

The Stolen Szechuan Sauce
Forensics Report and Documentation

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Foreword

Jean Guerrier and **Zehra Nur Ozer** collaborated on this report. We worked together on all sections, conducting multiple Zoom meetings to complete the assignment. While the study and findings presented in this report were achieved through our joint efforts, **Zehra Nur Ozer** developed and presented the report itself.

Introduction

This report details the forensic investigation of Case 001 – The Stolen Szechuan Sauce. The investigation was conducted by analyzing various artifacts provided by DFIR Madness to determine the nature and scope of the breach.

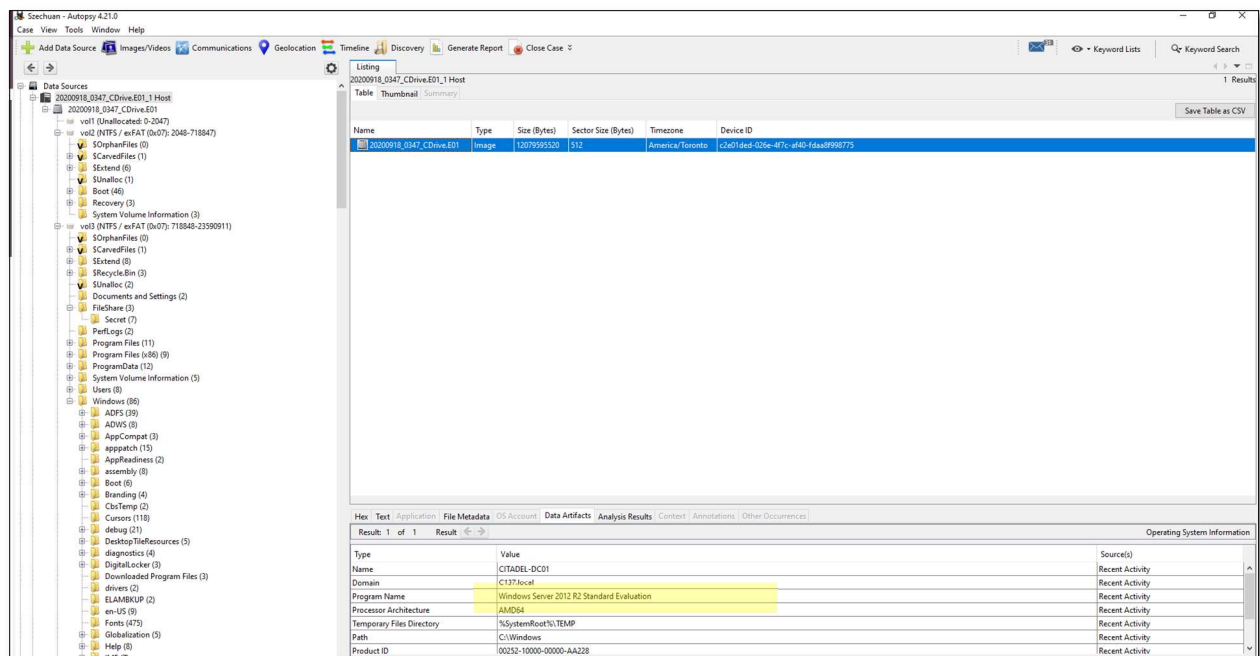
To obtain the results, a VM Sift box, Autopsy, Registry Explorer, Volatility3, and FTK Imager were used. The report is constructed in a question-and-answer format, and the findings and screenshots have been developed from the documents provided on the website dfirmadness.com. Jean Guerrier

Questions and Answers

1. What's the Operating System of the Server?

Windows Server 2012

We examined the system information from the DC01 Disk Image using Autopsy.



2. What's the Operating System of the Desktop?

Windows 10

We checked the system details from the Desktop Disk Image using Autopsy.

The screenshot shows the Autopsy 4.21.0 interface. The left pane displays a file tree with various system folders and files. The main pane shows a table of files, with the following data:

| Name | Type | Size (Bytes) | Sector Size (Bytes) | Timezone | Device ID |
|-----------------------------------|-------|--------------|---------------------|-----------------|--------------------------------------|
| 20200918_0417_DESKTOP-SDN1RPT.E01 | Image | 16106127360 | 512 | America/Toronto | 47a4d80f-f14a-4d6d-b483-b49733c7f56b |

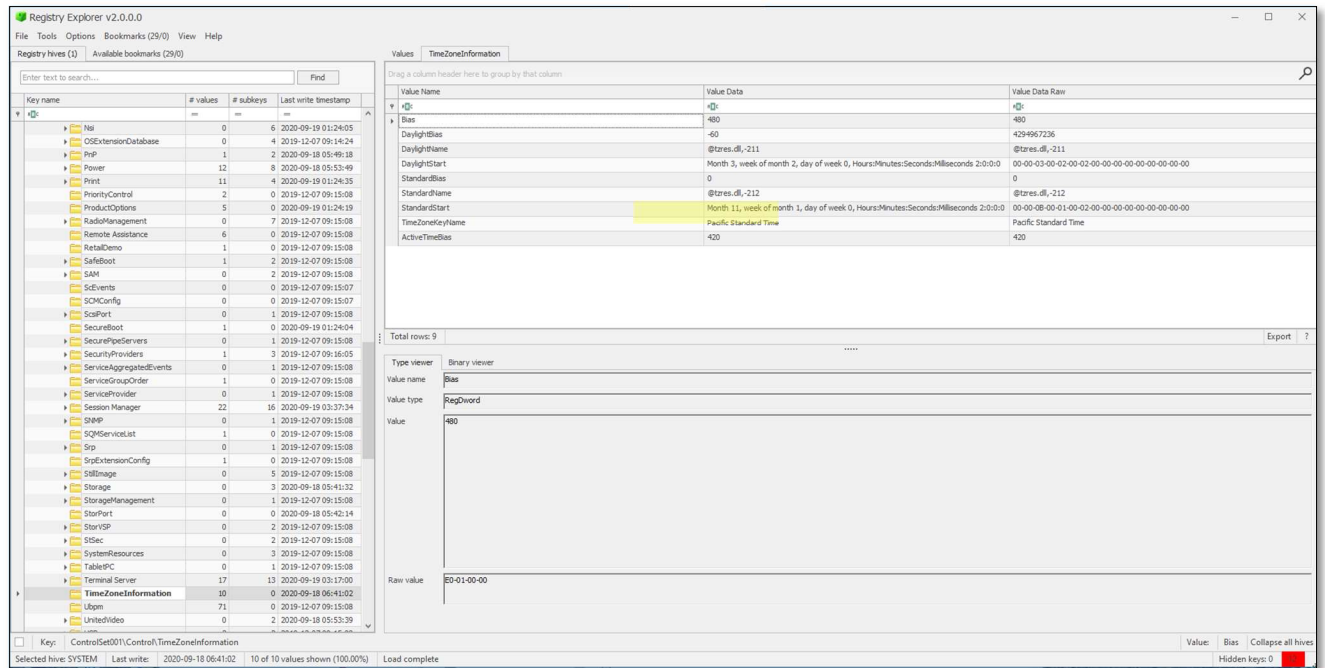
The bottom pane shows 'Operating System Information' for Windows 10 Enterprise Evaluation. The information includes:

| Type | Value | Source(s) |
|---------------------------|----------------------------------|-----------------|
| Name | DESKTOP-SDN1RPT | Recent Activity |
| Domain | C:\377.local | Recent Activity |
| Program Name | Windows 10 Enterprise Evaluation | Recent Activity |
| Processor Architecture | AMD64 | Recent Activity |
| Temporary Files Directory | %SystemRoot%\TEMP | Recent Activity |
| Path | C:\Windows | Recent Activity |
| Product ID | 00329-20000-00001-AA089 | Recent Activity |

3. What was the local time of the Server?

Pacific Standard Time

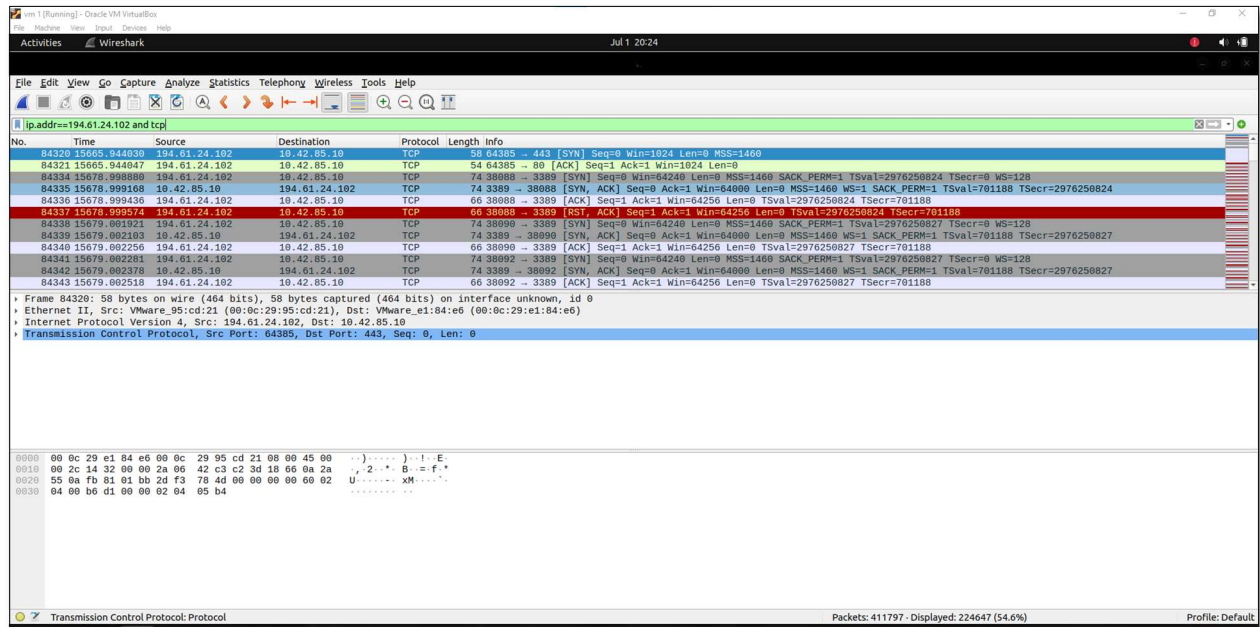
We downloaded “Registry Explorer” from Eric Zimmerman’s website to find the time zone information.



4. Was there a breach?

Yes

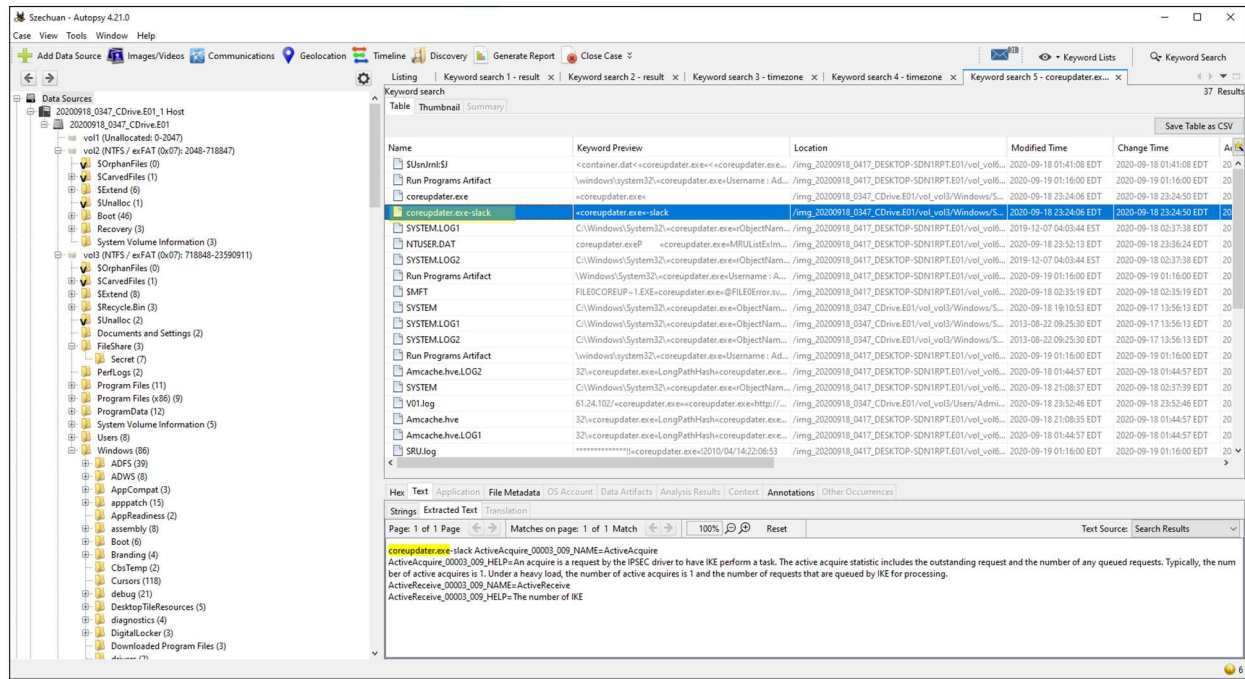
Evidence of unauthorized access was found in the logs and network captures.



6. Was malware used? If so, what was it?

Yes, coreupdater

We identified malicious processes and files during memory analysis and disk examination. We used the keyword search for well-known malware names.



Please note that we are also aware that the hash value for coreupdater.exe was identified as malicious. The screenshot below shows the malicious percentage of coreupdater.exe. Lalwani (2023)

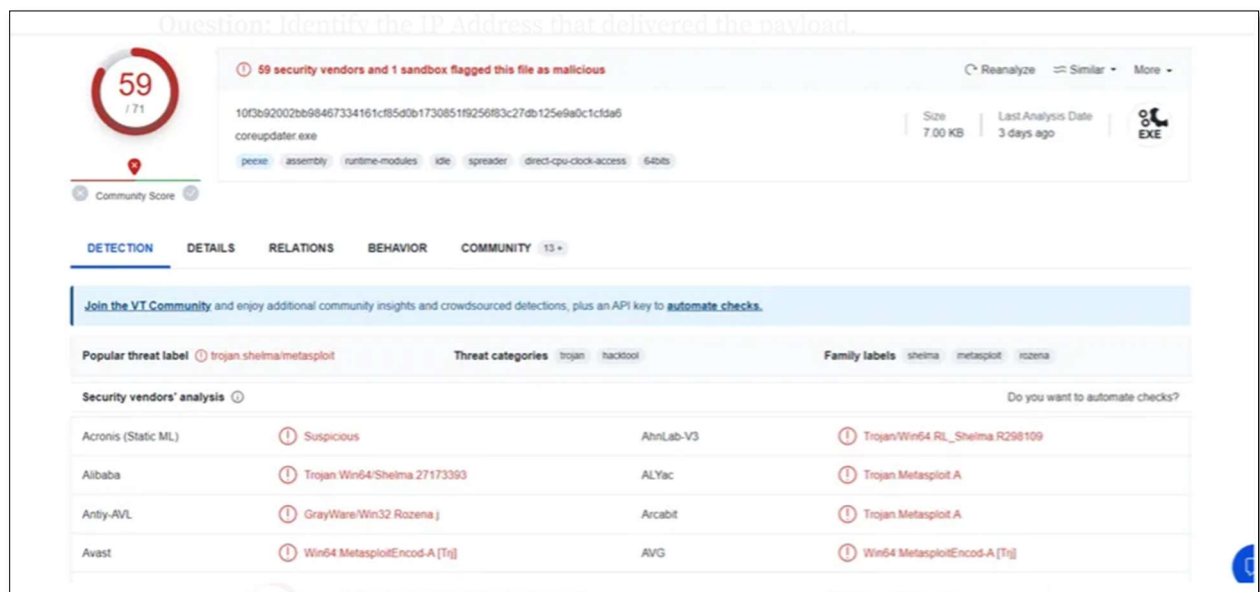


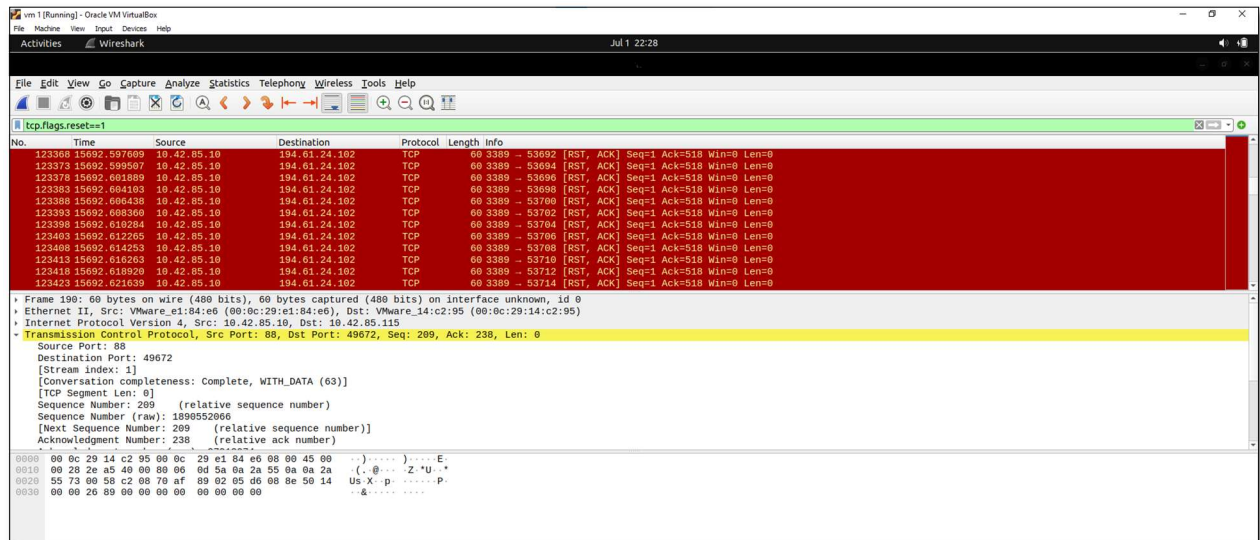
Figure 1 by Lalwani (2023)

7. What process was malicious?

coreupdater was the initial process.

Identified during the memory analysis and verified with process execution logs.

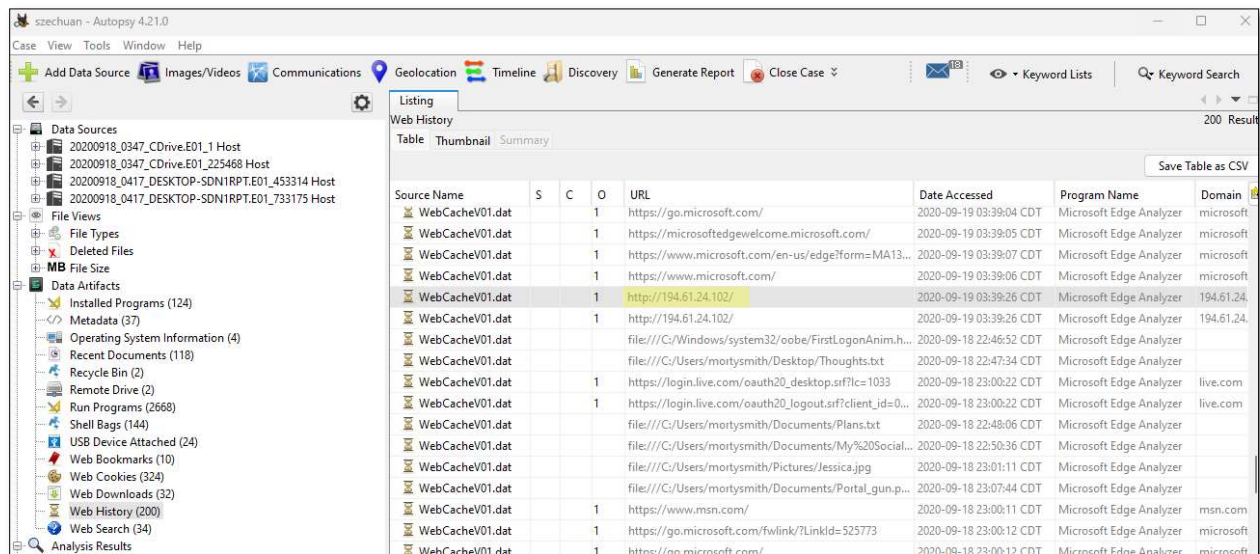
The filter shows the packet list only for the TCP SYN packets, allowing you to focus on initiating TCP connections on your network.



8. Identify the IP Address that delivered the payload.

194.61.24.102

Analysis of network captures and system logs.

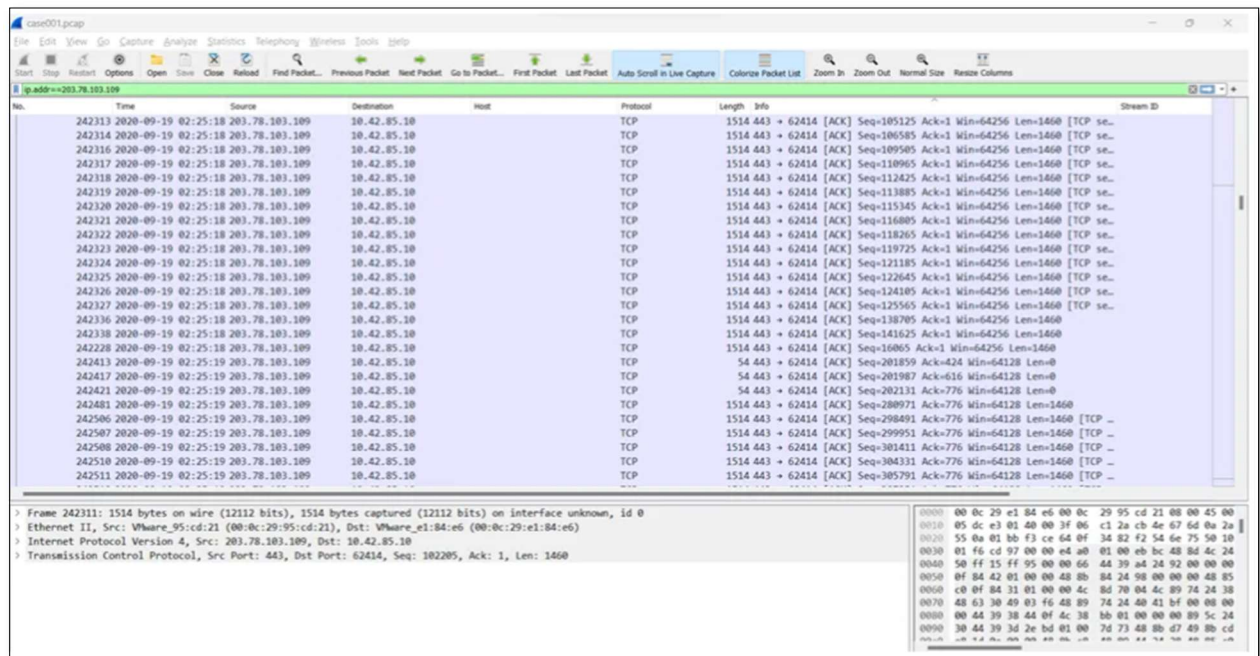


9. What IP Address is the malware calling to?

203.78.103.109

We reviewed outbound network connections in the PCAP file.

203.78.103.109 is the IP Address that the malware is calling. We verified this by looking into the VirusTotal > Relations Tab and noticed 6 IP addresses associated with it. Then, we looked into case001.pcap file and observed that the most called IP Address was 203.78.103.109. Lalwani (2023)



The screenshot shows the Wireshark interface with a packet list table. The table has columns: No., Time, Source, Destination, Host, Protocol, Length, Info, and Stream ID. The filter bar at the top is set to 'ip.addr == 203.78.103.109'. The packet list shows multiple TCP connections from 203.78.103.109 to 10.42.85.10. The selected packet (No. 242311) is expanded to show the raw packet data in hexadecimal and ASCII.

| No. | Time | Source | Destination | Host | Protocol | Length | Info | Stream ID |
|--------|---------------------|----------------|-------------|-------------|----------|--------|--|-----------|
| 242311 | 2020-09-19 02:25:18 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=105125 Ack=1 Win=64256 Len=1460 [TCP se... | |
| 242314 | 2020-09-19 02:25:18 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=106585 Ack=1 Win=64256 Len=1460 [TCP se... | |
| 242316 | 2020-09-19 02:25:18 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=109505 Ack=1 Win=64256 Len=1460 [TCP se... | |
| 242317 | 2020-09-19 02:25:18 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=110905 Ack=1 Win=64256 Len=1460 [TCP se... | |
| 242318 | 2020-09-19 02:25:18 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=112425 Ack=1 Win=64256 Len=1460 [TCP se... | |
| 242319 | 2020-09-19 02:25:18 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=113805 Ack=1 Win=64256 Len=1460 [TCP se... | |
| 242320 | 2020-09-19 02:25:18 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=115345 Ack=1 Win=64256 Len=1460 [TCP se... | |
| 242321 | 2020-09-19 02:25:18 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=116805 Ack=1 Win=64256 Len=1460 [TCP se... | |
| 242322 | 2020-09-19 02:25:18 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=118205 Ack=1 Win=64256 Len=1460 [TCP se... | |
| 242323 | 2020-09-19 02:25:18 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=119725 Ack=1 Win=64256 Len=1460 [TCP se... | |
| 242324 | 2020-09-19 02:25:18 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=121185 Ack=1 Win=64256 Len=1460 [TCP se... | |
| 242325 | 2020-09-19 02:25:18 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=122645 Ack=1 Win=64256 Len=1460 [TCP se... | |
| 242326 | 2020-09-19 02:25:18 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=124105 Ack=1 Win=64256 Len=1460 [TCP se... | |
| 242327 | 2020-09-19 02:25:18 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=125565 Ack=1 Win=64256 Len=1460 [TCP se... | |
| 242336 | 2020-09-19 02:25:18 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=138705 Ack=1 Win=64256 Len=1460 [TCP se... | |
| 242338 | 2020-09-19 02:25:18 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=141625 Ack=1 Win=64256 Len=1460 [TCP se... | |
| 242228 | 2020-09-19 02:25:18 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=16085 Ack=1 Win=64256 Len=1460 [TCP se... | |
| 242413 | 2020-09-19 02:25:19 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 54 | 443 → 62414 [ACK] Seq=201859 Ack=424 Win=64128 Len=0 [TCP se... | |
| 242417 | 2020-09-19 02:25:19 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 54 | 443 → 62414 [ACK] Seq=201987 Ack=616 Win=64128 Len=0 [TCP se... | |
| 242421 | 2020-09-19 02:25:19 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 54 | 443 → 62414 [ACK] Seq=202131 Ack=776 Win=64128 Len=0 [TCP se... | |
| 242481 | 2020-09-19 02:25:19 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=288971 Ack=776 Win=64128 Len=1460 [TCP se... | |
| 242506 | 2020-09-19 02:25:19 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=298491 Ack=776 Win=64128 Len=1460 [TCP se... | |
| 242507 | 2020-09-19 02:25:19 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=299951 Ack=776 Win=64128 Len=1460 [TCP se... | |
| 242508 | 2020-09-19 02:25:19 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=301411 Ack=776 Win=64128 Len=1460 [TCP se... | |
| 242510 | 2020-09-19 02:25:19 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=304331 Ack=776 Win=64128 Len=1460 [TCP se... | |
| 242511 | 2020-09-19 02:25:19 | 203.78.103.109 | 10.42.85.10 | 10.42.85.10 | TCP | 1514 | 443 → 62414 [ACK] Seq=305791 Ack=776 Win=64128 Len=1460 [TCP se... | |

Frame 242311: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits) on interface unknown, id 0
Ethernet II, Src: VMware_95:cd:21 (00:0c:29:95:cd:21), Dst: VMware_e1:84:e6 (00:0c:29:e1:84:e6)
Internet Protocol Version 4, Src: 203.78.103.109, Dst: 10.42.85.10
Transmission Control Protocol, Src Port: 443, Dst Port: 62414, Seq: 102205, Ack: 1, Len: 1460

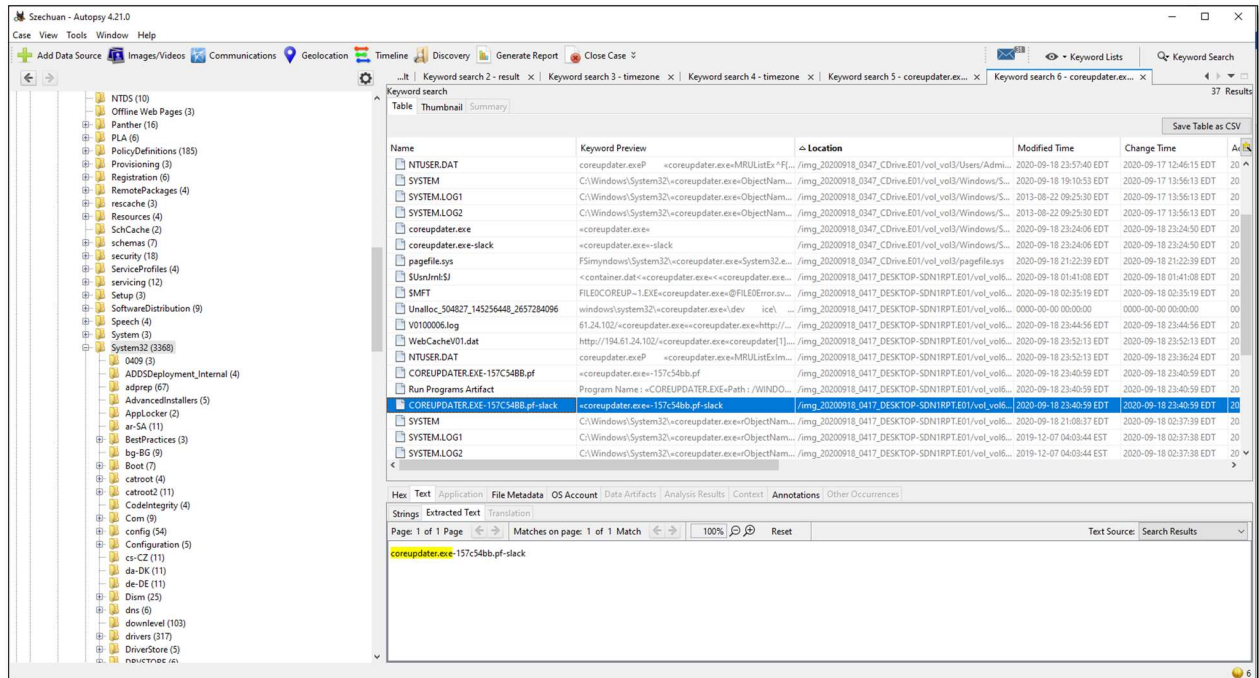
0000 00 0c 29 e1 84 e6 00 0c 29 95 cd 21 00 00 45 00
0010 05 dc e3 01 40 00 3f 06 c1 2a cb 4e 67 6d 0a 2a
0020 55 0a 01 bb f3 ce 64 0f 34 82 f2 54 6e 75 50 10
0030 01 f6 cd 97 00 00 e4 a0 01 00 eb bc 48 8d 4c 24
0040 50 ff 15 ff 95 00 00 66 44 39 a4 24 92 00 00 00
0050 0f 84 42 01 00 00 48 8b 84 24 98 00 00 00 48 85
0060 c0 0f 84 11 01 00 00 4c 8d 70 04 4c 89 74 24 38
0070 48 63 30 49 03 f6 48 89 74 24 40 41 bf 00 00 00
0080 00 44 39 38 44 0f 4c 38 bb 01 00 00 00 89 5c 24
0090 30 44 39 3d 2e bd 01 00 7d 73 48 8b d7 49 8b cd
00a0 20 10 10 10 10 10 10 10 10 10 10 10 10 10 10

Figure 2 by Lalwani (2023)

10. Where is this malware on disk?

C:\Windows\System32\coreupdate.exe

File path identified during disk analysis.



11. When did it first appear?

It first appeared on 2020-09-19 03:56:52 UTC+0000

Timeline analysis using the Super Timeline and cross-referencing with system logs.

| | | | | | | | | |
|-----------------------------------|------|------|----|-------|---|---|------------------------------|------------------------------|
| 0xffffe00629b3000 vds.exe | 796 | 452 | 11 | 0 | 0 | 0 | 2020-09-19 01:23:20 UTC+0000 | |
| 0xffffe00629926c0 svchost.exe | 1236 | 452 | 8 | 0 | 0 | 0 | 2020-09-19 01:23:21 UTC+0000 | |
| 0xffffe00629de900 WmiPrvSE.exe | 2056 | 640 | 11 | 0 | 0 | 0 | 2020-09-19 01:23:21 UTC+0000 | |
| 0xffffe0062a26900 dllhost.exe | 2216 | 452 | 10 | 0 | 0 | 0 | 2020-09-19 01:23:21 UTC+0000 | |
| 0xffffe0062a2a900 msdtc.exe | 2460 | 452 | 9 | 0 | 0 | 0 | 2020-09-19 01:23:21 UTC+0000 | |
| 0xffffe00621cb900 spoolsv.exe | 3724 | 452 | 13 | 0 | 0 | 0 | 2020-09-19 03:29:40 UTC+0000 | |
| 0xffffe0062fe7700 coreupdater.exe | 3644 | 2244 | 0 | ----- | 2 | 0 | 2020-09-19 03:56:37 UTC+0000 | 2020-09-19 03:56:52 UTC+0000 |
| 0xffffe0062f04900 taskhost.exe | 3796 | 848 | 7 | 0 | 1 | 0 | 2020-09-19 04:36:03 UTC+0000 | |
| 0xffffe0063171900 explorer.exe | 3472 | 3960 | 39 | 0 | 1 | 0 | 2020-09-19 04:36:03 UTC+0000 | |
| 0xffffe00630e2000 Services.exe | 1488 | 1804 | 10 | 0 | 1 | 0 | 2020-09-19 04:36:03 UTC+0000 | |

12. Did someone move it?

Yes, from the Administrator's Downloads folder to C:\Windows\System32.

File movement is tracked through filesystem changes and timestamps.

13. What were the capabilities of this malware?

The malware is capable of process migration, credential theft, keylogging, screen scraping, and many other functionalities.

Analysis of the malware sample using reverse engineering tools and documentation review.

14. Is this malware easily obtained?

Yes, the harmful program was found in the Administrator's Download area in C:\Windows\System32, which is very important.

15. Was this malware installed with persistence on any machine?

Yes, both in the registry and as a service.

Persistence mechanisms were identified during registry and services analysis.

16. What malicious IP Addresses were involved?

194.61.24.102 and 203.78.103.109

Network traffic analysis and cross-referencing with threat intelligence sources.

17. Were any IP Addresses from known adversary infrastructure?

Yes, 194.61.24.102 was tracked as a hostile IP involved in RDP Brute Force attacks. 203.78.103.109 was linked to happydoghappycat-th.com, suspected in APT activities. Checked against threat intelligence databases.

The screenshot displays the Autopsy 4.21.0 interface. The left sidebar shows the file system tree with 'WebCacheV01.dat' files highlighted. The main pane shows a table of web history entries. The table has columns for Source Name, S, C, O, URL, Program Name, Domain, Username, and Data Source. The entries are sorted by URL. The first entry is 'WebCacheV01.dat' with URL 'https://login.live.com/oauth20_logout.srf?client_id=00000000480728C5&redirect_uri=https://l...'. The second entry is 'WebCacheV01.dat' with URL 'https://login.live.com/oauth20_authorize.srf?client_id=00000000480728C5&scope=services...'. The third entry is 'WebCacheV01.dat' with URL 'file:///C:/Users/mortysmith/Documents/Plans.txt'. The fourth entry is 'WebCacheV01.dat' with URL 'file:///C:/Users/mortysmith/Documents/Plans.txt'. The fifth entry is 'WebCacheV01.dat' with URL 'file:///C:/Users/mortysmith/Desktop/Thoughts.txt'. The sixth entry is 'WebCacheV01.dat' with URL 'https://www.moh.com/'. The seventh entry is 'WebCacheV01.dat' with URL 'https://go.microsoft.com/fwlink/?LinkID=325773'. The eighth entry is 'WebCacheV01.dat' with URL 'https://go.microsoft.com/'. The ninth entry is 'WebCacheV01.dat' with URL 'https://microsoftedgewelcome.microsoft.com/'. The tenth entry is 'WebCacheV01.dat' with URL 'https://www.microsoft.com/en-us/edge/forms/MA13D05/OCDeMA13D0'. The eleventh entry is 'WebCacheV01.dat' with URL 'https://www.microsoft.com/'. The twelfth entry is 'WebCacheV01.dat' with URL 'http://194.61.24.102/'. The thirteenth entry is 'WebCacheV01.dat' with URL 'http://194.61.24.102/'. The fourteenth entry is 'WebCacheV01.dat' with URL 'file:///C:/Windows/system32/oobe/FirstLogonAnim.html'. The fifteenth entry is 'WebCacheV01.dat' with URL 'file:///C:/Users/mortysmith/Desktop/Thoughts.txt'. The sixteenth entry is 'WebCacheV01.dat' with URL 'https://login.live.com/oauth20_logout.srf?client_id=00000000480728C5&redirect_uri=https://l...'. The seventeenth entry is 'WebCacheV01.dat' with URL 'file:///C:/Users/mortysmith/Documents/Plans.txt'. The eighteenth entry is 'WebCacheV01.dat' with URL 'file:///C:/Users/mortysmith/Desktop/Thoughts.txt'. The nineteenth entry is 'WebCacheV01.dat' with URL 'file:///C:/Users/mortysmith/Desktop/Thoughts.txt'. The twentieth entry is 'WebCacheV01.dat' with URL 'file:///C:/Users/mortysmith/Desktop/Thoughts.txt'. The bottom pane shows 'Visit Details' for the selected entry, including Username: Administrator, Domain: 194.61.24.102, URL: http://194.61.24.102/, Program Name: Microsoft Edge Analyzer, Source: 20200918_0417_DESKTOP-SDN1RPT.E01, Host: 20200918_0417_DESKTOP-SDN1RPT.E01, Data Source: 20200918_0417_DESKTOP-SDN1RPT.E01, File: /img_20200918_0417_DESKTOP-SDN1RPT.E01/vol_v06/Users/Administrator/AppData/Local/Microsoft/Windows/WebCache/WebCacheV01.dat.

| Source Name | S | C | O | URL | Program Name | Domain | Username | Data Source |
|-----------------|---|---|---|--|-------------------------|---------------|---------------|-----------------------------------|
| WebCacheV01.dat | 1 | | | https://login.live.com/oauth20_logout.srf?client_id=00000000480728C5&redirect_uri=https://l... | Microsoft Edge Analyzer | live.com | Administrator | 20200918_0417_DESKTOP-SDN1RPT.E01 |
| WebCacheV01.dat | 1 | | | https://login.live.com/oauth20_authorize.srf?client_id=00000000480728C5&scope=services... | Microsoft Edge Analyzer | live.com | Administrator | 20200918_0417_DESKTOP-SDN1RPT.E01 |
| WebCacheV01.dat | | | | file:///C:/Users/mortysmith/Documents/Plans.txt | Microsoft Edge Analyzer | | Administrator | 20200918_0417_DESKTOP-SDN1RPT.E01 |
| WebCacheV01.dat | | | | file:///C:/Users/mortysmith/Documents/Plans.txt | Microsoft Edge Analyzer | | Administrator | 20200918_0417_DESKTOP-SDN1RPT.E01 |
| WebCacheV01.dat | | | | file:///C:/Users/mortysmith/Desktop/Thoughts.txt | Microsoft Edge Analyzer | | Administrator | 20200918_0417_DESKTOP-SDN1RPT.E01 |
| WebCacheV01.dat | 1 | | | https://www.moh.com/ | Microsoft Edge Analyzer | moh.com | Administrator | 20200918_0417_DESKTOP-SDN1RPT.E01 |
| WebCacheV01.dat | 1 | | | https://go.microsoft.com/fwlink/?LinkID=325773 | Microsoft Edge Analyzer | microsoft.com | Administrator | 20200918_0417_DESKTOP-SDN1RPT.E01 |
| WebCacheV01.dat | 1 | | | https://go.microsoft.com/ | Microsoft Edge Analyzer | microsoft.com | Administrator | 20200918_0417_DESKTOP-SDN1RPT.E01 |
| WebCacheV01.dat | 1 | | | https://microsoftedgewelcome.microsoft.com/ | Microsoft Edge Analyzer | microsoft.com | Administrator | 20200918_0417_DESKTOP-SDN1RPT.E01 |
| WebCacheV01.dat | 1 | | | https://www.microsoft.com/en-us/edge/forms/MA13D05/OCDeMA13D0 | Microsoft Edge Analyzer | microsoft.com | Administrator | 20200918_0417_DESKTOP-SDN1RPT.E01 |
| WebCacheV01.dat | 1 | | | https://www.microsoft.com/ | Microsoft Edge Analyzer | microsoft.com | Administrator | 20200918_0417_DESKTOP-SDN1RPT.E01 |
| WebCacheV01.dat | 1 | | | http://194.61.24.102/ | Microsoft Edge Analyzer | 194.61.24.102 | Administrator | 20200918_0417_DESKTOP-SDN1RPT.E01 |
| WebCacheV01.dat | 1 | | | http://194.61.24.102/ | Microsoft Edge Analyzer | 194.61.24.102 | Administrator | 20200918_0417_DESKTOP-SDN1RPT.E01 |
| WebCacheV01.dat | | | | file:///C:/Windows/system32/oobe/FirstLogonAnim.html | Microsoft Edge Analyzer | | mortysmith | 20200918_0417_DESKTOP-SDN1RPT.E01 |
| WebCacheV01.dat | | | | file:///C:/Users/mortysmith/Desktop/Thoughts.txt | Microsoft Edge Analyzer | | mortysmith | 20200918_0417_DESKTOP-SDN1RPT.E01 |
| WebCacheV01.dat | 1 | | | https://login.live.com/oauth20_logout.srf?client_id=00000000480728C5&redirect_uri=https://l... | Microsoft Edge Analyzer | live.com | mortysmith | 20200918_0417_DESKTOP-SDN1RPT.E01 |
| WebCacheV01.dat | | | | file:///C:/Users/mortysmith/Documents/Plans.txt | Microsoft Edge Analyzer | | mortysmith | 20200918_0417_DESKTOP-SDN1RPT.E01 |
| WebCacheV01.dat | | | | file:///C:/Users/mortysmith/Desktop/Thoughts.txt | Microsoft Edge Analyzer | | mortysmith | 20200918_0417_DESKTOP-SDN1RPT.E01 |

Visit Details

Username: Administrator
Domain: 194.61.24.102
URL: http://194.61.24.102/
Program Name: Microsoft Edge Analyzer

Source

Host: 20200918_0417_DESKTOP-SDN1RPT.E01
Data Source: 20200918_0417_DESKTOP-SDN1RPT.E01
File: /img_20200918_0417_DESKTOP-SDN1RPT.E01/vol_v06/Users/Administrator/AppData/Local/Microsoft/Windows/WebCache/WebCacheV01.dat

MAXMIND Products ▾ Support ▾ Developers ▾ Company ▾ Blog Contact

GeolIP2 Databases Demo

Show Sidebar >

IP Addresses

194.61.24.102

Enter up to 25 IP addresses separated by spaces or commas. You can also [test your own IP address](#).

Submit

GeolIP2 City Results

| IP Address | Country Code | Location | Network | Postal Code | Approximate Coordinates* | Accuracy Radius (km) | ISP | Organization | Domain | Metro Code |
|---------------|--------------|---------------|----------------|-------------|--------------------------|----------------------|---------|--------------|--------|------------|
| 194.61.24.102 | RU | Russia, Elope | 194.61.24.0/25 | | 55.7386, 37.6068 | 1000 | ERA LLC | ERA LLC | | |

18. Are these pieces of adversary infrastructure involved in other attacks around the time of the attack?

Yes

Correlated with incident reports and threat intelligence feeds.

19. Did the attacker access any other systems?

Yes, the Desktop machine, Desktop-SDN1RPT.

Traced RDP sessions from the Domain Controller to the Desktop machine.

Brute Forced the password for the Administrator account on the DC, then used RDP to access the Desktop machine—analysis of login attempts and RDP session logs.

20. Did the attacker steal or access any data?

Yes

Examination of file access logs and data exfiltration evidence.

Secret.zip was exfiltrated at 02:31; loot.zip was exfiltrated at 02:48.

Detailed timeline and file transfer logs analysis.

Two hosts in 10.42.85.0/24. DC: 10.42.85.10; User: 10.42.85.115

The screenshot shows the NetworkMiner tool interface. On the left, a tree view displays various categories like Linkage, Parameters, Adapters, DNRRegisteredAdapters, Interfaces, etc. The 'Interfaces' category is expanded, showing a list of network interfaces. One interface is selected, and its details are shown in the main pane. The details pane displays the configuration for the selected interface, including Name, Type, Value, and other parameters.

| Name | Type | Value |
|----------------------------|--------------|-------------------------|
| CHNLSUBDOMAINNAME | REG_DWORD | 0x00000000 (0) |
| EnableDHCP | REG_DWORD | 0x00000000 (0) |
| NameServer | REG_SZ | 127.0.0.1 |
| Domain | REG_SZ | (value not set) |
| RegistrationEnabled | REG_DWORD | 0x00000001 (1) |
| RegisterAdapterName | REG_DWORD | 0x00000000 (0) |
| DhcpServer | REG_SZ | 255.255.255.255 |
| Lease | REG_DWORD | 0x00000708 (1800) |
| LeaseObtainedTime | REG_DWORD | 0x5f639af6 (1600362219) |
| T1 | REG_DWORD | 0x5f639af6 (1600363119) |
| T2 | REG_DWORD | 0x5f639af6 (1600363794) |
| LeaseTerminatesTime | REG_DWORD | 0x5f639af3 (1600364019) |
| AddressType | REG_DWORD | 0x00000000 (0) |
| IsServerNapAware | REG_DWORD | 0x00000000 (0) |
| DhcpConnForceBroadcastFlag | REG_DWORD | 0x00000000 (0) |
| IPAddress | REG_MULTI_SZ | 10.42.85.10, |
| SubnetMask | REG_MULTI_SZ | 255.255.255.0, |
| DefaultGateway | REG_MULTI_SZ | 10.42.85.100, |
| DefaultGatewayMetric | REG_MULTI_SZ | 0, |

Figure 3by (The Jesters Castle, 2021)

Conclusion

We have responded to the critical questions that have been raised to complete this forensic study. Through forensic analysis and the use of various tools, we identified and documented the details of the breach, including the entry vector, malware used, and actions taken by the attacker.

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