

FINAL: QUESTION 8

Suppose you have a three node replica set. Node 1 is the primary. Node 2 is a secondary, Node 3 is a secondary running with a delay of two hours. All writes to the database are issued with $w=\text{majority}$ and $j=1$ (by which we mean that the `getLastError` call has those values set).

A write operation (could be insert or update) is initiated from your application using the Node.js driver at $\text{time}=0$. At $\text{time}=5$ seconds, the primary, Node 1, goes down for an hour and node 2 is elected primary. Note that your write operation has not yet returned at the time of the failure. Note also that although you have not received a response from the write, it has been processed and written by Node 1 before the failure. Node 3, since it has a slave delay option set, is lagging.

Will there be a rollback of data on Node 1 when Node 1 comes back up? Choose the best answer.

- ☐ Yes, always
- ☐ No, never
- ☐ Maybe, it depends on whether Node 3 has processed the write
- ☐ Maybe, it depends on whether Node 2 has processed the write

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