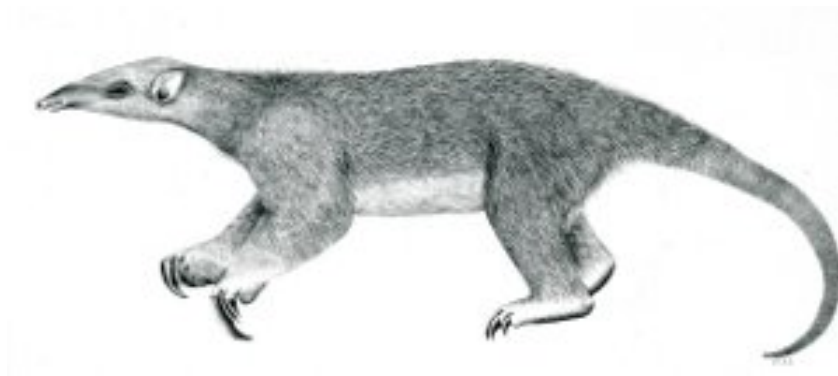

Tranalyzer2

rustExample

T2 Rust plugin example



Tranalyzer Development Team

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1 rustExample

1.1 Description

This plugin is an example on how to use the `t2plugin` crate to create a `Tranalyzer2` plugin in Rust.

`t2plugin` **crate source:** <https://github.com/Tranalyzer/t2plugin>

`t2plugin` **crate documentation:** <https://tranalyzer.com/rustdoc/t2plugin/>

This plugin performs the following three tasks for each flow:

1. Compute the on-wire throughput (from layer 2). This demonstrates how to output a simple column and how to access the `Packet` and `Flow` structures.
2. Extract the `PHPSESSID` cookies from HTTP. This demonstrates how to output a compound column and how to parse text protocols.
3. Extract the Server Name Indication (SNI) from TLS handshakes. This demonstrates how to parse binary protocols.

1.2 Flow File Output

The `rustExample` plugin outputs the following columns:

Column	Type	Description
<code>l2Throughput</code>	D	On-wire throughput in [bytes/s], computed from layer 2.
<code>phpSessIds</code>	R:U8_S	Repetitive compound: phpSessId .
<code>tlsSni</code>	S	TLS handshake Server Name Indication (SNI) extension.

1.2.1 phpSessId

Each compound value in the `phpSessIds` column is to be interpreted as follows:

1st sub-value	Description
0	Cookie sent by the client in a <code>Cookie</code> header
1	Cookie sent by the server in a <code>Set-Cookie</code> header.

The 2nd sub-value contains the value of the `PHPSESSID` cookie.