18

# Performing Additional Recovery Operations

ORACLE

Copyright © 2020, Oracle and/or its affiliates.

### Objectives

After completing this lesson, you should be able to:

- · Recover from the loss of the server parameter file
- Recover from control file and redo log file failures
- Re-create the password authentication file



ORACLE

Copyright © 2020, Oracle and/or its affiliates.

### Recovery from Loss of Server Parameter File

The FROM MEMORY clause allows the creation of current systemwide parameter settings.

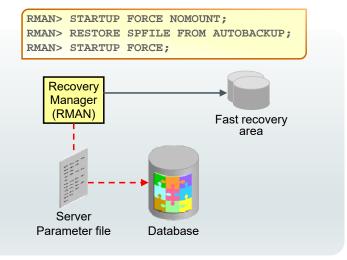
```
SQL> CREATE PFILE [= 'pfile_name' ]
  FROM { { SPFILE [= 'spfile_name'] } | MEMORY } ;
```

ORACLE

Copyright © 2020, Oracle and/or its affiliates.

18 - 3

## Restoring the Server Parameter File from the Control File Autobackup



ORACLE

pyright © 2020, Oracle and/or its affiliates.

### Loss of a Control File

If a control file is lost or corrupted, the instance normally aborts.

- If control files are stored in ASM disk groups, recovery options are as follows:
  - Perform guided recovery using Cloud Control.
  - Put the database in NOMOUNT mode and use an RMAN command to restore the control file from existing control file.

```
RMAN> restore controlfile from
   '+DATA/orcl/controlfile/current.260.695209463';
```

- If control files are stored as regular file system files, then:
  - Shut down the database
  - Copy the existing control file to replace the lost control file

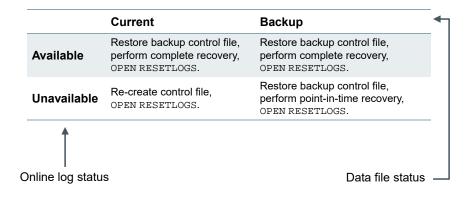
Open the database after the control file is successfully restored.

ORACLE

Copyright © 2020, Oracle and/or its affiliates.

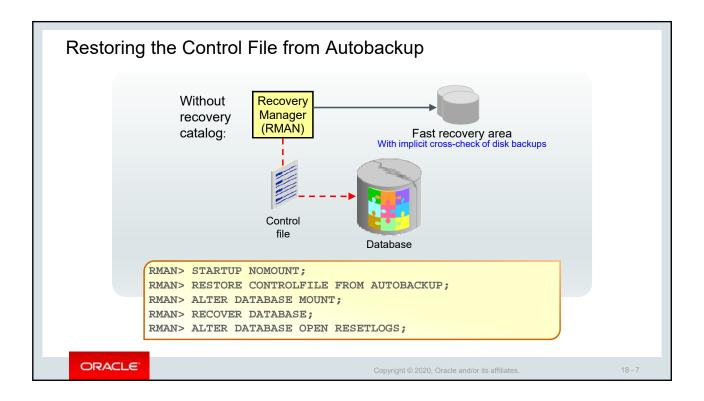
10 5

### Recovering from the Loss of All Control File Copies: Overview



ORACLE

Copyright © 2020, Oracle and/or its affiliates



### Restoring the SPFILE and the Control File

### With recovery catalog:

Database in NOMOUNT state

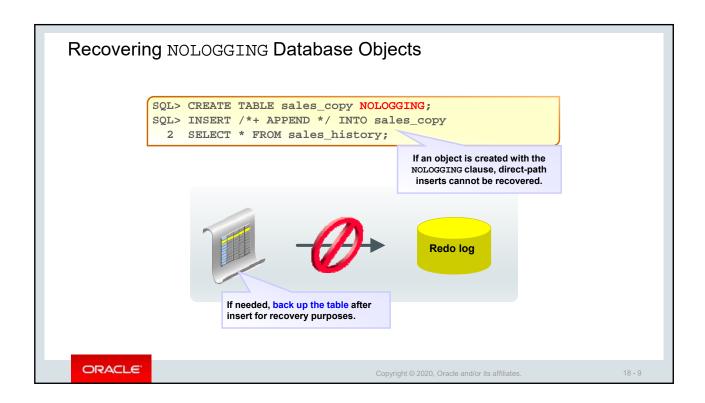
```
RMAN> RESTORE CONTROLFILE;
RMAN> RESTORE CONTROLFILE... TO <destination>
```

### Loss of SPFILE and control file:

- 1. Set the DBID or use recovery catalog.
- 2. Restore the SPFILE from the autobackup.
- 3. Start the instance with the restored SPFILE.
- 4. Restore the control file from the autobackup.
- 5. Mount the database with the restored control file.
- 6. Restore and recover the database.
- 7. Open the database with the RESETLOGS option.

ORACLE

Copyright © 2020, Oracle and/or its affiliates.



### Loss of a Redo Log File

If a member of a redo log file group is lost and if the group still has at least one member, note the following results:

- · Normal operation of the instance is not affected.
- · You receive a message in the alert log notifying you that a member cannot be found.
- You can restore the missing log file by dropping the lost redo log member and adding a new member.
- If the group with the missing log file has been archived, you can clear the log group to re-create the missing file.
- Immediately take a full database backup of the whole database.

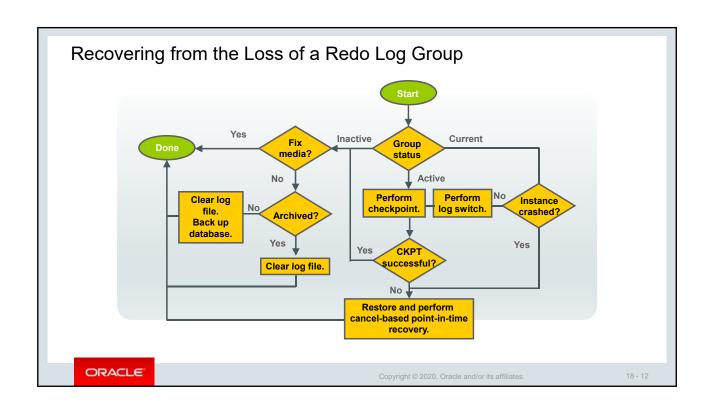
ORACLE

Copyright © 2020, Oracle and/or its affiliates

# A redo log group has a status of one of the following values at any given time: CURRENT: The LGWR process is currently writing redo data to it. ACTIVE: It is no longer being written to, but it is still required for instance recovery. INACTIVE: It is no longer being written to, and it is no longer required for instance recovery.

Copyright © 2020, Oracle and/or its affiliates.

ORACLE



### Re-creating a Password Authentication File

```
SQL> grant sysdba to admin2;
grant sysdba to admin2
*
ERROR at line 1:
ORA-01994: GRANT failed: password file missing or disabled
```

To recover from the loss of a password file:

1. Re-create the password file by using orapwd.

```
$ orapwd file=$ORACLE_HOME/dbs/orapworcl password=ora entries=20
```

2. Add users to the password file and assign appropriate privileges to each user.

ORACLE

Copyright © 2020, Oracle and/or its affiliates.

18 - 13

### Summary

In this lesson, you should have learned how to:

- Recover from the loss of the server parameter file
- Recover from control file and redo log file failures
- Re-create the password authentication file



ORACLE

Copyright © 2020, Oracle and/or its affiliates

### **Practice Overview**

- Recovering from the Loss of a Parameter File
- Restoring the Control File
- Recovering from the Loss of All Control Files
- Restoring the Password File



Copyright © 2020, Oracle and/or its affiliates.