

# The 2019 Laptop Performance Cost To Linux Full-Disk Encryption

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I certainly recommend that everyone uses full-disk encryption for their production systems, especially for laptops you may be bringing with you. In over a decade of using Linux full-disk encryption on my main systems, the overhead cost to doing so has fortunately improved with time thanks to new CPU instruction set extensions, optimizations within the Linux kernel, and faster SSD storage making the performance penalty even less noticeable. As it's been a while since my last look at the Linux storage encryption overhead, here are some fresh results using a Dell XPS laptop running Ubuntu with/without LUKS full-disk encryption.

[2]

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[1] <http://www.tuxmachines.org/taxonomy/term/148>

[2] <http://www.phoronix.com/vr.php?view=27642>