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Some observations of TLS in the web

Thanks, Hubert and Netcraft

- Hubert Khario does monthly scans of the Alexa top 1M sites (reaches about 50%)
- Visit his website:

  https://securitypitfalls.wordpress.com
- Netcraft has good scans:

  https://news.netcraft.com

Milestones, I

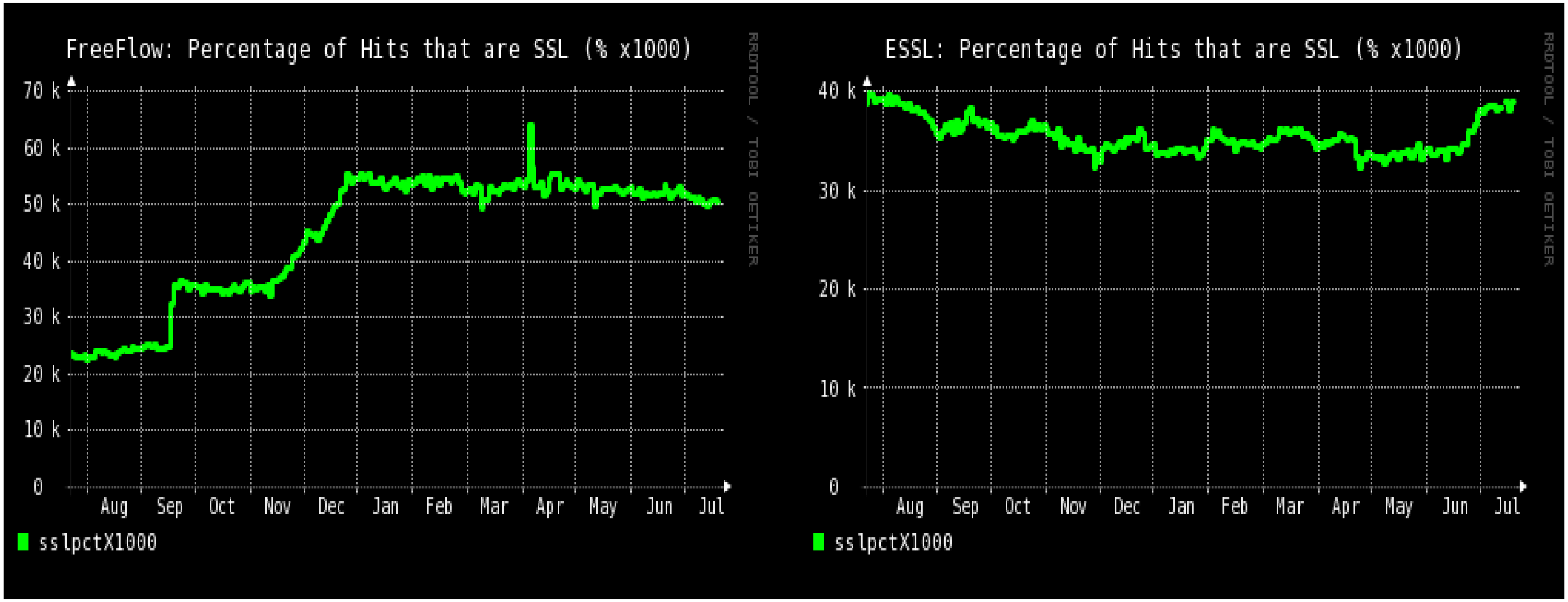
- May 2014: SHA2 doubles from 4 to 8%
  - Why? Heartbleed recertification

- May 2014: TLS 1.2 reaches 50% adoption
  - Seven years after RFC 5246

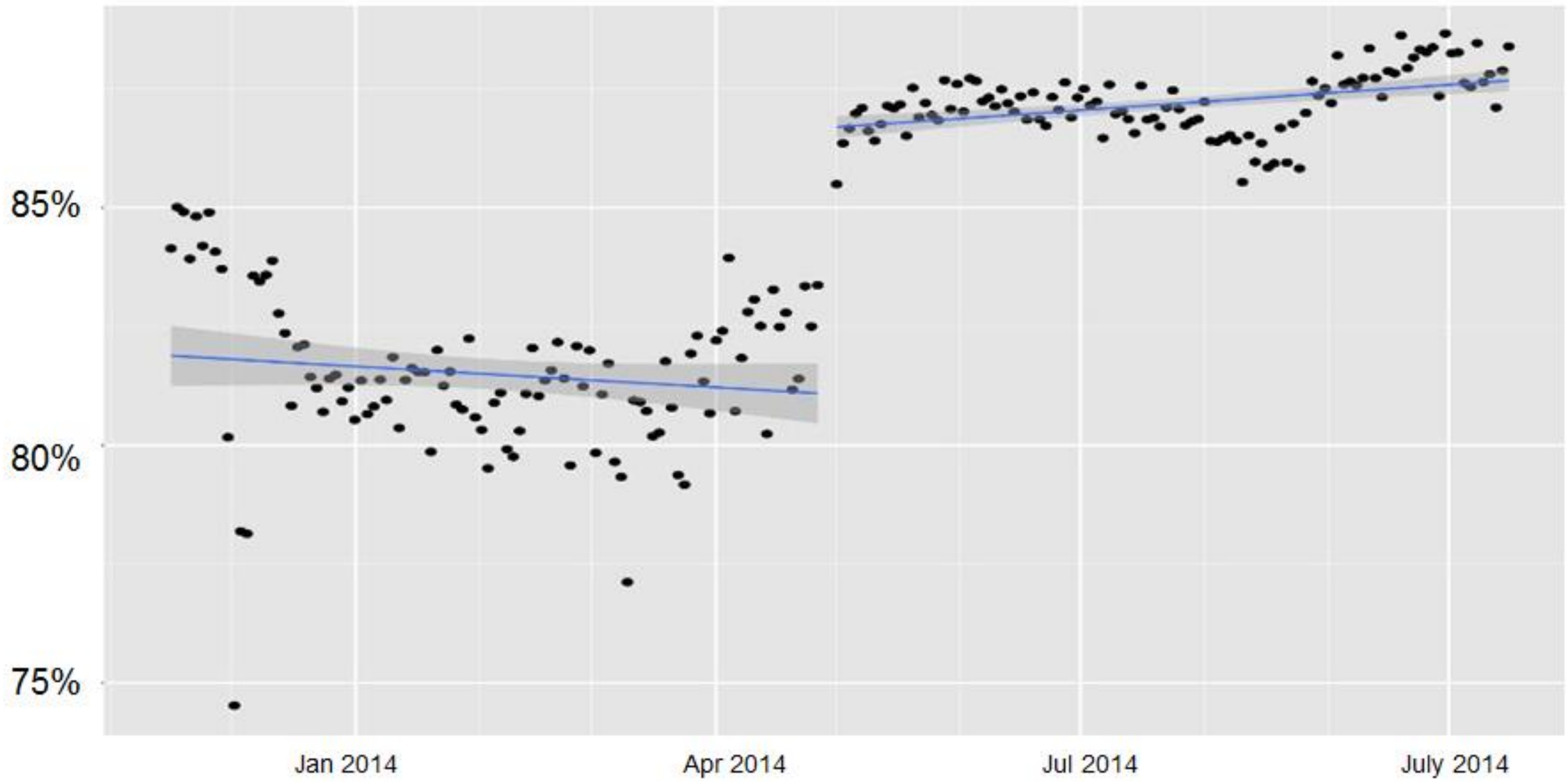
Milestones, II

- September, 2014: CA’s and TLS certs are mostly 2KRSA (99% and 96%); 88% support RC4
- January, 2015: 70% of servers pick the cipher; ECDHE with NIST-P 256 is at 50% (78% total)
- June, 2015: RSA with SHA256 up to over 60%

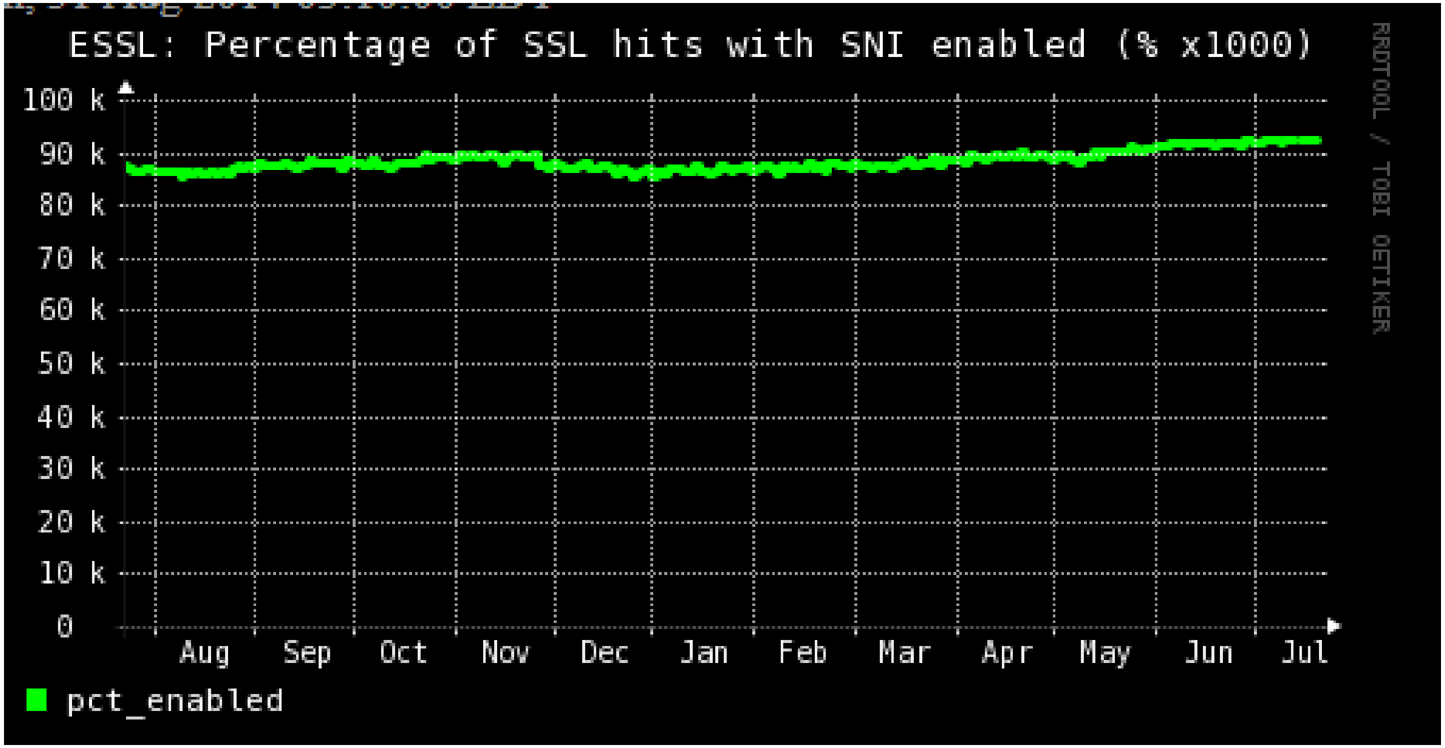
Stats from a CDN: % of SSL traffic



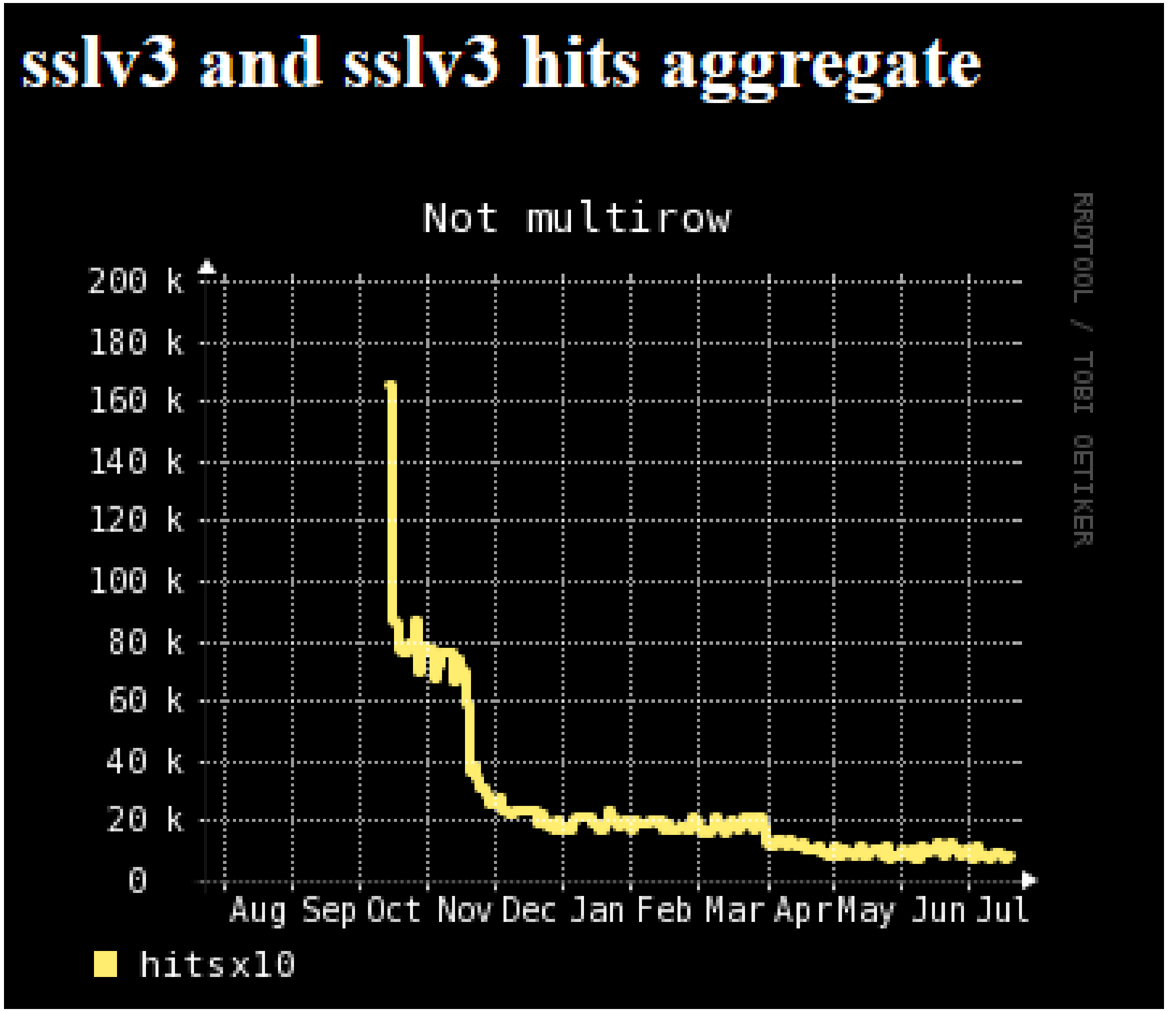
More from a CDN: SNI %



More from a CDN: % of SNI



More from a CDN: SSLv3



Lesson to be learned

- If it ain’t broke, don’t fix it
  - Or
- Nobody updates anything unless forced