

## RMAN BACKUP OFFLINE and RECOVERY

### Step1:- connect to rman

```
[oracle@sipl-24 ~]$ export ORACLE_SID=nsg
[oracle@sipl-24 ~]$ rman target /
Recovery Manager: Release 19.0.0.0.0 - Production on Tue Jun 6 11:39:22 2023
Version 19.3.0.0.0
Copyright (c) 1982, 2019, Oracle and/or its affiliates. All rights reserved.
connected to target database: NSG (DBID=2817594157)
```

```
RMAN> shutdown immediate;
```

```
using target database control file instead of recovery catalog
database closed
database dismounted
Oracle instance shut down
```

```
RMAN> startup mount;
```

```
Oracle instance started
database mounted
```

```
Total System Global Area  2399140616 bytes
```

Fixed Size	8899336 bytes
Variable Size	553648128 bytes
Database Buffers	1828716544 bytes
Redo Buffers	7876608 bytes

### Step2:- take backup in rman

```
RMAN> backup database format '/tmp/backup/nsg/db_%U';
```

```
RMAN> backup current controlfile format '/tmp/backup/nsg/control_%U';
```

```
RMAN> backup spfile format '/tmp/backup/nsg/spfile';
```

### Step3:- scp to another machine

```
[oracle@sipl-24 nsg]$ ls -l
total 882272
-rw-rw----. 1 oracle oracle 8650752 Jun 6 11:44 control_4t1u17pe_1_1
-rw-rw----. 1 oracle oracle 894681088 Jun 6 11:43 db_4r1u17n2_1_1
-rw-rw----. 1 oracle oracle 114688 Jun 6 11:45 spfile
```

```
[oracle@sipl-24 nsg]$ scp * oracle@192.168.25.95:/tmp/backup/nsg
oracle@192.168.25.95's password:
```

**Step3: login to another machine and run rman recovery step as follows**

```
[oracle@sipl-95 ~]$ export ORACLE_SID=nsg  
[oracle@sipl-95 ~]$ rman target /
```

```
Recovery Manager: Release 19.0.0.0.0 - Production on Tue Jun 6 11:52:39 2023  
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 force;
```

```
Oracle instance started  
Total System Global Area 2399140616 bytes  
Fixed Size 8899336 bytes  
Variable Size 553648128 bytes  
Database Buffers 1828716544 bytes  
Redo Buffers 7876608 bytes
```

```
RMAN> restore spfile from '/tmp/backup/nsg/spfile';
```

```
Starting restore at 06-JUN-23  
using target database control file instead of recovery catalog  
allocated channel: ORA_DISK_1  
channel ORA_DISK_1: SID=132 device type=DISK  
channel ORA_DISK_1: restoring spfile from AUTOBACKUP /tmp/backup/nsg/spfile  
channel ORA_DISK_1: SPFILE restore from AUTOBACKUP complete  
Finished restore at 06-JUN-23
```

```
RMAN> restore spfile to pfile '/oracle/app/oracle/product/19.0.0/dbhome_1/dbs/initnsg.ora' from  
'/tmp/backup/nsg/spfile';
```

```
Starting restore at 06-JUN-23  
using channel ORA_DISK_1  
channel ORA_DISK_1: restoring spfile from AUTOBACKUP /tmp/backup/nsg/spfile  
channel ORA_DISK_1: SPFILE restore from AUTOBACKUP complete  
Finished restore at 06-JUN-23
```

```
RMAN> shutdown immediate;  
Oracle instance shut down
```

```
RMAN> startup nomount;
```

```
connected to target database (not started)  
Oracle instance started  
Total System Global Area 2399140616 bytes  
Fixed Size 8899336 bytes  
Variable Size 553648128 bytes  
Database Buffers 1828716544 bytes  
Redo Buffers 7876608 bytes
```

RMAN> restore controlfile from '/tmp/backup/nsg/control\_4t1u17pe\_1\_1';

Starting restore at 06-JUN-23

allocated channel: ORA\_DISK\_1

channel ORA\_DISK\_1: SID=136 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/oradata/nsg/control01.ctl

output file name=/u02/oradata/nsg/control02.ctl

Finished restore at 06-JUN-23

RMAN> restore controlfile from '/tmp/backup/nsg/control\_4t1u17pe\_1\_1';

Starting restore at 06-JUN-23

allocated channel: ORA\_DISK\_1

channel ORA\_DISK\_1: SID=136 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/oradata/nsg/control01.ctl

output file name=/u02/oradata/nsg/control02.ctl

Finished restore at 06-JUN-23

RMAN> catalog start with '/tmp/backup/nsg';

searching for all files that match the pattern /tmp/backup/nsg

List of Files Unknown to the Database

=====

File Name: /tmp/backup/nsg/control\_4t1u17pe\_1\_1

File Name: /tmp/backup/nsg/spfile

Do you really want to catalog the above files (enter YES or NO)? yes

cataloging files...

cataloging done

List of Cataloged Files

=====

File Name: /tmp/backup/nsg/control\_4t1u17pe\_1\_1

File Name: /tmp/backup/nsg/spfile

RMAN> restore database preview summary;

Starting restore at 06-JUN-23

using channel ORA\_DISK\_1

List of Backups

=====

Key	TY	LV	S	Device	Type	Completion	Time	#Pieces	#Copies	Compressed	Tag
-----	----	----	---	--------	------	------------	------	---------	---------	------------	-----

-----

33	B	F	A	DISK		06-JUN-23	1	1	NO		TAG20230606T114329
----	---	---	---	------	--	-----------	---	---	----	--	--------------------

recovery will be done up to SCN 3297666  
Media recovery start SCN is 3297666  
Recovery must be done beyond SCN 3297666 to clear datafile fuzziness  
Finished restore at 06-JUN-23

RMAN> restore database;

Starting restore at 06-JUN-23  
using channel ORA\_DISK\_1

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/oradata/nsg/system01.dbf  
channel ORA\_DISK\_1: restoring datafile 00002 to /u02/oradata/nsg/sysaux01.dbf  
channel ORA\_DISK\_1: restoring datafile 00003 to /u02/oradata/nsg/undo.dbf  
channel ORA\_DISK\_1: restoring datafile 00004 to /u03/oradata/nsg/user.dbf  
channel ORA\_DISK\_1: reading from backup piece /tmp/backup/nsg/db\_4r1u17n2\_1\_1  
channel ORA\_DISK\_1: piece handle=/tmp/backup/nsg/db\_4r1u17n2\_1\_1  
tag=TAG20230606T114329  
channel ORA\_DISK\_1: restored backup piece 1  
channel ORA\_DISK\_1: restore complete, elapsed time: 00:00:56  
Finished restore at 06-JUN-23

RMAN> recover database noredo;

Starting recover at 06-JUN-23  
using channel ORA\_DISK\_1  
Finished recover at 06-JUN-23

RMAN> alter database open resetlogs;  
Statement processed