

MDBUtil: GI Management Repository configuration tool (Doc ID 2065175.1)

In this Document

[Abstract](#)

[History](#)

[Details](#)

[Grid Infrastructure Management Repository \(GIMR\) database MGMTDB](#)

[MDBUtil: GI Management Repository configuration tool](#)

[MDBUtil usage](#)

[Create MGMTDB/CHM and reconfigure related functions](#)

[Migrate MGMTDB database files to another disk group](#)

[Check the CHM & MGMTDB status](#)

[MDBUtil: troubleshooting](#)

[References](#)

APPLIES TO:

Oracle Database Cloud Schema Service - Version N/A and later
Oracle Database Exadata Express Cloud Service - Version N/A and later
Gen 1 Exadata Cloud at Customer (Oracle Exadata Database Cloud Machine) - Version N/A and later
Oracle Cloud Infrastructure - Database Service - Version N/A and later
Oracle Database Backup Service - Version N/A and later
Linux x86-64

ABSTRACT

This document explains how to use "[mdbutil](#)", a tool used to create the Grid Infrastructure Management Repository (GIMR) database MGMTDB or move its database files to a different disk group in one simple command

HISTORY

Create Date 2014
Update Date October-2021
Latest "[mdbutil](#)" Version: 20211019 \$Revision: 1.101 \$

DETAILS

Grid Infrastructure Management Repository (GIMR) database MGMTDB

The Grid Infrastructure Management Repository enables such features as Cluster Health Monitor, Oracle Database QoS Management, and Rapid Home Provisioning, and provides a historical metric repository that simplifies viewing of past performance and diagnosis of issues.

During the installation of Oracle Grid Infrastructure 12.1.0.1 you've had the option to install the Grid Infrastructure Management Repository (GIMR) database MGMTDB. Starting with Oracle Grid Infrastructure 12.1.0.2 the GIMR database has become mandatory and is automatically installed.

MDBUtil: GI Management Repository configuration tool

If you need to create or re-create the Grid Infrastructure Management Repository (GIMR) database MGMTDB after the installation, specific knowledge and many manual steps are required. (see [Note 1589394.1](#) for details). You also may desire to move the MGMTDB database files to a different disk group from your Clusterware files. [MDBUtil](#) has been created to provide this functionality in one simple command.

Note:

This script is provided for educational purposes only.
It is NOT supported by Oracle World Wide Technical Support.
The script has been tested and appears to work as intended.
You should always run new scripts on a test instance initially.

MDBUtil usage

Note: Once mdbutil.pl file is downloaded from this document and uploaded to a temporary location in the cluster node, provide execute privilege to the file before execution (chmod +x mdbutil.pl).

```
# ./mdbutil.pl -h
Usage:
  Create/Enable MGMTDB & CHM
  mdbutil.pl --addmdb --target=<MGMTDB destination>
  Move MGMTDB to another location
  mdbutil.pl --mvmgmtdb --target=<new MGMTDB destination>
  Check MGMTDB status
  mdbutil.pl --status

mdbutil.pl OPTIONS
  --addmdb           Create MGMTDB/CHM and reconfigure related functions
  --mvmgmtdb        Migrate MGMTDB to another location
  --target='+DATA'   MGMTDB Disk Group location
  --status          Check the CHM & MGMTDB status
  --help            Display this help and exit
  --debug           Verbose commands output/trace

Example:
  Create/Enable MGMTDB:
  mdbutil.pl --addmdb --target=+DATA
  Move MGMTDB to another location:
  mdbutil.pl --mvmgmtdb --target=+REDO
  Check CHM:
  mdbutil.pl --status
```

Create MGMTDB/CHM and reconfigure related functions

You can create MGMTDB and configure the related functions such mgmtlsnr, chm issuing (as 'grid' user). PLEASE NOTE: You will also need root user credentials if the CHM resource (ora.crf) has not been previously created.

```
mdbutil --addmdb --target=<MGMTDB destination>

example:

[<grid>@<HOSTNAME1> tmp]$ ./mdbutil.pl --addmdb --target=+DATA
2015-10-12 09:11:17: I Starting To Configure MGMTDB at +DATA...
2015-10-12 09:11:19: I Container database creation in progress...
2015-10-12 09:17:35: I Pluggable database creation in progress...
2015-10-12 09:19:00: I Executing "/tmp/mdbutil.pl --addchm" on <HOSTNAME1> as root to configure CHM.
<root>@<HOSTNAME1>'s password:
2015-10-12 09:20:17: I Executing "/tmp/mdbutil.pl --addchm" on <HOSTNAME2> as root to configure CHM.
<root>@<HOSTNAME2>'s password:
2015-10-12 09:20:22: I MGMTDB & CHM configuration done!
```

Migrate MGMTDB database files to another disk group

You can move MGMTDB database files to another ASM disk group issuing the following command as GI software owner (ex: 'grid') user:

```

mdbutil.pl --mvmgmtdb --target=<new MGMTDB destination>

example:
[<grid>@<HOSTNAME1> tmp]$ /tmp/mdbutil.pl --mvmgmtdb --target=+REDO
Moving MGMTDB, it will be stopped, are you sure (Y/N)? y
2015-10-12 09:24:53: I Checking for the required paths under +REDO
2015-10-12 09:24:54: I Creating new path +REDO/_MGMTDB/PARAMETERFILE
2015-10-12 09:24:56: I Creating new path +REDO/_MGMTDB/CONTROLFILE
2015-10-12 09:24:59: I Creating new path +REDO/_MGMTDB/ONLINELOG
2015-10-12 09:25:01: I Creating new path +REDO/_MGMTDB/DATAFILES
2015-10-12 09:25:04: I Creating new path +REDO/_MGMTDB/TEMPFILE
2015-10-12 09:25:06: I Creating new path +REDO/_MGMTDB/DATAFILES/xxxxx_c
2015-10-12 09:25:08: I Creating new path +REDO/_MGMTDB/TEMPFILE/xxxxx_c
2015-10-12 09:25:08: I Getting MGMTDB Database files location
2015-10-12 09:25:09: I Getting MGMTDB Temp files location
2015-10-12 09:25:09: I Getting MGMTDB PDB xxxxx_c files location
2015-10-12 09:25:09: I Getting MGMTDB PDB xxxxx_c Temp files location
2015-10-12 09:25:10: I Creating temporary PFILE
2015-10-12 09:25:10: I Creating target SPFILE
2015-10-12 09:25:16: I Stopping mgmtdb
2015-10-12 09:25:36: I Copying MGMTDB DBFiles to +REDO
2015-10-12 09:25:52: I Copying MGMTDB xxxxx_c PDB DBFiles to +REDO
2015-10-12 09:26:33: I Creating the CTRL File
2015-10-12 09:26:59: I The CTRL File has been created and MGMTDB is now running from +REDO
2015-10-12 09:26:59: I Setting MGMTDB SPFile location
2015-10-12 09:27:00: I Modifying the init parameter
2015-10-12 09:27:00: I Removing old MGMTDB
2015-10-12 09:27:02: I Restarting MGMTDB using target SPFile
2015-10-12 09:27:47: I MGMTDB Successfully moved to +REDO!

```

Check the CHM & MGMTDB status

If for any reason, MDBUtil is failing, you can get diagnostics information running mdbutil again using the "-debug" option, example:

```

mdbutil.pl --status

example:
[<grid>@<HOSTNAME1> tmp]$ ./mdbutil.pl --status
2015-10-12 09:30:37: I Checking CHM status...
2015-10-12 09:30:38: I Listener MGMTLSNR is configured and running on<HOSTNAME1>
2015-10-12 09:30:39: I Database MGMTDB is configured and running on<HOSTNAME1>
2015-10-12 09:30:39: I Cluster Health Monitor (CHM) is configured and running
-----
CHM Repository Path = +RECO/_MGMTDB/DATAFILES/xxxxx_c/sysmgmtdata.20151012092509.dbf
MGMTDB space used on DG +RECO = 504 Mb
-----

```

MDBUtil: troubleshooting

If for any reason, MDBUtil is failing, you could get diagnostics information running mdbutil again using "-debug" option, example:

```

[<grid>@<HOSTNAME1> tmp]$ ./mdbutil.pl --addmdb --target=+REDO
2015-10-12 09:09:31: I Starting To Configure MGMTDB at +REDO...
2015-10-12 09:09:52: I Container database creation in progress...
2015-10-12 09:09:59: E Cannot create CDB MGMTDB on <HOSTNAME1>, exiting...

```

```

[<grid>@<HOSTNAME1> tmp]$ ./mdbutil.pl --addmdb --target=+REDO -debug
2015-10-12 09:10:18: D Executing: /u01/app/12.1.0.2/grid/bin/srvctl status diskgroup -g REDO
2015-10-12 09:10:19: D Exit code: 0
2015-10-12 09:10:19: D Output of last command execution:
Disk Group REDO is running on <HOSTNAME1>,<HOSTNAME2>
2015-10-12 09:10:19: I Starting To Configure MGMTDB at +REDO...
2015-10-12 09:10:19: D Executing: /u01/app/12.1.0.2/grid/bin/srvctl status mgmtlsnr
2015-10-12 09:10:19: D Exit code: 0
2015-10-12 09:10:19: D Output of last command execution:
Listener MGMTLSNR is enabled
2015-10-12 09:10:19: D Executing: /u01/app/12.1.0.2/grid/bin/srvctl status mgmtdb
2015-10-12 09:10:20: D Exit code: 1
2015-10-12 09:10:20: D Output of last command execution:
PRCD-1120 : The resource for database _mgmtdb could not be found.
2015-10-12 09:10:20: D Executing: /u01/app/12.1.0.2/grid/bin/srvctl status mgmtdb
2015-10-12 09:10:20: D Exit code: 1
2015-10-12 09:10:20: D Output of last command execution:
PRCD-1120 : The resource for database _mgmtdb could not be found.
2015-10-12 09:10:20: D Executing: /u01/app/12.1.0.2/grid/bin/srvctl stop mgmtlsnr
2015-10-12 09:10:21: D Exit code: 2
2015-10-12 09:10:21: D Output of last command execution:
PRCC-1016 : MGMTLSNR was already stopped
2015-10-12 09:10:21: D Executing: /u01/app/12.1.0.2/grid/bin/srvctl enable oc4j
2015-10-12 09:10:21: D Exit code: 2
2015-10-12 09:10:21: D Output of last command execution:
PRKO-2116 : OC4J is already enabled
2015-10-12 09:10:21: D Executing: /u01/app/12.1.0.2/grid/bin/srvctl start oc4j
2015-10-12 09:10:21: D Exit code: 2
2015-10-12 09:10:21: D Output of last command execution:
PRCC-1014 : oc4j was already running
2015-10-12 09:10:21: D Executing: /u01/app/12.1.0.2/grid/bin/crsctl query crs activeversion
2015-10-12 09:10:21: D Exit code: 0
2015-10-12 09:10:21: D Output of last command execution:
Oracle Clusterware active version on the cluster is [12.1.0.2.0]
2015-10-12 09:10:21: I Container database creation in progress...
2015-10-12 09:10:21: D Executing: /u01/app/12.1.0.2/grid/bin/dbca -silent -createDatabase -
createAsContainerDatabase true -templateName MGMTSeed_Database.dbc -sid -MGMTDB -gdbName _mgmtdb -
storageType ASM -diskGroupName REDO -datafileJarLocation
/u01/app/12.1.0.2/grid/assistants/dbca/templates -characterSet AL32UTF8 -autoGeneratePasswords -
skipUserTemplateCheck
2015-10-12 09:10:26: D Exit code: 1
2015-10-12 09:10:26: D Output of last command execution:
Look at the log file "/u01/app/grid/cfgtoollogs/dbca/_mgmtdbl.log" for further details.
2015-10-12 09:10:26: E Cannot create CDB MGMTDB on <HOSTNAME1>, exiting...

-->
[<grid>@<HOSTNAME1> tmp]$ cat /u01/app/grid/cfgtoollogs/dbca/_mgmtdbl.log

+REDO does not have enough space. Required space is 1566 MB , available space is 1305 MB.

```

REFERENCES

[NOTE:1568402.1](#) - FAQ: 12c Grid Infrastructure Management Repository (GIMR)

[NOTE:2062234.1](#) - How to Relocate Cluster Health Monitor (CHM) Repository and Increase Retention Time

[NOTE:1589394.1](#) - How to Move/Recreate GI Management Repository (GIMR / MGMTDB) to Different Shared Storage (Diskgroup, CFS or NFS etc)

Didn't find what you are looking for?