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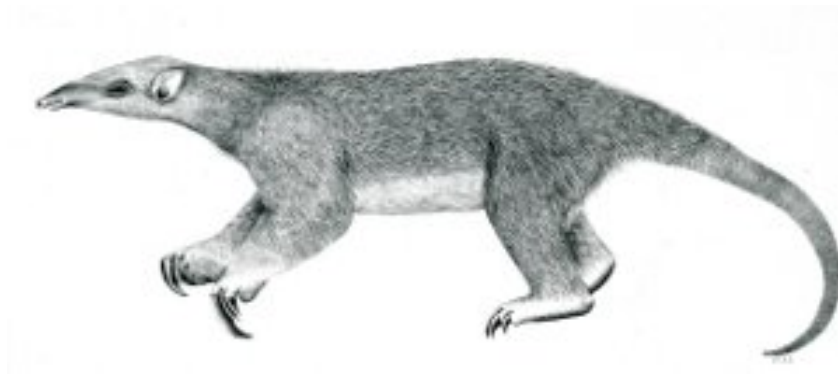
# Tranalyzer2

tp0f



tp0f

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Tranalyzer Development Team

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# 1 tp0f

## 1.1 Description

The tp0f plugin classifies IP addresses according to OS type and version. It uses initial TTL and window size and can also use the rules from p0f. In order to label non-TCP flows, the plugin can store a hash of already classified IP addresses.

### 1.1.1 Required Files

If TP0FRULES=1, then the file `tp0fL34.txt` is required.

## 1.2 Configuration Flags

The following flags can be used to control the output of the plugin:

Name	Default	Description
TP0FRULES	1	0: standard OS guessing; 1: OS guessing and p0f L3/4 rules
TP0FHSH	1	0: no IP hash; 1: IP hash to recognize IP already classified
TP0FRC	0	0: only human readable; 1: tp0f rule and classifier numbers
TP0FL34FILE	"tp0fL34.txt"	file containing converted L3/4 rules

In *tp0flist.h*:

Name	Default	Description
MAXLINELN	4096	maximal line input buffer size for <i>tp0fL34.txt</i>
TCPOPTMAX	40	maximal TCP option byted codes being stored and processed

## 1.3 Flow File Output

The p0f plugin outputs the following columns:

Column	Type	Description
<code>tp0fStat</code>	H8	status
<code>tp0fDis</code>	U8	initial ttl distance
<code>tp0fRN</code>	U16	rule number that triggered
<code>tp0fClass</code>	U8	OS class of rule file
<code>tp0fProg</code>	U8	Program category of rule file
<code>tp0fVer</code>	U8	version category of rule file
<code>tp0fClName</code>	SC	OS class name
<code>tp0fPrName</code>	SC	OS/Program name
<code>tp0fVerName</code>	SC	OS/Program version name

### 1.3.1 tp0fStat

The `tp0fStat` column is to be interpreted as follows:

tp0fStat	Description
0x01	SYN tp0f rule fired
0x02	SYN-ACK tp0f rule fired
0x04	—
0x08	—
0x10	—
0x20	—
0x40	IP already seen by tp0f
0x80	TCP option length or content corrupt

## 1.4 Plugin Report Output

The number of packets which fired a tp0f rule is reported.

## 1.5 TODO

- Integrate TLS rules
- Integrate HTTP rules

## 1.6 References

- <http://www.netresec.com/?page=Blog&month=2011-11&post=Passive-OS-Fingerprinting>
- <http://lcamtuf.coredump.cx/p0f3/>