

# **Mystery Drive Image Forensic Report**

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**3/26/2019**

**19 Pages**

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## Summary

I began the investigation by creating 2 copies of the master image. A “mysteryDriveImage – Autopsy.dd” file, meant to be analyzed through Autopsy, and a “mysteryDriveImage – WinHex.dd” file, which would be analyzed through WinHex. Opening both copies up with their respective tools, I initially checked them for the general partition set up.

Autopsy showed 5 volumes within the drive image. Volume 1 which included 128 unallocated sectors, a FAT16 partitioned volume 2, an unallocated volume 3, a FAT16 partitioned volume 4, and an unallocated volume 5. The first volume contained the Master Boot Record and partition table for the drive. The second and fourth volume were regular FAT16 partitions that were also visible in the partition table. The third volume did not show up in the partition table but appears to have originally been a FAT16 partition. The final volume was simply unpartitioned space.

I checked the physical layout in WinHex afterwards to make sure it lines up with what Autopsy showed. WinHex displayed the information in a different manner but essentially confirmed what Autopsy had shown. The starting sectors were unallocated and held the MBR and partition table. In WinHex it showed the same information but had called the volumes with filesystems partitions, in which there were three, while the unallocated space was simply unpartitioned. Partitions 1 and 3 had FAT16 filesystems. Partition 2 was shown as having a FAT16 filesystem in WinHex but also appeared as a lost partition, as well as not showing up in the partition table again. This indicates that it could have been deleted and had not been overwritten yet. Finally, the unallocated space at the end was shown in more detail as two spaces. An unpartitioned space and an unpartitionable space following it.

Images of all of this was taken and provided as well as a Technical Details Report provided by WinHex. This report provides a more detailed view of the number of sectors each partition contains, the number of clusters it contains, and the number and percentage of unfilled, free clusters also. Lastly, a diagram was created showcasing all the partitioned and unallocated space in the drive image.

Following the analysis of the physical layout, I began to examine the drive and search for any items of importance. Five total items were discovered. The first was a hidden message at the end of the drive within its unallocated, unpartitionable space. The message was informing whoever the recipient was that the person they will be meeting should look like their picture and will go by the name of Anna. Correlating to this item was a file located in the third partition named “anna1.doc” that contained a picture of a woman. Potentially the picture the message was referring to.

After this a text search for the word “meet” was done in WinHex and discovered another message, this time in a file named “theTermite.txt.” This text file contained the poem *The Termite* by Ogden Nash at the top followed by a lot of random characters. Near the end was a hidden message that appeared to be either from a man named Paul or talking to him. The message talked about the structure of a poison called ricin and that the creator of this message would explain it when they would meet up. With the knowledge that the name Paul was of importance, a .docx file named “HiPaul.docx” became more relevant to the investigation. This file was kept in the first partition and was not hidden. Opening it up showed a message that appeared to be written for Paul from a person named Craig. The message mentioned that the flash drive was being given to Paul and contained pictures of two musicians, some of their music, and some other files on it that Craig did not delete.

Finally, a text search in WinHex for the word “ricin” found a link placed underneath the text file “thePurist.txt.” This text file holds another poem by Ogden Nash and the file is held in the same folder as the

previously mentioned theTermite.txt file. The link was found not far below the poem and would direct to a Wikimedia page. The page contained an image of a plant named Ricinus communis. This plant is used in the creation of the ricin poison and could be part of what was referred to in the message which mentioned the ricin poison's structure.

Overall, the finds include two hidden messages, one hidden link, one direct message via a word document, and one image. The word document gives names to the sender, Craig, and recipient of the drive, Paul, as well as potentially hinting at further information in other files. The hidden messages indicate that Paul and Craig planned to meet to discuss the ricin poison, while the link showcased one of the main parts in the poison's creation. The final hidden message at the end of drive appears to be informing Paul of a meeting with a woman who goes by Anna and looks like a picture provided in the drive. This meeting could potentially revolve around the ricin poison considering the other items but there is no direct indication of that found in this drive.

## Authentication

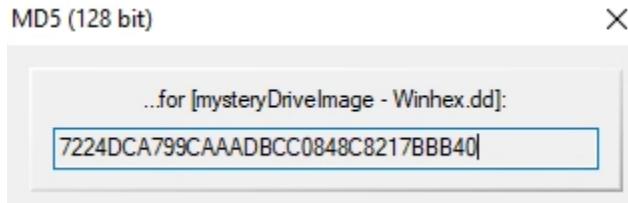
### Original

MD5 Hash = 7224DCA799CAAADBCC0848C8217BBB40

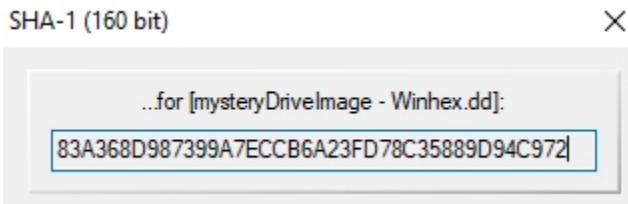
SHA1 Hash = 83A368D987399A7ECCB6A23FD78C35889D94C972

### WinHex

MD5 Hash = 7224DCA799CAAADBCC0848C8217BBB40

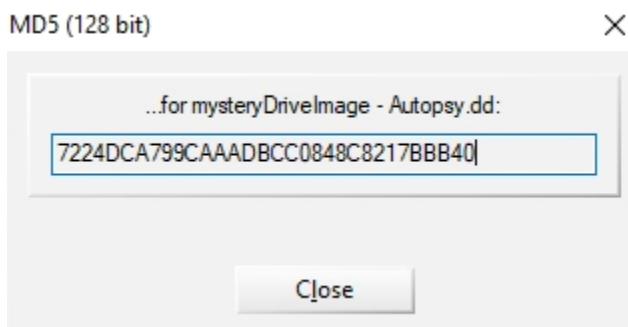


SHA1 Hash = 83A368D987399A7ECCB6A23FD78C35889D94C972

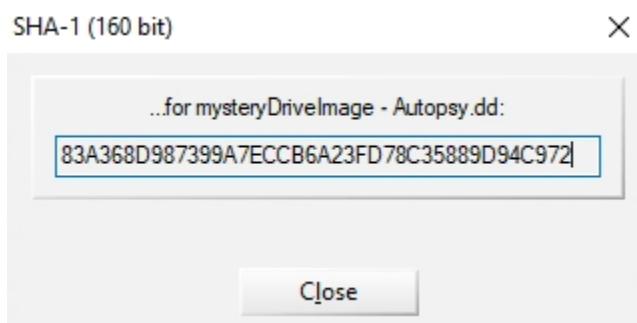


### Autopsy

MD5 Hash = 7224DCA799CAAADBCC0848C8217BBB40



SHA1 Hash = 83A368D987399A7ECCB6A23FD78C35889D94C972



## Physical Image Layout

The drive contains the starting sectors which includes the Master Boot Record and the boot sectors, three FAT16 partitions, and unallocated space at the end of the drive. The starting sectors contains sectors 0 – 127 which include the MBR with the partition table. Partition 1 contains sectors 128 - 186,495 and contains 46,492 clusters. Partition 2 contains sectors 186,496 - 211,071, 24,344 clusters, and appears to be a lost partition, potentially deleted. Partition 3 contained sectors 211,072 - 239,743 and clusters 14,260. The unallocated space at the end contains sectors 239,744 - 251,647 and includes both an unpartitioned space and an unpartitionable space at the end.

Below are images of the partition locations in both Autopsy and WinHex, the partition table in hex values, a WinHex Technical Details Report, and a diagram of the physical locations.

### WinHex

Name	Ext.	Size	Created	Modified	Record changed	Attr.	1st sector ▲
Start sectors		64.0 KB					0
Partition 1	FAT16	91.0 MB					128
Partition 2	FAT16	12.0 MB					186,496
Partition 3	FAT16	14.0 MB					211,072
Unpartitioned space		5.0 MB					239,744
Unpartitionable space		832 KB					249,984

Offset	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	/	
00000000	33	C0	8E	D0	BC	00	7C	8E	C0	8E	D8	BE	00	7C	BF	00	3ÀŽÐ4	ŽÀŽØ%
00000010	06	B9	00	02	FC	F3	A4	50	68	1C	06	CB	FB	B9	04	00	^	üó¤Ph
00000020	BD	BE	07	80	7E	00	00	7C	0B	0F	85	0E	01	83	C5	10	ø%	€~   ... fÅ
00000030	E2	F1	CD	18	88	56	00	55	C6	46	11	05	C6	46	10	00	åñí	~V UÆF
00000040	B4	41	BB	AA	55	CD	13	5D	72	0F	81	FB	55	AA	75	09	'Ax^UÍ	Jr
00000050	F7	C1	01	00	74	03	FE	46	10	66	60	80	7E	10	00	74	-Á	t pF f`€~ t
00000060	26	66	68	00	00	00	66	FF	76	08	68	00	00	68	00	6fhn	fýv h	h
00000070	7C	68	01	00	68	10	00	B4	42	8A	56	00	8B	F4	CD	13	h	h 'BŠV
00000080	9F	83	C4	10	9E	EB	14	B8	01	02	BB	00	7C	8A	56	00	ÝfÅ	žě , »   ŠV
00000090	8A	76	01	8A	04	02	8A	6E	03	CD	13	66	61	73	1C	FE	Šv	ŠN Šn í fas p
000000A0	4E	11	75	0C	80	7E	00	80	0F	84	8A	00	B2	80	EB	84	N u	€~ € „Š „€é„
000000B0	55	32	E4	8A	56	00	CD	13	5D	EB	9E	81	3E	FE	7D	55	U2áŠV	í jěž >p;U
000000C0	AA	75	6E	FF	76	00	E8	8D	00	75	17	FA	B0	D1	E6	64	unýv	è u ú°Ñad
000000D0	E8	83	00	B0	DF	E6	60	E8	7C	00	B0	FF	E6	64	E8	75	èf	°Bæ`è  °yædëu
000000E0	00	FB	B8	00	BB	CD	1A	66	23	C0	75	3B	66	81	FB	54	û,	»í f#Àu;f úT
000000F0	43	50	41	75	32	81	F9	02	01	72	2C	66	68	07	BB	00	CPAu2	ù r,fh »
00000100	00	66	68	00	02	00	00	66	68	08	00	00	00	66	53	66	fh	fh fsf
00000110	53	66	55	66	68	00	00	00	00	66	68	00	7C	00	00	66	SfUfh	fh   f
00000120	61	68	00	00	07	CD	1A	5A	32	F6	EA	00	7C	00	00	CD	ah	í z2öè   í
00000130	18	A0	B7	07	EB	08	A0	B6	07	EB	03	A0	B5	07	32	E4	· è	¶ 2ä
00000140	05	00	07	8B	F0	AC	3C	00	74	09	BB	07	00	B4	0E	CD	<8- <t></t>	í
00000150	10	EB	F2	F4	EB	FD	2B	C9	E4	64	EB	00	24	02	E0	F8	éödëý+Éadë	§ àø
00000160	24	02	C3	49	6E	76	61	6C	69	64	20	70	61	72	74	69	§ Ä	Invalid parti
00000170	74	69	6F	6E	20	74	61	62	6C	65	00	45	72	72	6F	72	tion table	Error
00000180	20	6C	6F	61	64	69	6E	67	20	6F	70	65	72	61	74	69	loading	operati
00000190	6E	67	20	73	79	73	74	65	6D	00	4D	69	73	73	69	6E	ng	system
000001A0	67	20	6F	70	65	72	61	74	69	6E	67	20	73	79	73	74	Missin	g operati
000001B0	65	6D	00	00	00	63	7B	9A	63	85	14	7A	00	00	00	02	em	c(š... z
000001C0	03	00	0E	9B	10	0B	80	00	00	00	00	D8	02	00	00	23	>	€ Ø #
000001D0	17	0D	0E	EB	1D	0E	80	38	03	00	00	70	00	00	00	00	é	€8 p
000001E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00		
000001F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	55	A	U

## Autopsy

/img\_mysteryDriveImage - Autopsy.dd

Table Thumbnail

Name	ID	Starting Sector	Length in Sectors	Description	Flags
vol1 (Unallocated: 0-127)	1	0	128	Unallocated	Unallocated
vol2 (Win95 FAT16 (0x0e): 128-186495)	2	128	186368	Win95 FAT16 (0x0e)	Allocated
vol3 (Unallocated: 186496-211071)	3	186496	24576	Unallocated	Unallocated
vol4 (Win95 FAT16 (0x0e): 211072-239743)	4	211072	28672	Win95 FAT16 (0x0e)	Allocated
vol5 (Unallocated: 239744-251647)	5	239744	11904	Unallocated	Unallocated

Hex	Strings	File Metadata	Results	Indexed Text	Media
Page: 1 of 7864	Page	← →	Go to Page:		Jump to Offset 0
0x000000030: E2 F1 CD 18 88 56 00 55 C6 46 11 05 C6 46 10 00 .....V.U.F...F..					
0x000000040: B4 41 BB AA 55 CD 13 5D 72 0F 81 FB 55 AA 75 09 .A..U..]r...U.u..					
0x000000050: F7 C1 01 00 74 03 FE 46 10 66 60 80 7E 10 00 74 ....t..F.f`~..t					
0x000000060: 26 66 68 00 00 00 00 66 FF 76 08 68 00 00 68 00 &fh....f.v.h..h.					
0x000000070: 7C 68 01 00 68 10 00 B4 42 8A 56 00 8B F4 CD 13  h..h...B.V....					
0x000000080: 9F 83 C4 10 9E EB 14 B8 01 02 BB 00 7C 8A 56 00 ..... ..V..					
0x000000090: 8A 76 01 8A 4E 02 8A 6E 03 CD 13 66 61 73 1C FE .v..N..n...fas..					
0x0000000a0: 4E 11 75 0C 80 7E 00 80 0F 84 8A 00 B2 80 EB 84 N.u..~.....					
0x0000000b0: 55 32 E4 8A 56 00 CD 13 5D EB 9E 81 3E FE 7D 55 U2..V...]...>.]U					
0x0000000c0: AA 75 6E FF 76 00 E8 8D 00 75 17 FA B0 D1 E6 64 .un.v....u.....d					
0x0000000d0: E8 83 00 B0 DF E6 60 E8 7C 00 B0 FF E6 64 E8 75 .....` ....d.u					
0x0000000e0: 00 FB B8 00 BB CD 1A 66 23 C0 75 3B 66 81 FB 54 .....f#.u;f..T					
0x0000000f0: 43 50 41 75 32 81 F9 02 01 72 2C 66 68 07 BB 00 CPAu2...r,fh...					
0x00000100: 00 66 68 00 02 00 00 66 68 08 00 00 00 66 53 66 .fh....fh....fSf					
0x00000110: 53 66 55 66 68 00 00 00 00 66 68 00 7C 00 00 66 SfUfh....fh. ..f					
0x00000120: 61 68 00 00 07 CD 1A 5A 32 F6 EA 00 7C 00 00 CD ah....Z2... ...					
0x00000130: 18 A0 B7 07 EB 08 A0 B6 07 EB 03 A0 B5 07 32 E4 .....2.					
0x00000140: 05 00 07 8B F0 AC 3C 00 74 09 BB 07 00 B4 0E CD .....<.t.....					
0x00000150: 10 EB F2 F4 EB FD 2B C9 E4 64 EB 00 24 02 E0 F8 .....+..d..\$..					
0x00000160: 24 02 C3 49 6E 76 61 6C 69 64 20 70 61 72 74 69 \$..Invalid parti					
0x00000170: 74 69 6F 6E 20 74 61 62 6C 65 00 45 72 72 6F 72 tion table.Error					
0x00000180: 20 6C 6F 61 64 69 6E 67 20 6F 70 65 72 61 74 69 loading operati					
0x00000190: 6E 67 20 73 79 73 74 65 6D 00 4D 69 73 73 69 6E ng system.Missin					
0x000001a0: 67 20 6F 70 65 72 61 74 69 6E 67 20 73 79 73 74 g operating syst					
0x000001b0: 65 6D 00 00 00 63 7B 9A 63 85 14 7A 00 00 00 02 em...c{.c..z...					
0x000001c0: 03 00 0E 9B 10 0B 80 00 00 00 00 D8 02 00 00 23 .....\$					
0x000001d0: 17 0D 0E EB 1D 0E 80 38 03 00 00 70 00 00 00 00 .....8..p..					
0x000001e0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....U..					
0x000001f0: 00 00 00 00 00 00 00 00 00 00 00 00 55 AA					

## WinHex Technical Details Report

WinHex 18.0 SR-3  
03/24/2019, 18:04:37

[D:\Users\gomeri\Desktop\midterm\mysteryDriveImage - Winhex.dd]

Total capacity: 128,843,776 bytes = 123 MB

Bytes per sector: 512

Sector count: 251,648

Partitioning style: MBR

Disk signature: 7A148563

Unpartitionable space: 1,664 Sectors

Partition 1

Sectors 128 - 186,495

Partition table: Sector 0

File system: FAT16

Name: NV1

Total capacity: 95,420,416 bytes = 91.0 MB

Sector count: 186,368

Usable sectors: 185,968

First data sector: 400

Bytes per sector: 512

Bytes per cluster: 2,048

Free clusters: 38,054 = 82% free

Total clusters: 46,492

FAT1 = FAT2

Volume label date: 03/11/2019 00:06:52

Clean shut down: Yes

I/O error-free: Yes

Serial No.: 37A392FA (hex)

Serial No.: FA92A337 (hex, rev)

Serial No.: 4203914039 (dec, rev)

Partition 2, lost

Sectors 186,496 - 211,071

File system: FAT16

Name: NEW VOLUME

Total capacity: 12,582,912 bytes = 12.0 MB

Sector count: 24,576

Usable sectors: 24,344

First data sector: 232

Bytes per sector: 512

Bytes per cluster: 512

Free clusters: 24,341 = 100% free

Total clusters: 24,344

FAT1 = FAT2

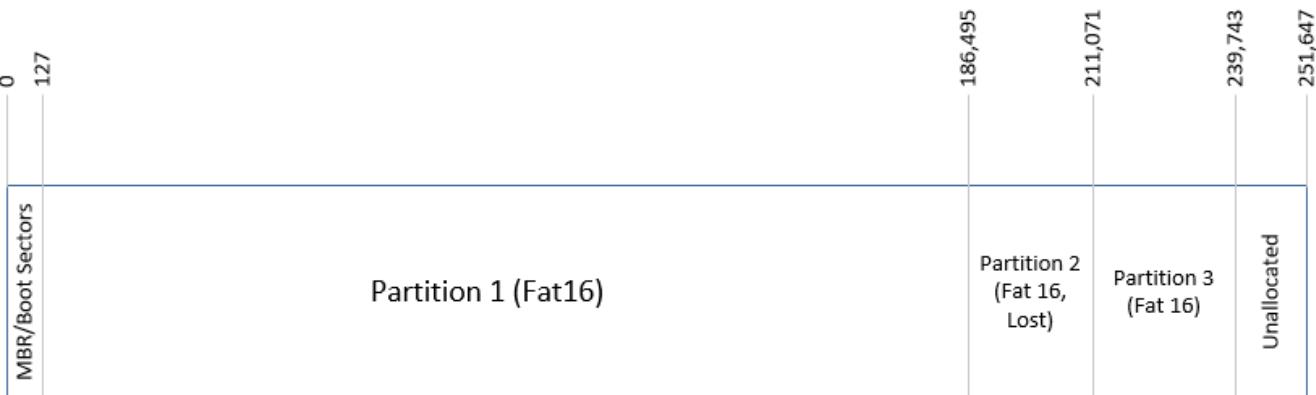
Volume label date: 03/11/2019 00:04:50

Clean shut down: Yes  
I/O error-free: Yes  
Serial No.: 78AEF3E2 (hex)  
Serial No.: E2F3AE78 (hex, rev)  
Serial No.: 3807620728 (dec, rev)

Partition 3  
Sectors 211,072 - 239,743  
Partition table: Sector 0  
File system: FAT16  
Name: NV2  
Total capacity: 14,680,064 bytes = 14.0 MB  
Sector count: 28,672  
Usable sectors: 28,520  
First data sector: 152  
Bytes per sector: 512  
Bytes per cluster: 1,024  
Free clusters: 8,922 = 63% free  
Total clusters: 14,260  
FAT1 = FAT2  
Volume label date: 03/11/2019 00:06:10  
Clean shut down: Yes  
I/O error-free: Yes  
Serial No.: 41DD23E4 (hex)  
Serial No.: E423DD41 (hex, rev)  
Serial No.: 3827555649 (dec, rev)

Unused inter-partition space:  
Sectors 0 - 127 (64.0 KB)  
Sectors 239,744 - 251,647 (5.8 MB)  
= 5.9 MB

### Layout Diagram



## Analysis Table

<b>Item #</b>	<b>Item Description</b>	<b>General Location</b>	<b>Cluster Location &amp; Size</b>	<b>Sector Location &amp; Size</b>	<b>Byte Location &amp; Size</b>
<u>1</u>	Hex String with two sentences in it that gives instructions for meeting with someone named Anna.	End of the drive within the unallocated and unpartitionable space.	No clusters since it is an unallocated space with no filesystem.	Sectors: 251,644 - 251,647 Size: 4 Sectors	Bytes: 07ADF9D0 – 07ADFFC8 Size: 1,528 Bytes
<u>2</u>	Text file named theTermite.txt. It contains within it a message regarding a poison at the end of its hex string.	In partition 1 within the nash folder.	Clusters: 8,286 – 8,428 Size: 142 Clusters	Sectors: 33,664 - 34,235 Size: 571 Sectors	Bytes: 01060000 - 010A770D Size: 292,621 Bytes
<u>3</u>	A .doc file named anna1.doc with an image of a woman.	Contained within partition 3.	Clusters: 5 – 551 Size: 546 Clusters	Sectors: 211,230 – 212,323 Size: 1,093 Sectors	Bytes: 00013C00 - 0009C756 Size: 559,958 Bytes
<u>4</u>	A .docx file named HiPaul.docx that contains a message to Paul from what appears to be Craig.	Contained within Partition 1	Clusters: 8,228 – 8,235 Size: 7 Clusters	Sectors: 33,304 – 33,335 Size: 31 Sectors	Bytes: 01043000- 01046A69 Size: 14,953 Bytes
<u>5</u>	A text file named thePurist.txt that contains a link to an image of the plant Ricinus communis.	Contained within partition 1 within the nash folder.	Clusters: 8,240 – 8,283 Size: 43 Clusters	Sectors: 33,480 – 33,652 Size: 172 Sectors	Bytes: 01049000 - 0105E936 Size: 88,374 Bytes

## Item Details

### Item #1 Hidden Message in Unpartitionable Space

This item is not a file of any sort. It is simply data hidden at the end of the drive, within the unallocated, unpartitionable section. This area of the drive is a good place to hide a message in as it is not easy to access normally. The message hidden in this area is split up into two sentences a few sectors apart. The message reads out, "Make sure she looks like her pictures. The person that you will meet will go by the name of Anna."

This message appears to give directions on meeting up with a person who will go by the name of Anna, which may or may not be their real name, and how to identify them properly. The information is likely sensitive considering the location in which it was hidden in. The location and hex figures of this message can be seen below.

### Autopsy

Hex	Strings	File Metadata	Results	Indexed Text	Media
Page: 372 of 372	Page	← →	Go to Page: 372		Jump to Offset 6078464
0x005cf940: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00					-----
0x005cf950: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00					-----
0x005cf960: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00					-----
0x005cf970: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00					-----
0x005cf980: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00					-----
0x005cf990: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00					-----
0x005cf9a0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00					-----
0x005cf9b0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00					-----
0x005cf9c0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00					-----
0x005cf9d0: 87 64 19 25 3E DD F3 1D 18 56 6E 32 27 42 ED A5	.d.%>....Vn2'B..				
0x005cf9e0: 18 A2 4D DB 15 26 0F 71 33 FA C3 60 0D 91 67 28	.M..&.q3..`..g(				
0x005cf9f0: 86 0B DB 3A CF 13 B0 22 2C 55 D3 2C 14 E1 F2 7D	.....",U.,...}				
0x005cfa00: 4D 00 61 00 6B 00 65 00 20 00 73 00 75 00 72 00	M.a.k.e. .s.u.r.				
0x005cfa10: 65 00 20 00 73 00 68 00 65 00 20 00 6C 00 6F 00	e. .s.h.e. .l.o.				
0x005cfa20: 6F 00 6B 00 73 00 20 00 6C 00 69 00 6B 00 65 00	o.k.s. .l.i.k.e.				
0x005cfa30: 20 00 68 00 65 00 72 00 20 00 70 00 69 00 63 00	.h.e.r. .p.i.c.				
0x005cfa40: 74 00 75 00 72 00 65 00 73 00 2E 00 00 00 00 00	t.u.r.e.s.....				
0x005cfa50: 29 E0 14 66 27 72 CF 29 D9 B2 82 79 DB 23 81 58	).f'r.)...y.#.X				
0x005cfa60: 0E 15 BA FB 7C 00 68 04 7A 57 60 C7 68 2B E5 A6	.... .h.zW^.ht+..				
0x005cfa70: 2C 83 B6 FA 76 19 31 FE 57 2E 64 E5 86 D5 94 61	,...v.l.W.d....a				
0x005cfa80: 51 76 B4 00 9D A7 7D A8 26 5E D7 8E C2 0A F2 B2	Qv.....}.&^.....				
0x005cfa90: FD 85 FB E0 98 3E 10 93 D2 6D EA 9F F5 1E 0B 36	.....>...m.....6				
0x005cfaa0: 34 24 7A C9 86 2A AE 8B 6B C8 C3 BA CA 49 E3 D2	4\$z..*..k...I..				
0x005cfab0: 7F 6A A5 0B 92 F0 00 00 00 00 00 00 00 00 00 00 00	.j.....				

Hex	Strings	File Metadata	Results	Indexed Text	Media		
Page:	372 of 372	Page	← →	Go to Page:	372	Jump to Offset	6078464
<b>0x005cfdb0: A3 8C E5 2D C6 3E 32 CD 8A 5A A8 9F 67 9D 3F F4 ...-&gt;2..Z..g.?.</b>							
0x005cfdb0: A3 8C E5 2D C6 3E 32 CD 8A 5A A8 9F 67 9D 3F F4	...->2..Z..g.?.						
0x005cfdc0: BD B4 13 AE 8A BC 63 95 60 79 91 55 02 75 28 A9	.....c.^y.U.u(.						
0x005cfdd0: 7F 35 71 68 49 83 A5 2C A9 D7 8E 90 FC 89 C3 91	.5qhI...,.....						
0x005cfde0: 8E C0 DE 2C D5 A6 1B 3E CC 4D 51 A9 7E 02 9E 3A	....,...>.MQ.~...:						
0x005cfdf0: A1 B9 F8 64 35 75 14 36 D8 3F 4F 41 91 B9 DF 47	...d5u.6.?OA...G						
0x005cfef0: 54 00 68 00 65 00 20 00 70 00 65 00 72 00 73 00	T.h.e. .p.e.r.s.						
0x005cfef0: 54 00 68 00 65 00 20 00 70 00 65 00 72 00 73 00	T.h.e. .p.e.r.s.						
0x005cfef0: 6F 00 6E 00 20 00 74 00 68 00 61 00 74 00 20 00	o.n. .t.h.a.t. .						
0x005cfef0: 79 00 6F 00 75 00 20 00 77 00 69 00 6C 00 6C 00	y.o.u. .w.i.l.l.						
0x005cfef0: 20 00 6D 00 65 00 65 00 74 00 20 00 77 00 69 00	.m.e.e.t. .w.i.						
0x005cfef0: 6C 00 6C 00 20 00 67 00 6F 00 20 00 62 00 79 00	l.l. .g.o. .b.y.						
0x005cfef0: 20 00 74 00 68 00 65 00 20 00 6E 00 61 00 6D 00	.t.h.e. .n.a.m.						
0x005cfef0: 65 00 20 00 6F 00 66 00 20 00 41 00 6E 00 6E 00	e. .o.f. .A.n.n.						
0x005cfef0: 61 00 2E 00 00 00 00 00 00 00 00 00 00 00	a.....						
0x005cfef0: EF E0 70 0E FC 75 EC 3D A3 44 03 2E D4 D7 A1 6A	..p..u.=D.....j						
0x005cfef0: 6E BE 28 E4 99 59 DB C9 63 76 7E 61 57 E0 CB BC	n.(..Y..cv~aW...						
0x005cfef0: 67 17 4A 1C A3 46 9B 3B 10 9F 4A A8 05 9B 1D E2	g.J..F.;..J.....						
0x005cfef0: C4 78 D2 FC 71 C7 C7 90 A4 13 E7 39 10 A4 F7 AB	.x..q.....9....						
0x005cfef0: B0 AA 24 3E BC C6 F9 63 03 0E EB 69 A7 16 A7 07	..\$>...c..i....						
0x005cfef0: 6D E8 4F 92 2A 6D C9 B3 5A DF 38 82 04 FE D2 5A	m.O.*m..Z.8....Z						
0x005cfef0: BF 37 CE 76 8C A6 6D 2A 25 4F EB 66 5B 4B 2D 11	.7.v..m*x%O.f[K-.						
0x005cfef0: 8F DE 0F 11 AA 29 31 90 05 0E 1B 4B 69 43 27 5B	.....)1....KiC'[						
0x005cff00: 44 AF A9 8B 29 6D 9A D7 2C 87 DA FD 18 D9 52 B0	D...)m.,.....R.						
0x005cff10: 45 A6 77 18 96 DD 2A 65 AD ED 72 FB 46 61 C2 48	E.w...*e..r.Fa.H						
0x005cff20: C7 B9 B9 60 FA 47 02 84 28 B0 CB 9A F0 78 4B 42	..`G..(....xKB						
0x005cff30: 78 F8 F9 DE 22 97 96 FC F5 D6 74 8F 42 A5 F4 55	x...."....t.B..U						
0x005cff40: 90 BE AB 45 8C 4C 77 3F 49 E8 A3 4B D1 7C F0 D3	...E.Lw?I..K. ..						
0x005cff50: D5 A3 18 7E 2D 69 B8 DB 8A C1 18 EE F3 EE B7 10	...~i.....						
0x005cff60: 40 C9 C4 64 51 58 BB 65 D3 2A 85 40 19 B5 8F AE	@..dQX.e.*.@....						
0x005cff70: 14 8A 3A E4 94 F4 8C EA 5C 25 E9 77 6C FE 04 66	.....\%.wl..f						

### WinHex

07ADFA00	4D 00 61 00 6B 00 65 00 20 00 73 00 75 00 72 00	M a k e s u r
07ADFA10	65 00 20 00 73 00 68 00 65 00 20 00 6C 00 6F 00	e s h e l o
07ADFA20	6F 00 6B 00 73 00 20 00 6C 00 69 00 6B 00 65 00	o k s l i k e
07ADFA30	20 00 68 00 65 00 72 00 20 00 70 00 69 00 63 00	h e r p i c
07ADFA40	74 00 75 00 72 00 65 00 73 00 2E 00 00 00 00 00	t u r e s .
07ADFA50	29 E0 14 66 27 72 CF 29 D9 B2 82 79 DB 23 81 58	)à f'ří)Ù²,yÙ# X
07ADFA60	0E 15 BA FB 7C 00 68 04 7A 57 60 C7 68 2B E5 A6	°Ù  h zW`Čh+å;
07ADFA70	2C 83 B6 FA 76 19 31 FE 57 2E 64 E5 86 D5 94 61	,f¶úv lpW.dåtÖ"a
07ADFA80	51 76 B4 00 9D A7 7D A8 26 5E D7 8E C2 0A F2 B2	Qv' S}^&^xŽÅ ò²
07ADFA90	FD 85 FB E0 98 3E 10 93 D2 6D EA 9F F5 1E 0B 36	ý...ùàž "ÓmēÝö 6²
07ADFAA0	34 24 7A C9 86 2A AE 8B 6B C8 C3 BA CA 49 E3 D2	4\$zÉt*®<kÈÄ°ÉIäÖ
07ADFB0	7F 6A A5 0B 92 F0 00 00 00 00 00 00 00 00 00 00	j¥ '8

07ADFE00	54 00 68 00 65 00 20 00 70 00 65 00 72 00 73 00	T h e p e r s
07ADFE10	6F 00 6E 00 20 00 74 00 68 00 61 00 74 00 20 00	o n t h a t
07ADFE20	79 00 6F 00 75 00 20 00 77 00 69 00 6C 00 6C 00	y o u w i l l
07ADFE30	20 00 6D 00 65 00 65 00 74 00 20 00 77 00 69 00	m e e t w i
07ADFE40	6C 00 6C 00 20 00 67 00 6F 00 20 00 62 00 79 00	l l g o b y
07ADFE50	20 00 74 00 68 00 65 00 20 00 6E 00 61 00 6D 00	t h e n a m
07ADFE60	65 00 20 00 6F 00 66 00 20 00 41 00 6E 00 6E 00	e o f A n n
07ADFF70	A1 00 2F 00 00 00 00 00 00 00 00 00 00 00 00 00	a

## Item #2

### Message within theTermite.txt

This item is a message hidden at the end of the file name “theTermite.txt.” The first portion of this text files contents is of a poem by Ogden Nash called *The Termite*. This file is within a folder named “nash” which contains several other text files with more Ogden Nash poems. The folder resides in the first partition of the drive. The hidden message at the end of theTermite.txt file reads, “Paul: This is the structure of the ricin as a deadly poison. I'll exaplin it to you when we meet.”

This message is either to or from a person named Paul. The message refers to the structure of a poison named ricin and that it will be explained when the people communicating through the message meet. It is likely that this message was hidden in theTermite.txt file among other poem themed text files to try and hide this message and make the text file seem less conspicuous. Images of the hex figures and the location can be seen below.

### Autopsy

Hex	Strings	File Metadata	Results	Indexed Text	Media	
Page:	18	of	18	Page	Go to Page: <input type="text" value="18"/>	Jump to Offset <input type="text" value="278528"/>
0x000047540:	CU 92 04 CC 8B C1 EC B2 99 EF E7 D7 C2 3B 9A E1					-----;
0x000047550:	17 07 91 12 5E E2 D3 45 CE BB A8 81 8F 2D AD E0					....^..E.....
0x000047560:	83 6D 31 16 85 DD 38 46 32 18 47 C7 D9 D0 9F E2					.ml...8F2.G.....
0x000047570:	6B AB AB E8 F8 CE 4E D8 35 28 DA 5C 10 04 E1 95					k.....N.5(.\\....
0x000047580:	48 A2 09 84 B3 DD 65 4D E0 77 10 AC 09 F0 57 B3					H.....eM.w.....W.
0x000047590:	C2 5C 5D E9 C7 5E 32 C8 4E E4 D8 32 55 E0 85 E9					.\\1.^2.N..2U....
0x0000475a0:	02 7B C6 72 8C 9F 98 A4 38 92 C3 0A D8 B1 55 F9					.{.r....8.....U.
0x0000475b0:	F1 05 5D D4 95 7B 58 91 F0 71 4E C2 CB EC B8 07					.l...{X..qN.....
0x0000475c0:	AF 5D 45 4A 15 B1 FA 93 4C F6 A4 78 62 30 C5 7F					.]EJ....L..xb0...
0x0000475d0:	AC AD A5 F7 2B 9B E1 C0 90 68 6B 41 10 04 11 1E					....+....hkA....
0x0000475e0:	84 37 8D F7 CE 83 82 46 22 EC E2 FF D6 87 B8 A8					.7.....F".....
0x0000475f0:	C2 87 C3 50 61 75 6C 3A 20 20 54 68 69 73 20 69					...Paul: This i
0x000047600:	73 20 74 68 65 20 73 74 72 75 63 74 75 72 65 20					s the structure
0x000047610:	6F 66 20 74 68 65 20 72 69 63 69 6E 20 61 73 20					of the ricin as
0x000047620:	61 20 64 65 61 64 6C 79 20 70 6F 69 73 6F 6E 2E					a deadly poison.
0x000047630:	20 20 49 27 6C 6C 20 65 78 61 70 6C 69 6E 20 69					I'll exaplin i
0x000047640:	74 20 74 6F 20 79 6F 75 20 77 68 65 6E 20 77 65					t to you when we
0x000047650:	20 6D 65 65 74 2E 20 20 87 C9 3C C6 68 86 E1 91					meet. ..<.h...

/img_mysteryDriveImage - Autopsy.dd/vol_vol2/nash							
Table		Thumbnail					
Name	Modified Time	Change Time	Access Time	Created Time	Size	Flags(Dir)	Flags(Meta)
theAnt.txt	2019-03-10 13:15:34 CDT	0000-00-00 00:00:00	2019-03-13 00:00:00 CDT	2019-03-13 00:03:32 CDT	176	Allocated	Allocated
theCamel.txt	2019-03-10 13:15:34 CDT	0000-00-00 00:00:00	2019-03-13 00:00:00 CDT	2019-03-13 00:03:33 CDT	135	Allocated	Allocated
thePurist.txt	2019-03-10 13:15:34 CDT	0000-00-00 00:00:00	2019-03-13 00:00:00 CDT	2019-03-13 00:03:33 CDT	88375	Allocated	Allocated
thePurist0.txt	2019-03-10 13:15:34 CDT	0000-00-00 00:00:00	2019-03-13 00:00:00 CDT	2019-03-13 00:03:33 CDT	551	Unallocated	Unallocated
TheSeagull.txt	2019-03-10 13:15:34 CDT	0000-00-00 00:00:00	2019-03-13 00:00:00 CDT	2019-03-13 00:03:33 CDT	152	Allocated	Allocated
theTermite.txt	2019-03-10 13:15:34 CDT	0000-00-00 00:00:00	2019-03-13 00:00:00 CDT	2019-03-13 00:03:33 CDT	292621	Allocated	Allocated
theTurtle.txt	2019-03-10 13:15:34 CDT	0000-00-00 00:00:00	2019-03-13 00:00:00 CDT	2019-03-13 00:03:32 CDT	168	Allocated	Allocated

## WinHex

010A75F0	C2 87 C3 50 61 75 6C 3A 20 20 54 68 69 73 20 69	À±ÃPaul: This i	Default Edit Mode
010A7600	73 20 74 68 65 20 73 74 72 75 63 74 75 72 65 20	s the structure	State: original
010A7610	6F 66 20 74 68 65 20 72 69 63 69 6E 20 61 73 20	of the ricin as	Undo level: 0
010A7620	61 20 64 65 61 64 6C 79 20 70 6F 69 73 6F 6E 2E	a deadly poison.	Undo reverses: n/a
010A7630	20 20 49 27 6C 6C 20 65 78 61 70 6C 69 6E 20 69	I'll exaplin i	Alloc. of visible drive space:
010A7640	74 20 74 6F 20 79 6F 75 20 77 68 65 6E 20 77 65	t to you when we	Cluster No.: 8,428
010A7650	20 6D 65 65 74 2E 20 20 87 C9 3C C6 68 86 E1 91	meet. #É<Æhtá'	theTermite.txt
010A7660	2C 3B 26 F2 3C 35 9C 61 E7 F9 B5 4C 9E 9C 86 FE	,;&ò<5œaçùuLžøtp	\nash\
010A7670	14 3C 70 54 B4 AD 20 08 82 08 0F C2 9B D6 DB 9B	<pT' - , Å>ÖÙ>	

mysteryDrivelImage - Winh... mysteryDrivelImage - Winh..., P1 mysteryDrivelImage - Winh..., P3							
\nash							
Name	Ext.	Size	Created	Modified	Record changed	Attr.	1st sector
.. = (Root directory)		16.0 KB					368
. = nash		2.0 KB	03/13/2019 00:02:....	03/13/2019 00:02:12			33,336
theAnt.txt	txt	176 B	03/13/2019 00:03:....	03/10/2019 13:15:34	A	33,344	
theCamel.txt	txt	135 B	03/13/2019 00:03:....	03/10/2019 13:15:34	A	33,348	
thePurist.txt	txt	86.3 KB	03/13/2019 00:03:....	03/10/2019 13:15:34	A	33,352	
thePurist0.txt	txt	0.5 KB	03/13/2019 00:03:....	03/10/2019 13:15:34	A	33,528	
TheSeagull.txt	txt	152 B	03/13/2019 00:03:....	03/10/2019 13:15:34	A	33,532	
theTermite.txt	txt	286 KB	03/13/2019 00:03:....	03/10/2019 13:15:34	A	33,536	
theTurtle.txt	txt	168 B	03/13/2019 00:03:....	03/10/2019 13:15:34	A	33,340	

### Item #3

[Image within anna1.doc](#)

This item is a .doc file that contains an image of a woman within it. The file is contained within the third partition of the drive. The file being named anna1 most likely indicates that the woman in the image is called Anna or goes by that name.

This item correlates with the first item discussed, the message regarding a meetup with a person by the name of Anna and to make sure she looks like her picture. This is likely the picture that the message was referring to. Images of the picture and its location can be seen below.

### The Picture



## Autopsy

Directory Listing							
/img_mysteryDriveImage - Autopsy.dd/vol_004							
Name	Modified Time	Change Time	Access Time	Created Time	Size	Flags(Dir)	
System Volume Information	2019-03-11 00:06:12 CDT	0000-00-00 00:00:00	2019-03-11 00:00:00 CDT	2019-03-11 00:06:11 CDT	1024	Allocated	
.~lock.anna1.doc#	2019-03-12 23:43:00 CDT	0000-00-00 00:00:00	2019-03-12 00:00:00 CDT	2019-03-12 23:42:58 CDT	100	Unallocated	
anna1.doc	2019-03-06 20:25:58 CST	0000-00-00 00:00:00	2019-03-12 00:00:00 CDT	2019-03-12 23:41:37 CDT	559959	Allocated	
liszt-RhapsodyEspangnole.mp3	2019-03-06 20:25:58 CST	0000-00-00 00:00:00	2019-03-12 00:00:00 CDT	2019-03-12 23:53:33 CDT	4852970	Allocated	
liszt1.pdf	2019-03-06 20:25:58 CST	0000-00-00 00:00:00	2019-03-12 00:00:00 CDT	2019-03-12 23:53:04 CDT	48808	Allocated	

## WinHex

mysteryDrivelmage - Winh...   mysteryDrivelmage - Winh..., P1   mysteryDrivelmage - Winh..., P3							
Name	Ext.	Size	Created	Modified	Record changed	Attr.	1st sector
(Root directory)		16.0 KB					120
System Volume Information		1.0 KB	03/11/2019 00:06:...	03/11/2019 00:06:12		SH	152
.~lock.anna1.doc#	doc#	100 B	03/12/2019 23:42:...	03/12/2019 23:43:00		HA	1,252
anna1.doc	doc	547 KB	03/12/2019 23:41:...	03/06/2019 20:25:58		A	158
liszt-RhapsodyEspangnole.mp3	mp3	4.6 MB	03/12/2019 23:53:...	03/06/2019 20:25:58		A	1,348
liszt1.pdf	pdf	47.7 KB	03/12/2019 23:53:...	03/06/2019 20:25:58		A	1,252
Boot sector		4.0 KB					0
FAT 1		28.0 KB					8
FAT 2		28.0 KB					64
Free space (net)		8.7 MB					
Idle space							

Item #4  
HiPaul.docx

This item is a .docx file with a message that appears to be from a person named Craig to another person named Paul. The file is held within the first partition of the drive. The message was written in a word processing software and is not hidden like some of the other items. The message reads out, “Hi Paul: Here is the old flash drive that I told you about that had the pics of Enescu and Liszt and some of their music. There may be some other files on it that I didn’t delete. Craig.”

This file appears to be a message left by a person named, Craig, for the recipient named, Paul, after they received the hard drive. The message states that there are some pictures of some artists and some of their music on the drive as well as some left-over files. Images of the message and file’s location can be seen below.

## LibreOffice

Hi Paul:

Here is the old flash drive that I told you about that had the pics of Enescu and Liszt and some of their music. There may be some other files on it that I didn't delete.

Craig

## Autopsy

/img_mysteryDriveImage - Autopsy.dd/vol_ vol2						
Name	Modified Time	Change Time	Access Time	Created Time	Size	Flags(Dir)
📁 nash	2019-03-13 00:02:12 CDT	0000-00-00 00:00:00	2019-03-13 00:00:00 CDT	2019-03-13 00:02:11 CDT	2048	Allocated
✖️ New folder	2019-03-12 23:58:40 CDT	0000-00-00 00:00:00	2019-03-12 00:00:00 CDT	2019-03-12 23:58:38 CDT	0	Unallocated
✖️ New folder	2019-03-13 00:02:12 CDT	0000-00-00 00:00:00	2019-03-13 00:00:00 CDT	2019-03-13 00:02:11 CDT	0	Unallocated
📁 System Volume Information	2019-03-11 00:02:08 CDT	0000-00-00 00:00:00	2019-03-11 00:00:00 CDT	2019-03-11 00:02:07 CDT	2048	Allocated
🎵 enescu-RomRhap#1.mp3	2019-03-06 20:25:58 CST	0000-00-00 00:00:00	2019-03-12 00:00:00 CDT	2019-03-12 22:29:40 CDT	16674005	Allocated
🖼️ enescu1.jpg	2019-03-06 20:25:58 CST	0000-00-00 00:00:00	2019-03-12 00:00:00 CDT	2019-03-12 22:36:07 CDT	164152	Allocated
DOC HiPaul.docx	2019-03-12 22:26:56 CDT	0000-00-00 00:00:00	2019-03-12 00:00:00 CDT	2019-03-12 23:58:13 CDT	14958	Allocated

## WinHex

mysteryDrivelmage - Winh... mysteryDrivelmage - Winh..., P1   mysteryDrivelmage - Winh..., P3							
Name	Ext.	Size	Created	Modified	Record changed	Attr.	1st sector
📁 (Root directory)		16.0 KB					368
✖️ ?nescu		2.0 KB	03/12/2019 23:58:... 03/12/2019 23:58:40				33,336
📁 nash		2.0 KB	03/13/2019 00:02:... 03/13/2019 00:02:12				33,336
✖️ New folder		0 B	03/12/2019 23:58:... 03/12/2019 23:58:40				33,336
✖️ New folder		0 B	03/13/2019 00:02:... 03/13/2019 00:02:12				33,336
📁 System Volume Information		2.0 KB	03/11/2019 00:02:... 03/11/2019 00:02:08		SH		400
🎵 enescu-RomRhap#1.mp3	mp3	15.9 MB	03/12/2019 22:29:... 03/06/2019 20:25:58		A		412
🖼️ enescu1.jpg	jpg	160 KB	03/12/2019 22:36:... 03/06/2019 20:25:58		A		32,980
DOC HiPaul.docx	docx	14.6 KB	03/12/2019 23:58:... 03/12/2019 22:26:56		A		33,304
DOC TheRaven.doc	doc	22.5 KB	03/13/2019 00:14:... 03/11/2019 01:31:22		A		34,108
Boot sector		2.0 KB					0
FAT 1		91.0 KB					4
FAT 2		91.0 KB					186
Free space (net)		74.3 MB					
Idle space							

## Item #5

### Item Link within thePurist.txt

This item is a link hidden within the text file, “thePurist.txt.” The first portion of the text file contains the poem *The Purist* by Ogden Nash. The link placed underneath the poem in the text file. The file is located within the folder named “nash” that is within the first partition. Within the folder are several other text files of poems by Ogden Nash. The link as show is “File source:

[http://commons.wikimedia.org/wiki/File:Ricinus\\_communis\\_006.JPG.](http://commons.wikimedia.org/wiki/File:Ricinus_communis_006.JPG)

This link points to a wikipedia page that contains an image of a plant called Ricinus communis. This item correlates with an item that refers to a type of poison called “ricin,” which can be concocted with the use of a Ricinus communis plant. Images of the hex values, location of the link, the link itself, and picture of the plant can all be seen below.

### Autopsy

Hex	Strings	File Metadata	Results	Indexed Text	Media
Page: 1 of 6	Page			Go to Page: 372	Jump to Offset 0
0x00000460: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00					-----
0x00000470: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00					-----
0x00000480: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00					-----
0x00000490: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00					-----
0x000004a0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00					-----
0x000004b0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00					-----
0x000004c0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00					-----
0x000004d0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00					-----
0x000004e0: FF D8 FF E0 20 10 4A 46 49 46 20 01 01 01 20 48					.... JFIF ... H
0x000004f0: 20 48 20 20 FF FE 20 4E 46 69 6C 65 20 73 6F 75					H .. NFile sou
0x00000500: 72 63 65 3A 20 68 74 74 70 3A 2F 2F 63 6F 6D 6D					rce: http://comm
0x00000510: 6F 6E 73 2E 77 69 6B 69 6D 65 64 69 61 2E 6F 72					ons.wikimedia.or
0x00000520: 67 2F 77 69 6B 69 2F 46 69 6C 65 3A 52 69 63 69					g/wiki/File:Rici
0x00000530: 6E 75 73 5F 63 6F 6D 6D 75 6E 69 73 5F 30 30 36					nus_communis_006
0x00000540: 2E 4A 50 47 FF DB 20 43 20 06 04 05 06 05 04 06					.JPG.. C .....

/img_mysteryDriveImage - Autopsy.dd/vol_vol2/nash						
Table		Thumbnail				
Name	Modified Time	Change Time	Access Time	Created Time	Size	Flags(Dir)
theAnt.txt	2019-03-10 13:15:34 CDT	0000-00-00 00:00:00	2019-03-13 00:00:00 CDT	2019-03-13 00:03:32 CDT	176	Allocated
theCamel.txt	2019-03-10 13:15:34 CDT	0000-00-00 00:00:00	2019-03-13 00:00:00 CDT	2019-03-13 00:03:33 CDT	135	Allocated
thePurist.txt	2019-03-10 13:15:34 CDT	0000-00-00 00:00:00	2019-03-13 00:00:00 CDT	2019-03-13 00:03:33 CDT	88375	Allocated
thePurist0.txt	2019-03-10 13:15:34 CDT	0000-00-00 00:00:00	2019-03-13 00:00:00 CDT	2019-03-13 00:03:33 CDT	551	Unallocated
TheSeagull.txt	2019-03-10 13:15:34 CDT	0000-00-00 00:00:00	2019-03-13 00:00:00 CDT	2019-03-13 00:03:33 CDT	152	Allocated

## WinHex

mysteryDrivelImage - Winh...		mysteryDrivelImage - Winh..., P1		mysteryDrivelImage - Winh..., P3				
\nash		Ext.	Size	Created	Modified	Record changed	Attr.	1st sector
.. = (Root directory)			16.0 KB					368
. = nash			2.0 KB	03/13/2019 00:02:...	03/13/2019 00:02:12			33,336
theAnt.txt	txt		176 B	03/13/2019 00:03:...	03/10/2019 13:15:34		A	33,344
theCamel.txt	txt		135 B	03/13/2019 00:03:...	03/10/2019 13:15:34		A	33,348
thePurist.txt	txt		86.3 KB	03/13/2019 00:03:...	03/10/2019 13:15:34		A	33,352
thePurist0.txt	txt		0.5 KB	03/13/2019 00:03:...	03/10/2019 13:15:34		A	33,528
TheSeagull.txt	txt		152 B	03/13/2019 00:03:...	03/10/2019 13:15:34		A	33,532
theTermite.txt	txt		286 KB	03/13/2019 00:03:...	03/10/2019 13:15:34		A	33,536
theTurtle.txt	txt		168 B	03/13/2019 00:03:...	03/10/2019 13:15:34		A	33,340

Wikimedia

[http://commons.wikimedia.org/wiki/File:Ricinus\\_communis\\_006.JPG](http://commons.wikimedia.org/wiki/File:Ricinus_communis_006.JPG)

## Ricinus communis

