

Filter Current Log

Filter XML

Logged: Any time

Event level: ☐ Critical ☐ Warning ☐ Verbose
☐ Error ☐ Information

☒ By log Event logs: file:///C:/Users/john/Desktop/Microsoft-Wind

☐ By source Event sources:

Includes/Excludes Event IDs: Enter ID numbers and/or ID ranges separated by commas. To exclude criteria, type a minus sign first. For example 1,3,5-99,-76

<All Event IDs>

Task category:

Keywords:

User:

Computer(s): <All Computers>

Clear

OK Cancel

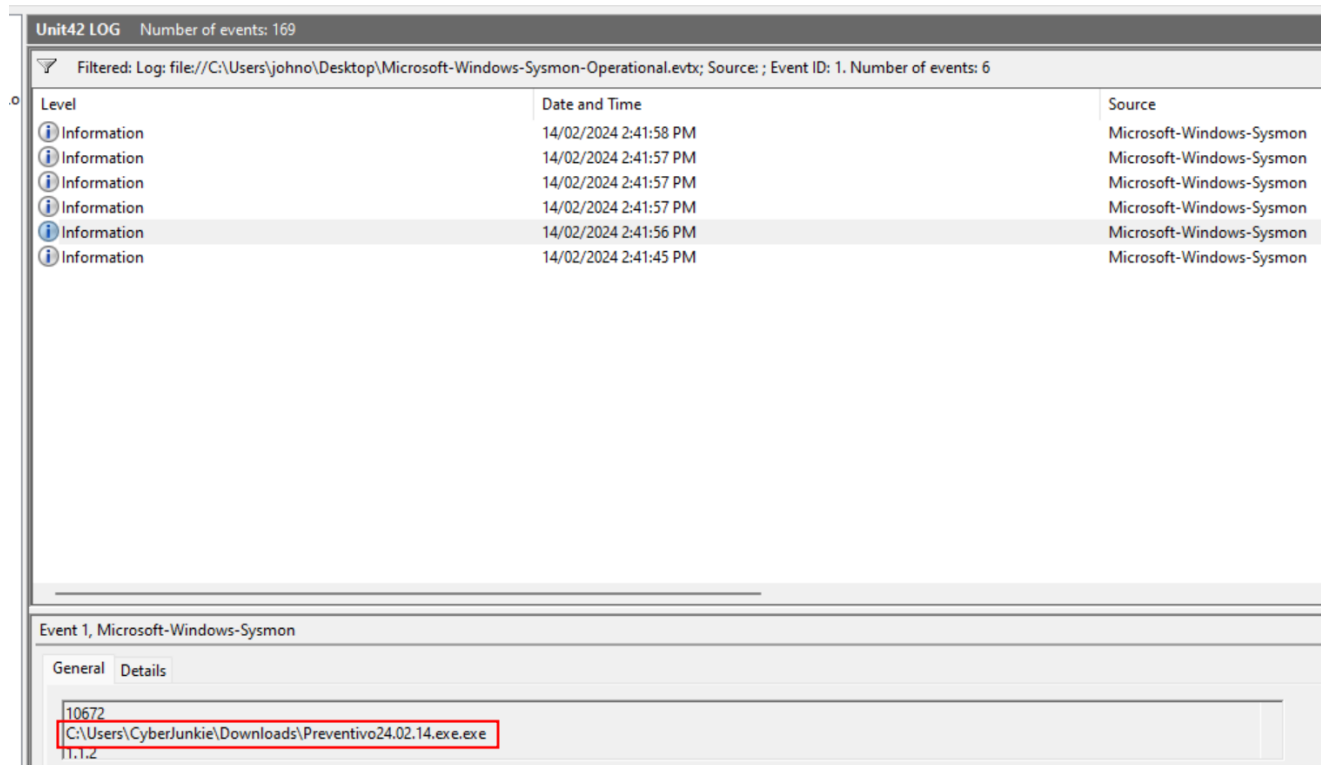
After setting the filter I can see that there are **56** Logs with the Event ID 11

| Unit42 LOG Number of events: 169 | | | | |
|--|-----------------------|--------------------------|----------|---------------|
| Filtered: Log file:///C:/Users/john/Desktop/Microsoft-Windows-Sysmon-Operational.evtx Source: Event ID: 11. Number of events: 56 | | | | |
| Level | Date and Time | Source | Event ID | Task Category |
| Information | 14/02/2024 2:43:26 PM | Microsoft-Windows-Sysmon | 11 (11) | |
| Information | 14/02/2024 2:43:26 PM | Microsoft-Windows-Sysmon | 11 (11) | |
| Information | 14/02/2024 2:42:07 PM | Microsoft-Windows-Sysmon | 11 (11) | |
| Information | 14/02/2024 2:42:05 PM | Microsoft-Windows-Sysmon | 11 (11) | |
| Information | 14/02/2024 2:41:58 PM | Microsoft-Windows-Sysmon | 11 (11) | |
| Information | 14/02/2024 2:41:58 PM | Microsoft-Windows-Sysmon | 11 (11) | |
| Information | 14/02/2024 2:41:58 PM | Microsoft-Windows-Sysmon | 11 (11) | |
| Information | 14/02/2024 2:41:58 PM | Microsoft-Windows-Sysmon | 11 (11) | |
| Information | 14/02/2024 2:41:58 PM | Microsoft-Windows-Sysmon | 11 (11) | |
| Information | 14/02/2024 2:41:58 PM | Microsoft-Windows-Sysmon | 11 (11) | |

Q2 Whenever a process is created in memory, an event with Event ID 1 is recorded with details such as command line, hashes, process path, parent process path, etc. This information is very useful for an analyst because it allows us to see all programs executed on a system, which means we can spot any malicious processes

being executed. What is the malicious process that infected the victim's system?

Going through all the logs with the Event ID 1 I can see that the malicious process that was executed is: C:\Users\CyberJunkie\Downloads\Preventivo24.02.14.exe.exe



Q3 Which Cloud drive was used to distribute the malware?

Using Event ID 22 we can see if there were any DNS queries being made around the same time that the process was executed.

I can see that 10 seconds before the process was executed there was a DNS query to **dropbox** as seen in the screenshot below which was most likely the cloud platform used to distribute the malware.

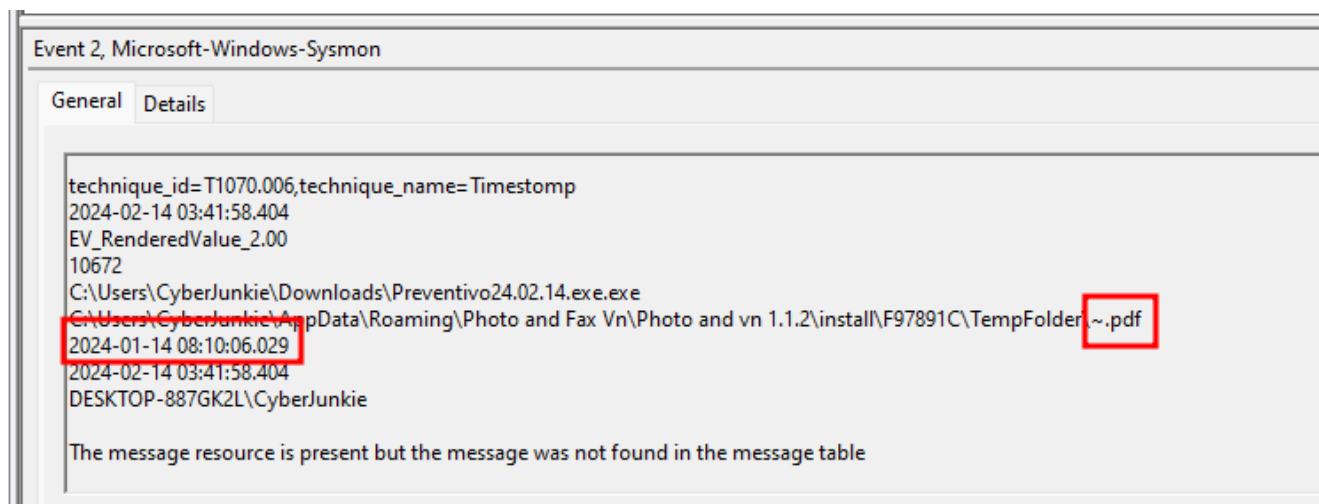
| | | | |
|-------------|-----------------------|--------------------------|---------|
| Information | 14/02/2024 2:41:56 PM | Microsoft-Windows-Sysmon | 1 (1) |
| Information | 14/02/2024 2:41:45 PM | Microsoft-Windows-Sysmon | 22 (22) |
| Information | 14/02/2024 2:41:45 PM | Microsoft-Windows-Sysmon | 1 (1) |
| Information | 14/02/2024 2:41:26 PM | Microsoft-Windows-Sysmon | 22 (22) |



Q4 The initial malicious file time-stamped (a defense evasion technique, where the file creation date is changed to make it appear old) many files it created on disk. What was the timestamp changed to for a PDF file?

We can check this using Event ID 2 as this Event ID records any file creation time changes on any files on the system.

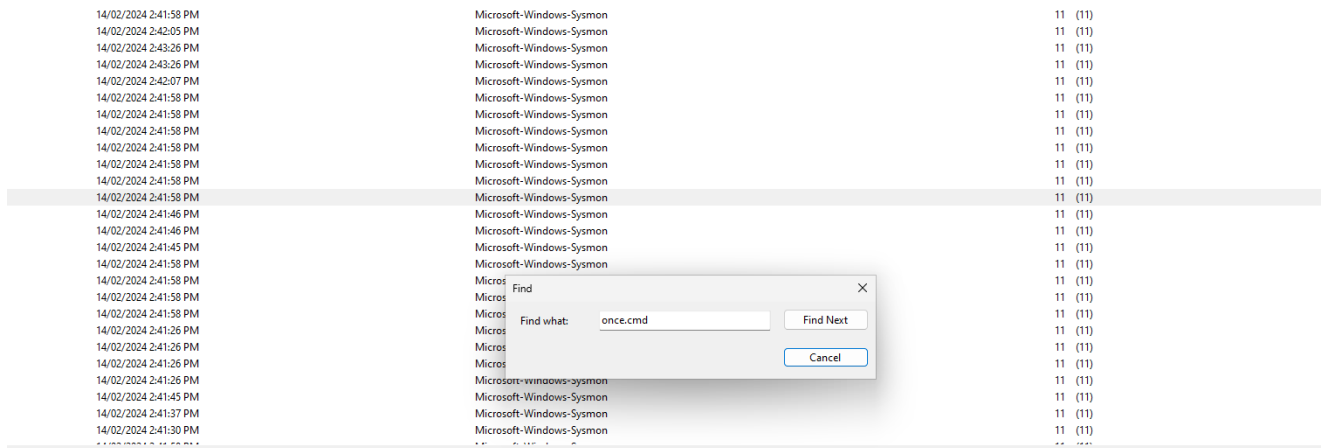
Looking at the pdf file log I can see the time changed to is **2024-01-14 08:10:06.029



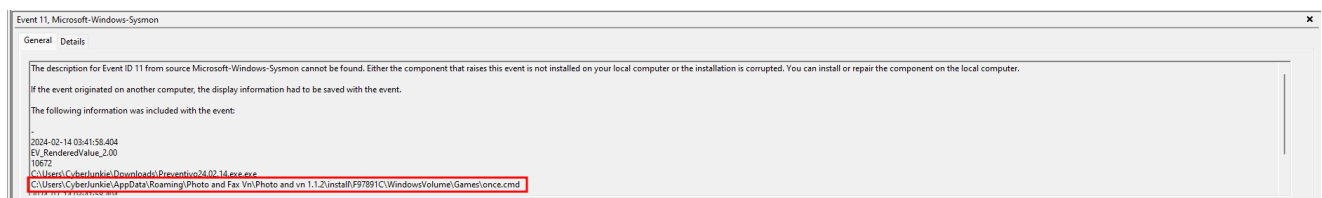
Q5 The malicious file dropped a few files on disk. Where was "once.cmd" created on disk? Please answer with the full path along with the filename.

Event ID 11 looks for files that are created so using this and I finding the "once.cmd" log I can find the answer to this question.

Using the find option to find it easier



And I see the path: **C:\Users\CyberJunkie\AppData\Roaming\Photo and Fax Vn\Photo and vn 1.1.2\install\F97891C\WindowsVolume\Games\once.cmd**



Q6 The malicious file attempted to reach a dummy domain, most likely to check the internet connection status. What domain name did it try to connect to?

Using Event ID 22 again to see what DNS queries were requested I can see that the dummy domain the file tried to reach was www.example.com

I can find the answer to this using Event ID 3. It records the IP address, port, and the process trying to make the connection.

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The malicious process terminated itself after infecting the PC with a backdoored variant of UltraVNC. When did the process terminate itself?

We can use Event ID 5 to find logs of terminations of processes.

Filtering by ID 5 I can see that it was terminated at **2024-02-14 03:41:58**

| Level | Date and Time | Source | Event ID |
|-------------|-----------------------|--------------------------|----------|
| Information | 14/02/2024 2:41:58 PM | Microsoft-Windows-Sysmon | 5 |

| | |
|---|---------|
| Event 5, Microsoft-Windows-Sysmon | |
| General | Details |
| The description for Event ID 5 from source Microsoft-Windows-Sysmon cannot be found. Either the component that raises this event is not installed on your local computer or the installation is corrupted. You can install or repair the component on the local computer. | |
| If the event originated on another computer, the display information had to be saved with the event. | |
| The following information was included with the event: | |
| - 2024-02-14 03:41:58.795 | |
| IEV RenderedValue 2.00 | |

SHERLOCK COMPLETE

TAKEAWAYS:

- **Sysmon Event IDs:** The writeup underscores the importance of Sysmon Event IDs in detecting malicious activities, focusing on IDs like 1, 2, 3, 5, 11, and 22.
- **Malware Indicators:** It identifies Dropbox as the malware distribution platform via DNS queries and highlights the use of file time-stamping for evasion.
- **Process Investigation:** The analysis tracks a malicious process, `Preventivo24.02.14.exe.exe`, showing how to trace its actions, including file drops and external connections.