



Using the PCAP SNMP Parser

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Using the PCAP SNMP Parser

The PCAP SNMP parser is a tool to analyze SNMP packets captured in .pcap format. It runs on the switch and generates a statistics report for all of the SNMP get, getnext, getbulk, set, trap, and response requests sent to the switch.

To use the PCAP SNMP parser, use one of the following commands:

- **debug packet-analysis snmp [mgmt0 | inband] duration seconds [output-file] [keep-pcap]**—Captures packets for a specified number of seconds using Tshark, saves them in a temporary .pcap file, and then analyzes them based on this .pcap file.

The results are saved in the output file or printed to the console, if the output file is not specified. The temporary .pcap file is deleted by default, unless you use the **keep-pcap** option. Packet capture can be performed on the management interface (mgmt0), which is the default, or the inband interface.

Examples:

```
switch# debug packet-analysis snmp duration 100

switch# debug packet-analysis snmp duration 100 bootflash:snmp_stats.log

switch# debug packet-analysis snmp duration 100 bootflash:snmp_stats.log keep-pcap

switch# debug packet-analysis snmp inband duration 100

switch# debug packet-analysis snmp inband duration 100 bootflash:snmp_stats.log

switch# debug packet-analysis snmp inband duration 100 bootflash:snmp_stats.log keep-pcap
```

- **debug packet-analysis snmp input-pcap-file [output-file]**—Analyzes the captured packets on an existing .pcap file.

Examples:

```
switch# debug packet-analysis snmp bootflash:snmp.pcap
```

```
switch# debug packet-analysis snmp bootflash:snmp.pcap bootflash:snmp_stats.log
```

The following example shows a sample statistics report for the **debug packet-analysis snmp [mgmt0 | inband] duration** command:

```
switch# debug packet-analysis snmp duration 10
Capturing on eth0
36
wireshark-cisco-mtc-dissector: ethertype=0xde09, devicetype=0x0
wireshark-broadcom-rcpu-dissector: ethertype=0xde08, devicetype=0x0
```

Started analyzing. It may take several minutes, please wait!

Statistics Report

```
-----
SNMP Packet Capture Duration: 0 seconds
```

```
Total Hosts: 1
Total Requests: 18
Total Responses: 18
Total GET: 0
Total GETNEXT: 0
Total WALK: 1 (NEXT: 18)
Total GETBULK: 0
Total BULKWALK: 0 (BULK: 0)
Total SET: 0
Total TRAP: 0
Total INFORM: 0
```

Hosts	GET	GETNEXT	WALK (NEXT)	GETBULK	BULKWALK (BULK)	SET	TRAP	INFORM	RESPONSE
10.22.27.244	0	0	1 (18)	0	0 (0)	0	0	0	18

Sessions

```
-----
1
```

MIB Objects	GET	GETNEXT	WALK (NEXT)	GETBULK (Non_rep/Max_rep)	BULKWALK (BULK, Non_rep/Max_rep)
ifName	0	0	1 (18)	0	0

SET	Hosts
0	10.22.27.244