# Practices for Lesson 10: Managing Target Database Records

Practices for Lesson 10: Overview

Overview

In these practices, you will perform the following one-time setup tasks:

Register the ORCLCDB database in the recovery catalog.

Practice 10-1: Registering a Database in the Recovery Catalog

Overview

In this practice, you use RMAN to register the ORCLCDB database in the recovery catalog that you created in a previous practice.

Assumptions

A terminal window is open.

Timing Estimate

It should take approximately 5 minutes to complete this practice.

Tasks

Set the environment variables for the ORCLCDB database.

Use RMAN to connect to the target database (to be registered) and to the recovery catalog database. Refer to the *Course Practice Environment: Security Credentials* document for the correct password.

Register the database in the catalog.

To verify that the registration was successful, execute the REPORT SCHEMA command. The output should list all of the data files associated with the ORCLCDB database that have been registered in the recovery catalog.

RMAN> **REPORT SCHEMA;**

Report of database schema for database with db\_unique\_name ORCLCDB

List of Permanent Datafiles

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File Size(MB) Tablespace RB segs Datafile Name

1 920 SYSTEM YES

/u01/app/oracle/oradata/ORCLCDB/system01.dbf

850 SYSAUX NO

/u01/app/oracle/oradata/ORCLCDB/sysaux01.dbf

330 UNDOTBS1 YES

/u01/app/oracle/oradata/ORCLCDB/undotbs01.dbf

270 PDB$SEED:SYSTEM NO

/u01/app/oracle/oradata/ORCLCDB/pdbseed/system01.dbf

330 PDB$SEED:SYSAUX NO

/u01/app/oracle/oradata/ORCLCDB/pdbseed/sysaux01.dbf

5 USERS NO

/u01/app/oracle/oradata/ORCLCDB/users01.dbf

100 PDB$SEED:UNDOTBS1 NO

/u01/app/oracle/oradata/ORCLCDB/pdbseed/undotbs01.dbf

280 ORCLPDB1:SYSTEM YES

/u01/app/oracle/oradata/ORCLCDB/orclpdb1/system01.dbf

370 ORCLPDB1:SYSAUX NO

/u01/app/oracle/oradata/ORCLCDB/orclpdb1/sysaux01.dbf

100 ORCLPDB1:UNDOTBS1 YES

/u01/app/oracle/oradata/ORCLCDB/orclpdb1/undotbs01.dbf

342 ORCLPDB1:USERS NO

/u01/app/oracle/oradata/ORCLCDB/orclpdb1/users01.dbf

280 ORCLPDB2:SYSTEM YES

/u01/app/oracle/oradata/ORCLCDB/orclpdb2/system01.dbf

370 ORCLPDB2:SYSAUX NO

/u01/app/oracle/oradata/ORCLCDB/orclpdb2/sysaux01.dbf

100 ORCLPDB2:UNDOTBS1 YES

/u01/app/oracle/oradata/ORCLCDB/orclpdb2/undotbs01.dbf

342 ORCLPDB2:USERS NO

/u01/app/oracle/oradata/ORCLCDB/orclpdb2/users01.dbf

Exit from RMAN.

Practice 10-2: Configuring the Recovery Catalog for Recovery

Overview

Your organization determined that if the recovery catalog is lost or damaged, it needs to be restored quickly and completely.

In this practice, you configure the retention policy for the recovery catalog (retaining two backups), configure the fast recovery area for RCATCDB, enable archive log mode, and back up your RCATCDB database.

You back up the recovery catalog to implement a backup strategy of incremental backups applied to image copies. This provides a method of fast restore by switching to the image copy rather than copying the backups back to the original location.

Assumptions

A terminal window is open.

Timing Estimate

It should take approximately 25 minutes to complete this practice.

Tasks

Configure the retention policy with at least redundancy 2.

Set your environment variables to point to the RCATCDB database.

Start RMAN and use the recovery catalog database (RCATCDB) as the target, with no catalog specified. Refer to the *Course Practice Environment: Security Credentials* document for the correct password.

**Note:** The recovery parameters are configured at the CDB level.

Make sure that the retention policy for the recovery catalog is set to redundancy greater than 1. If it is not, set it to at least 2.

Exit RMAN.

To configure the fast recovery area for RCATCDB, perform the following:

Ensure that the environment variables are set for the RCATCDB database.

Log in to SQL\*Plus.

Set the size of the fast recovery area for RCATCDB to 12 GB.

Verify that the recovery catalog database is in ARCHIVELOG mode.

Check whether RCATCDB is in ARCHIVELOG mode.

Shut down the database instance and restart it in MOUNT mode.

Put the database in ARCHIVELOG mode and then open the database.

Verify that the database is now in ARCHIVELOG mode.

Verify that RCATPDB is open.

Optionally, if RCATPDB is not open, open the PDB and save the state so that the

RCATPDB PDB is opened every time the CDB is opened.

Exit from SQL\*Plus.

Back up the recovery catalog database as an image copy and a base for incremental backups. This provides a method of fast restore by switching to the image copy rather than copying the backups back to the original location. Use a terminal window where your environment variables point to the RCATCDB database.

Start RMAN and use the recovery catalog database as the target, with no catalog specified. Refer to the *Course Practice Environment: Security Credentials* document for the correct password.

Back up the recovery catalog database as an image copy and a base for incremental backups. Review the output and find the data file for the tablespace that you created for the recovery catalog.

ystem\_gkdy3bqy\_.dbf tag=TAG20190628T202826 RECID=4 STAMP=1012163316

channel ORA\_DISK\_1: datafile copy complete, elapsed time: 00:00:15

channel ORA\_DISK\_1: starting datafile copy

…

input datafile file number=00013 name=/u01/app/oracle/oradata/RCATCDB/rcatpdb/rcat01.dbf

output file name=/u01/app/oracle/fast\_recovery\_area/RCATCDB/8C6740C0D1762DE1 E0532811ED0A894F/datafile/o1\_mf\_rcattbs\_gkdy5btc\_.dbf tag=TAG20190628T202826 RECID=13 STAMP=1012163371

channel ORA\_DISK\_1: datafile copy complete, elapsed time: 00:00:01

channel ORA\_DISK\_1: starting datafile copy

…

Starting Control File and SPFILE Autobackup at 2019-06-28:20:29:34

piece handle=/u01/app/oracle/fast\_recovery\_area/RCATCDB/autobackup/201 9\_06\_28/o1\_mf\_s\_1012163374\_gkdy5gkc\_.bkp comment=NONE

Finished Control File and SPFILE Autobackup at 2019-06-28:20:29:35

RMAN>

Exit RMAN.