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Creating and Using Virtual Private Catalogs

Objectives

After completing this lesson, you should be able to:

- Create a virtual private catalog
- Manage a virtual private catalog

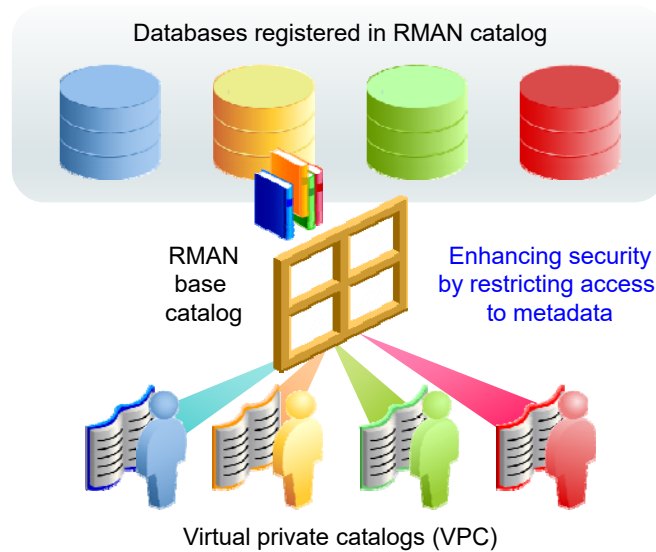# Creating and Using Virtual Private Catalogs

Databases registered in RMAN catalog

RMAN base catalog

Enhancing security by restricting access to metadata

Virtual private catalogs (VPC)

Creating a Virtual Private Catalog

1. Create the recovery catalog, tablespace, and catalog owner, as shown previously.
2. Create the owner of the Virtual Private Catalog (VPC).
3. Grant create session to VPC owner.
4. In RMAN, as the catalog owner, create the catalog.
5. In SQL*Plus, as `sysdba`, execute `dbmsrmanvpc.sql` to enable VPD.
6. In RMAN, as the catalog owner, connect to the catalog and upgrade the catalog.
7. Grant privileges (access to the metadata/ability to register new target databases) to the VPC owner.

Creating a Virtual Private Catalog

8. Register a database with a VPC and store backup metadata.
   A. Using RMAN, connect to the recovery catalog database as the VPC owner and connect to the database that you want to register as TARGET.
   B. Register the database with the VPC owner by using the `REGISTER DATABASE` command.
   C. Use the `BACKUP` command to back up the database and store metadata related to the backup in the VPC.

Managing Virtual Private Catalogs

- If needed, revoke access to the metadata:

```
RMAN> REVOKE CATALOG FOR DATABASE prod1 FROM vpc1;
```

- To drop a virtual private catalog:

```
RMAN> DROP CATALOG;
```

Upgrading Virtual Private Catalogs

1. Using SQL*Plus, connect to the recovery catalog database as the `SYS` user with the `SYSDBA` privilege.

2. Grant additional privileges to the `RECOVERY_CATALOG_OWNER` role by executing the `$ORACLE_HOME/rdbms/admin/dbmsrmansys.sql` script.

3. Using RMAN, connect to the base recovery catalog and upgrade the catalog by using the `UPGRADE CATALOG` command.

4. Using SQL*Plus, again connect to the recovery catalog database as the `SYS` user with the `SYSDBA` privilege.

5. Upgrade the VPC schemas to the VPD model by executing the `$ORACLE_HOME/rdbms/admin/dbmsrmanvpc.sql` script.

Summary

In this lesson, you should have learned how to:
- Create a virtual private catalog
- Manage a virtual private catalog

Practice Overview

- Enabling the Virtual Private Database (VPD) Functionality
- Creating a Virtual Private Catalog
- Backing Up a PDB