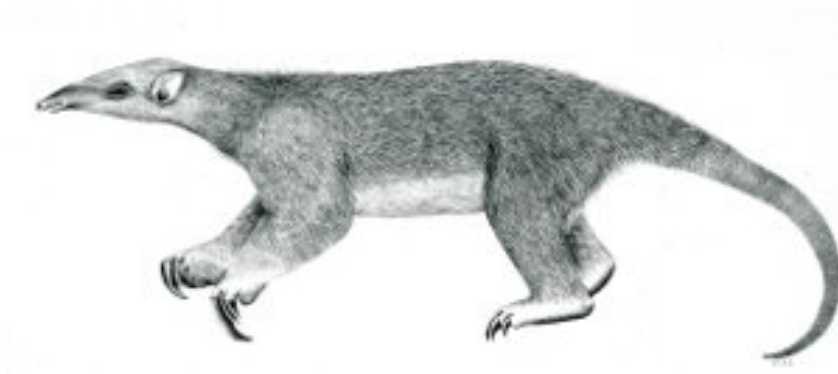

Tranalyzer2

macRecorder



MAC addresses



Tranalyzer Development Team

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1 macRecorder

1.1 Description

The macRecorder plugin provides the source- and destination MAC address as well as the number of packets detected in the flow separated by an underscore. If there is more than one combination of MAC addresses, e.g., due to load balancing or router misconfiguration, the plugin prints all recognized MAC addresses separated by semicolons. The number of distinct source- and destination MAC addresses can be output by activating the MR_NPAIRS flag. The MR_MANUF flags controls the output of the manufacturers for the source and destination addresses. The representation of MAC addresses can be altered using the MR_MAC_FMT flag.

1.2 Dependencies

1.2.1 Required Files

The file `manuf.txt` is required if `MR_MANUF > 0` and file `maclbl.txt` is required if `MR_MACLBL > 0`.

1.3 Configuration Flags

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

Name	Default	Description
MR_MAC_FMT	1	Format for MAC addresses. 0: hex, 1: mac, 2: int
MR_NPAIRS	1	Whether (1) or not (0) to report number of distinct pairs
MR_MANUF	1	0: no manufacturers, 1: short names, 2: long names
MR_MACLBL	0	0: no mac label, 1: mac labeling
MR_MAX_MAC	16	max number of output MAC address per flow

1.4 Flow File Output

The macRecorder plugin outputs the following columns:

Column	Type	Description	Flags
macPairs	U32	Number of distinct src/dst MAC addresses pairs	MR_NPAIRS=1
srcMac_dstMac_numP	H64_H64_U64	Src/Dst MAC addresses, number of packets	MR_MAC_FMT=0
srcMac_dstMac_numP	MAC_MAC_U64	Src/Dst MAC addresses, number of packets	MR_MAC_FMT=1
srcMac_dstMac_numP	U64_U64_U64	Src/Dst MAC addresses, number of packets	MR_MAC_FMT=2
srcManuf_dstManuf	SC_SC	Src/Dst MAC manufacturers	MR_MANUF=1
srcManuf_dstManuf	S_S	Src/Dst MAC manufacturers	MR_MANUF=2
srcLbl_dstLbl	S_S	Src/Dst MAC label	MR_MACLBL>0

1.5 Packet File Output

In packet mode (`-s` option), the macRecorder plugin outputs the following columns:

Column	Description	Flags
srcManuf	Source MAC manufacturer	MR_MANUF=1
dstManuf	Destination MAC manufacturer	MR_MANUF=1

1.6 Example Output

Consider a host with MAC address `aa:aa:aa:aa:aa:aa` in a local network requesting a website from a public server. Due to load balancing, the opposite flow can be split and transmitted via two routers with MAC addresses `bb:bb:bb:bb:bb:bb` and `cc:cc:cc:cc:cc:cc`. The macRecorder plugin then produces the following output:

```
bb:bb:bb:bb:bb:bb_aa:aa:aa:aa:aa:aa_667;cc:cc:cc:cc:cc:cc_aa:aa:aa:aa:aa:aa_666
```