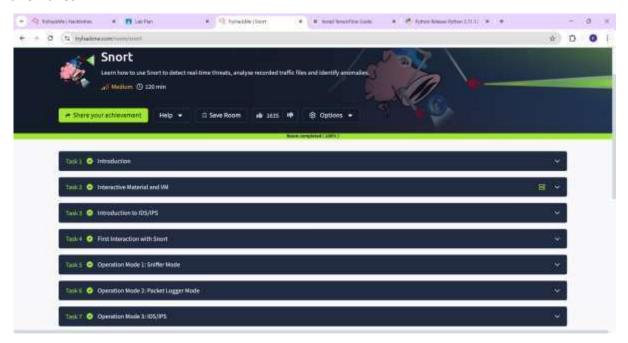
EX NO: 13 DETECTION OF REAL TIME THREATS, ANALYSE RECORDED

DATE: 16.04.202 RECORDED TRAFFIC FILES AND IDENTIFY ANOMALIES

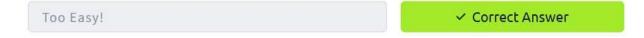
AIM:

Learn how ton use snort to detect real time threats, analyse recorded traffic files and identify anomalies.

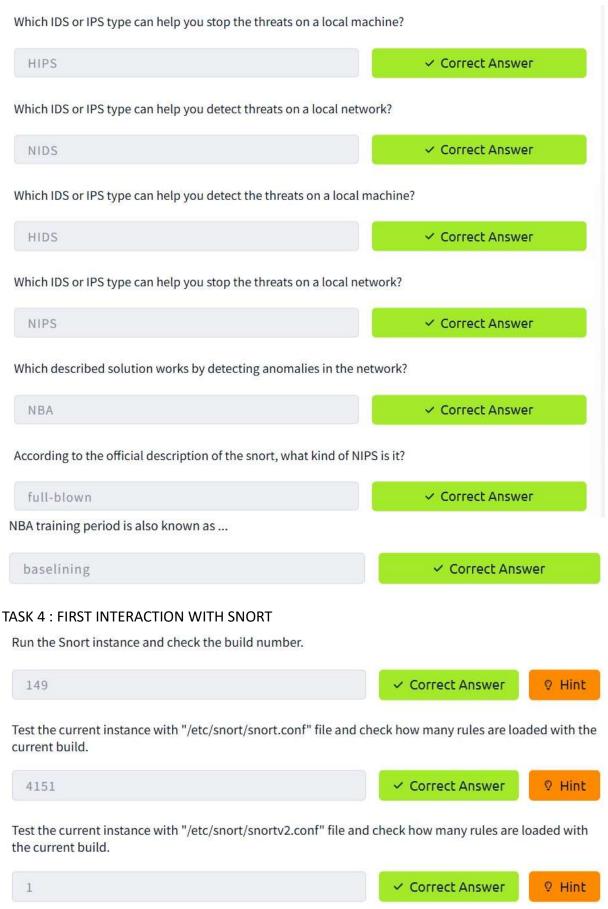


TASK 2: INTERACTIVE MATERIAL AND VM

Navigate to the Task-Exercises folder and run the command "./.easy.sh" and write the output



TASK 3: INTRODUCTION TO IDS/IPS



TASK 5: OPERATON MODE 1: SNIFFER MODE

You can practice the parameter combinations by using the traffic-generator script.

No answer needed Correct Answer

TASK 6: OPERATION MODE 2: PACKET LOGGER MODE

Investigate the traffic with the default configuration file with ASCII mode. sudo snort -dev -K ASCII -1 . Execute the traffic generator script and choose "TASK-6 Exercise". Wait until the traffic ends, then stop the Snort instance. Now analyse the output summary and answer the question. sudo ./traffic-generator.sh Now, you should have the logs in the current directory. Navigate to folder "145.254.160.237". What is the source port used to connect port 53? 3009 ✓ Correct Answer ∀ Hint Use snort.log.1640048004 Read the snort.log file with Snort; what is the IP ID of the 10th packet? snort -r snort.log.1640048004 -n 10 ♥ Hint ✓ Correct Answer 49313 Read the "snort.log.1640048004" file with Snort; what is the referer of the 4th packet? http://www.ethereal.com/development.html ✓ Correct Answer ○ Hint
Read the "snort.log.1640048004" file with Snort; what is the Ack number of the 8th packet? 0x38AFFFF3 ✓ Correct Answer Read the "snort.log.1640048004" file with Snort; what is the number of the "TCP port 80" packets? ✓ Correct Answer ♥ Hint 41

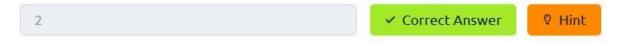
Investigate the traffic with the default configuration file.

sudo snort -c /etc/snort/snort.conf -A full -1 .

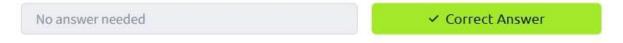
Execute the traffic generator script and choose **"TASK-7 Exercise"**. Wait until the traffic stops, then stop the Snort instance. Now analyse the output summary and answer the question.

sudo ./traffic-generator.sh

What is the number of the detected HTTP GET methods?



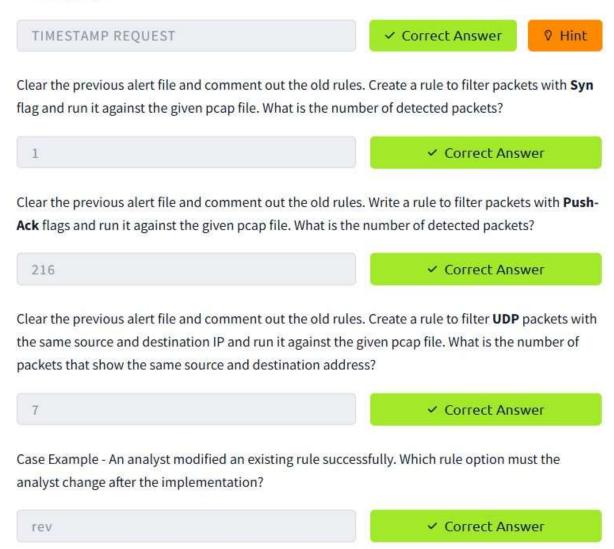
You can practice the rest of the parameters by using the traffic-generator script.



TASK 8: OPERATION MODE 4: PCAP INVESTIGATION

Investigate the mx-1.pcap file with the default configuration file. sudo snort -c /etc/snort/snort.conf -A full -l . -r mx-1.pcap What is the number of the generated alerts? ✓ Correct Answer 170 Keep reading the output. How many TCP Segments are Queued? 18 ✓ Correct Answer Keep reading the output. How many "HTTP response headers" were extracted? 3 ✓ Correct Answer Investigate the mx-1.pcap file with the second configuration file. sudo snort -c /etc/snort/snortv2.conf -A full -l . -r mx-1.pcap What is the number of the generated alerts? ✓ Correct Answer 68 Investigate the mx-2.pcap file with the default configuration file. sudo snort -c /etc/snort/snort.conf -A full -l . -r mx-2.pcap What is the number of the generated alerts? 340 ✓ Correct Answer ♥ Hint Keep reading the output. What is the number of the detected TCP packets? 82 ✓ Correct Answer Investigate the mx-2.pcap and mx-3.pcap files with the default configuration file. sudo snort -c /etc/snort/snort.conf -A full -l . --pcap-list="mx-2.pcap mx-3.pcap" What is the number of the generated alerts? 1020 ✓ Correct Answer

Use "task9.pcap". Write a rule to filter IP ID "35369" and run it against the given pcap file. What is the request name of the detected packet? You may use this command: "snort -c local.rules -A full -l . -r task9.pcap"



TASK 10 SNORT2 OPERATION LOGIC: POINT TO REMEMBER

CONCLUSION:

Detection of real time threrats, analyse recorded traffic files and identify anomalies task is successfully completed.