The Meltdown and Spectre vulnerability are the biggest hardware vulnerabilities released, affecting nearly all modern devices. On January 3rd 2018, companies infected by the Spectre exploit began to release security updates for their computers and servers. This update patch is necessary to protect your systems from being exploited by malicious hackers. This blog post describes how to download this security update for your machine so you can be protected against these vulnerabilities. The Meltdown vulnerability was discovered in June 2017 by a group of researchers at Google's Project Zero team, who uncovered it with full details later released on September 13th 2017. The new vulnerabilities are related to the CPU of all modern computers, which make them more vulnerable to hackers. On January 3rd 2018 security researchers announced that the new vulnerabilities were affecting smartphones, laptops, servers, Internet of Things devices and more. The patches are being released in phases by all companies that have been affected by this exploit. The Meltdown vulnerability is related to the way our computers execute instructions on their CPUs. This means that when a computer executes a program it may be able to read data from random memory locations in the same machine in random ways, in an uncontrolled way. This can also be done on a malicious hacker's computer. The vulnerability is related to the way the CPU works and occurs due to the way the operating system handles memory. The Spectre vulnerability is related to speculative execution. It allows attackers who have gained control of an unprivileged process to read memory from other processes in a machine, including sensitive memory like passwords, cryptographic keys and personal information. On January 15th 2018, a new security update was released by Microsoft that fixes these vulnerabilities for all Windows operating systems that are being released in 2018. The company claimed that 90% of their computers have been protected from this exploit. The company has also released security updates for older versions of their operating system that are being phased out, but this security update is recommended. Apple has begun releasing security updates for all affected macOS and iOS systems this month. These updates are automatically installed if your devices are connected to the internet. On January 16th 2018, Redhat announced that all major versions of Redhat Linux have been patched against the Meltdown vulnerability. The company has also included patches for some servers that were impacted by this exploit, known as Spectre. This security update is necessary because Redhat systems are running in a lot of environments, including private networks. The Linux kernel has fixed the Meltdown vulnerability for all versions starting with 3.14 that are being released in 2018. This means that it also includes all versions of the Raspberry Pi 2, 3, B+, 2B and Zero range though 2018. Amazon has released an update to the current version of their AWS cloud environment for its users to download. This security updates will protect you against this vulnerability.

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