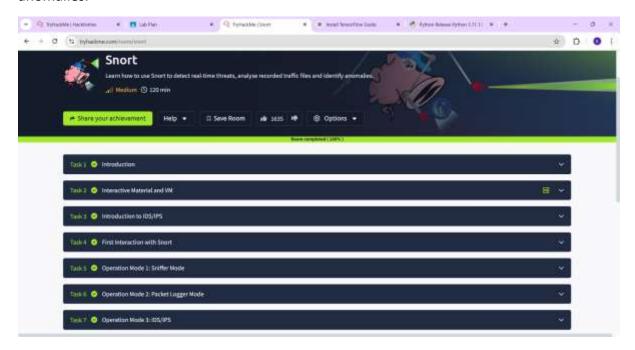
EX NO : 13 DETECTION OF REAL TIME THREATS, ANALYSE RECORDED

DATE: 16.04.202 RECORDED TRAFFIC FILES AND IDENTIFY ANOMALIES

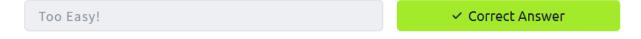
#### AIM:

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

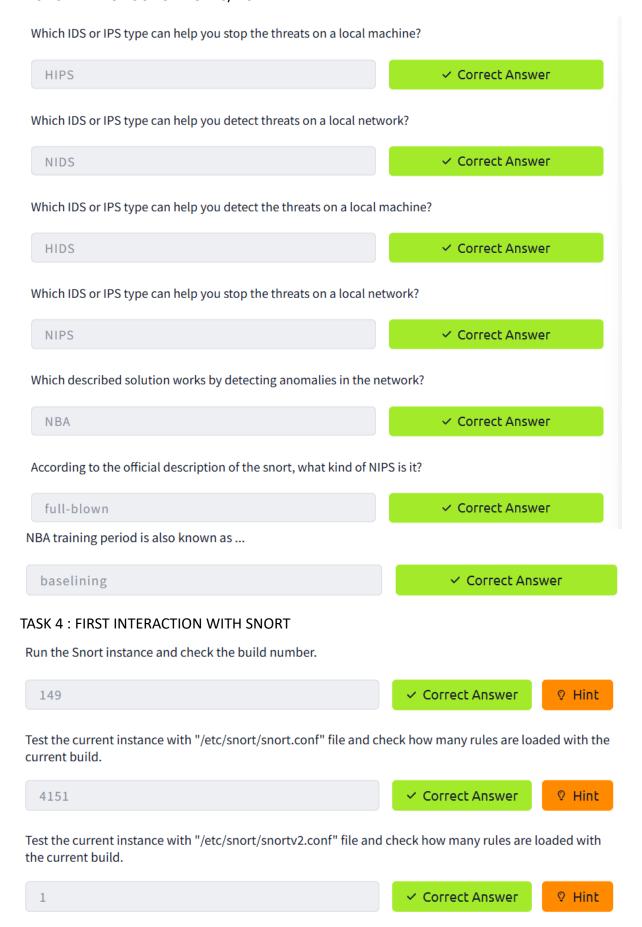


#### TASK 2: INTERACTIVE MATERIAL AND VM

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

ASK 0. OF ENAMON WIDDL 2. FACKET LOGGEN WID	DL	
Investigate the traffic with the default configuration file wit	h ASCII mode.	
sudo snort -dev -K ASCII -1 .  Execute the traffic generator script and choose "TASK-6 Exstop the Snort instance. Now analyse the output summary		c ends, then
sudo ./traffic-generator.sh  Now, you should have the logs in the current directory. Nav What is the source port used to connect port 53?	rigate to folder " <b>145.254.16</b>	0.237".
3009	✓ Correct Answer	∀ Hint
Use <b>snort.log.1640048004</b>		
Read the snort.log file with Snort; what is the IP ID of the 10	Oth packet?	
snort -r snort.log.1640048004 -n 10		
49313	✓ Correct Answer	♥ Hint
Read the " <b>snort.log.1640048004"</b> file with Snort; what is t	he referer of the 4th packet	?
http://www.ethereal.com/development.html	✓ Correct Answer	♥ Hint
Read the " <b>snort.log.1640048004"</b> file with Snort; what is t	the Ack number of the 8th p	acket?
0x38AFFFF3	✓ Correct Answer	
Read the " <b>snort.log.1640048004"</b> file with Snort; what is t packets?	the number of the "TCP por	t 80"
41	✓ Correct Answer	♥ Hint

## TASK 7 OPERATION MODE 3: IDS/IPS

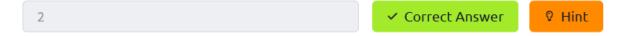
Investigate the traffic with the default configuration file.

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

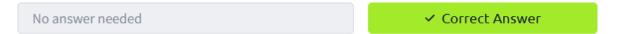
Execute the traffic generator script and choose **"TASK-7 Exercise"**. Wait until the traffic stops, then stop the Snort instance. Now analyse the output summary and answer the question.

## 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.

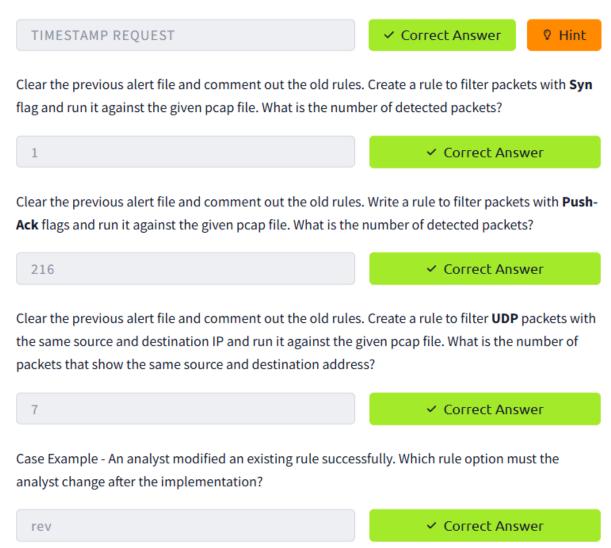


#### TASK 8: OPERATION MODE 4: PCAP INVESTIGATION

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? ♥ Hint ✓ Correct Answer 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.