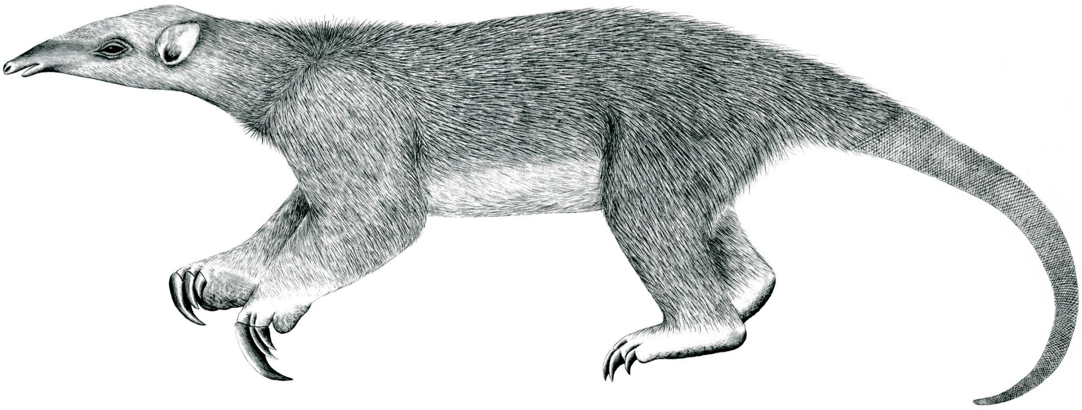
Tranalyzer2

protoStats

Protocol Statistics



Tranalyzer Development Team

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1.1 Description

The protoStats plugin provides protocol/port sorted frequency statistics about the observed OSI layer 4 protocols and ports to the file named PREFIX_protocols. Protocols numbers are decoded via a proto.txt file, automatically installed with the plugin.

1.2 Dependencies

1.2.1 Required Files

The following files are required:

- PST_L2ETHFILE ("ethertypes.txt")
- PST_PORTFILE ("portmap.txt")
- PST_PROTOFILE ("proto.txt")

1.3 Configuration Flags

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

Name	Default	Description
PST_ETH_STAT	1	Output layer 2 statistics
PST_SCTP_STAT	0	Output SCTP statistics
PST_UDPLITE_STAT	0	Output UDP-Lite statistics
PST_SUFFIX	"_protocols.txt"	Suffix for output file

1.3.1 Environment Variable Configuration Flags

The following configuration flags can also be configured with environment variables (ENVCNTRL>0):

- PST_SUFFIX
- PST_L2ETHFILE
- PST_PORTFILE
- PST_PROTOFILE

1.4 Flow File Output

None.

1.5 Additional Output

- PREFIX_protocols.txt: protocol statistics

1.6 Post-Processing

The `protStat` script can be used to sort the `PREFIX_protocols.txt` file for the most or least occurring protocols (in terms of number of packets or bytes). It can output the top or bottom *N* protocols or only those with at least a given percentage.

- list all the options: `protStat --help`
- for better readability, use `protStat` with `tcol`: `protStat ... | tcol`
- sorted list of protocols (by packets): `protStat PREFIX_protocols.txt`
- sorted list of protocols (by bytes): `protStat PREFIX_protocols.txt -b`
- top 10 protocols (by packets): `protStat PREFIX_protocols.txt -n 10`
- bottom 5 protocols (by bytes): `protStat PREFIX_protocols.txt -n -5 -b`
- protocols with packets percentage greater than 20%: `protStat PREFIX_protocols.txt -p 20`
- protocols with bytes percentage smaller than 5%: `protStat PREFIX_protocols.txt -b -p -5`
- TCP and UDP statistics only: `protStat PREFIX_protocols.txt -udp -tcp`