**How to Recreate a Controlfile (Doc ID 735106.1)**

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**Applies to:**

Oracle Database - Enterprise Edition - Version 9.0.1.0 and later

Information in this document applies to any platform.

**Goal**

This article describes how you can recreate your controlfile.

**Solution**

***Warning***

You should only recreate your control file under the following circumstances:

* All current copies of the control file have been lost or are corrupted.
* You are restoring a backup in which the control file is corrupted or missing.
* You need to change a hard limit database parameter in the controlfile.
* If you are moving your database to another server and files are located in a different location.
* Oracle Customer Support advises you to.

**Creating a new Controlfile from an existing database that is mounted or open.**

First you must generate an ascii dump of the controlfile.

Whilst the database is mounted or open issue:

SQL> alter database backup controlfile to trace;

A trace file will be generated in the user\_dump\_destination directory.

SQL> show parameter user\_dump\_dest

NAME            TYPE         VALUE

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user\_dump\_dest  string       /oracle/product/11.1.0/db\_1/diag/rdbms/V11/trace

After navigating to the directory locate the latest trace file by date/time by issuing:   ls -ltr.

% cd /oracle/product/11.1.0/db\_1/diag/rdbms/V11/trace

% ls -ltr

Once you locate the file it will appear as an ordinary trace file:

Trace file /oracle/product/11.1.0/db\_1/diag/rdbms/V11/trace/V11\_ora\_31225.trc

Oracle Database 11g Enterprise Edition Release 11.1.0.6.0 - Production

With the Partitioning, OLAP, Data Mining and Real Application Testing options

ORACLE\_HOME = /oracle/product/11.1.0/db\_1

(OR)

A easier way to locate the tracefile is given below:

SQL> alter database backup controlfile to trace;

Database altered.

SQL> oradebug setmypid;

Statement processed.

SQL> oradebug tracefile\_name;

/opt/app/oracle/diag/rdbms/ora11g/ORA11G/trace/ORA11G\_ora\_17822.trc

You are interested in the section that contains the create controlfile script.

Modify the trace file and use it as a script to create the control.

CREATE CONTROLFILE REUSE DATABASE "V11" NORESETLOGS ARCHIVELOG

MAXLOGFILES 16

MAXLOGMEMBERS 3

MAXDATAFILES 100

MAXINSTANCES 8

MAXLOGHISTORY 292

LOGFILE

GROUP 1 '/oradata/V11/redo01.log' SIZE 50M,

GROUP 2 '/oradata/V11/redo02.log' SIZE 50M,

GROUP 3 '/oradata/V11/redo03.log' SIZE 50M

DATAFILE

'/oradata/V11/system01.dbf',

'/oradata/V11/sysaux01.dbf',

'/oradata/V11/undotbs01.dbf',

'/oradata/V11/user01.dbf'

CHARACTER SET WE8MSWIN1252

;

ALTER TABLESPACE TEMP\_TEST ADD TEMPFILE '/oradata/V11/temp01.dbf' reuse;

It is important to delete everything above the "CREATE CONTROLFILE" and

everything after the CHARACTER SET. Ensure you leave the semi colon. ";".

In the above example we are choosing the NORESETLOGS option and running the

database in archivelog mode. After successfully saving the script you are now

able to recreate the controlfile. When shutting down the database ensure that

you shutdown with the immediate option.

SQL> shutdown immediate;

 SQL> startup nomount;

SQL[>@control.sql](mailto:%3e@control.sql)

Note: After recreating the controlfile ensure you add the existing TEMP files:

Example:

alter tablespace temp\_ts add tempfile '/oradata/V11/temp01.dbf' reuse;

Once the controlfile is successfully created the database is automatically

mounted. If you have opened the database with a resetlogs it is important to

take a backup asap.

**Creating a new controlfile from a database that is not able to mount.**

Under the rare occasion that you do not have a controlfile to either:

1. Restore

2. or have a script from a "backup controlfile to trace script"

you must create a script from the beginning.

CREATE CONTROLFILE REUSE DATABASE "DBNAME" NORESETLOGS ARCHIVELOG

Follow the format listing:

- Location of redo logs.

- Location of datafiles

- Specifying the characterset.

Once you have listed all files correctly you are ready to recreate your controlfile

SQL> startup nomount;

SQL[>@control.sql](mailto:%3e@control.sql)

**References**

[NOTE:1475632.1](https://support.oracle.com/epmos/faces/DocumentDisplay?parent=DOCUMENT&sourceId=735106.1&id=1475632.1) - Things to Consider Before Recreating the Controlfile

