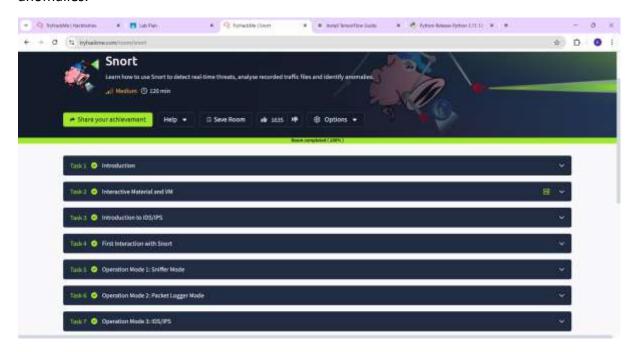
EX NO: 13 DETECTION OF REAL TIME THREATS, ANALYSE RECORDED

DATE: 16.04.202 RECORDED TRAFFIC FILES AND IDENTIFY ANOMALIES

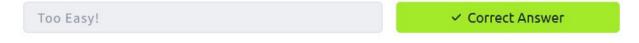
AIM:

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

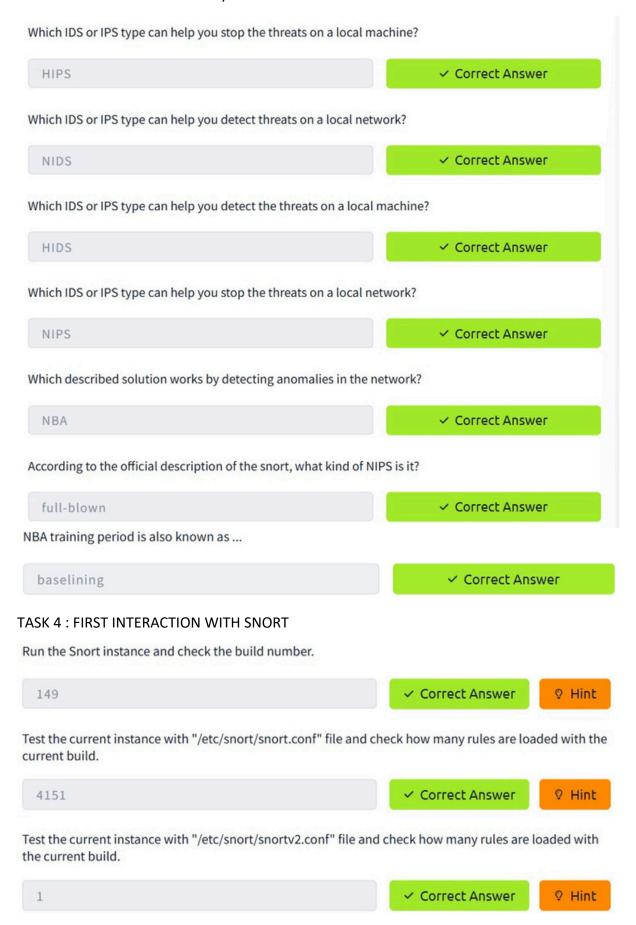


TASK 2: INTERACTIVE MATERIAL AND VM

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

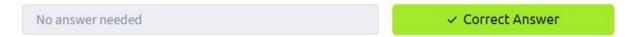


TASK 3: INTRODUCTION TO IDS/IPS



TASK 5 : OPERATON MODE 1 : SNIFFER MODE

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



TASK 6: OPERATION MODE 2: PACKET LOGGER MODE

Investigate the traffic with the default configuration file wi	th ASCII mode.	
sudo snort -dev -K ASCII -1 . Execute the traffic generator script and choose "TASK-6 Ex stop the Snort instance. Now analyse the output summary		ends, then
Now, you should have the logs in the current directory. Nat What is the source port used to connect port 53?	vigate to folder " 145.254.16	0.237".
3009	✓ Correct Answer	♥ Hint
Use snort.log.1640048004		
Read the snort.log file with Snort; what is the IP ID of the 1	0th packet?	
snort -r snort.log.1640048004 -n 10		
49313	✓ Correct Answer	♥ Hint
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 pa	acket?
0x38AFFFF3	✓ Correct Answer	
Read the "snort.log.1640048004" file with Snort; what is packets?	the number of the "TCP por	t 80"
41	✓ Correct Answer	♥ Hint

TASK 7 OPERATION MODE 3: IDS/IPS

Investigate the traffic with the default configuration file.

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

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.

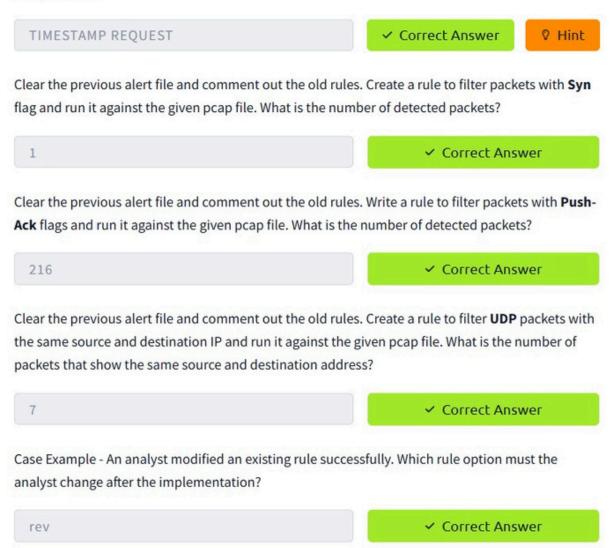


TASK 8: OPERATION MODE 4: PCAP INVESTIGATION

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? ✓ Correct Answer 18 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? ✓ Correct Answer ♥ Hint 340 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? Correct Answer 1020

TASK 9 SNORT RULE STRUCTURE

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.