

ejercicio 1

1. Localizar la ubicación del repositorio ADR
2. Crear un backup del tablespace sysaux

```

RMAN> backup tablespace sysaux tag bk_sysaux;

Starting backup at 02-FEB-24
using channel ORA_DISK_1
channel ORA_DISK_1: starting full datafile backup set
channel ORA_DISK_1: specifying datafile(s) in backup set
input datafile file number=00002 name=/u01/app/oracle/oradata/JBADIP02/sysaux01.dbf
channel ORA_DISK_1: starting piece 1 at 02-FEB-24
channel ORA_DISK_1: finished piece 1 at 02-FEB-24
piece handle=/unam-diplomado-bd/fast-recovery-area/JBADIP02/backupset/2024_02_02/o1_mf_nnndf_BK_SYSAUX_lvv86rgc_.bkp tag=BK_SYSAUX comment=NONE
channel ORA_DISK_1: backup set complete, elapsed time: 00:00:25
Finished backup at 02-FEB-24

Starting Control File and SPFILE Autobackup at 02-FEB-24
piece handle=/unam-diplomado-bd/fast-recovery-area/JBADIP02/autobackup/2024_02_02/o1_mf_s_1159906322_lvv87wnb_.bkp comment=NONE
Finished Control File and SPFILE Autobackup at 02-FEB-24

```

3. Detener la instancia en forma ordenada
4. Simular una falla eliminando en la ubicación de los datafiles el archivo
`sysaux01.dbf`

```

[oracle@pc-joba JBADIP02]$ rm sysaux01.dbf
[oracle@pc-joba JBADIP02]$ ls -lt
total 1803312
-rw-r-----. 1 oracle oinstall 314580992 Feb  2 20:12 tbsp_bk
-rw-r-----. 1 oracle oinstall 524296192 Feb  2 20:12 users01.dbf
-rw-r-----. 1 oracle oinstall 209723392 Feb  2 20:12 undotbs01.dbf
-rw-r-----. 1 oracle oinstall 796925952 Feb  2 20:12 system01.dbf
-rw-rw----. 1 oracle oinstall 20979712 Feb  2 18:09 temp01.dbf
[oracle@pc-joba JBADIP02]$

```

5. Levantar la instancia
6. Entrar nuevamente a RMAN y mostrar las fallas

```

RMAN> list failure;

using target database control file instead of recovery catalog
Database Role: PRIMARY

List of Database Failures
=====

Failure ID Priority Status      Time Detected Summary
-----
702          HIGH      OPEN      02-FEB-24   One or more non-system datafiles are missing

```

7. Generar sugerencias para resolver el problema

```

RMAN> advise failure;

Database Role: PRIMARY

List of Database Failures
=====

Failure ID Priority Status      Time Detected Summary
-----
702          HIGH      OPEN      02-FEB-24    One or more non-system datafiles are missing
Impact: See impact for individual child failures
List of child failures for parent failure ID 702
Failure ID Priority Status      Time Detected Summary
-----
1085         HIGH      OPEN      02-FEB-24    Datafile 2: '/u01/app/oracle/oradata/JBADIP02/sysaux01.dbf' is missing
Impact: Some objects in tablespace SYSAUX might be unavailable

analyzing automatic repair options; this may take some time
allocated channel: ORA_DISK_1
channel ORA_DISK_1: SID=7 device type=DISK
analyzing automatic repair options complete

Mandatory Manual Actions
=====
no manual actions available

Optional Manual Actions
=====
1. If file /u01/app/oracle/oradata/JBADIP02/sysaux01.dbf was unintentionally renamed or moved, restore it

Automated Repair Options
=====
Option Repair Description
-----
1      Restore and recover datafile 2
Strategy: The repair includes complete media recovery with no data loss
Repair script: /u01/app/oracle/diag/rdbms/jbadip02/jbadip02/hm/reco_3692588526.hm

RMAN>
```

8. Ver el archivo que se envía en la ubicación señalada, donde se recomienda cómo recuperar los archivos

```

[oracle@pc-joba JBADIP02]$ cd /u01/app/oracle/diag/rdbms/jbadip02/jbadip02/hm/
[oracle@pc-joba hm]$ ls
reco_3692588526.hm
[oracle@pc-joba hm]$ cat reco_3692588526.hm
# restore and recover datafile
restore ( datafile 2 );
recover datafile 2;
sql 'alter database datafile 2 online';
[oracle@pc-joba hm]$
```

9. Ejecutar los pasos recomendados

```

RMAN> repair failure;

Strategy: The repair includes complete media recovery with no data loss
Repair script: /u01/app/oracle/diag/rdbms/jbadip02/jbadip02/hm/reco_3408203219.hm

contents of repair script:
# restore and recover datafile
restore ( datafile 2 );
recover datafile 2;
sql 'alter database datafile 2 online';

Do you really want to execute the above repair (enter YES or NO)? y
executing repair script

Starting restore at 02-FEB-24
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 00002 to /u01/app/oracle/oradata/JBADIP02/sysaux01.dbf
channel ORA_DISK_1: reading from backup piece /unam-diplomado-bd/fast-recovery-area/JBADIP02/backupset/2024_02_02/o1_mf_nnndf_BK_SYSAUX_lvv86rgc_.bkp
channel ORA_DISK_1: piece handle=/unam-diplomado-bd/fast-recovery-area/JBADIP02/backupset/2024_02_02/o1_mf_nnndf_BK_SYSAUX_lvv86rgc_.bkp tag=BK_SYSAUX
channel ORA_DISK_1: restored backup piece 1
channel ORA_DISK_1: restore complete, elapsed time: 00:00:15

Starting recover at 02-FEB-24
using channel ORA_DISK_1
channel ORA_DISK_1: starting datafile recovery
channel ORA_DISK_1: restoring datafile 00002 to /u01/app/oracle/oradata/JBADIP02/sysaux01.dbf
channel ORA_DISK_1: reading from backup piece /unam-diplomado-bd/fast-recovery-area/JBADIP02/backupset/2024_02_02/o1_mf_nnndf_BK_SYSAUX_lvv86rgc_.bkp
channel ORA_DISK_1: piece handle=/unam-diplomado-bd/fast-recovery-area/JBADIP02/backupset/2024_02_02/o1_mf_nnndf_BK_SYSAUX_lvv86rgc_.bkp tag=BK_SYSAUX
channel ORA_DISK_1: restored backup piece 1
channel ORA_DISK_1: restore complete, elapsed time: 00:00:15
```

10. Abrir la base de datos

11. Verificar la recuperación del datafile **sysaux.dbf**

CONCLUSIONES

¿El ejercicio aportó y/o mejoró la comprensión del concepto ?

Con este ejercicio pudimos simular la perdida de un Tablespace y pudimos utilizar las recomendaciones hechas por "Healt Monitor"

Problemas identificados durante su elaboración así como la forma en la que se solucionaron
no se tuvo problemas

Comentarios, sugerencias.