TeamViewer

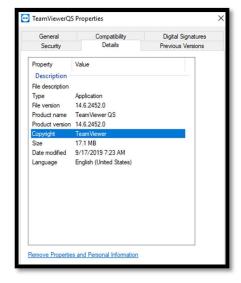
September 18th, 2019.

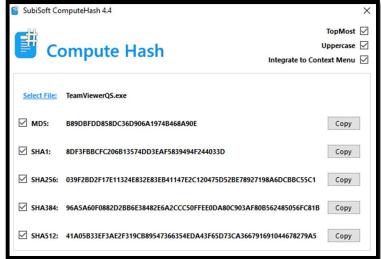
This is a review of TeamViewer. This software is used by organizations to allow remote interaction among users. The JA3 is used to provide TLS/SSL fingerprinting that when used for security reasons results in the ability to identify, log, alert and or block specific traffic in an encrypted network traffic.

The software has a possible integrity vulnerability. While examining the software it was identified a similar JA3 hash signature ("4d7a28d6f2263ed61de88ca66eb011e3") associated with malware samples that could be using encryption to hide themselves in the noise.

A possible explanation for this finding may be due to the inappropriate use of JA3 during the development or recent updates of the software.

1. File Identification (e.g. SHA256)

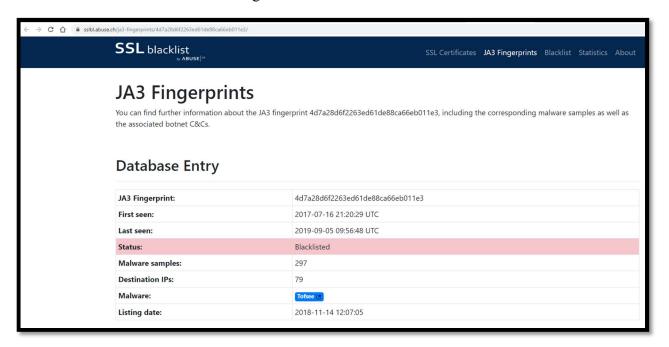




2. JA3 Hash identified:



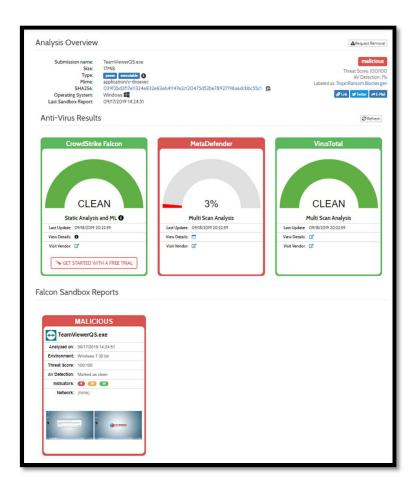
3. The hash can be found referring to malwares like:



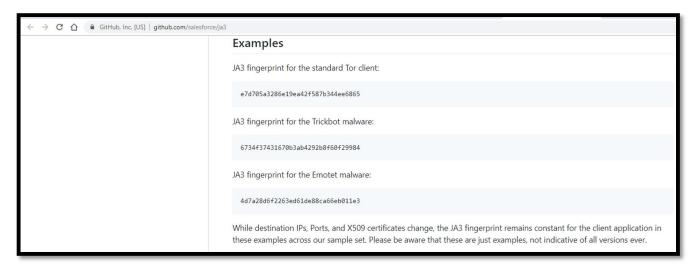


For instance, the Emotet mentioned above could support stealing sensitive and private information.

4. This type of event is difficult to be detected by antivirus tools:



5. A possible explanation for the results obtained may be due to the inappropriate use of the JA3 in the development or recent updates of the software.



References

- https://www.virustotal.com/gui/file/039f2bd2f17e11324e832e83eb41147e2c120475d52b e78927198a6dcbbc55c1/behavior/VirusTotal%20Jujubox
- https://www.hybrid-analysis.com/sample/039f2bd2f17e11324e832e83eb41147e2c120475d52be78927198a6d cbbc55c1
- https://www.trustwave.com/en-us/resources/blogs/spiderlabs-blog/inspecting-encrypted-network-traffic-with-ja3/
- https://www.malwarebytes.com/emotet/
- https://engineering.salesforce.com/tls-fingerprinting-with-ja3-and-ja3s-247362855967
- https://sslbl.abuse.ch/ja3-fingerprints/4d7a28d6f2263ed61de88ca66eb011e3/
- https://github.com/salesforce/ja3