

Officially released TLS 1.3, promising a faster, safer Internet world

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Recently, the Internet Engineering Task Force (IETF) has completed the revision of the TLS 1.2 protocol, the network security protocol used to protect encrypted web connections. The new version 1.3 promises to bring connectivity not only faster but also safer for users.

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Besides encryption, TLS also helps authenticate HTTPS and API sites. Google has said that every website should be protected with HTTPS and labeling pages without HTTPS is insecure since Chrome 68.

Over the years, TLS 1.2 has encountered many problems - errors in implementing code have caused serious security holes like Heartbleed in 2014. Version 1.3 brings modern and effective encryption technology, remove obsolete old elements.



TLS 1.3 promises to improve speed and security for web connection

TLS 1.3 also has speed improvements. When 'handshake' exchange, the necessary exchange cycles between the browser and the server are limited, meaning that the connection using TLS 1.3 protocol will usually be completed in one exchange, even it is even earlier when using some applications, making the whole process faster. The new version is less resource-intensive, meaning less CPU usage.

Mozilla has announced support for TLS 1.3 in Firefox, Google also supports draft on Chrome 65. Facebook says that more than 50% of their traffic is secured with TLS 1.3

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1. 7 reasons your website needs an SSL certificate
2. What is HTTPS?and why is it needed for your site
3. Websites that use HTTP protocol will have to switch to HTTPS if they do not want to "leak" and "blacklist" Google

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