

Brian Maloney

I am Brian Maloney

- SEPparser
- DeXRAY (McAfee/Symantec quarantine files)
- Targets/Modules for KAPE
- PCAP_tools plugin (ProcDOT)

You can find me at:

Twitter @bmmloney97

https://github.com/Beercow

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Current State

- Symantec Endpoint Logs
 - In TSV ish format but not human readable
 - Logs have different layouts
 - Some data is hidden inside VBNs (quarantine files) and ccSubSDK (submission database)
 - Can only be view on live endpoint

Who can tell me what this means?

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Current State

- Symantec Management Console
 - Only shows historical events of current user (stored in %appdata% folder)
 - Cannot view logs on another endpoint
 - Does not show all data contained in a log
 - Cannot view logs from dead box/collection

Current State

- SEP-log-conversion-macro_v2.xlsm[1]
 - Only parses daily av logs
 - Can view logs from dead box/collection
- ♦ Log2timeline/plaso[2]
 - Only parses daily av logs
 - Can view logs from dead box/collection
- ♦ DeXRAY[3]
 - Extract quarantine data
 - Extract ccSubSDK database *limited

[1] https://support.symantec.com/us/en/article.tech100099.html

[2] https://github.com/log2timeline/plaso/releases

[3] http://hexacorn.com/d/DeXRAY.pl

Solution

- ♦ SEPparser
 - Can show historical data of all users
 - Can view logs on another endpoint
 - Shows all data contained in a log
 - View logs from dead box/collection
 - View logs from other sources (VBN & ccSubSDK)
 - Combine logs from different endpoints
 - Platform independent

How about now?

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2019-11-06 00:32:59	Block	0	Incoming	UDP	0.0.0.0	58-bd-a	3-78-32-a5	68	255.2	55.255.255	ff-ff-ff-f	f-ff-ff	F 67	Default	2	2019-1	11-06 00:	31:55	2019-11	L-06 00:30:57	Block Inbound Ma
2019-11-06 00:43:15	Block	0	Incoming	UDP	0.0.0.0	58-bd-a	3-78-32-a5	68	255.2	55.255.255	ff-ff-ff-f	f-ff-ff	F 67	Default	2	2019-1	11-06 00:	42:14	2019-11	1-06 00:41:55	Block Inbound Ma
2019-11-06 00:53:00	Block	0	Incoming	UDP	0.0.0.0	58-bd-a	3-78-32-a5	68	255.2	55.255.255	ff-ff-ff-f	f-ff-ff	F 67	Default	1	2019-1	11-06 00:	51:55	2019-11	1-06 00:51:55	Block Inbound Ma
2019-11-06 00:54:01	Block	0	Incoming	UDP	0.0.0.0	58-bd-a	3-78-32-a5	68	255.2	55.255.255	ff-ff-ff-f	f-ff-ff	F 67	Default	1	2019-1	11-06 00:	52:57	2019-11	L-06 00:52:57	Block Inbound Ma
2019-11-06 01:02:55	Block	0	Incoming	UDP	0.0.0.0	58-bd-a	3-78-32-a5	68	255.2	55.255.255	ff-ff-ff-f	f-ff-ff	F 67	Default	1	2019-1	11-06 01:	01:55	2019-11	1-06 01:01:55	Block Inbound Ma
2019-11-06 01:04:58	Block	0	Incoming	UDP	0.0.0.0	58-bd-a	3-78-32-a5	68	255.2	55.255.255	ff-ff-ff-f	f-ff-ff	F 67	Default	1	2019-1	11-06 01:	03:55	2019-11	L-06 01:03:55	Block Inbound Ma
2019-11-06 01:13:00	Block	0		UDP	0.0.0.0	58-bd-a	3-78-32-a5	68	255.2	55.255.255	ff-ff-ff-f	f-ff-ff	F 67	Default	1	2019-1	11-06 01:	11:57	2019-11	L-06 01:11:57	Block Inbound Ma
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2019-08-30 19:27:03	SECURITY	SYMP	ROTECT_POLICY	VIOLATI	ION Securi	ty 9	SymProtect	******	SYSTEM												
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Symantec Logs Locations and types

Symantec Logs

- C:\ProgramData\Symantec\Symantec Endpoint Protection\CurrentVersion\Data\Logs contain the following log files:
 - AVMan.log Antivirus Management plug-in log (contains copies of all antivirus events)
 - CVE.log Client communication logs (14.2 and up)
 - CVE-actions.log Client communications actions (14.2 and up)GUProxy.log GUP plug-in log (if you have a GUP enabled)
 - LUMan.log Symantec Endpoint Protection (SEP) Client LiveUpdate plug-in log
 - processlog.log Application and Device Control log
 - rawlog.log Firewall Packet log
 - seclog.log Security log (IPS events mainly)
 - syslog.log System log
 - tralog.log Firewall Traffic log

https://support.symantec.com/us/en/article.tech141236.html

Symantec Logs Continued

C:\ProgramData\Symantec\Symantec Endpoint Protection\CurrentVersion\Data\Logs\AV

Contains daily antivirus logs

%LOCALAPPDATA%\Symantec\Symantec Endpoint Protection\Logs

Contains daily antivirus logs

C:\ProgramData\Symantec\Symantec\Endpoint Protection\CurrentVersion\Data\Quarantine

VBN files contain a log line also

C:\ProgramData\Symantec\Symantec\Endpoint Protection\CurrentVersion\Data\CmnClnt\ccSubSDK

 ccSubSDK database includes information about antivirus detections, intrusion prevention, SONAR, and file reputation detections

Which log is which?

C:\Program Files (x86)\Symantec\Symantec Endpoint Protection\smc -exportlog Exports the entire contents of a log to a .txt file.

To export a log, you use the following syntax: smc -exportlog log_type 0 -1 output_file

where:

log_type is:

- 0 = System Log
- 1 = Security Log
- 2 = Traffic Log
- 3 = Packet Log
- 4 = Control Log

Which log is which?

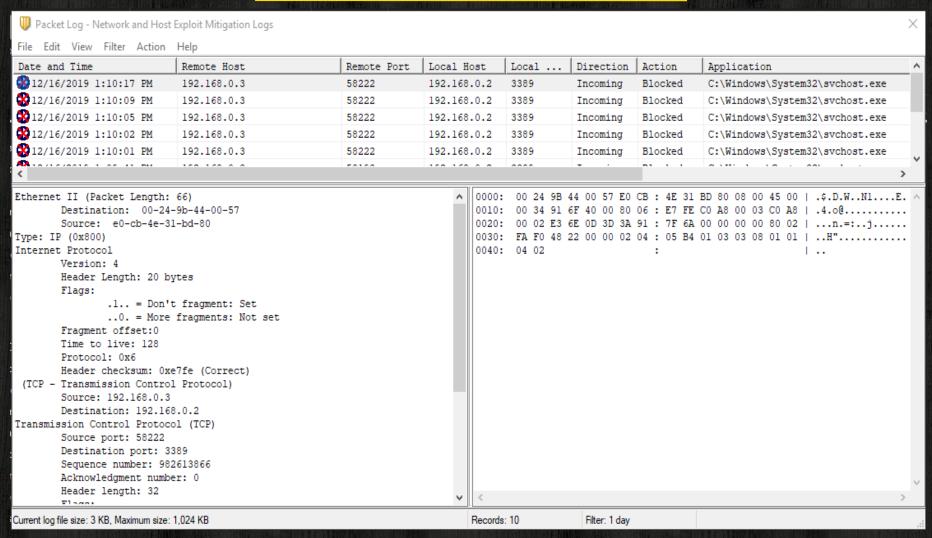
- These numbers also correlate to an entry in the header of the log file
 - 0 = syslog.log
 - 1 = seclog.log
 - 2 = tralog.log
 - 3 = rawlog.log
 - 4 = processlog.log



2.
Network and Host Exploit
Mitigation Packet Log

Firewall Packet Log

SMC GUI shows packet data



Network and Host Exploit Mitigation Packet Log

- Can dump log via command line
 - c:\Program Files (x86)\Symantec\Symantec Endpoint /
 Protection\Smc.exe" -exportlog 3 0 -1 c:\temp\packet.txt
- No packet data
- But what about dead box/collection?

```
🔚 packet.txt 🔣
                                                                                            Blocked C:\Windows\System32\sychost.exe Block RDP from
                                                                               Incoming
          12/16/2019 1:09:26 PM
                                       192.168.0.3 58193
                                                           192.168.0.2 3389
                                                                                                                                                                 False
                                                                                           Blocked C:\Windows\System32\sychost.exe Block RDP from
          12/16/2019 1:09:27 PM
                                      192.168.0.3 58193
                                                           192.168.0.2 3389
                                                                               Incoming
                                                                                                                                                                 False
                                                                                           Blocked C:\Windows\System32\sychost.exe Block RDP from
                                                                                                                                                                 False
          12/16/2019 1:09:29 PM
                                      192.168.0.3 58193
                                                           192.168.0.2 3389
                                                                               Incoming
                                                                               Incoming
                                                                                           Blocked C:\Windows\System32\sychost.exe Block RDP from
          12/16/2019 1:09:33 PM
                                      192.168.0.3 58193
                                                           192.168.0.2 3389
                                                                                                                                                                 False
                                                                                           Blocked C:\Windows\System32\sychost.exe Block RDP from
                                                                                                                                                                 False
          12/16/2019 1:09:41 PM
                                      192.168.0.3 58193
                                                           192.168.0.2 3389
                                                                               Incoming
                                                                                           Blocked C:\Windows\System32\sychost.exe Block RDP from
                                                                                                                                                                 False
          12/16/2019 1:10:01 PM
                                      192.168.0.3 58222
                                                           192.168.0.2 3389
                                                                               Incoming
                                                                                           Blocked C:\Windows\System32\sychost.exe Block RDP from
                                                                                                                                                                 False
          12/16/2019 1:10:02 PM
                                      192.168.0.3 58222
                                                           192.168.0.2 3389
                                                                               Incoming
                                                                                           Blocked C:\Windows\System32\sychost.exe Block RDP from
                                                                                                                                                                 False
          12/16/2019 1:10:05 PM
                                      192.168.0.3 58222
                                                           192.168.0.2 3389
                                                                               Incoming
                                                                                            Blocked C:\Windows\System32\sychost.exe Block RDP from
          12/16/2019 1:10:09 PM
                                      192.168.0.3 58222
                                                           192.168.0.2 3389
                                                                               Incoming
                                                                                                                                                                 False
                                                                                           Blocked C:\Windows\System32\sychost.exe Block RDP from
                                                                                                                                                                 False
         12/16/2019 1:10:17 PM
                                      192.168.0.3 58222
                                                           192.168.0.2 3389
                                                                               Incoming
```

Network and Host Exploit Mitigation Packet Log

- SEPparser gives you the same data as SMC GUI
- Also places packets into separate file

Date and Time	Remote Host	Remote Port	Local Host	Local Port	Directi	Action	Application	Packet Dump	Packet Decode	
A⊡C	явс	RBC	H ■C	R ∃C	R ■C	RBC	R □ c	R BC	a©c	
2019-12-16 19:09:26.878388	192.168.0.3	58193	192.168.0.2	3389			C:\Windows\System32\svchost.exe		000000 00 24 9b 44 00 57 e0 cb 4e 31 bd 80 08 00 45 00	ð .\$.C
2019-12-16 19:09:27.884650	192.168.0.3	58193	192.168.0.2	3389			C:\Windows\System32\svchost.exe		000000 00 24 9b 44 00 57 e0 cb 4e 31 bd 80 08 00 45 00 .\$.D.WN1E.	0 .\$.0
2019-12-16 19:09:29.804160	192.168.0.3	58193	192.168.0.2	3389			C:\Windows\System32\svchost.exe		000000 00 000010 00 34 91 66 40 00 80 06 e8 07 c0 a8 00 03 c0 a8 .4.f@	0 .\$.0
2019-12-16 19:09:33.830034	192.168.0.3	58193	192.168.0.2	3389			C:\Windows\System32\svchost.exe		000000 00 02 e3 51 0d 3d d2 d5 f6 55 00 00 00 00 80 02Q.=U 000030 fa f0 39 0f 00 00 02 04 05 b4 01 03 03 08 01 019	0 .\$.0
2019-12-16 19:09:41.875962	192.168.0.3	58193	192.168.0.2	3389			C:\Windows\System32\svchost.exe		000000 00 000040 0402	0 .\$.0
2019-12-16 19:10:01.991526	192.168.0.3	58222	192.168.0.2	3389			C:\Windows\S		00	0 .\$.0
2019-12-16 19:10:02.998484	192.168.0.3	58222	192.168.0.2	3389			C:\Windows\S		00	0 .\$.0
2019-12-16 19:10:05.008124	192.168.0.3	58222	192.168.0.2	3389			C:\Windows\S packet.txt		06	0 .\$.0
2019-12-16 19:10:09.030546	192.168.0.3	58222	192.168.0.2	3389			C:\Windows\S	Client Man	and the second s	0 .\$.0
2019-12-16 19:10:17.078878	192.168.0.3	58222	192.168.0.2	3389			C:\Windows\S	_Cilent_iviar	nagement_Control_Log.csv	0 .\$.0
							👪 Symantec	_Client_Mar	nagement_Security_Log.csv	
							👪 Symantec_	_Client_Mar	nagement_System_Log.csv	
							🛂 Symantec	_Client_Mar	nagement_Tamper_Protect_Log.csv	

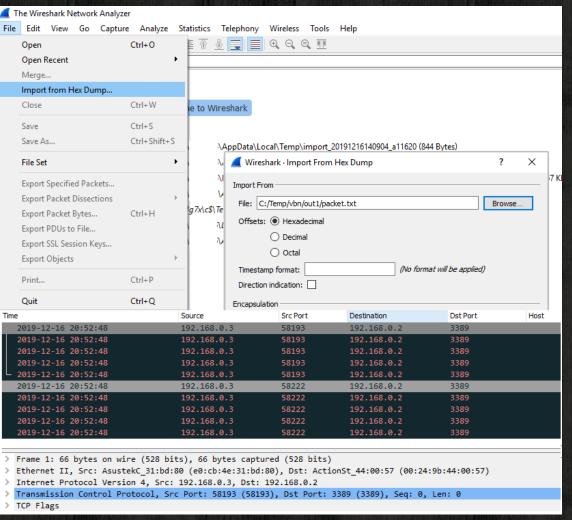
Symantec_Network_and_Host_Exploit_Mitigation_Packet_Log.csv

Symantec_Network_and_Host_Exploit_Mitigation_Traffic_Log.csv

Symantec_Timeline.csv

Network and Host Exploit Mitigation Packet Log

Import packet.txt into Wireshark and view all the data





Client Management Tamper Protect Log

- Subset of AVMan.log
 - Alerts on access to Symantec Components
 - Data distinct enough to justify its own log

Client Management Tamper Protect Log

- ♦ SMC shows 1 event
- ♦ There were 304 events in the log

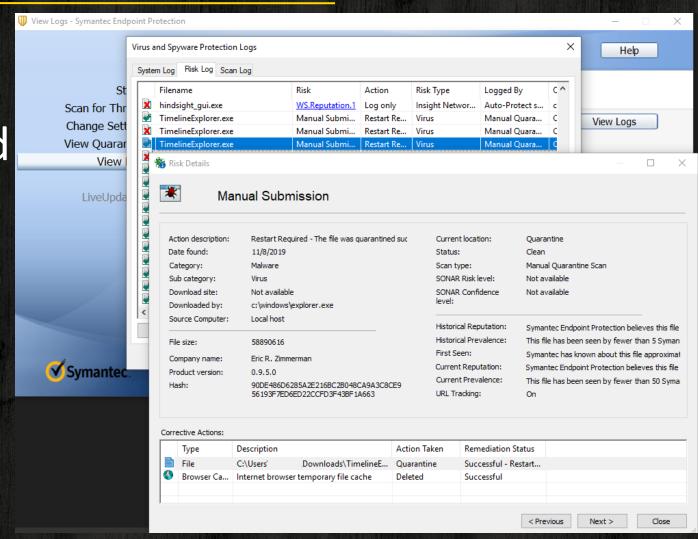
Tam	er Protection Log								
	Computer	User	Action Tak	Object Type	Event	Actor	Target	Target Process	Date and Time
₩.			Blocked	File	Create	C:\WINDOWS\EXPLORER.EXE (PID 10668)	$C: \label{lem:condition} C: \label{lem:condition} C: \label{lem:condition} Protection \ 14.2.1031.0100.105 \ Data \ Logs \ rawlog. log$	(PID 0)	12/12/2019 1:05:01 PM

File	Create C:\\WINDOWS\\EXPLORER.EXE (PID 10668)	C:\\ProgramData\\Symantec\\Symantec Endpoint Protection\\14.2.1031.0100.105\\Data\\Logs\\rawlog.log	(PID 0)	2019-12-12 19:05:01
File	Create C:\\WINDOWS\\SYSTEM32\\DLLHOST.EXE (PID 5896)	C:\\ProgramData\\Symantec\\Symantec Endpoint Protection\\14.2.1031.0100.105\\Data\\Logs\\rawlog.log	(PID 0)	2019-12-12 19:05:13
File	Create C:\\WINDOWS\\CMD.EXE (PID 17148)	C:\\ProgramData\\Symantec\\Symantec Endpoint Protection\\14.2.1031.0100.105\\Data\\Logs\\rawlog.log	(PID 0)	2019-12-12 19:10:12
File	Create C:\\WINDOWS\\SYSTEM32\\CMD.EXE (PID 4060)	C:\\ProgramData\\Symantec\\Symantec Endpoint Protection\\14.2.1031.0100.105\\Data\\Logs\\rawlog.log	(PID 0)	2019-12-12 19:12:10
File	Create C:\\WINDOWS\\EXPLORER.EXE (PID 10668)	C:\\ProgramData\\Symantec\\Symantec Endpoint Protection\\14.2.1031.0100.105\\Data\\Logs\\rawlog.log	(PID 0)	2019-12-12 19:05:01
File	Create C:\\WINDOWS\\SYSTEM32\\DLLHOST.EXE (PID 5896)	C:\\ProgramData\\Symantec\\Symantec Endpoint Protection\\14.2.1031.0100.105\\Data\\Logs\\rawlog.log	(PID 0)	2019-12-12 19:05:13
File	Create C:\\WINDOWS\\CMD.EXE (PID 17148)	C:\\ProgramData\\Symantec\\Symantec Endpoint Protection\\14.2.1031.0100.105\\Data\\Logs\\rawlog.log	(PID 0)	2019-12-12 19:10:12
File	Create C:\\WINDOWS\\SYSTEM32\\CMD.EXE (PID 4060)	C:\\ProgramData\\Symantec\\Symantec Endpoint Protection\\14.2.1031.0100.105\\Data\\Logs\\rawlog.log	(PID 0)	2019-12-12 19:12:10

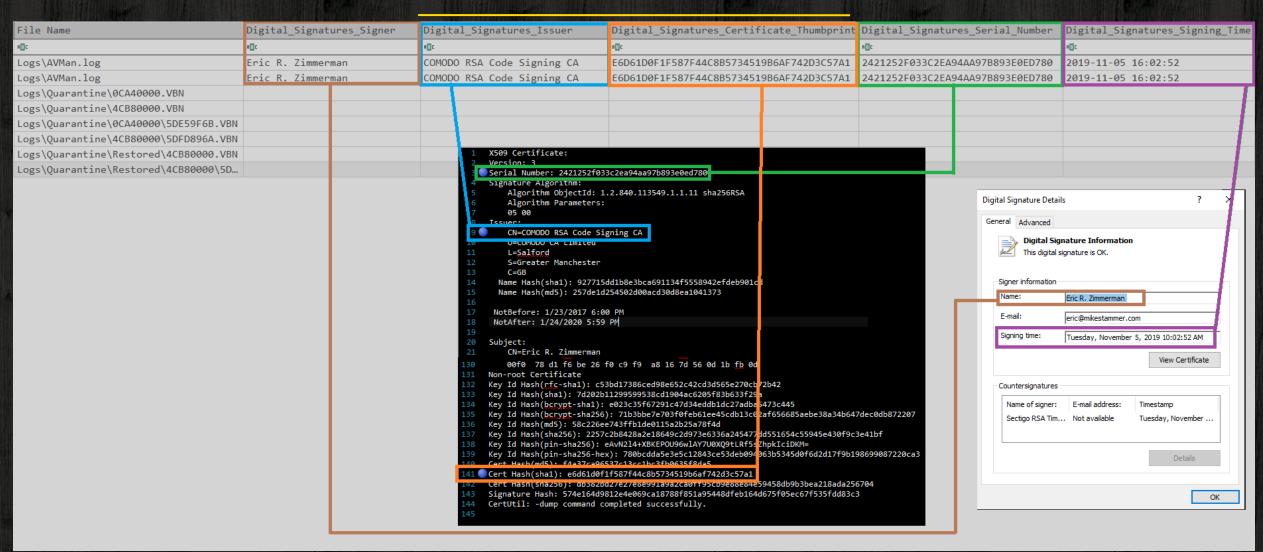
4.
Virus and Spyware
Protection Risk Log

Virus and Spyware Protection Risk Log

Files, registry setting etc.. that are deemed suspicious/malicious



Virus and Spyware Protection Risk Log





VBNs files

- Three different types of VBN files
 - 0x0 = Hybrid
 - 0x1 = Meta
 - 0x2 = Quarantine
- Usually an inner and outer VBN file

Name	Date created	Date accessed	Date modified	Туре	Size
OCA40000	12/9/2019 9:35 AM	12/9/2019 9:35 AM	12/9/2019 9:35 AM	File folder	
4CB80000	12/9/2019 9:35 AM	12/9/2019 9:35 AM	12/9/2019 9:35 AM	File folder	
CA40000.VBN	12/9/2019 9:35 AM	12/9/2019 9:35 AM	11/8/2019 11:01 AM	VBN File	7 KB
4CB80000.VBN	12/9/2019 9:35 AM	12/9/2019 9:35 AM	11/8/2019 9:27 AM	VBN File	7 KB

VBN Time Stamps

♦ File time stamps are also recorded in VBN

Date created Date accessed Date modified Size Name Type TimelineExplorer 11/8/2019 8:54 AM 11/8/2019 11:00 AM 11/8/2019 11:00 AM File folder 11/8/2019 11:00 AM TimelineExplorer.exe 11/5/2019 11:02 AM 11/8/2019 10:59 AM Application 57,511 KB

VBN Time Stamps

```
000000030
typedef struct VBN METADATA {
                                                       02 00 00 00 00 00 ff 81
                                            00000d40
                                                                                   01 00 00 00 00 00 00 00
   int32 QMF HEADER Offset;
                                            00000d50
                                                                     78 99 82 03
                                                                                   43 9f c5 5d 00 00 00 00
   char FQP of Quarantine File[384];
                                                       d9 9e c5 5d 00 00 00 00
                                            00000d60
                                                                                    40 ab c1 5d 00 00 00 00
   char Log line[2048];
                                                       6b 9f c5 5d 00 00 00 00
                                            00000d70
                                                                                  00 00 00 00 00 00 00 00
   int32 Data Type;
                                                       00 00 00 00 00 00 00 00  00 00 00 00 <mark>00 00 00 00</mark>
                                            08b0000
   long Record ID;
                                            00000d90
                                                       char Unknown1[28];
   char Unknown2[484];
                                                       Unknown5: '\x01\x00\x00\x00\x00\
   char Storage Name[48];
                                                       - Quarantine File Size: 0x3829978
                                                                                                Value to Decode: 5dc59f43
   uint32 RemediationInfo.tmp Path Size;

    Date Accessed: 0x5dc59f43*

                                                                                                                                                               Date & Time+ Fri, 08 November 2019 11:00:51 -0600
   char RemediationInfo.tmp Path[384];
                                                       - Date Modified: 0x5dc59ed9
   int32 Unknown3;
                                                       - Date Created: 0x5dc1ab40
   int32 Unknown4;

    Date Ouarantined: 0x5dc59f6b

                                                                                              nital detective.co.uk
                                                                                                                                       Cancel
                                                                                                                                                 Clear
                                                                                                                                                          Decode
   char Unknown5[12];

    Unknown6: '\x00\x00\x00\x00\x00\x

   int32 Ouarantine File Size;
   int64 Date Accessed;
                                                                                                          Value to Decode: 5dc59ed9
                                                                                                                                                                        int64 Date Modified;
    int64 Date Created;
                                                                                                                                                                        Date & Time: Fri, 08 November 2019 10:59:05 -0600
    int64 Date Quarantined;
    char Unknowno[20],
   char Unknown7[260];
                                                                                                 www.digital-detective.co.uk
                                                                                                                                                           Clear
                                                                                                                                                                    Decode
                                                                                                                                                Cancel
   int64 Folder Header;
   int32 Folder Name:
   char Unknown8[32];
                                                                                                                   Value to Decode: 5dc1ab40
                                                                                                                                                                                 a
   wchar FQP of Quarantine File2[768 / 2];
                                                                                                                                                                                 char Unknown9[212];
                                                                                                                      Date & Time: Tue, 05 November 2019 11:02:56 -0600
 VBN METADATA;
                                                                                                          www.digital-detective.co.uk
                                                                                                                                                         Cancel
                                                                                                                                                                    Clear
                                                                                                                                                                             Decode
                                                                                                                            Value to Decode: 5dc59f6b
                                                                                                                                                                                          8
                                                                                                                               Date & Time: Fri, 08 November 2019 11:01:31 -0600
                                                                                                                    www.digital-detective.co.uk
                                                                                                                                                                                      Decode
```

Security Descriptor Definition Language (SDDL)

```
45 00 78 00 70 00 6c 00
00000200
          6c 00 69 00 6e 00 65 00
                                                               l.i.n.e.E.x.p.l.
00000210
          6f 00 72
                   00 65 00
                                    2e 00 65 00 78 00 65 00
                                                               o.r.e.r...e.x.e.
00000220
00000230
          05 3f b7 43 78 45 93 c8
                                    cd c5 f6 4a 14 9a 09 27
00000240
          01 00 00 06 01 00 00 00
                                    06 02 00 00 00 08
00000250
                   00 3a 00 53 00
00000260
00000270
          30 00 31
00000280
          31 00 37
                                                               1.7.5.0.7.2.8.0.
00000290
          33 00 2d
                   00
                      33 00 36 00
                                                               3.-.3.6.0.6.4.7.
000002a0
          38 00 31 00
                      36 00 37
                                             00 38 00 33 00
                                                               8.1.6.7.-.1.8.3.
000002b0
          38 00 36
                                             00 55 00 44 00
                                                               8.6.7.G.:.D.U.D.
000002c0
                                                               :.P.(.A.;.;.F.A.
          3a 00 50 00 28 00 41 00
                                    3b 00 3b 00 46 00 41 00
000002d0
          3b 00 3b 00 3b 00 53 00
                                                               ;.;.;.S.Y.).(.A.
                                             00 28 00 41 00
000002e0
          3b 00 3b
                                    3b 00 3b 00 3b 00 42 00
                   00 46 00 41 00
000002f0
          41 00 29
                   00
                      28 00
                                          3b 00 46 00 41 00
                                                               A.).(.A.:.:.F.A.
00000300
          3b 00 3b
                   00 3b 00 53 00
                                             00 2d 00 35 00
00000310
          2d 00 32 00
                                                33 00 35 00
          30 00 31
00000320
                                                2d 00 31 00
00000330
          31 00 37
                   00
                                             00 38 00 30 00
                                                               1.7.5.0.7.2.8.0.
00000340
          33 00 2d
                   00
                                          36 00 34 00 37 00
                                                               3.-.3.6.0.6.4.7.
                      33
                                                               8.1.6.7.-.1.8.3.
00000350
          38 00 31 00 36 00 37 00
                                    2d 00 31 00 38 00 33 00
00000360
          38 00 36 00 37 00 29 00
                                    00 00
                                                               8.6.7.)...
```

Attribute Data

```
      00000000
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```



struct OBJECT ID Attribute:

- Attribute_Type: 0x7 - Attribute_Size: 0x40 - Attribute Name Size: 0x0
- GUID Object Id: b'\xd4\xeb\xc60Lv\xe8\x11\xa4w\x00\$\x9b \xb7 '
- GUID_Birth_Volume_Id: b'\x9c\xcbkr,TrK\xb4HF\x935#y\xbe'
- GUID_Birth_Object_Id: b'\xd4\xeb\xc60Lv\xe8\x11\xa4w\x00\$\x9b \xb7 '

MAC Address: 00:24:9b:20:b7:5f

MAC Vendor: Action Star Enterprise Co., Ltd.

Creation: 2018-06-22 18:43:44.273506

Object ID: 30c6ebd4-764c-11e8-a477-00249b20b75f Birth Volume ID: 726bcb9c-542c-4b72-b448-4693352379be Birth Object ID: 30c6ebd4-764c-11e8-a477-00249b20b75f Domain ID: 00000000-0000-0000-000000000000

Detection Digest

				iges												
																2
																C
																:\Windows\explor
																er.exe
00	1A	04	00	00	00	00	22	98	00	00	00	00	00	00	00	
00	2A	08	00	00	00	00	00	00	00	00	32	Α9	ØD	45	53	.*2ES
55	42	02	Α9	0 6	00	00	31	00	00	00	01	00	00	00	00	UB1
																#.JESE_EMOTET
																_SHAPES_TEXT_SHA
																DOW_BAIToAt
																tribute VB_Name
																= "e578d659"Fu
																nction e4b1b4b6(
29	ØD	ØA	65	34	62	31	62	34	62	36	20	3D	20	22	63)e4b1b4b6 = "c
																:\programdata\pr
																eview.jpeg"End
																FunctionSub c
																5616e8b()End S
																ubFunction c34
																7ffcf(d3bfab6f).
																.c347ffcf = StrC
																onv(d3bfab6f, 64
)End Function.
ØA	46	75	6E	63	74	69	6F	6E	20	63	64	63	61	31	37	.Function cdca17

Action	Parameters	Description
Found Entry Point	autoopen	
0pen	['GET', "ActiveDocument.S hapes('1').AlternativeTex t", False]	Interesting Function Call
GET	ActiveDocument.Shapes('1').AlternativeText	Interesting Function Call
CreateObject	['Scripting.FileSystemObj	Interesting Function Call
CreateTextFile	['c:\\programdata\\previe w.jpeg']	Interesting Function Call
Dropped File Hash	21726c10dcf9e11a1bc65ffab 39bb4df9a068d87d16f1946d8 f54d44860395a5	File Name: c:/programdata /preview.jpeg
CreateObject Execute Command	['wscript.shell'] ActiveDocument.Shapes('1').Title c:\programdata\pr eview.jpeg	Interesting Function Call Shell function

6. ccSubSDK database

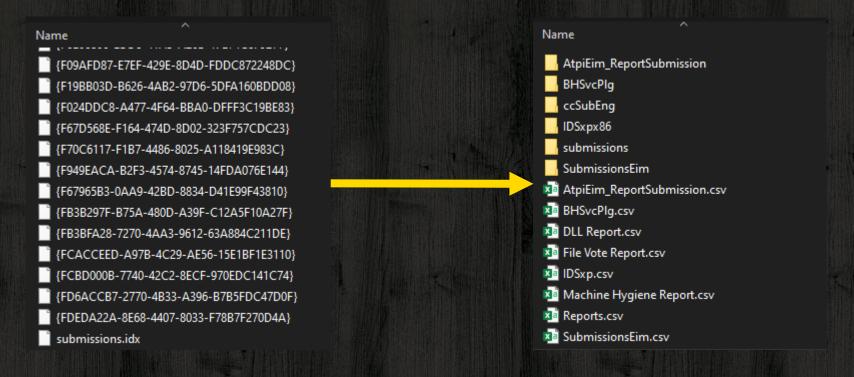
Symantec submission data

ccSubSDK database

- Submit pseudonymous information about detections, network, and configuration to Symantec Security Response
- Includes information about antivirus detections, intrusion prevention, SONAR, and file reputation detections

ccSubSDK database

Blowfish encrypted database consisting of an index file and GUID files



Final Thoughts

- By looking at the endpoint logs, VBNs and ccSubSDK we can:
 - Get the hash of the file
 - Creation/Modify/Access/Quarantine times
 - Certificate information
 - SDDL of file
 - And more...
- This is even before extracting the quarantined data

Thanks!

Any questions?

You can find me at:

Twitter <a>obmmaloney97

https://github.com/Beercow/SEPparser



https://malwaremaloney.blogspot.com/p/all-things-symantec.html