touch Command   Added the `touch` command to read the data and/or indexes from a collection into memory. See: SERVER-2023[859] and `touch` for more information.

indexCounters No Longer Report Sampled Data   `indexCounters` now report actual counters that reflect index use and state. In previous versions, these data were sampled. See SERVER-5784[860] and `indexCounters` for more information.

Padding Specifiable on compact Command   See the documentation of the `compact` and the SERVER-4018[861] issue for more information.

Added Build Flag to Use System Libraries   The Boost library, version 1.49, is now embedded in the MongoDB code base.

If you want to build MongoDB binaries using system Boost libraries, you can pass `scons` using the `--use-system-boost` flag, as follows:

```
scons --use-system-boost
```

When building MongoDB, you can also pass `scons` a flag to compile MongoDB using only system libraries rather than the included versions of the libraries. For example:

```
scons --use-system-all
```

See the SERVER-3829[862] and SERVER-5172[863] issues for more information.

Memory Allocator Changed to TCMalloc   To improve performance, MongoDB 2.2 uses the TCMalloc memory allocator from Google Perftools. For more information about this change see the SERVER-188[864] and SERVER-4683[865]. For more information about TCMalloc, see the documentation of TCMalloc[866] itself.

Replication

Improved Logging for Replica Set Lag   When *secondary* members of a replica set fall behind in replication, `mongod` now provides better reporting in the log. This makes it possible to track replication in general and identify what process may produce errors or halt replication. See SERVER-3575[867] for more information.

Replica Set Members can Sync from Specific Members   The new `replSetSyncFrom` command and new `rs.syncFrom()` helper in the `mongo` shell make it possible for you to manually configure from which member of the set a replica will poll *oplog* entries. Use these commands to override the default selection logic if needed. Always exercise caution with `replSetSyncFrom` when overriding the default behavior.

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[859] https://jira.mongodb.org/browse/SERVER-2023
[860] https://jira.mongodb.org/browse/SERVER-5784
[861] https://jira.mongodb.org/browse/SERVER-4018
[862] https://jira.mongodb.org/browse/SERVER-3829
[863] https://jira.mongodb.org/browse/SERVER-5172
[864] https://jira.mongodb.org/browse/SERVER-188
[865] https://jira.mongodb.org/browse/SERVER-4683
[866] http://goog-perftools.sourceforge.net/doc/tcmalloc.html
[867] https://jira.mongodb.org/browse/SERVER-3575