 1 at 02-SEP-21

channel c2: finished piece 1 at 02-SEP-21

piece handle=/u01/Archive/backup/DB19C_20210902_5_1_FULL tag=ORCL_FULL comment=NONE

channel c2: backup set complete, elapsed time: 00:00:15

channel c2: starting compressed full datafile backup set

channel c2: specifying datafile(s) in backup set

input datafile file number=00009 name=/u01/app/oracle/oradata/DB19C/pdb/system01.dbf

input datafile file number=00012 name=/u01/app/oracle/oradata/DB19C/pdb/users01.dbf

channel c2: starting piece 1 at 02-SEP-21

channel c1: finished piece 1 at 02-SEP-21

piece handle=/u01/Archive/backup/DB19C_20210902_6_1_FULL tag=ORCL_FULL comment=NONE

channel c1: backup set complete, elapsed time: 00:00:15

channel c2: finished piece 1 at 02-SEP-21

piece handle=/u01/Archive/backup/DB19C_20210902_7_1_FULL tag=ORCL_FULL comment=NONE

channel c2: backup set complete, elapsed time: 00:00:15

Finished backup at 02-SEP-21

Starting Control File and SPFILE Autobackup at 02-SEP-21

piece handle=/u01/app/oracle/product/19.0.0.0/db_1/dbs/c-2210260888-20210902-01
comment=NONE

Finished Control File and SPFILE Autobackup at 02-SEP-21

sql statement: alter system archive log current

Starting backup at 02-SEP-21

current log archived

channel c1: starting archived log backup set

channel c1: specifying archived log(s) in backup set

input archived log thread=1 sequence=6 RECID=1 STAMP=1082230431

channel c1: starting piece 1 at 02-SEP-21

channel c2: starting archived log backup set

channel c2: specifying archived log(s) in backup set

input archived log thread=1 sequence=7 RECID=2 STAMP=1082244970

input archived log thread=1 sequence=8 RECID=3 STAMP=1082245850

channel c2: starting piece 1 at 02-SEP-21

channel c2: finished piece 1 at 02-SEP-21

piece handle=/u01/Archive/backup/DB19C_20210902_10_1_ARCHIVE tag=ORCL_ARCHIVE
comment=NONE

channel c2: backup set complete, elapsed time: 00:00:01

channel c2: deleting archived log(s)

archived log file name=/u01/Archive/1_7_1082229722.arc RECID=2 STAMP=1082244970

archived log file name=/u01/Archive/1_8_1082229722.arc RECID=3 STAMP=1082245850

channel c2: starting archived log backup set

channel c2: specifying archived log(s) in backup set

input archived log thread=1 sequence=9 RECID=4 STAMP=1082245851

channel c2: starting piece 1 at 02-SEP-21

channel c2: finished piece 1 at 02-SEP-21

piece handle=/u01/Archive/backup/DB19C_20210902_11_1_ARCHIVE tag=ORCL_ARCHIVE
comment=NONE

channel c2: backup set complete, elapsed time: 00:00:01

channel c2: deleting archived log(s)

archived log file name=/u01/Archive/1_9_1082229722.arc RECID=4 STAMP=1082245851

channel c1: finished piece 1 at 02-SEP-21

piece handle=/u01/Archive/backup/DB19C_20210902_9_1_ARCHIVE tag=ORCL_ARCHIVE
comment=NONE

channel c1: backup set complete, elapsed time: 00:00:04

channel c1: deleting archived log(s)

archived log file name=/u01/Archive/1_6_1082229722.arc RECID=1 STAMP=1082230431

Finished backup at 02-SEP-21

Starting backup at 02-SEP-21

channel c1: starting full datafile backup set

channel c1: specifying datafile(s) in backup set

including current control file in backup set

channel c1: starting piece 1 at 02-SEP-21

channel c1: finished piece 1 at 02-SEP-21

piece handle=/u01/Archive/backup/DB19C_20210902_12_1_CONTROL tag=ORCL_CONTROL
comment=NONE

channel c1: backup set complete, elapsed time: 00:00:01

Finished backup at 02-SEP-21

Starting backup at 02-SEP-21

channel c1: starting full datafile backup set

channel c1: specifying datafile(s) in backup set

including current SPFILE in backup set

channel c1: starting piece 1 at 02-SEP-21

channel c1: finished piece 1 at 02-SEP-21

piece handle=/u01/Archive/backup/DB19C_20210902_13_1_spfile tag=SPFILE_PFILE comment=NONE

channel c1: backup set complete, elapsed time: 00:00:01

Finished backup at 02-SEP-21

Starting Control File and SPFILE Autobackup at 02-SEP-21

piece handle=/u01/app/oracle/product/19.0.0.0/db_1/dbs/c-2210260888-20210902-02
comment=NONE

Finished Control File and SPFILE Autobackup at 02-SEP-21

released channel: c1

released channel: c2

RMAN>

Step-2 Create same backup location on target database server and transfer all backup file to same location

Create **backup directory structure** on Target database side

```
[oracle@node1 ~]$ hostname
```

```
node1.example.com
```

```
[oracle@node1 ~]$ mkdir -p /u01/Archive/backup
```

```
[oracle@node1 ~]$
```

Copy **Backup files** from source to target

```
[oracle@DB19C backup]$ pwd
```

```
/u01/Archive/backup
```

```
[oracle@DB19C backup]$ scp * oracle@node1:/u01/Archive/backup
The authenticity of host 'node1 (192.168.94.191)' can't be established.
ECDSA key fingerprint is SHA256:S7BhBdyBA8kVcBlukzqM/sdFtHhz8jGtYpJxyZLrXA.
ECDSA key fingerprint is MD5:23:0d:10:cf:4b:db:b5:b5:73:09:ed:e0:7c:43:20:0e.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'node1,192.168.94.191' (ECDSA) to the list of known hosts.
oracle@node1's password:
DB19C_20210902_10_1_ARCHIVE 100% 144MB 72.0MB/s 00:02
DB19C_20210902_11_1_ARCHIVE 100% 4096 3.9MB/s 00:00
DB19C_20210902_12_1_CONTROL 100% 18MB 55.2MB/s 00:00
DB19C_20210902_13_1_spfile 100% 112KB 16.7MB/s 00:00
DB19C_20210902_2_1_FULL 100% 228MB 57.0MB/s 00:04
DB19C_20210902_3_1_FULL 100% 135MB 45.1MB/s 00:03
DB19C_20210902_4_1_FULL 100% 62MB 62.5MB/s 00:01
DB19C_20210902_5_1_FULL 100% 81MB 80.7MB/s 00:01
DB19C_20210902_6_1_FULL 100% 39MB 42.3MB/s 00:00
DB19C_20210902_7_1_FULL 100% 59MB 59.3MB/s 00:01
DB19C_20210902_9_1_ARCHIVE 100% 173MB 57.8MB/s 00:03
[oracle@DB19C backup]$
```

On Target Side

```
[oracle@node1 backup]$
[oracle@node1 backup]$ pwd
/u01/Archive/backup
[oracle@node1 backup]$ ls -ltr
total 963304
-rw-r----- 1 oracle oinstall 151033856 Sep  3 00:06 DB19C_20210902_10_1_ARCHIVE
-rw-r----- 1 oracle oinstall      4096 Sep  3 00:06 DB19C_20210902_11_1_ARCHIVE
-rw-r----- 1 oracle oinstall 18808832 Sep  3 00:06 DB19C_20210902_12_1_CONTROL
-rw-r----- 1 oracle oinstall  114688 Sep  3 00:06 DB19C_20210902_13_1_spfile
-rw-r----- 1 oracle oinstall 238993408 Sep  3 00:06 DB19C_20210902_2_1_FULL
-rw-r----- 1 oracle oinstall 141934592 Sep  3 00:06 DB19C_20210902_3_1_FULL
-rw-r----- 1 oracle oinstall  65511424 Sep  3 00:06 DB19C_20210902_4_1_FULL
-rw-r----- 1 oracle oinstall  84647936 Sep  3 00:06 DB19C_20210902_5_1_FULL
-rw-r----- 1 oracle oinstall  41345024 Sep  3 00:06 DB19C_20210902_6_1_FULL
-rw-r----- 1 oracle oinstall  62144512 Sep  3 00:06 DB19C_20210902_7_1_FULL
-rw-r----- 1 oracle oinstall 181882368 Sep  3 00:06 DB19C_20210902_9_1_ARCHIVE
[oracle@node1 backup]$
```

Step-3 Restore spfile from Backup and create pfile from spfile (Target Side)

Connect RMAN and start database using nomount on Target database.

```
[oracle@node1 backup]$ rman target /

Recovery Manager: Release 19.0.0.0.0 - Production on Fri Sep 3 00:15:32 2021
Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle and/or its affiliates. All rights reserved.

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/19.0.0.0/db_1/dbs/initDB19C.ora'

starting Oracle instance without parameter file for retrieval of spfile
Oracle instance started

Total System Global Area      1073737800 bytes

Fixed Size                     8904776 bytes
Variable Size                  276824064 bytes
Database Buffers               784334848 bytes
Redo Buffers                   3674112 bytes

RMAN> █
```

INFORMATION: Here we started database in nomount using dummy parameter file, means you can start database in mount mode without spfile/pfile.

Restore spfile from backup spfile

```
RMAN> restore spfile from '/u01/Archive/backup/DB19C_20210902_13_1_spfile';

Starting restore at 03-SEP-21
using target database control file instead of recovery catalog
allocated channel: ORA_DISK_1
channel ORA_DISK_1: SID=8 device type=DISK

channel ORA_DISK_1: restoring spfile from AUTOBACKUP /u01/Archive/backup/DB19C_20210902_13_1_spfile
channel ORA_DISK_1: SPFILE restore from AUTOBACKUP complete
Finished restore at 03-SEP-21

RMAN> █
```

Shutdown database, Create pfile using spfile

```
RMAN> shutdown immediate;
```

Oracle instance shut down

```
RMAN>
```

```

[oracle@node1 backup]$
[oracle@node1 backup]$ sqlplus

SQL*Plus: Release 19.0.0.0.0 - Production on Fri Sep 3 00:21:28 2021
Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle. All rights reserved.

Enter user-name: /as sysdba
Connected to an idle instance.

SQL> create pfile from spfile;

File created.

SQL> █

```

Step-4 Create structure on target database same as source database using pfile

```

[oracle@node1 backup]$

[oracle@node1 backup]$ mkdir -p /u01/app/oracle/oradata/DB11G

[oracle@node1 backup]$ mkdir -p /u01/app/oracle/admin/DB11G/dpdump

[oracle@node1 backup]$ mkdir -p /u01/app/oracle/admin/DB11G/pfile

[oracle@node1 backup]$ mkdir -p /u01/app/oracle/admin/DB11G/adump

[oracle@node1 backup]$

```

Step-5 restore control file and database using RMAN (on target database)

Startup database in nomount mode

```

[oracle@node1 dbs]$ pwd
/u01/app/oracle/product/19.0.0.0/db_1/dbs
[oracle@node1 dbs]$ ls -ltr
total 20
-rw-r--r--. 1 oracle oinstall 3079 May 14 2015 init.ora
-rw-r-----. 1 oracle oinstall 24 Sep 2 19:20 lkDB19C
-rw-r-----. 1 oracle oinstall 3584 Sep 3 00:19 spfileDB19C.ora
-rw-rw----. 1 oracle oinstall 1544 Sep 3 00:20 hc_DB19C.dat
-rw-r--r--. 1 oracle oinstall 1117 Sep 3 00:21 initDB19C.ora
[oracle@node1 dbs]$ sqlplus

SQL*Plus: Release 19.0.0.0.0 - Production on Fri Sep 3 00:26:15 2021
Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle. All rights reserved.

Enter user-name: /as sysdba
Connected to an idle instance.

SQL> startup nomount pfile='/u01/app/oracle/product/19.0.0.0/db_1/dbs/initDB19C.ora';
ORACLE instance started.

Total System Global Area 1593832624 bytes
Fixed Size 9135280 bytes
Variable Size 956301312 bytes
Database Buffers 620756992 bytes
Redo Buffers 7639040 bytes
SQL> █

```

Connect RMAN and restore control file

```
[oracle@node1 dbs]$  
[oracle@node1 dbs]$ rman target /  
  
Recovery Manager: Release 19.0.0.0.0 - Production on Fri Sep 3 00:28:36 2021  
Version 19.3.0.0.0  
  
Copyright (c) 1982, 2019, Oracle and/or its affiliates. All rights reserved.  
  
connected to target database: DB19C (not mounted)  
  
RMAN> restore controlfile from '/u01/Archive/backup/DB19C_20210902_12_1_CONTROL';  
  
Starting restore at 03-SEP-21  
using target database control file instead of recovery catalog  
allocated channel: ORA_DISK_1  
channel ORA_DISK_1: SID=38 device type=DISK  
  
channel ORA_DISK_1: restoring control file  
channel ORA_DISK_1: restore complete, elapsed time: 00:00:01  
output file name=/u01/app/oracle/oradata/DB19C/control01.ctl  
output file name=/u01/app/oracle/oradata/DB19C/control02.ctl  
Finished restore at 03-SEP-21  
  
RMAN> █
```

Open database in mount mode and restore database

RMAN> alter database mount;

released channel: ORA_DISK_1

Statement processed

RMAN> restore database;

```
Starting restore at 03-SEP-21  
allocated channel: ORA_DISK_1  
channel ORA_DISK_1: SID=45 device type=DISK  
channel ORA_DISK_1: starting datafile backup set restore  
channel ORA_DISK_1: specifying datafile(s) to restore from backup set  
channel ORA_DISK_1: restoring datafile 00003 to  
/u01/app/oracle/oradata/DB19C/sysaux01.dbf  
channel ORA_DISK_1: restoring datafile 00004 to  
/u01/app/oracle/oradata/DB19C/undotbs01.dbf  
channel ORA_DISK_1: reading from backup piece  
/u01/Archive/backup/DB19C_20210902_3_1_FULL  
channel ORA_DISK_1: piece  
handle=/u01/Archive/backup/DB19C_20210902_3_1_FULL tag=ORCL_FULL  
channel ORA_DISK_1: restored backup piece 1
```

channel ORA_DISK_1: restore complete, elapsed time: 00:00:25

channel ORA_DISK_1: starting datafile backup set restore

channel ORA_DISK_1: specifying datafile(s) to restore from backup set

channel ORA_DISK_1: restoring datafile 00001 to
/u01/app/oracle/oradata/DB19C/system01.dbf

channel ORA_DISK_1: restoring datafile 00007 to
/u01/app/oracle/oradata/DB19C/users01.dbf

channel ORA_DISK_1: reading from backup piece
/u01/Archive/backup/DB19C_20210902_2_1_FULL

channel ORA_DISK_1: piece
handle=/u01/Archive/backup/DB19C_20210902_2_1_FULL tag=ORCL_FULL

channel ORA_DISK_1: restored backup piece 1

channel ORA_DISK_1: restore complete, elapsed time: 00:00:46

channel ORA_DISK_1: starting datafile backup set restore

channel ORA_DISK_1: specifying datafile(s) to restore from backup set

channel ORA_DISK_1: restoring datafile 00010 to
/u01/app/oracle/oradata/DB19C/pdb/sysaux01.dbf

channel ORA_DISK_1: restoring datafile 00011 to
/u01/app/oracle/oradata/DB19C/pdb/undotbs01.dbf

channel ORA_DISK_1: reading from backup piece
/u01/Archive/backup/DB19C_20210902_4_1_FULL

channel ORA_DISK_1: piece
handle=/u01/Archive/backup/DB19C_20210902_4_1_FULL tag=ORCL_FULL

channel ORA_DISK_1: restored backup piece 1

channel ORA_DISK_1: restore complete, elapsed time: 00:00:15

channel ORA_DISK_1: starting datafile backup set restore

channel ORA_DISK_1: specifying datafile(s) to restore from backup set

channel ORA_DISK_1: restoring datafile 00005 to
/u01/app/oracle/oradata/DB19C/pdbseed/system01.dbf

channel ORA_DISK_1: restoring datafile 00008 to
/u01/app/oracle/oradata/DB19C/pdbseed/undotbs01.dbf

channel ORA_DISK_1: reading from backup piece
/u01/Archive/backup/DB19C_20210902_5_1_FULL

channel ORA_DISK_1: piece
handle=/u01/Archive/backup/DB19C_20210902_5_1_FULL tag=ORCL_FULL

```
channel ORA_DISK_1: restored backup piece 1
channel ORA_DISK_1: restore complete, elapsed time: 00:00:15
channel ORA_DISK_1: starting datafile backup set restore
channel ORA_DISK_1: specifying datafile(s) to restore from backup set
channel ORA_DISK_1: restoring datafile 00006 to
/u01/app/oracle/oradata/DB19C/pdbseed/sysaux01.dbf
channel ORA_DISK_1: reading from backup piece
/u01/Archive/backup/DB19C_20210902_6_1_FULL
channel ORA_DISK_1: piece
handle=/u01/Archive/backup/DB19C_20210902_6_1_FULL tag=ORCL_FULL
channel ORA_DISK_1: restored backup piece 1
channel ORA_DISK_1: restore complete, elapsed time: 00:00:15
channel ORA_DISK_1: starting datafile backup set restore
channel ORA_DISK_1: specifying datafile(s) to restore from backup set
channel ORA_DISK_1: restoring datafile 00009 to
/u01/app/oracle/oradata/DB19C/pdb/system01.dbf
channel ORA_DISK_1: restoring datafile 00012 to
/u01/app/oracle/oradata/DB19C/pdb/users01.dbf
channel ORA_DISK_1: reading from backup piece
/u01/Archive/backup/DB19C_20210902_7_1_FULL
channel ORA_DISK_1: piece
handle=/u01/Archive/backup/DB19C_20210902_7_1_FULL tag=ORCL_FULL
channel ORA_DISK_1: restored backup piece 1
channel ORA_DISK_1: restore complete, elapsed time: 00:00:15
Finished restore at 03-SEP-21
RMAN>
```

```
RMAN> recover database;
```

```
Starting recover at 03-SEP-21
using channel ORA_DISK_1
starting media recovery
channel ORA_DISK_1: starting archived log restore to default
destination
```

```
channel ORA_DISK_1: restoring archived log
archived log thread=1 sequence=8
channel ORA_DISK_1: reading from backup piece
/u01/Archive/backup/DB19C_20210902_10_1_ARCHIVE
channel ORA_DISK_1: piece
handle=/u01/Archive/backup/DB19C_20210902_10_1_ARCHIVE
tag=ORCL_ARCHIVE
channel ORA_DISK_1: restored backup piece 1
channel ORA_DISK_1: restore complete, elapsed time: 00:00:15
archived log file name=/u01/Archive/1_8_1082229722.arc thread=1
sequence=8
channel ORA_DISK_1: starting archived log restore to default
destination
channel ORA_DISK_1: restoring archived log
archived log thread=1 sequence=9
channel ORA_DISK_1: reading from backup piece
/u01/Archive/backup/DB19C_20210902_11_1_ARCHIVE
channel ORA_DISK_1: piece
handle=/u01/Archive/backup/DB19C_20210902_11_1_ARCHIVE
tag=ORCL_ARCHIVE
channel ORA_DISK_1: restored backup piece 1
channel ORA_DISK_1: restore complete, elapsed time: 00:00:01
archived log file name=/u01/Archive/1_9_1082229722.arc thread=1
sequence=9
unable to find archived log
archived log thread=1 sequence=10
RMAN-00571:
=====
RMAN-00569: ===== ERROR MESSAGE STACK FOLLOWS
=====
RMAN-00571:
=====
RMAN-03002: failure of recover command at 09/03/2021 00:36:26
RMAN-06054: media recovery requesting unknown archived log for thread
1 with sequence 10 and starting SCN of 2287173
```

RMAN>

INFORMATION: We can ignore the error

RMAN> **alter database open RESETLOGS;**

Statement processed

RMAN> **shutdown immediate;**

database closed

database dismounted

Oracle instance shut down

RMAN>

Connect database and startup database normally

```
[oracle@node1 dbs]$ sqlplus
```

```
SQL*Plus: Release 19.0.0.0.0 - Production on Fri Sep 3 00:44:03 2021
Version 19.3.0.0.0
```

```
Copyright (c) 1982, 2019, Oracle. All rights reserved.
```

```
Enter user-name: /as sysdba
Connected to an idle instance.
```

```
SQL> startup;
ORACLE instance started.
```

```
Total System Global Area 1593832624 bytes
Fixed Size                  9135280 bytes
Variable Size               956301312 bytes
Database Buffers            620756992 bytes
Redo Buffers                 7639040 bytes
Database mounted.
Database opened.
SQL> █
```

Step-6 Validation

```
SQL>
SQL> select * from global_name;
```

```
GLOBAL_NAME
-----
DB19C
```

```
SQL> select banner from v$version;
```

```
BANNER
-----
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
```

```
SQL> █
```