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TryHackMe NetworkMiner Write-Up





Image from tryhackme.com

This time, we will be using a new tool called NetworkMiner. My assumption is that we're being exposed to many tools as we do not know what tool we may be using in the future. Not only that, there could be some tools that are more efficient for certain things than others. As always, I'll try my best to solve each question without external help, but if I do, I'll document it! As for the answers, I'll still write it but I'll stop after we are done with the Network Security and Traffic Analysis module. Let's get started!

Task 4 Tool Overview 1

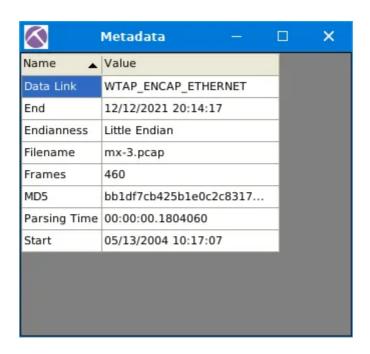
1: Use mx-3.pcap What is the total number of frames?

I had to look at external sources for this one. I wasn't sure where frames were displayed. We have to check the metadata to get this information. I completely forgot that I read this section.

To get the metadata, go right click the file in the "Case Panel" section to the right. Select "Show Metadata." A new window should appear. Drag the columns a bit so you can see clearly what is being displayed.

X





Answer: 460

2: How many IP addresses use the same MAC address with host 145.253.2.203?

Look for the IP address under "Host" tab. Then expand the menu. Expand the "MAC" menu and count number of times it says "same MAC address."

Answer: 2

3: How many packets were sent from host 65.208.228.223?

Look for the IP address under "Host." Expand that menu and look for packets sent.

Answer: 72

4: What is the name of the webserver banner under host 65.208.228.223?

Go to the IP address under "Host" and expand the menu. This time, we are going to look at Host details. Expand that too and the server banner is there.

Answer: Apache

5: Use mx-4.pcap What is the extracted username?

Open mx-4.pcap using NetworkMiner. Head over to the "Credentials" tab. From there, right click the first packet, right click, and select "Copy Username." Paste it onto the answer section.

Answer: #B\Administrator

6: What is the extracted password?

Do the same for the password now. As it's very long, I won't be posting the answer.

Task 5 Tool Overview 2

1: Use mx-7 pcap What is the name of the Linux distro mentioned in the file associated with frame 63075?

I loaded mx-7.pcap file and went to the "files" tab. From there, I scrolled to frame 63075, right clicked it, and opened file. There are three .txt files. I opened one of them and tried looking for any keywords that showed any Linux distributions, and there were!

File To	ols Help						
Hosts (100)	Files (2852) Images (288) Messag	es Credentials (8)	Sessions (5020) DNS (17180) Parameters (72526) Ke			
Filter keyword:							
Frame nr.	Filename	Extension	Size	Source host			
62774	thawte Primary Root CA[323].cer	cer		217.72.201.130 [3c-bs.gmx.com]			
62812	navigator-bs.gmx.com[153].cer	cer		212.227.111.53 [navigator-bs.gmx.com]			
62812	thawte SSL CA - G2[153].cer	cer	1 206 B	212.227.111.53 [navigator-bs.gmx.com]			
62812	thawte Primary Root CA[153].cer	cer	1 060 B	212.227.111.53 [navigator-bs.gmx.com]			
62820	navigator-bs.gmx.com[154].cer	cer	1 221 B	212.227.111.53 [navigator-bs.gmx.com]			
62820	thawte SSL CA - G2[154].cer	cer	1 206 B	212.227.111.53 [navigator-bs.gmx.com]			
62820	thawte Primary Root CA[154].cer	cer	1 060 B	212.227.111.53 [navigator-bs.gmx.com]			
62886	xhr.2790314313063[1].js	js	989 B	54.187.109.244 [tomshardware.co.uk] [www.t			
62914	3c-bs.gmx.com[324].cer	cer	1 207 B	217.72.201.130 [3c-bs.gmx.com]			
62914	thawte SSL CA - G2[324].cer	cer	1 206 B	217.72.201.130 [3c-bs.gmx.com]			
62914	thawte Primary Root CA[324].cer	cer	1 060 B	217.72.201.130 [3c-bs.gmx.com]			
62992	ads.bmp.428AF4A0.bmp	bmp	126 B	80.239.178.178 [a51.dscg10.akamai.net] [a49			
62995	cnvideo.91CC0FF9[16].js	js	0 B	80.239.178.200 [a72.dscg10.akamai.net] [a70			
63055	index.330B74CB.txt	txt	542 B	108.61.16.227 [mirrorlist.centos.org]			
63065	index.5C8E6F3B.txt	txt	582 B	108.61.16.227 [mirrorlist.centos.org]			
63075	index.EE08FE3A.txt	1	F00 B	100 C1 1C 337 (
63159	3c-bs.gmx.com[325].cer	Open file					
63159	thawte SSL CA - G2[325].cer	Open folder					
3159	thawte Primary Root CA[325].						
3191	xhr.130812614025195.js	Copy path to clipboard					
3251	ads.bmp.4AAC7AE4.bmp	File details					
63351	vigator-bs.gmx.com[155].ce						
63351	thawte SSL CA - G2[155].cer Auto-resize all columns						
63351	thawte Primary Root CA(155).			t available in the free version			
63394	3c-bs.gmx.com[326].cer	OSINT hash lookup isn't available in the free version					
63394	thawte SSL CA - G2[326].cer	Sample submision isn't available in the free version					

Answer: CentOS

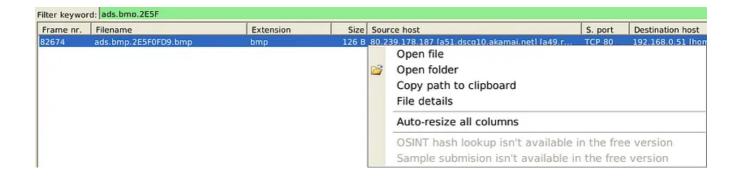
2: What is the header of the page associated with frame 75942?

This time, we will do the same thing but to frame 75942. After you open the file, open the index.html file. The answer is at the top.

Answer: Password-Ned AB

3: What is the source address of the image "ads.bmp.2E5F0FD9.bmp"?

We will be utilizing the search bar. Type the image name in the filter keyword section. Right click the file, and click on file details to see hash values, source address, and more.



Answer: 80.239.178.187

4: What is the frame number of the possible TLS anomaly?

Head over to the "Anomalies" tab. I entered the first frame out of two frames shown and it worked. I'm not sure if both answers would suffice however.

Answer: 36255

5: Use mx-9 file Look at the messages. Which platform sent a password reset email?

We will check out the "Messages" tab and look for anything that might seem like a password related message.

Answer: Facebook

6: What is the email address of Branson Matheson?

On the same screen, we will look for any emails from or to Branson Matheson.

Answer: branson@sandsite.org

Task 6 Version Differences

All the questions here are within the text.

1: Which version can detect duplicate MAC addresses?

Answer: 2.7

2: Which version can handle frames?

Answer: 1.6

3: Which version can provide more details on packet details?

Answer: 1.6

Task 7 Exercises

1: Use case1.pcap What is the OS name of the host 131.151.37.122?

I started with the "Hosts" tab and looked for the IP address. Expand that and look for "OS." I tried out both answers before I looked at the asterisk hint.

Answer: Windows – Windows NT 4

2: Investigate the hosts 131.151.37.122 and 131.151.32.91.

How many data bytes were received from host 131.151.32.91 to host 131.151.37.122 through port 1065?

We are going to expand the "Incoming sessions" menu. There are two incoming sessions but only one that uses port 1065. We will expand the one that uses port 1065.

Answer: 192

3: Investigate the hosts 131.151.37.122 and 131.151.32.21.

How many data bytes were received from host 131.151.37.122 to host 131.151.32.21 through port 143?

We are going to look at the other session that used port 143. Expand that one to get the answer.

Answer: 20769

4: What is the sequence number of frame 9?

The reading did mention that the older version of NetworkMiner has more information regarding frames. I used the older version and opened case1.pcap. I then head over to the "Frames" tab, looked for Frame 9, then expanded the TCP section.

Answer: 2AD77400

5: What is the number of the detected "content types"?

I went back to the newer version and looked at the "Parameters" tab. From there, I clicked on the "Parameter name" column so it will arrange itself in alphabetical order. Then I counted each unique "Parameter value" that matched with "content types."

Answer: 2

6: Use case2.pcap

Investigate the files.

What is the USB product's brand name?

I used the filter and typed in USB. It didn't really help me out a lot. I went to "Images" tab instead to see if there is anything interesting there. I saw a picture of a USB. I opened the image and typed in "AX88772 Demo board USB." It led me to a website and that was the answer! I checked the hint afterwards and said no external research is necessary. Oh well, I suppose there are always multiple ways to solve these questions.

Answer: ASIX

7: What is the name of the phone model?

This one was tough for me. I had to look at how other people did it. I don't know a lot of phone models outside of Samsung, Apple, and Google's products.

First, we will go to "Images" and scroll down past the Simpson and Game icons. We should see the highlight picture, a picture of a phone model called Lumia.



This isn't enough information for our question though. We need the model number too. To do that, we will now go to the "Files" tab and type in "Lumia" in the filter. Two results should come up, one of which will give us the answer!

Answer: Lumia 535

8: What is the source IP of the fish image?

I typed in "fish" in the "Files" tab to see if I can find the image. One result came up. I right clicked it and clicked on File details and found the source IP.

_	I				
Frame nr.	Filename	Extension	Size Source host		
31934	Crazy-Fishing.jpg	jpg	11 113 B 50.22.95.9 [yiv.com] [w		
	Craz	y-Fishing.jpg - File Details	– 🗆 X		
	Destination				
	LastWriteTime	03/06/20	03/06/2015 14:12:26		
	MD5	be2030b	8015e362fc2e155035946c538		
	Name	Crazv-Fi:	shina.ipa		
	Path	/home/u	ountu/Desktop/NetworkMiner 2-7-2/Assen		
	SHA1	d5046c9	6e664dc46e3a090cec0769318fc8b60dc		
	SHA256	0718acd	9aed28bfbcce6b371dfbdf928212113ccea		
	Size	11113			
	Source	50 22 95	50.22.95.9 [viv.com] [www.viv.com]		

Answer: 50.22.95.9

9: What is the password of the "homer.pwned.se@gmx.com"?

I went to the "Credentials" tab and clicked on the "Usernames" tab to arrange it in alphabetical order. Once that is done, look for the email address we need and then the password field.

Answer: spring2015

10: What is the DNS Query of frame 62001?

Head on over the "DNS" tab. Look for the frame number we need, which is 62001. When we find the frame, look for the DNS Query.

Answer: pop.gmx.com

Thoughts

Another tool to add to my arsenal for network analysis. It seems like NetworkMiner compliments Wireshark. NetworkMiner gives a rough rundown of what happened in our network while Wireshark gives us a deeper analysis by inspecting each individual packet. I'm having lots of fun learning these network tools but I'm sure in the real world, it'll be a lot more difficult.







Written by Toumo

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Responses (1)



What are your thoughts?

Respond

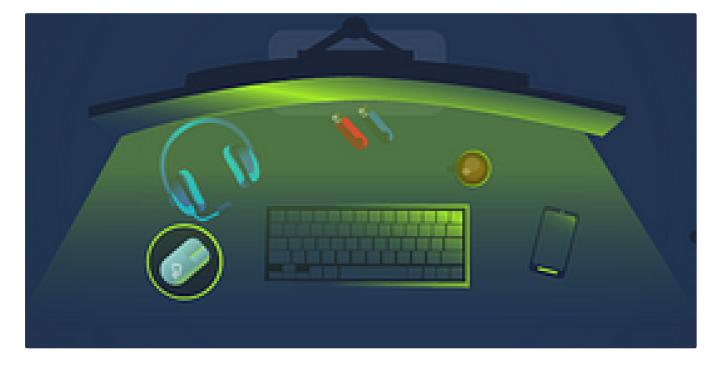


Thank you for the write up. I've wasted an hour of my life trying to find that phone model thinking that there was a phone connected to the network.



Reply

More from Toumo





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Aug 9, 2023 👋 20









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Aug 2, 2023





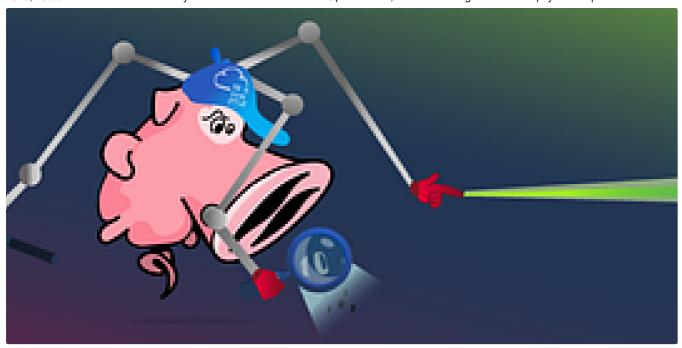


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```
vmlinuz.old
rd.img.old
            lib64
                        media
            lost+found
                                                            vmlinuz
                               proc
                                      run
                                            snap
var/log
log# ls
                                         kern.log
                                                    lxd
cloud-init-output.log
                        dpkg.log
                                                              unattended-upgrades
 cloud-init.log
                        fontconfig.log
                                         landscape
                                                    syslog
                        journal
dist-upgrade
                                         lastlog
                                                    tallylog
log# cat auth.log | grep install
8-55 sudo:
             cybert : TTY=pts/0 ; PWD=/home/cybert ; USER=root ; COMMAND=/usr/bin/
             cybert : TTY=pts/0 ; PWD=/home/cybert ; USER=root ; COMMAND=/usr/bin/
8-55 sudo:
8-55 sudo:
             cybert : TTY=pts/0 ; PWD=/home/cybert ; USER=root ; COMMAND=/bin/chow
hare/dokuwiki/bin /usr/share/dokuwiki/doku.php /usr/share/dokuwiki/feed.php /usr/s
hare/dokuwiki/install.php /usr/share/dokuwiki/lib /usr/share/dokuwiki/vendor -R
log#
```

Dan Molina

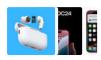
Disgruntled CTF Walkthrough

This is a great CTF on TryHackMe that can be accessed through this link here: https://tryhackme.com/room/disgruntled

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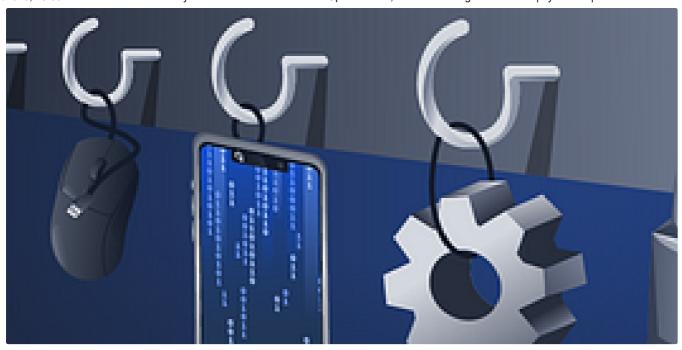


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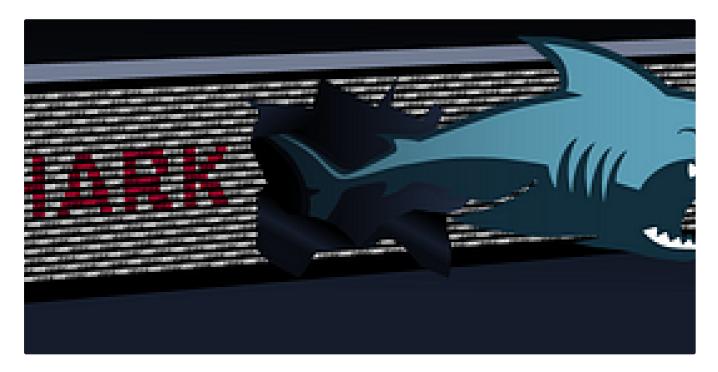




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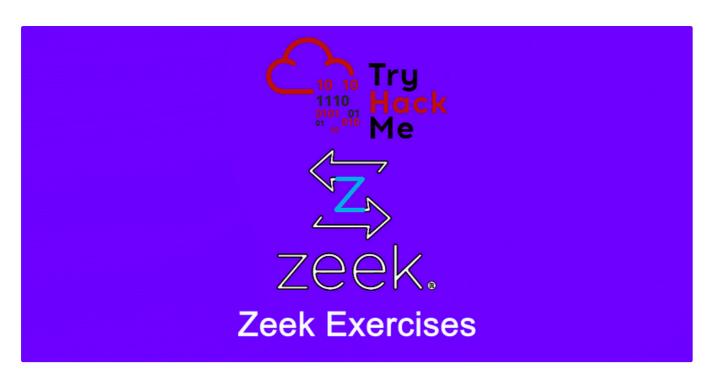


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