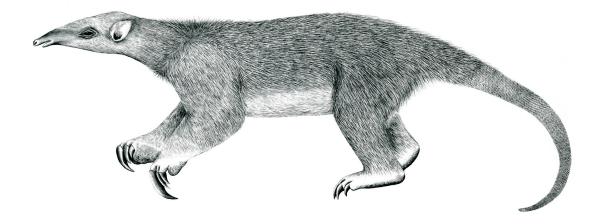
Tranalyzer2

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	Flags
MR_MAC_FMT	1	Format for MAC addresses:	
		0: hex,	
		1: mac,	
		2: int	
MR_NPAIRS	1	Report number of distinct MAC/IP pairs	
MR_MACLBL	2	Format for MAC addresses labels	
		0: no labels,	
		1: numerical (int),	
		2: short Organization	
		3: full Organization	
MR_MAX_MAC	16	Max number of MAC addresses per flow	
MR_NO_MANUF	"_"	Representation of unknown manufacturers	

In addition, the following flags can be found in macLbl.h:

Name	Default	Description	Flags
MAC_SORGLEN	12	Maximum length for 'who' information (short version)	
MAC_ORGLEN	44	Maximum length for 'who' information (long version)	

Note that the name of the MAC label file to load can be controlled with MACLBLFILE in macLbl.h.

1.4 Flow File Output

The macRecorder plugin outputs the following columns:

1.5 Packet File Output 1 MACRECORDER

Column	Туре	Description	Flags
macStat	Н8	Status	
macPairs	U32	Number of distinct src/dst MAC addresses pairs	MR_NPAIRS=1
<pre>srcMac_dstMac_numP</pre>	R(H64_H64_U64)	Src/Dst MAC addresses, number of packets	MR_MAC_FMT=0
<pre>srcMac_dstMac_numP</pre>	R(MAC_MAC_U64)	Src/Dst MAC addresses, number of packets	MR_MAC_FMT=1
<pre>srcMac_dstMac_numP</pre>	R(U64_U64_U64)	Src/Dst MAC addresses, number of packets	MR_MAC_FMT=2
<pre>srcMacLbl_dstMacLbl</pre>	R(U32_U32)	Src/Dst MAC label (numerical)	MR_MACLBL=1
<pre>srcMacLbl_dstMacLbl</pre>	$R(SC_SC)$	Src/Dst MAC label (string_class)	MR_MACLBL=2
<pre>srcMacLbl_dstMacLbl</pre>	$R(S_S)$	Src/Dst MAC label (string)	MR_MACLBL=3

1.4.1 macStat

The macStat column is to be interpreted as follows:

macStat	Description
0x01	MAC list overflowincrease MR_MAX_MAC

1.5 Packet File Output

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

Column	Type	Description	Flags
srcMacLbl	S	Source MAC label	MR_MACLBL>0
dstMacLbl	S	Destination MAC label	MR_MACLBL>0

1.6 Plugin Report Output

The following information is reported:

- Aggregated macStat
- MAC pairs per flow: min, max, average

1.7 Example Output

bb: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