## **ACIDBOX Clustering**

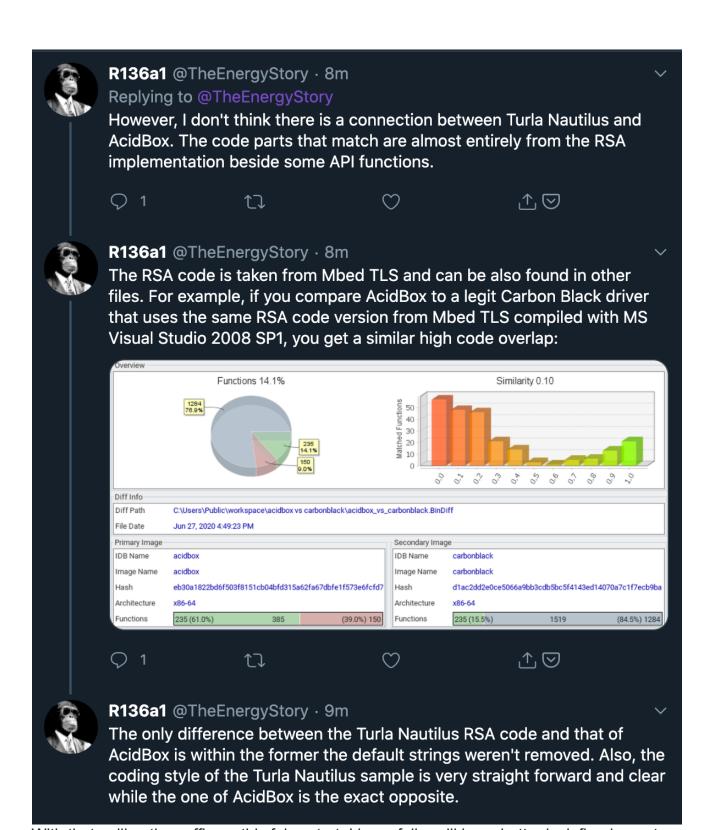
epicturla.com/blog/acidbox-clustering

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Jun 26 Written By <u>J A G-S</u>

**Update 06.29.2020:** As in all things, the wider wisdom of the threat intel community provides greater context. The code overlaps I was pointing to while scarcer were not in fact unique. As <u>@TheEnergyStory</u> points out, it's Mbed TLS put through Visual Studio. Relevant tweets pictured here:

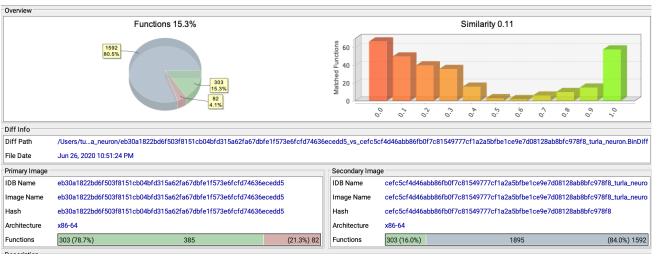


With that nailing the coffin on this false start, I hope folks will have better luck figuring out what to do with this interesting new cluster:)

As I was looking over this blog, I realized I'd inadvertently settled into a once a month post and hadn't been planning to post anything for June. However, doing some routine code similarity work, I stumbled upon something I felt like sharing for others to enjoy over the weekend.

Last week, Palo Alto Unit42 researchers Dominik Reichel and Esmid Idrizovic revealed their discovery of <u>ACIDBOX</u> (a.k.a. KL: MagicScroll), a new and fascinating activity set reminiscent of Remsec (a.k.a., KL\_<u>Project Sauron</u> or SYMC\_<u>Strider</u>) and using an exploit technique of our dear Turla (namesake of this blog). Researchers were cautious about affirmatively clustering ACIDBOX to either in lieu of stronger evidence.

With the prospect of possibly finding a new Remsec or Turla campaign or more of an unknown threat actor, I was eager to work on rules for this set in the hopes of unearthing more context. A few samples have trickled onto VirusTotal over the past week and based on these I was able to construct a well tested code similarity rule. While I haven't had a chance to dig deeper into the findings, I wanted to present a curious early finding others may find interesting:



ACIDBOX (left) and Turla Nautilus Payload (right)

## This ACIDBOX DLL (sha256:

eb30a1822bd6f503f8151cb04bfd315a62fa67dbfe1f573e6fcfd74636ecedd5) shows a good portion of code overlap with a peculiar Turla Nautilus sample reported by <u>NCSC in November 2017</u>. The next stage payload, 'oxygen.dll', is built with the same compiler (Microsoft Visual C/C++ 2013) and linker (Microsoft Linker 12.0), and meant to be decrypted in order to inject into a target process via reflective loading.

While a portion of that similarity may be accounted for by common statically linked code, a shared crypto implementation merits more attention.

eb30a1822bd6f503f8151cb04bfd315a62fa67dbfe1f573e6fcfd74636ecedd5: sub 18001A524

cefc5cf4d46abb86fb0f7c81549777cf1a2a5bfbe1ce9e7d08128ab8bfc978f8: sub\_18002E694

eb30a1822bd6f503f8151cb04bfd315a62fa67dbfe1f573e6fcfd74636ecedd5:
sub 1800179AC

cefc5cf4d46abb86fb0f7c81549777cf1a2a5bfbe1ce9e7d08128ab8bfc978f8: sub\_1800275CC

 eb30a1822bd6f503f8151cb04bfd315a62fa67dbfe1f573e6fcfd74636ecedd5: sub\_180017664

cefc5cf4d46abb86fb0f7c81549777cf1a2a5bfbe1ce9e7d08128ab8bfc978f8: sub 180024D70

Enjoy your weekend and Happy Hunting.

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