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EXERCISE 4

Analyze the Malicious Network Traffic using Wireshark

AIM:

To analyze malicious network traffic using Wireshark to detect unauthorized access, malware communication, and suspicious activities.

Learn > Carnage



Carnage

Apply your analytical skills to analyze the malicious network traffic using Wireshark.

Medium 60 min

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Room completed (100%)

What was the date and time for the first HTTP connection to the malicious IP?
(answer format: yyyy-mm-dd hh:mm:ss)

✓ Correct Answer

What is the name of the zip file that was downloaded?

✓ Correct Answer

What was the domain hosting the malicious zip file?

✓ Correct Answer

Without downloading the file, what is the name of the file in the zip file?

✓ Correct Answer

What is the name of the webserver of the malicious IP from which the zip file was downloaded?

✓ Correct Answer

What is the version of the webserver from the previous question?

✓ Correct Answer

Malicious files were downloaded to the victim host from multiple domains. What were the three domains involved with this activity?

✓ Correct Answer

Hint

Which certificate authority issued the SSL certificate to the first domain from the previous question?

✓ Correct Answer

What are the two IP addresses of the Cobalt Strike servers? Use VirusTotal (the Community tab) to confirm if IPs are identified as Cobalt Strike C2 servers. (answer format: enter the IP addresses in sequential order)

✓ Correct Answer

Hint

What is the Host header for the first Cobalt Strike IP address from the previous question?

✓ Correct Answer

What is the domain name for the first IP address of the Cobalt Strike server? You may use VirusTotal to confirm if it's the Cobalt Strike server (check the Community tab).

✓ Correct Answer

Hint

What is the domain name of the second Cobalt Strike server IP? You may use VirusTotal to confirm if it's the Cobalt Strike server (check the Community tab).

✓ Correct Answer

Hint

What is the domain name of the post-infection traffic?

✓ Correct Answer

Hint

<input type="text" value="securitybusinpufl.com"/>	✓ Correct Answer	🔍 Hint
What is the domain name of the post-infection traffic?		
<input type="text" value="maldivehost.net"/>	✓ Correct Answer	🔍 Hint
What are the first eleven characters that the victim host sends out to the malicious domain involved in the post-infection traffic?		
<input type="text" value="zLlsQPWZl9"/>	✓ Correct Answer	
What was the length for the first packet sent out to the C2 server?		
<input type="text" value="281"/>	✓ Correct Answer	
What was the Server header for the malicious domain from the previous question?		
<input type="text" value="Apache/2.4.49 (cPanel) OpenSSL/1.1.1f mod_bwlimited/1.4"/>	✓ Correct Answer	
The malware used an API to check for the IP address of the victim's machine. What was the date and time when the DNS query for the IP check domain occurred? (answer format: yyyy-mm-dd hh:mm:ss UTC)		
<input type="text" value="2021-09-24 17:00:04"/>	✓ Correct Answer	
What was the domain in the DNS query from the previous question?		
<input type="text" value="api.ipify.org"/>	✓ Correct Answer	
Looks like there was some malicious spam (malspam) activity going on. What was the first MAIL FROM address observed in the traffic?		
<input type="text" value="farshin@mailfa.com"/>	✓ Correct Answer	
How many packets were observed for the SMTP traffic?		
<input type="text" value="1439"/>	✓ Correct Answer	

RESULT:

Malicious network traffic was identified and analyzed using Wireshark, revealing unauthorized access attempts and suspicious DNS queries, with mitigation measures recommended.