SNORT 101



Global Commands

Display version: Snort -V

Snort -version

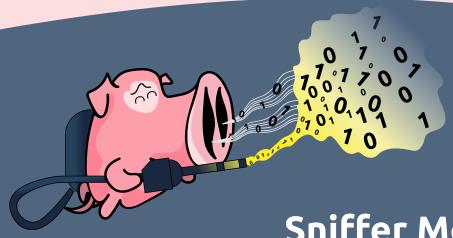
Do not display the version banner:

Snort -q

Use specific interface:

Snort -i eth0





Sniffer Mode

Verbose mode:

Snort -v

Display link-layer headers:

Snort -e

Display data payload:

Snort -d

Display full packet details in HEX:

Snort -X

Multiple flag usage. Display all packet details:

Snort -eX

Sniff "N" number of packets:

Snort -v -n 10

Logger Mode

Default log path: /var/log/snort

Use alternative log path:

Snort -v -l /home/username/Desktop

Log in ASCII format:

Snort-v -K ASCII

Read snort files:

Snort -v -r snort.log

Read "N" number of packets:

Snort -v -r snort.log -n 10

Filter packets with "Berkeley Packet Filters" (BPF):

Snort -v -r snort.log tcp Snort -v -r snort.log 'udp and port 53'



Default Log path -> /var/log/snort"



IDS/IPS Mode

Use configuration file: Snort -c /etc/snort/snort.conf

Test instance and configuration file:

Snort -c /etc/snort/snort.conf -T

Disable logging:

Snort -c /etc/snort/snort.conf -N

Run Snort in background:

Snort -c /etc/snort/snort.conf -D

Alert mode 1 | No output:

Snort -c /etc/snort/snort.conf -v -A none

Alert mode 2 | Console output 1:

Snort -c /etc/snort/snort.conf -v -A console

Alert mode 2 | Console output 2:

Snort -c /etc/snort/snort.conf -v -A cmg

Alert mode 3 | File output 1:

Snort -c /etc/snort/snort.conf -v -A fast

Alert mode 3 | File output 2: Snort -c /etc/snort/snort.conf -v -A full

Use rules without configuration file:

Snort -c /etc/snort/rules/local.rules -v -A console



Process single pcap file:

Snort -c /etc/snort/snort.conf -q -r file.pcap -A console

Process multiple pcap files:

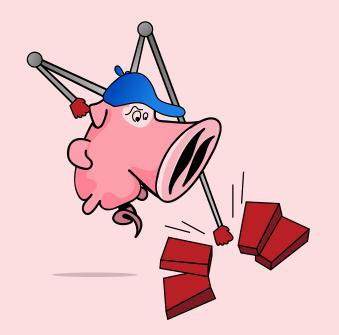
Snort -c /etc/snort/snort.conf -q --pcap-list= "file1.pcap file2.pcap" -A console

Process pcaps from folder:

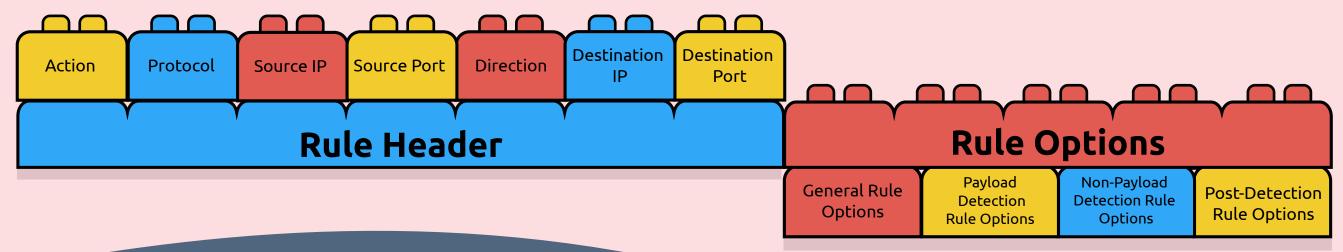
Snort -c /etc/snort/snort.conf -q --pcap-dir=/home/pcap-folder -A console

Show processed pcap name:

Snort -c /etc/snort/snort.conf -q --pcap-list="file1.pcap file2.pcap" -A console --pcap-show



Snort Rule Breakdown





Snort rules are composed of two logical parts;



Rule Header:

This part contains network-based information; action, protocol, source and destination IP addresses, port numbers, and traffic direction.



Rule Options:

This part contains packet-based investigation details; message, reference, flow and content.

Example Rule

Alert rule for possible "Directory Traversal Attempt" detection.

alert tcp \$EXTERNAL_NET any -> \$HOME_NET \$HTTP_PORTS (
 msg:"Directory Traversal Attempt!";
 flow:established;
 nocase; content:"HTTP"; fast_pattern; content:"| 2E 2E 2F|"; content:"/..";
 session:all;
 reference:CVE,XXX;
 sid:100001; rev:1;)

