Practice

Using Data Recovery Advisor

Practice Target

In this practice you will use the Data Recovery Advisor to detect and repair the loss of data files.

Practice Overview

In this practice, you will implement the following recovery tasks:

- Simulate losing a datafile
- Use the Data Recovery Advisor to troubleshoot and repair the failure

Assumptions

This practice assumes the `srv1` appliance is restored from the **non-CDB** snapshot and up and running.

Simulating a Datafile Loss

In the following steps, you will simulate losing a datafile.

1. Start Putty and connect to `srv1` as `oracle`

2. Invoke RMAN and login to `ORADB` as target

```
rman target "'/ as SYSBACKUP'"
```

3. Take backup of the database

```
BACKUP DATABASE TAG 'FULL_DB';
```

4. Retrieve the full name of the `USERS` tablespace datafile.

```
SELECT FILE_NAME FROM DBA_DATA_FILES WHERE TABLESPACE_NAME='USERS';
```

5. Delete the datafile.

```
host 'rm /u01/app/oracle/oradata/ORADB/datafile/*_users_*.dbf';
```

6. Confirm the lost datafile is not there.

```
host 'ls /u01/app/oracle/oradata/ORADB/datafile/*_users_*.dbf ';
```

Diagnosing and Repairing the Loss

Perform the following actions to use the Data Recovery Advisor to troubleshoot and repair the loss.

7. Use the Data Recovery Advisor to list the database failure.

   If no failure reported, validate the database.

```
LIST FAILURE;
```

8. Use the Data Recovery Advisor to obtain recommendations on how to repair the failure.

   View the contents of the produced .hm file.

```
ADVISE FAILURE;
```

9. Use the Data Recovery Advisor to implement the proposed repair. Examine the proposed repair script before it executes.

   Enter **Y** or **YES** when prompted to execute the script and open the database.

```
REPAIR FAILURE;
```

10. Verify that the issue has been resolved by validating database datafiles.

```
VALIDATE DATABASE;
```

Clean Up

11. Shutdown `srv1` and restore it from its **non-CDB** database.

Summary

The Data Recovery Advisor helps the DBA to be more productive on diagnosing data failures by quickly reporting the cause of the data loss issues and proposing solutions to repair them.