Inverting Master and Slave

If you have a master(A) and a slave(B) and you would like to reverse their roles, follow this procedure. The procedure assumes A is healthy, up-to-date and available.

If A is not healthy but the hardware is okay (power outage, server crash, etc.), skip steps 1 and 2 and in step 8 replace all of A's files with B's files in step 8.

If A is not healthy and the hardware is not okay, replace A with a new machine. Also follow the instructions in the previous paragraph.

To invert the master and slave in a deployment:

- 1. Halt writes on A using the fsync command.
- 2. Make sure B is up to date with the state of A.
- 3. Shut down B.
- 4. Back up and move all data files that begin with local on B from the dbPath to remove the existing local.sources data.

Warning: Removing local.* is irrevocable and cannot be undone. Perform this step with extreme caution.

- 5. Start B with the --master option.
- 6. Do a write on B, which primes the *oplog* to provide a new sync start point.
- 7. Shut down B. B will now have a new set of data files that start with local.
- 8. Shut down A and replace all files in the dbPath of A that start with local with a copy of the files in the dbPath of B that begin with local.

Considering compressing the local files from B while you copy them, as they may be quite large.

- 9. Start B with the --master option.
- 10. Start A with all the usual slave options, but include fastsync.

Creating a Slave from an Existing Master's Disk Image

If you can stop write operations to the *master* for an indefinite period, you can copy the data files from the master to the new *slave* and then start the slave with --fastsync.

Warning: Be careful with --fastsync. If the data on both instances is **not** identical, a discrepancy will exist forever.

fast sync is a way to start a slave by starting with an existing master disk image/backup. This option declares that the administrator guarantees the image is correct and completely up-to-date with that of the master. If you have a full and complete copy of data from a master you can use this option to avoid a full synchronization upon starting the slave.

Creating a Slave from an Existing Slave's Disk Image

You can just copy the other *slave's* data file snapshot without any special options. Only take data snapshots when a mongod process is down or locked using db.fsyncLock().