

ECC Memory

Yes, this is such a contentious topic I made an entire section just to say it's a waste of money.

Does it help reduce errors? [Absolutely](#).

Unless you're running some truly mission critical services, it's just not worth the cost. You're more likely to suffer data loss/corruption to failed hardware or data rot or cosmic bit flipping than to a memory error. Yes, I realize ECC RAM can mitigate cosmic bit flipping to an extent. Again, it's just not worth the cost for most people. Of course, if you're determined to burn some money, there are worse things you could spend it on.

Ultimately, as long as you are doing proper backups, you're already doing what you reasonably can to prevent data loss. No matter what you do, there's no 100% guaranteed way to prevent data loss. The best you can do is mitigate it and the [3-2-1 backup rule](#) is the most reasonable solution most of us will get. Of course, now I see people [saying it sucks](#). Well, you do what you can afford, I guess.

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