Process

Indications When you are aware of a mongod instance running without journaling that stops unexpectedly **and** you're not running with replication, you should always run the repair operation before starting MongoDB again. If you're using replication, then restore from a backup and allow replication to perform an initial *sync* (page 593) to restore data.

If the mongod.lock file in the data directory specified by dbPath, /data/db by default, is *not* a zero-byte file, then mongod will refuse to start, and you will find a message that contains the following line in your MongoDB log our output:

Unclean shutdown detected.

This indicates that you need to run mongod with the --repair option. If you run repair when the mongodb.lock file exists in your dbPath, or the optional --repairpath, you will see a message that contains the following line:

old lock file: /data/db/mongod.lock. probably means unclean shutdown

If you see this message, as a last resort you may remove the lockfile **and** run the repair operation before starting the database normally, as in the following procedure:

Overview

Warning: Recovering a member of a replica set.

Do not use this procedure to recover a member of a *replica set*. Instead you should either restore from a *backup* (page 184) or perform an initial sync using data from an intact member of the set, as described in *Resync a Member of a Replica Set* (page 633).

There are two processes to repair data files that result from an unexpected shutdown:

• Use the --repair option in conjunction with the --repairpath option. mongod will read the existing data files, and write the existing data to new data files.

You do not need to remove the mongod.lock file before using this procedure.

• Use the --repair option. mongod will read the existing data files, write the existing data to new files and replace the existing, possibly corrupt, files with new files.

You must remove the mongod.lock file before using this procedure.

Note: --repair functionality is also available in the shell with the db.repairDatabase() helper for the repairDatabase command.

Procedures

Important: Always Run mongod as the same user to avoid changing the permissions of the MongoDB data files.

Repair Data Files and Preserve Original Files To repair your data files using the *--repairpath* option to preserve the original data files unmodified.

Repair Data Files without Preserving Original Files To repair your data files without preserving the original files, do not use the *--repairpath* option, as in the following procedure:

Warning: After you remove the mongod.lock file you *must* run the --repair process before using your database.