

Reaper,papc 、 evtx(gigasheet)

Sherlock Scenario

Our SIEM alerted us to a suspicious logon event which needs to be looked at immediately . The alert details were that the IP Address and the Source Workstation name were a mismatch .You are provided a network capture and event logs from the surrounding time around the incident timeframe. Corelate the given evidence and report back to your SOC Manager.

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About Reaper

Reaper is a very easy Sherlock which covers NTLM relay attacks , comprised of AD Forensics, MITM Attack detection & network forensics. In this sherlock players will analyze network traffic and window event logs to find evidence of NTLM relay attack which are common in active directory environments.

文件：ntlmrelay.pcapng 、 Security.evtx

使用工具：<https://app.gigasheet.com/>

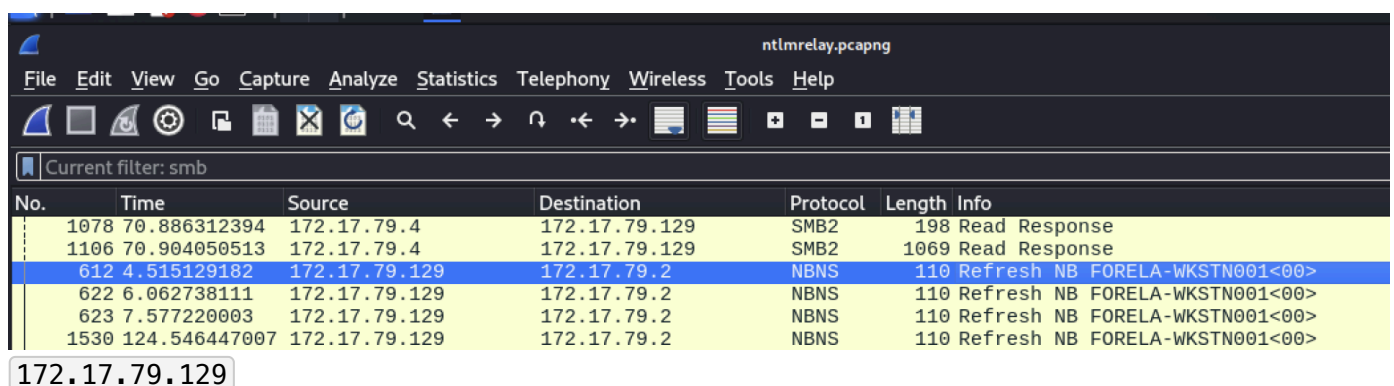
慘了，他們的evtx好像有問題，時間點與封包完全差2個月...

使用先前的EvtxECmd + Timeline Explorer也一樣...

能做就做吧...

Task 1

What is the IP Address for Forela-Wkstn001?



No.	Time	Source	Destination	Protocol	Length	Info
1078	70.886312394	172.17.79.4	172.17.79.129	SMB2	198	Read Response
1106	70.904050513	172.17.79.4	172.17.79.129	SMB2	1069	Read Response
612	4.515129182	172.17.79.129	172.17.79.2	NBNS	110	Refresh NB FORELA-WKSTN001<00>
622	6.062738111	172.17.79.129	172.17.79.2	NBNS	110	Refresh NB FORELA-WKSTN001<00>
623	7.577220003	172.17.79.129	172.17.79.2	NBNS	110	Refresh NB FORELA-WKSTN001<00>
1530	124.546447007	172.17.79.129	172.17.79.2	NBNS	110	Refresh NB FORELA-WKSTN001<00>

172.17.79.129

Task 2

What is the IP Address for Forela-Wkstn002?

filter : smb2 &&ip.addr==172.17.79.136

No.	Time	Source	Destination	Protocol	Length	Info
1505	116.536081870	172.17.79.135	172.17.79.136	SMB2	347	Session Setup Response, Error: STATUS_MORE_PROCESSING...
1411	112.556745492	172.17.79.136	172.17.79.4	SMB2	152	Tree Connect Request Tree: \\DC01\IPC\$
1546	128.099313531	172.17.79.136	172.17.79.4	SMB2	152	Tree Connect Request Tree: \\DC01\IPC\$
1418	112.565901644	172.17.79.136	172.17.79.4	SMB2	152	Tree Connect Request Tree: \\DC01\Trip
1420	112.566315545	172.17.79.136	172.17.79.4	SMB2	152	Tree Connect Request Tree: \\DC01\Trip
1422	112.566608349	172.17.79.136	172.17.79.4	SMB2	152	Tree Connect Request Tree: \\DC01\Trip
1424	112.566899230	172.17.79.136	172.17.79.4	SMB2	152	Tree Connect Request Tree: \\DC01\Trip
1426	112.567344810	172.17.79.136	172.17.79.4	SMB2	152	Tree Connect Request Tree: \\DC01\Trip
1428	112.567600707	172.17.79.136	172.17.79.4	SMB2	152	Tree Connect Request Tree: \\DC01\Trip
1430	112.567878203	172.17.79.136	172.17.79.4	SMB2	152	Tree Connect Request Tree: \\DC01\Trip
1432	112.568175286	172.17.79.136	172.17.79.4	SMB2	152	Tree Connect Request Tree: \\DC01\Trip
1553	128.102532294	172.17.79.136	172.17.79.4	SMB2	152	Tree Connect Request Tree: \\DC01\Trip
1555	128.102795083	172.17.79.136	172.17.79.4	SMB2	152	Tree Connect Request Tree: \\DC01\Trip
1557	128.103108146	172.17.79.136	172.17.79.4	SMB2	152	Tree Connect Request Tree: \\DC01\Trip
1559	128.103369773	172.17.79.136	172.17.79.4	SMB2	152	Tree Connect Request Tree: \\DC01\Trip
1199	97.977977002	172.17.79.136	172.17.79.135	SMB2	146	Tree Connect Request Tree: \\D\IPC\$
1231	97.993065158	172.17.79.136	172.17.79.135	SMB2	146	Tree Connect Request Tree: \\D\IPC\$
1508	116.537648196	172.17.79.136	172.17.79.135	SMB2	146	Tree Connect Request Tree: \\D\IPC\$

\\DC01\Trip

Task 6

What is the source port used to logon to target workstation using the compromised account?

Source	Source Port	Destination	Protocol	Length	Info
172.17.79.135	51476	172.17.79.1	SMB2	250	Negotiate Protocol Request
172.17.79.135	43532	172.17.79.129	SMB2	238	Negotiate Protocol Request
172.17.79.135	40090	172.17.79.4	SMB2	250	Negotiate Protocol Request
172.17.79.135	445	172.17.79.136	SMB2	228	Negotiate Protocol Response
172.17.79.135	445	172.17.79.136	SMB2	347	Session Setup Response, Error: STATUS_MORE_PROCESSING_REQUIRE...
172.17.79.135	445	172.17.79.136	SMB2	139	Session Setup Response
172.17.79.135	40252	172.17.79.129	SMB2	164	Negotiate Protocol Request
172.17.79.135	445	172.17.79.136	SMB2	138	Tree Connect Response, Error: STATUS_NETWORK_SESSION_EXPIRED
172.17.79.135	40252	172.17.79.129	SMB2	186	Session Setup Request, NTLMSSP_NEGOTIATE
172.17.79.135	445	172.17.79.136	SMB2	380	Session Setup Response, Error: STATUS_MORE_PROCESSING_REQUIRE...
172.17.79.135	40252	172.17.79.129	SMB2	664	Session Setup Request, NTLMSSP_AUTH, User: FORELA\arthur.kyle
172.17.79.135	445	172.17.79.136	SMB2	130	Session Setup Response

40252

從這之後封包找不到，只能看別人做的。。。

Task 7

What is the Logon ID for the malicious session?

Event 5140, Microsoft Windows security auditing.

General

Details

A network share object was accessed.

Subject:

Security ID:

S-1-5-21-3239415629-1862073780-2394361899-1601

Account Name:

arthur.kyle

Account Domain:

FORELA

Logon ID:

0x64A799

Network Information:

Object Type:

File

Source Address:

172.17.79.135

Source Port:

40252

Share Information:

Share Name:

*\IPC\$

Share Path:

Log Name:

Security

Source:

Microsoft Windows security: Local Security Authority

0x64A799

Task 8

The detection was based on the mismatch of hostname and the assigned IP Address.What is the workstation name and the source IP Address from which the malicious logon occur?

Network Information:

Workstation Name:

FORELA-WKSTN002

Source Network Address:

172.17.79.135

Source Port:

40252

Detailed Authentication Information:

FORELA-WKSTN002, 172.17.79.135

Task 9

At what UTC time did the the malicious logon happen?

General
Details

☒ Friendly View
☐ XML View

Level

0

Task

12544

Opcode

0

Keywords

0x8020000000000000

- TimeCreated

[SystemTime]

2024-07-31T04:55:16.2405897Z

EventRecordID

14610

- Correlation

[ActivityID]

{ffedc1a7-e2f8-0005-25c2-edfff8e2da01}

- Execution

[ProcessID]

784

[ThreadID]

9120

Channel

Security

2024-07-31 04:55:16

Task 10

What is the share Name accessed as part of the authentication process by the malicious tool used by the attacker?

Source Port:

40252

Share Information:

Share Name:

*\IPC\$

Share Path:

Access Request Information:

Access Mask:

0x1

Accesses:

ReadData (or ListDirectory)

*\IPC\$