Suricata - Task #3195
tracking: rustify all input
09/26/2019 08:41 AM - Victor Julien

Status: New
Priority: High
Assignee: OISF Dev
Category: 
Target version: TBD
Effort: 
Difficulty: 

Label:

Description
Goal is to make sure all untrusted input is handled by Rust code instead of C code.

Related issues:
- Related to Optimization #2977: replace asn1 parser with rust based implementation added
- Related to Optimization #2979: replace mime decoder with rust based implementation added
- Related to Task #2778: tracking: port app-layer parsers to Rust
- Related to Feature #3317: rules: use rust for tokenizing rules
- Related to Bug #3517: Convert DER parser to Rust
- Related to Task #4082: Convert FTP to Rust
- Related to Task #4161: Convert TLS parser to Rust

History
#1 - 09/26/2019 08:42 AM - Victor Julien
- Related to Optimization #2977: replace asn1 parser with rust based implementation added

#2 - 09/26/2019 08:42 AM - Victor Julien
- Related to Optimization #2979: replace mime decoder with rust based implementation added

#3 - 09/26/2019 09:38 AM - Victor Julien
- Related to Task #2778: tracking: port app-layer parsers to Rust added

#4 - 11/05/2019 12:07 PM - Victor Julien
- Related to Feature #3317: rules: use rust for tokenizing rules added

#5 - 02/25/2020 11:11 AM - Victor Julien
- Priority changed from Normal to High

#6 - 03/27/2020 06:42 PM - Victor Julien
- Related to Bug #3517: Convert DER parser to Rust added

#7 - 06/23/2020 06:42 AM - Philippe Antoine
Useful as well for signature parsing cf https://github.com/OISF/suricata/pull/5081/files#r442105437

#8 - 06/25/2020 04:35 PM - Jason Ish
Philippe Antoine wrote in #note-7:

Useful as well for signature parsing cf https://github.com/OISF/suricata/pull/5081/files#r442105437

One example of parsing a part of a signature in Rust is for DNS opcode:
Another example of what to do:
https://github.com/OISF/suricata/pull/5095#discussion_r444300697

Rustify structure `StreamingBufferConfig` so that we can use it easily in Rust.

- Related to Feature #3957: Convert protocol to Rust: Modbus added
- Related to Feature #3958: Convert protocol to Rust: ENIP added
- Related to Task #4082: Convert FTP to Rust added
- Related to Task #4095: tracking: unify rule keyword value parsing added
- Related to Task #4161: Convert TLS parser to Rust added