

Recovery Exercise Wrap-up

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Distributed Database Operations
Workshop

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- Team 1: Carmine & Elena (a CASTOR DB)
- Team 2: Jason, Luca, Doris, Kamil (D3R DB)
- Team 3: Carlos & Przemek & ... (D3R DB)
- Team 4: Dawid, Alexander & Gordon & ... (D3R DB)

- 3 teams completed point-in-time recovery successfully
- 1 team recovered spfile and controlfile
- Many scaring/interesting issues encountered
- No time to practice block media recovery
 - We will try to provide more details on Twiki how to intentionally corrupt datafiles and fix corruption with RMAN, so it can try it out on your own

- Point-in-time recovery completed
- But it had to be repeated due to problems with backup registration
- Lessons learned:
 - If database recovered to a different system, before starting datafile restore and recovery usually it is necessary to crosscheck and delete obsolete backup
 - If backup location is different than on the source system it is necessary to catalog it before starting datafile restore

- Restore of an spfile and a controlfile completed
 - So the most tricky part done
- Everything prepared for datafile restore & recovery (which in this case would be smooth, anyway)
- No time to complete other steps

- Point-in-time recovery completed after long fight

- Many interesting problems. E.g:

starting media recovery

unable to find archive log

archive log thread=1 sequence=26655

Oracle Error:

ORA-01547: warning: RECOVER succeeded but OPEN RESETLOGS would get error below

ORA-01194: file 1 needs more recovery to be consistent

ORA-01110: data file 1: '+RECOR_DATADG1/d3r/datafile/system.771.703962999'

released channel: TAPE_1

released channel: TAPE_2

RMAN-00571:

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

RMAN-00571:

```
=====
RMAN-03002: failure of recover command at 11/26/2009 17:22:09
```

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RMAN-06054: media recovery requesting unknown log: thread 1 seq 26655 lowscn
6086420371648
```

- It is worth to use the freshest available controlfile otherwise RMAN can have problems to find some needed backups
- Discrepancy between controlfile contents and the state of the database at the chosen point-in-time can cause some extra troubles that need to be addresses separately

- Point-in-time recovery completed successfully
- Also few problems. E.g:

starting media recovery

media recovery failed

released channel: t1

released channel: t2

RMAN-00571:

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

=====

RMAN-00571:

=====

RMAN-03002: failure of recover command at 11/26/2009 17:38:05

ORA-00283: recovery session canceled due to errors

RMAN-11003: failure during parse/execution of SQL statement: alter database recover if needed

start until time 'NOV 24 2009 23:00:00' using backup controlfile

ORA-00283: recovery session canceled due to errors

ORA-01110: data file 1: '+D3R_DATADG1/d3r/datafile/system.259.657910831'

ORA-01157: cannot identify/lock data file 1 - see DBWR trace file

ORA-01110: data file 1: '+D3R_DATADG1/d3r/datafile/system.259.657910831'

- If datafile location on the recovery system is different from the one on the original system or when OMF used, recovery will fail if it is not preceded with `switch database to copy`



DM

Thank you for participation

