

ORACLE

Objectives

After completing this lesson, you should be able to:

- Configure the fast recovery area
- Multiplex the control file
- Multiplex redo log files
- Configure ARCHIVELOG mode

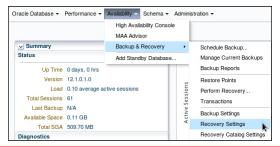
ORACLE

13 - :

Configuring for Recoverability

To configure your database for maximum recoverability, you must:

- Schedule regular backups
- Multiplex control files
- Multiplex redo log groups
- Retain archived copies of redo logs



13 - 3

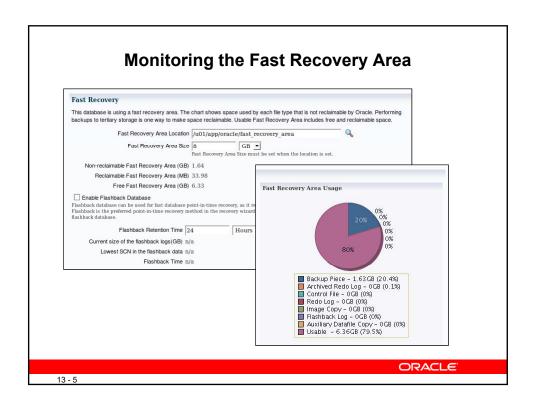
ORACLE

Configuring the Fast Recovery Area

- Fast recovery area:
 - Strongly recommended for simplified backup storage management
 - Storage space (separate from working database files)
 - Location specified by the DB_RECOVERY_FILE_DEST parameter
 - Size specified by the DB_RECOVERY_FILE_DEST_SIZE parameter
 - Large enough for backups, archived logs, flashback logs, multiplexed control files, and multiplexed redo logs
 - Automatically managed according to your retention policy
- Configuration of the fast recovery area includes specifying the location, size, and retention policy.

ORACLE

13 - 4



Multiplexing Control Files

To protect against database failure, your database should have multiple copies of the control file.

	ASM Storage	File System Storage
Best Practice	One copy on each disk group (such as +DATA and +FRA)	At least two copies, each on separate disk (at least one on separate disk controller)
Steps to create additional control files	No additional control file copies required	Alter the SPFILE with the ALTER SYSTEM SET control_files command. Shut down the database. Copy control file to a new location. Open the database and verify the addition of the new control file.

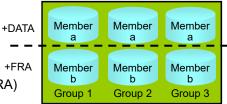
ORACLE

13 -

Redo Log Files

Multiplex redo log groups to protect against media failure and loss of data. This increases database I/O. It is suggested that redo log groups have:

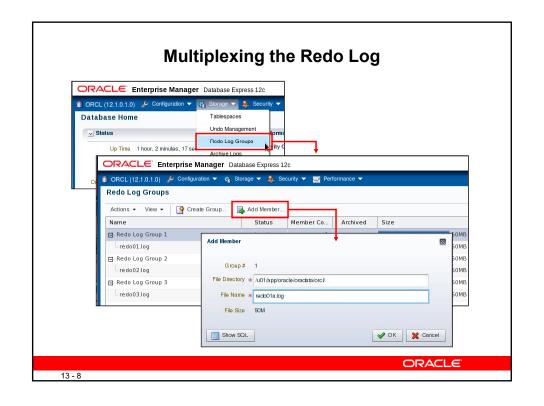
- At least two members (files) per group
- Each member:
 - On a separate disk or controller if using file system storage
 - In a separate disk group +FRA (such as +DATA and +FRA) if using ASM

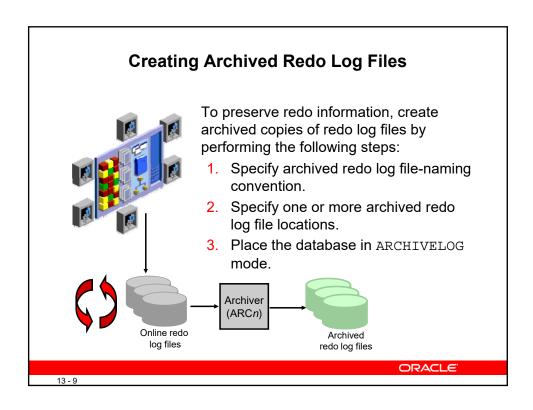


Note: Multiplexing redo logs may impact overall database performance.

13 - 7

ORACLE





Configuring ARCHIVELOG Mode

To place the database in ARCHIVELOG mode, perform the following steps:

- Using Enterprise Manager Cloud Control:
 - On the Recovery Settings page, select "ARCHIVELOG Mode" and click Apply. The database can be set to ARCHIVELOG mode only from the MOUNT state.
 - 2. Restart the database instance by clicking "Yes" when prompted.
- Using SQL commands:
 - Mount the database.
 - Issue the ALTER DATABASE ARCHIVELOG command.
 - Open the database.

ORACLE

13 - 10

Summary

In this lesson, you should have learned how to:

- Configure the fast recovery area
- Multiplex the control file
- Multiplex redo log files
- Configure ARCHIVELOG mode

ORACLE[®]

6