
Packet Sniffer

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PKTSNIFFER MODULE

pktsniffer.py

packet sniffer that: 1. Reads packets from a .pcap file using Scapy 2. Filters by host, IP, port, network, or protocol 3. Prints packet details

Usage:

python pktsniffer.py -r file.pcap [filters...]

`pktsniffer.arguments()`

Parse command line arguments.

Returns

Parsed arguments from command line

Return type

argparse.Namespace

`pktsniffer.main()`

Main for pktsniffer.py 1. Parse arguments 2. Read pcap file 3. Filter packets 4. Print results

`pktsniffer.packet_filter(packets, args)`

Filter packets based on arguments

Parameters

- **packets** (*list*) – List of packet dictionaries
- **args** (*argparse*) – arguments specifying filters

Returns

List of filtered packets

Return type

list

`pktsniffer.print_packet(packet)`

Print the details of a single packet:

1. Ethernet layer
2. IP layer
3. Encapsulated protocols

Parameters

packet (*dict*) – dictionary parsed packet

`pktsniffer.read_file(args)`

Read packets from the .pcap file and convert each into a JSON dict.

Parameters

args (*argparse.Namespace*) – arguments from command line

Returns

List of packet JSON dicts

Return type

list

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