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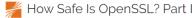
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POSTED IN APPLICATION DELIVERY CONTROLLERS, SSL VPN BY PAUL ANDERSEN



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The passing of the one-year anniversary of the OpenSSL Heartbleed vulnerability – and a recent rash of highly exploitable vulnerabilities with names of lesser cachet - led me to wonder. Just how frequently are OpenSSL vulnerabilities reported, and what are their impacts?

While Array has developed our own proprietary SSL stack for production traffic, we do use OpenSSL for certain of our products' functions such as our XML RPC and SOAP APIs, WebUIs and other non-traffic-related tasks. Thus, this exercise is categorically not about OpenSSL bashing – rather, it's intended to gain a better understanding of the vulnerability landscape and to serve as a foundation for discussion on network security as a whole

The infographic below was compiled from the NIST National Vulnerability Database, and lists vulnerabilities with Exploitability Subscores of 8.5 and higher (with 10 being the highest). While every attempt was made to ensure accuracy and completeness, and the subscore of 8.5 and higher (with 10 being the highest). While every attempt was made to ensure accuracy and completeness, and the subscore of 8.5 and higher (with 10 being the highest). While every attempt was made to ensure accuracy and completeness, and the subscore of 8.5 and higher (with 10 being the highest). While every attempt was made to ensure accuracy and completeness, and the subscore of 8.5 and higher (with 10 being the highest). While every attempt was made to ensure accuracy and completeness, and the subscore of 8.5 and 10 being the highest (with 10 being the highest). While every attempt was made to ensure accuracy and completeness, and the subscore of 8.5 and 10 being the highest (with 10 being the highest). While every attempt was made to ensure accuracy and completeness (with 10 being the highest). While every attempt was made to ensure a subscore of the substhe vast scope of the NIST database makes this a nearly insurmountable task.

As you will see, like almost every software ever created, OpenSSL has had its share of vulnerabilities over the years. Many were reported at or shortly after a major product release, after the 1.0.2 release on Jan. 22, 2015, for example, CVE-2015-0291 and CVE-2015-0292 were reported less than two months later.

In many ways, that's the nature of the beast in open-source software development. The very structure that gives open source such great qualities – multiple developers (often volunteers) working together to create a freely-available code base – can also lead to errors because developers are working independently. However, with an entire community of developers, any errors are typically fixed very quickly, thus mitigating the impact.

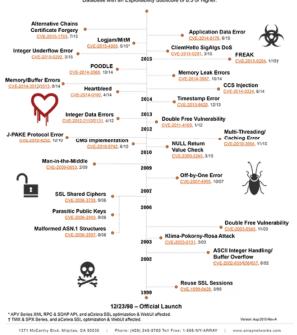
And in all fairness, Array products were vulnerable to a couple of the vulnerabilities listed here, as well as a handful of others with lesser exploitability scores. Usually those vulnerabilities were related to the functions mentioned above, or to our older end-of-sale products like the SPX and TMX Series. Follow the Array Support Twitter feed to keep up to date on all our product

In Part II of this blog series, I'll dig deeper into the differences between open-source development and proprietary code bases, and offer concrete suggestions on keeping your network safe. Until then, let's all be careful out there.



OpenSSL Vulnerability Timeline

A partial list of vulnerabilities submitted to the NIST National Vulnerat Database with an Exploitability Subscore of 8.5 or higher.



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