



Data Leak Project

Case Information

Case Number	Final
Submitted By	Tilak Raj
Examiner Name	Tilak Raj

Hashes

MD5 Hash

Name	Acquisition MD5	Verification MD5	Evidence Number	Examiner Name
Company's USB	8bfa4230bf4e35db966b8c1a9321a0b1	8bfa4230bf4e35db966b8c1a9321a0b1	0x02-1	dForensics_Team
cfreds_2015_data_leakage_rm#2	b4644902acab4583a1d0f9f1a08faa77	b4644902acab4583a1d0f9f1a08faa77	0x02	dForensics_Team
cfreds_2015_data_leakage_rm#3	df914108fb3d86744eb688eba482fbdf	df914108fb3d86744eb688eba482fbdf	0x03	dForensics_Team
cfreds_2015_data_leakage_pc	a49d1254c873808c58e6f1bcd60b5bde	a49d1254c873808c58e6f1bcd60b5bde	0x01	dForensics_Team

SHA1 Hash




Name	Acquisition MD5	Verification MD5	Evidence Number	Acquisition SHA1	Verification SHA1
Company's USB	8bfa4230bf4e35db966b8c1a9321a0b1	8bfa4230bf4e35db966b8c1a9321a0b1	0x02-1	f6bb840e98dd7c325af45539313fc3978fff812c	f6bb840e98dd7c325af45539313fc3978fff812c
cfreds_2015_data_leakage_rm#2	b4644902acab4583a1d0f9f1a08faa77	b4644902acab4583a1d0f9f1a08faa77	0x02	048961a85ca3eced8cc73f1517442d31d4dca0a3	048961a85ca3eced8cc73f1517442d31d4dca0a3
cfreds_2015_data_leakage_rm#3	df914108fb3d86744eb688eba482fbdf	df914108fb3d86744eb688eba482fbdf	0x03	7f3c2eb1f1e2db97be6e963625402a0e362a532c	7f3c2eb1f1e2db97be6e963625402a0e362a532c
cfreds_2015_data_leakage_pc	a49d1254c873808c58e6f1bcd60b5bde	a49d1254c873808c58e6f1bcd60b5bde	0x01	afe5c9ab487bd47a8a9856b1371c2384d44fd785	afe5c9ab487bd47a8a9856b1371c2384d44fd785

Final Report

1) PC Partition

Item Path PC Partition










Comment Q2. Identify the partition information of PC image

	Name	Logical Size	Physical Size	Physical Location
1	 cfreds_2015_data_leakage_pc	0	512	0
2	 C	4,096	4,096	1,228,800
3	 D	12,288	12,288	105,918,464

2) Operating System

Item Path Operating System




Comment Q3. Explain installed OS information in detail. (OS name, install date, registered owner...)

	Name	File Offset	Last Written	Type	Value Text
1	 Product Name		03/22/15 10:21:53 AM	1	Windows 7 Ultimate
2	 Product ID		03/22/15 10:21:53 AM	1	00426-292-0000007-85262
3	 Current Version		03/22/15 10:21:53 AM	1	6.1
4	 Current Build Number		03/22/15 10:21:53 AM	1	7601
5	 Registered Owner		03/22/15 10:21:53 AM	1	informant
6	 Registered Organization		03/22/15 10:21:53 AM	1	
7	 System Root		03/22/15 10:21:53 AM	1	C:\Windows
8	 Path Name		03/22/15 10:21:53 AM	1	C:\Windows
9	 Install Date		03/22/15 10:21:53 AM	4	Sun, 22 Mar 2015 14:34:26 GMT
10	 Shutdown Time		03/25/15 10:31:05 AM	3	Wed, 25 Mar 2015 15:31:05 GMT

3) Time Zone

Item Path Time Zone

Comment Q4. What is the timezone setting?

	Name	File Offset	Last Written	Type	Value Text
1	 Standard Time Bias		03/25/15 05:34:25 AM	4	0
2	 Standard Time		03/25/15 05:34:25 AM	1	Eastern Standard Time
3	 Daylight Time Bias		03/25/15 05:34:25 AM	4	+1

4	Daylight Savings		03/25/15 05:34:25 AM	1	Eastern Daylight Time
5	Display			0	(UTC-05:00) Eastern Time (US & Canada)

4) ComputerName

Item Path CMI-CreateHive{2A7FB991-7BBE-4F9D-B91E-7CB51D4737F5}\ControlSet001\Control\ComputerName\ComputerName\ComputerName

File Created

Last Written

Last Accessed

MD5 5c604541472dbb999aed7cf19a580291

Start Sector 6,156

Sector offset 476

File Offset 0

Length 26

Comment

I N F O R M A N T - P C

5) OS Account Name

Item Path OS Account Name

Comment Q6. List all accounts in OS except the system accounts: Administrator, Guest, systemprofile, LocalService, NetworkService. (Account name, login count, last logon date...)

	Name	User Name	Full Name	Security ID	Last Logon Date
1	admin11	admin11	admin11	S-1-5-21-2425377081-3129163575-2985601102-1001	03/22/15 10:57:02 AM
2	informant	informant		S-1-5-21-2425377081-3129163575-2985601102-1000	03/25/15 09:45:59 AM
3	ITechTeam	ITechTeam	ITechTeam	S-1-5-21-2425377081-3129163575-2985601102-1002	
4	temporary	temporary	temporary	S-1-5-21-2425377081-3129163575-2985601102-1003	03/22/15 10:55:57 AM

6) Last Logon User

Item Path Last Logon User

Comment Q7. Who was the last user to logon into PC?

	Name	User Name	Security ID	Last Logon Date
1	informant	informant	S-1-5-21-2425377081-3129163575-2985601102-1000	03/25/15 09:45:59 AM

7) Last Shutdown Time

Item Path Last Shutdown Time

Comment Q8. When was the last recorded shutdown date/time?

	Name	Last Written	Type	Value Text
1	Shutdown Time	03/25/15 10:31:05 AM	3	Wed, 25 Mar 2015 15:31:05 GMT

8) DHCP IP Address

Item Path DHCP IP Address

Comment Q9. Explain the information of network interface(s) with an IP address assigned by DHCP.

	Name	DHCP Default Gateway	DHCP IP Address	DHCP Server Address	DHCP Subnet Mask
1	{E2B9AEEC-B1F7-4778-A049-50D7F2DAB2DE}	10.11.11.2	10.11.11.129	10.11.11.254	255.255.255.0

9) Application Installed

Item Path Application Installed

Comment Q10. What applications were installed by the suspect after installing OS?

	Name	Last Written	Value Text
1	chrome.exe	03/22/15 10:11:52 AM	C:\Program Files (x86)\Google\Chrome\Application\chrome.exe
2	cmmgr32.exe	03/25/15 06:14:17 AM	
3	Eraser.exe	03/25/15 09:57:31 AM	C:\Program Files\Eraser\Eraser.exe
4	excel.exe	03/22/15 10:03:49 AM	C:\PROGRA~1\MICROS~2\Office15\EXCEL.EXE
5	IEDIAG.EXE	03/22/15 10:19:29 AM	C:\Program Files\Internet Explorer\IEDIAGCMD.EXE
6	IEDIAGCMD.EXE	03/22/15 10:19:29 AM	C:\Program Files\Internet Explorer\IEDIAGCMD.EXE
7	IEXPLORE.EXE	03/22/15 10:19:29 AM	C:\Program Files\Internet Explorer\IEXPLORE.EXE
8	MsoHtmEd.exe	03/22/15 10:01:46 AM	
9	msoxmled.exe	03/22/15 10:03:49 AM	C:\Program Files\Common Files\Microsoft Shared\OFFICE15\MSOXMLED.EXE
10	OUTLOOK.EXE	03/22/15 10:03:50 AM	C:\PROGRA~1\MICROS~2\Office15\OUTLOOK.EXE
11	powerpnt.exe	03/22/15 10:03:50 AM	C:\PROGRA~1\MICROS~2\Office15\POWERPNT.EXE
12	vstoee.dll	03/22/15 10:03:33 AM	
13	Winword.exe	03/22/15 10:03:50 AM	C:\PROGRA~1\MICROS~2\Office15\WINWORD.EXE

10) Traces of System Off

Item Path Traces of System Off

Comment Q11. List all traces about the system off.

	Event ID	Time Written	Computer
1	6,006	03/22/15 09:38:16 AM	informant-PC
2	6,006	03/22/15 10:19:43 AM	informant-PC
3	6,006	03/22/15 10:28:28 AM	informant-PC
4	6,006	03/22/15 11:00:09 AM	informant-PC
5	6,006	03/23/15 04:03:01 PM	informant-PC

6	6,006	03/24/15 04:07:27 PM	informant-PC
7	6,006	03/25/15 10:31:00 AM	informant-PC

11) Trace of System On

Item Path Trace of System On











Comment Q11. List all traces about the system on



























	Event ID	Time Written	Computer
1	4,608	03/25/15 05:19:26 AM	informant-PC
2	4,608	03/22/15 09:51:14 AM	informant-PC
3	4,608	03/22/15 10:22:31 AM	informant-PC
4	4,608	03/22/15 10:43:36 AM	informant-PC
5	4,608	03/23/15 12:24:23 PM	informant-PC
6	4,608	03/24/15 08:21:29 AM	informant-PC
7	4,608	03/25/15 08:05:41 AM	informant-PC




























12) Traces of Account Log On


























Item Path Traces of Account Log On























Comment Q11. List all traces about the user log on.







	Name	Event ID	Time Generated	Computer
1	 Account log on	4,624	03/25/15 05:19:26 AM	informant-PC
2	 Account log on	4,624	03/25/15 05:19:29 AM	informant-PC
3	 Account log on	4,624	03/25/15 05:19:30 AM	informant-PC
4	 Account log on	4,624	03/25/15 05:19:46 AM	informant-PC
5	 Account log on	4,624	03/25/15 05:19:46 AM	informant-PC
6	 Account log on	4,624	03/25/15 05:19:46 AM	informant-PC
7	 Account log on	4,624	03/25/15 05:33:14 AM	informant-PC
8	 Account log on	4,624	03/25/15 05:33:16 AM	informant-PC
9	 Account log on	4,624	03/25/15 05:33:19 AM	informant-PC
10	 Account log on	4,624	03/22/15 09:34:24 AM	informant-PC

11	 Account log on	4,624	03/22/15 09:34:28 AM	informant-PC
12	 Account log on	4,624	03/22/15 09:34:28 AM	informant-PC
13	 Account log on	4,624	03/22/15 09:34:49 AM	informant-PC
14	 Account log on	4,624	03/22/15 09:51:14 AM	informant-PC
15	 Account log on	4,624	03/22/15 09:51:15 AM	informant-PC
16	 Account log on	4,624	03/22/15 09:51:15 AM	informant-PC
17	 Account log on	4,624	03/22/15 09:51:16 AM	informant-PC
18	 Account log on	4,624	03/22/15 09:51:16 AM	informant-PC
19	 Account log on	4,624	03/22/15 09:51:16 AM	informant-PC
20	 Account log on	4,624	03/22/15 09:51:20 AM	informant-PC
21	 Account log on	4,624	03/22/15 09:51:27 AM	informant-PC
22	 Account log on	4,624	03/22/15 09:53:30 AM	informant-PC
23	 Account log on	4,624	03/22/15 09:53:31 AM	informant-PC
24	 Account log on	4,624	03/22/15 09:53:39 AM	informant-PC
25	 Account log on	4,624	03/22/15 09:53:39 AM	informant-PC
26	 Account log on	4,624	03/22/15 10:00:08 AM	informant-PC
27	 Account log on	4,624	03/22/15 10:00:08 AM	informant-PC
28	 Account log on	4,624	03/22/15 10:00:18 AM	informant-PC
29	 Account log on	4,624	03/22/15 10:04:33 AM	informant-PC
30	 Account log on	4,624	03/22/15 10:12:37 AM	informant-PC
31	 Account log on	4,624	03/22/15 10:13:12 AM	informant-PC
32	 Account log on	4,624	03/22/15 10:13:12 AM	informant-PC
33	 Account log on	4,624	03/22/15 10:16:01 AM	informant-PC
34	 Account log on	4,624	03/22/15 10:19:42 AM	informant-PC
35	 Account log on	4,624	03/22/15 10:22:31 AM	informant-PC
36	 Account log on	4,624	03/22/15 10:22:54 AM	informant-PC
37	 Account log on	4,624	03/22/15 10:22:54 AM	informant-PC

38	 Account log on	4,624	03/22/15 10:22:54 AM	informant-PC
39	 Account log on	4,624	03/22/15 10:22:54 AM	informant-PC
40	 Account log on	4,624	03/22/15 10:22:54 AM	informant-PC
41	 Account log on	4,624	03/22/15 10:22:56 AM	informant-PC
42	 Account log on	4,624	03/22/15 10:23:02 AM	informant-PC
43	 Account log on	4,624	03/22/15 10:23:02 AM	informant-PC
44	 Account log on	4,624	03/22/15 10:23:12 AM	informant-PC
45	 Account log on	4,624	03/22/15 10:24:03 AM	informant-PC
46	 Account log on	4,624	03/22/15 10:24:03 AM	informant-PC
47	 Account log on	4,624	03/22/15 10:25:04 AM	informant-PC
48	 Account log on	4,624	03/22/15 10:43:36 AM	informant-PC
49	 Account log on	4,624	03/22/15 10:43:37 AM	informant-PC
50	 Account log on	4,624	03/22/15 10:43:38 AM	informant-PC
51	 Account log on	4,624	03/22/15 10:43:38 AM	informant-PC
52	 Account log on	4,624	03/22/15 10:43:38 AM	informant-PC
53	 Account log on	4,624	03/22/15 10:43:38 AM	informant-PC
54	 Account log on	4,624	03/22/15 10:43:38 AM	informant-PC
55	 Account log on	4,624	03/22/15 10:43:43 AM	informant-PC
56	 Account log on	4,624	03/22/15 10:45:16 AM	informant-PC
57	 Account log on	4,624	03/22/15 10:45:16 AM	informant-PC
58	 Account log on	4,624	03/22/15 10:45:31 AM	informant-PC
59	 Account log on	4,624	03/22/15 10:45:45 AM	informant-PC
60	 Account log on	4,624	03/22/15 10:47:37 AM	informant-PC
61	 Account log on	4,624	03/22/15 10:53:44 AM	informant-PC
62	 Account log on	4,624	03/22/15 10:53:44 AM	informant-PC
63	 Account log on	4,624	03/22/15 10:55:57 AM	informant-PC
64	 Account log on	4,624	03/22/15 10:57:02 AM	informant-PC

65	 Account log on	4,624	03/22/15 10:57:02 AM	informant-PC
66	 Account log on	4,624	03/22/15 10:57:54 AM	informant-PC
67	 Account log on	4,624	03/22/15 10:57:54 AM	informant-PC
68	 Account log on	4,624	03/23/15 12:24:23 PM	informant-PC
69	 Account log on	4,624	03/23/15 12:24:24 PM	informant-PC
70	 Account log on	4,624	03/23/15 12:24:24 PM	informant-PC
71	 Account log on	4,624	03/23/15 12:24:24 PM	informant-PC
72	 Account log on	4,624	03/23/15 12:24:24 PM	informant-PC
73	 Account log on	4,624	03/23/15 12:24:25 PM	informant-PC
74	 Account log on	4,624	03/23/15 12:24:26 PM	informant-PC
75	 Account log on	4,624	03/23/15 12:24:28 PM	informant-PC
76	 Account log on	4,624	03/23/15 12:24:41 PM	informant-PC
77	 Account log on	4,624	03/23/15 12:24:41 PM	informant-PC
78	 Account log on	4,624	03/23/15 12:24:53 PM	informant-PC
79	 Account log on	4,624	03/23/15 12:26:34 PM	informant-PC
80	 Account log on	4,624	03/23/15 01:36:07 PM	informant-PC
81	 Account log on	4,624	03/23/15 03:00:22 PM	informant-PC
82	 Account log on	4,624	03/23/15 03:00:45 PM	informant-PC
83	 Account log on	4,624	03/23/15 03:01:01 PM	informant-PC
84	 Account log on	4,624	03/23/15 03:01:02 PM	informant-PC
85	 Account log on	4,624	03/24/15 08:21:29 AM	informant-PC
86	 Account log on	4,624	03/24/15 08:21:36 AM	informant-PC
87	 Account log on	4,624	03/24/15 08:21:36 AM	informant-PC
88	 Account log on	4,624	03/24/15 08:21:36 AM	informant-PC
89	 Account log on	4,624	03/24/15 08:21:36 AM	informant-PC
90	 Account log on	4,624	03/24/15 08:21:36 AM	informant-PC
91	 Account log on	4,624	03/24/15 08:21:37 AM	informant-PC

92	 Account log on	4,624	03/24/15 08:21:38 AM	informant-PC
93	 Account log on	4,624	03/24/15 08:21:44 AM	informant-PC
94	 Account log on	4,624	03/24/15 08:21:44 AM	informant-PC
95	 Account log on	4,624	03/24/15 08:21:57 AM	informant-PC
96	 Account log on	4,624	03/24/15 08:23:40 AM	informant-PC
97	 Account log on	4,624	03/24/15 10:14:30 AM	informant-PC
98	 Account log on	4,624	03/24/15 10:21:38 AM	informant-PC
99	 Account log on	4,624	03/24/15 10:21:38 AM	informant-PC
100	 Account log on	4,624	03/24/15 10:22:39 AM	informant-PC
101	 Account log on	4,624	03/24/15 10:46:14 AM	informant-PC
102	 Account log on	4,624	03/24/15 01:28:38 PM	informant-PC
103	 Account log on	4,624	03/24/15 01:28:38 PM	informant-PC
104	 Account log on	4,624	03/24/15 03:58:52 PM	informant-PC
105	 Account log on	4,624	03/25/15 08:05:41 AM	informant-PC
106	 Account log on	4,624	03/25/15 08:05:42 AM	informant-PC
107	 Account log on	4,624	03/25/15 08:05:43 AM	informant-PC
108	 Account log on	4,624	03/25/15 08:05:43 AM	informant-PC
109	 Account log on	4,624	03/25/15 08:05:43 AM	informant-PC
110	 Account log on	4,624	03/25/15 08:05:43 AM	informant-PC
111	 Account log on	4,624	03/25/15 08:05:45 AM	informant-PC
112	 Account log on	4,624	03/25/15 08:05:48 AM	informant-PC
113	 Account log on	4,624	03/25/15 08:06:08 AM	informant-PC
114	 Account log on	4,624	03/25/15 08:06:08 AM	informant-PC
115	 Account log on	4,624	03/25/15 08:06:16 AM	informant-PC
116	 Account log on	4,624	03/25/15 08:07:49 AM	informant-PC
117	 Account log on	4,624	03/25/15 08:23:59 AM	informant-PC
118	 Account log on	4,624	03/25/15 09:31:53 AM	informant-PC

119	 Account log on	4,624	03/25/15 09:45:59 AM	informant-PC
120	 Account log on	4,624	03/25/15 09:45:59 AM	informant-PC
121	 Account log on	4,624	03/25/15 09:50:28 AM	informant-PC
122	 Account log on	4,624	03/25/15 09:50:30 AM	informant-PC
123	 Account log on	4,624	03/25/15 09:50:30 AM	informant-PC
124	 Account log on	4,624	03/25/15 09:50:50 AM	informant-PC
125	 Account log on	4,624	03/25/15 09:56:55 AM	informant-PC
126	 Account log on	4,624	03/25/15 09:57:18 AM	informant-PC
127	 Account log on	4,624	03/25/15 09:57:18 AM	informant-PC
128	 Account log on	4,624	03/25/15 10:18:54 AM	informant-PC












13) Traces of User Log Off

Item Path

Traces of User Log Off

Comment

Q11. List all traces about the User log off.

	Name	Event ID	Time Generated	Computer
1	 Account log off	4,634	03/22/15 10:56:45 AM	informant-PC
2	 Account log off	4,634	03/22/15 10:56:45 AM	informant-PC
3	 Account log off	4,634	03/22/15 10:57:55 AM	informant-PC
4	 Account log off	4,634	03/22/15 10:57:55 AM	informant-PC
5	 Account log off	4,634	03/22/15 10:57:56 AM	informant-PC
6	 Account log off	4,634	03/22/15 10:58:26 AM	informant-PC
7	 Account log off	4,634	03/22/15 10:58:26 AM	informant-PC
8	 Account log off	4,634	03/24/15 01:28:38 PM	informant-PC
9	 Account log off	4,634	03/24/15 01:28:38 PM	informant-PC
10	 Account log off	4,634	03/25/15 09:45:59 AM	informant-PC
11	 Account log off	4,634	03/25/15 09:45:59 AM	informant-PC

14) Web Browser Used

Item Path

Web Browser Used

Comment Q12. What web browsers were used?

	Name
1	Internet
2	Internet Explorer (Windows)
3	Chrome (Windows)

15) Website which suspect accessing

Item Path Website which suspect accessing

Comment Q13. What websites were the suspect accessing? (Timestamp, URL...)

	Domain	URL	User	LastAccessed
1	www.google.com/	https://www.google.com/webhp?hl=en	informant	03/24/15 04:07:19 PM
2	www.google.com/	https://www.google.com/webhp?hl=en	informant	03/24/15 04:07:19 PM
3	www.google.com/	https://www.google.com/webhp?hl=en	informant	03/24/15 04:07:19 PM
4	www.google.com/	https://www.google.com/webhp?hl=en	informant	03/24/15 04:07:19 PM
5	www.google.com/	https://www.google.com/webhp?hl=en	informant	03/24/15 04:07:19 PM
6	www.google.com/	https://www.google.com/webhp?hl=en	informant	03/24/15 04:07:19 PM
7	www.google.com/	https://www.google.com/webhp?hl=en	informant	03/24/15 04:07:19 PM
8	www.google.com/	https://www.google.com/webhp?hl=en	informant	03/24/15 04:07:19 PM
9	www.google.com/	https://www.google.com/webhp?hl=en	informant	03/24/15 04:07:19 PM
10	www.google.com/	https://www.google.com/webhp?hl=en	informant	03/24/15 04:07:19 PM
11	www.google.com/	https://www.google.com/webhp?hl=en	informant	03/24/15 04:07:19 PM
12	www.google.com/	https://www.google.com/	informant	03/24/15 04:05:40 PM
13	www.google.com/	https://www.google.com/	informant	03/24/15 04:05:40 PM
14	www.google.com/	https://www.google.com/#q=outlook+2013+settings	informant	03/22/15 10:28:16 AM
15	www.google.com/	https://www.google.com/#q=outlook+2013+settings	informant	03/22/15 10:28:16 AM
16	www.google.com/	https://www.google.com/webhp?hl=en#q=Emmy+Noether&oi=dde&ct=emmy-noethers-133rd-birthday-5681045017985024-hp&hl=en	informant	03/23/15 12:27:56 PM
17	www.google.com/	https://www.google.com/webhp?hl=en#q=Emmy+Noether&oi=dde&ct=emmy-noethers-133rd-birthday-5681045017985024-hp&hl=en	informant	03/23/15 12:27:56 PM
18	nij.gov/	http://nij.gov/topics/forensics/evidence/digital/pages/welcome.aspx	informant	03/23/15 01:16:37 PM
19	nij.gov/	http://nij.gov/topics/forensics/evidence/digital/pages/welcome.aspx	informant	03/23/15 01:16:37 PM

20	www.google.com/	https://www.google.com/	informant	03/24/15 04:05:40 PM
21	www.google.com/	https://www.google.com/	informant	03/24/15 04:05:40 PM
22	windows.microsoft.com/	http://windows.microsoft.com/en-us/internet-explorer/ie-11-worldwide-languages	informant	03/22/15 10:10:24 AM
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113	www.bing.com/	http://www.bing.com/	informant	03/24/15 04:05:40 PM
114	news.google.com/	https://news.google.com/nwshp?hl=en&tab=wn&ei=xnARVdWfPPLjsASdglKoAw&ved=0CAUQqS4oBQ	informant	03/24/15 10:22:04 AM
115	news.google.com/	https://news.google.com/news/section?pz=1&cf=all&ned=us&topic=w&sii dp=0b2226a6a5dab3b27ee85fc5e8d21f28f01e	informant	03/24/15 10:22:46 AM
116	news.google.com/	https://news.google.com/news/section?pz=1&cf=all&ned=us&topic=tc&sii dp=e6116f8175cb189b8dd7fd58ef6bc922ec04	informant	03/24/15 10:23:16 AM
117	news.google.com/	https://news.google.com/news/section?pz=1&cf=all&ned=us&topic=tc&sii dp=e6116f8175cb189b8dd7fd58ef6bc922ec04&ar=1427212899	informant	03/24/15 11:01:39 AM
118	news.google.com/	https://news.google.com/news/section?pz=1&cf=all&ned=us&topic=tc&sii dp=e6116f8175cb189b8dd7fd58ef6bc922ec04&ar=1427213801	informant	03/24/15 11:16:41 AM
119	news.google.com/	https://news.google.com/news/section?pz=1&cf=all&ned=us&topic=tc&sii dp=e6116f8175cb189b8dd7fd58ef6bc922ec04&ar=1427214703	informant	03/24/15 11:31:43 AM
120	news.google.com/	https://news.google.com/news/section?pz=1&cf=all&ned=us&topic=tc&sii dp=e6116f8175cb189b8dd7fd58ef6bc922ec04&ar=1427215604	informant	03/24/15 11:46:44 AM
121	news.google.com/	https://news.google.com/news/section?pz=1&cf=all&ned=us&topic=tc&sii dp=e6116f8175cb189b8dd7fd58ef6bc922ec04&ar=1427216506	informant	03/24/15 12:01:45 PM

122	news.google.com/	https://news.google.com/news/section?pz=1&cf=all&ned=us&topic=tc&siidp=e6116f8175cb189b8dd7fd58ef6bc922ec04&ar=1427217407	informant	03/24/15 12:16:47 PM
123	news.google.com/	https://news.google.com/news/section?pz=1&cf=all&ned=us&topic=tc&siidp=e6116f8175cb189b8dd7fd58ef6bc922ec04&ar=1427218623	informant	03/24/15 12:37:03 PM
124	news.google.com/	https://news.google.com/news/section?pz=1&cf=all&ned=us&topic=tc&siidp=e6116f8175cb189b8dd7fd58ef6bc922ec04&ar=1427219526	informant	03/24/15 12:52:06 PM
125	news.google.com/	https://news.google.com/news/section?pz=1&cf=all&ned=us&topic=tc&siidp=e6116f8175cb189b8dd7fd58ef6bc922ec04&ar=1427220429	informant	03/24/15 01:07:09 PM
126	news.google.com/	https://news.google.com/news/section?pz=1&cf=all&ned=us&topic=tc&siidp=e6116f8175cb189b8dd7fd58ef6bc922ec04&ar=1427221332	informant	03/24/15 01:22:12 PM
127	news.google.com/	https://news.google.com/news/section?pz=1&cf=all&ned=us&topic=tc&siidp=e6116f8175cb189b8dd7fd58ef6bc922ec04&ar=1427222627	informant	03/24/15 01:43:47 PM
128	news.google.com/	https://news.google.com/news?pz=1&cf=all&ned=us&siidp=0c33ef04190b3734a22c5bae18801ff1041e	informant	03/24/15 01:59:52 PM
129	www.cbsnews.com/	http://www.cbsnews.com/news/germanwings-flight-9525-pulverized-plane-parts-rough-mountain-terrain/	informant	03/24/15 02:00:04 PM
130	news.google.com/	https://news.google.com/news/section?pz=1&cf=all&ned=us&topic=w&siidp=538c61c825aba06be7485be747a619778015	informant	03/24/15 02:00:27 PM
131	news.google.com/	https://news.google.com/news?pz=1&cf=all&ned=us&siidp=f206159a77e2be8861b5231ddc055443b303	informant	03/24/15 02:00:53 PM
132	news.google.com/	https://news.google.com/news/section?pz=1&cf=all&ned=us&topic=s&siidp=545d9217fe5452fcfbcb251400793f398ac	informant	03/24/15 02:00:57 PM
133	news.google.com/	https://news.google.com/news?pz=1&hl=en&tab=nn	informant	03/24/15 02:01:18 PM
134	www.bing.com/	http://www.bing.com/	informant	03/24/15 04:05:40 PM
135	news.google.com/	https://news.google.com/news?pz=1&hl=en&tab=nn	informant	03/24/15 02:01:18 PM
136	www.bing.com/	http://www.bing.com/	informant	03/24/15 04:05:40 PM
137	www.google.com/	https://www.google.com/#q=security+checkpoint+cd-r	informant	03/24/15 04:06:50 PM
138	tools.google.com/	http://tools.google.com/chrome/intl/en/welcome.html	admin11	03/22/15 10:55:28 AM
139	www.google.com/	https://www.google.com/intl/en/chrome/browser/welcome.html	admin11	03/22/15 10:55:28 AM

140	www.google.com/	https://www.google.com/webhp?sourceid=chrome-instant&ion=1&espv=2&ie=UTF-8	admin 11	03/22/15 10:55:40 AM
141	www.google.com/	https://www.google.com/webhp?sourceid=chrome-instant&ion=1&espv=2&ie=UTF-8#q=comapny	admin 11	03/22/15 10:55:44 AM
142	iweb.dl.sourceforge.net/	http://iweb.dl.sourceforge.net/project/eraser/Eraser 6/6.2/Eraser 6.2.0.2962.exe	inform ant	
143	dl.google.com/	https://dl.google.com/update2/1.3.26.9/GoogleInstaller_en.application?appguid={8A69D345-D564-463C-AFF1-A69D9E530F96}&iid={68685C6D-795B-6A37-5D90-2AB8DC4D402B}&lang=en&browser=2&usagstats=0&appname=Google Chrome&needsadmin=prefers&brand=CHNG	inform ant	
144	clients6.google.com/ /	https://clients6.google.com/static/proxy.html?jsh=m;/_scs/apps-static/_js/k=oz.gapi.en.Vh6dPmTLRzs.O/m=_features_/am=lQ/rt=j/d=1/t=zcms/rs=AGLTcCPMH84qo1WVX7OKMktu4bYHvIFfsw	inform ant	
145	www.msn.com/	http://www.msn.com/?ocid=iehp	inform ant	
146	www.forensicswiki.org/	http://www.forensicswiki.org/wiki/USB_History_Viewing	inform ant	
147	www.forensicswiki.org/	http://www.forensicswiki.org/favicon.ico	inform ant	
148	www.piriform.com/	http://www.piriform.com/ccleaner/download	inform ant	
149	www.piriform.com/	http://www.piriform.com/ccleaner/download/standard	inform ant	
150	www.piriform.com/	http://www.piriform.com/ccleaner	inform ant	
151	support.microsoft.com/	https://support.microsoft.com/en-us/kb/308427	inform ant	
152	support.microsoft.com/	https://support.microsoft.com/favicon.ico	inform ant	
153	odc.officeapps.live.com/	https://odc.officeapps.live.com/odc/emailhrd?lcid=1033&syslcid=1033&uiid=1033&app=3&ver=15&build=15.0.4420&p=0&a=1&hm=1&sp=0	inform ant	
154	odc.officeapps.live.com/	https://odc.officeapps.live.com/odc/emailhrd?lcid=1033&syslcid=1033&uiid=1033&app=0&ver=15&build=15.0.4420&p=0&a=1&hm=1&sp=0	inform ant	
155	odc.officeapps.live.com/	https://odc.officeapps.live.com/odc/emailhrd?lcid=1033&syslcid=1033&uiid=1033&app=5&ver=15&build=15.0.4420&p=0&a=1&hm=1&sp=0	inform ant	
156	odc.officeapps.live.com/	https://odc.officeapps.live.com/odc/emailhrd?lcid=1033&syslcid=1033&uiid=1033&app=1&ver=15&build=15.0.4420&p=0&a=1&hm=1&sp=0	inform ant	

157	resources.infosecinstitute.com/	http://resources.infosecinstitute.com/windows-systems-and-artifacts-in-digital-forensics-part-i-registry/	informant	
158	resources.infosecinstitute.com/	http://resources.infosecinstitute.com/favicon.ico	informant	
159	msdn.microsoft.com/	https://msdn.microsoft.com/en-us/library/windows/desktop/dd562212(v=vs.85).aspx	informant	
160	www.google.com/	https://www.google.com/chrome/browser/thankyou.html?brand=CHNG&platform=win&clickonceinstalled=1	informant	
161	www.google.com/	https://www.google.com/chrome/index.html?hl=en&brand=CHNG&utm_source=en-hpp&utm_medium=hpp&utm_campaign=en	informant	
162	www.google.com/	https://www.google.com/search?hl=en&source=hp&q=internet+explorer+11&gbv=2&oq=internet+explorer+11&gs_l=heirloom-hp.3..010.5163.7893.0.9562.20.13.0.7.7.0.156.1110.11j2.13.0.msedr...0...1ac.1.34.heirloom-hp..0.20.1250.5j7Xm44tv5w	informant	
163	www.google.com/	https://www.google.com/webhp?hl=en	informant	
164	www.google.com/	https://www.google.com/?gws_rd=ssl	informant	
165	sysinfotools.com/	http://sysinfotools.com/blog/tethering-internet-files-sharing/	informant	
166	technet.microsoft.com/	https://technet.microsoft.com/en-us/library/cc162846.aspx	informant	
167	www.google.com/	http://www.google.com/url?url=http://windows.microsoft.com/en-us/internet-explorer/download-ie&rct=j&frm=1&q=&esrc=s&sa=U&ei=6ykQVZWLGbejsQT7goDACg&ved=0CB8QFjAA&usg=AFQjCNEwslz17kY-jTXbaWPcQDfBbVEi7A	informant	
168	www.google.com/	http://www.google.com/url?url=http://windows.microsoft.com/en-us/internet-explorer/ie-11-worldwide-languages&rct=j&frm=1&q=&esrc=s&sa=U&ei=6ykQVZWLGbejsQT7goDACg&ved=0CCoQFjAB&usg=AFQjCNE7UKIWEBiWO2N96IFeo6ZywhRLfw	informant	
169	sourceforge.net/	http://sourceforge.net/projects/eraser/files/Eraser 6/6.2/Eraser 6.2.0.2962.exe/download	informant	
170	www.microsoft.com/	http://www.microsoft.com/en-us/ie-firstrun/win-7/ie-11/vie	informant	
171	download.microsoft.com/	http://download.microsoft.com/download/7/1/7/7179A150-F2D2-4502-9D70-4B59EA148EAA/IE11-Windows 6.1-x64-en-us.exe	informant	
172	eraser.heidi.ie/	http://eraser.heidi.ie/download.php	informant	

173	eraser.heidi.ie/	http://eraser.heidi.ie/	informant	
174	en.wikipedia.org/	http://en.wikipedia.org/wiki/Event_Viewer	informant	
175	accounts.google.com/	https://accounts.google.com/ServiceLoginAuth	informant	
176	accounts.google.com/	https://accounts.google.com/ServiceLogin?continue=https://www.google.com/settings/storage?hl=en_US&sacu=1&passive=1209600	informant	
177	accounts.google.com/	https://accounts.google.com/o/oauth2/postmessageRelay?parent=https://drive.google.com	informant	
178	accounts.google.com/	https://accounts.google.com/AccountChooser?Email=iaman.informant.personal@gmail.com&continue=https://www.google.com/settings/storage?hl=en_US	informant	
179	go.microsoft.com/	http://go.microsoft.com/fwlink/?LinkID=121792	informant	
180	go.microsoft.com/	http://go.microsoft.com/fwlink/?LinkID=299201	informant	
181	go.microsoft.com/	http://go.microsoft.com/fwlink/?LinkID=69157	informant	
182	windows.microsoft.com/	http://windows.microsoft.com/en-us/internet-explorer/download-ie	informant	
183	windows.microsoft.com/	http://windows.microsoft.com/en-US/internet-explorer/products/ie-8/welcome	informant	
184	windows.microsoft.com/	http://windows.microsoft.com/en-us/internet-explorer/ie-8-welcome	informant	
185	windows.microsoft.com/	http://windows.microsoft.com/en-us/internet-explorer/ie-11-worldwide-languages	informant	
186	www.bing.com/	http://www.bing.com/?FORM=Z9FD1	informant	
187	www.bing.com/	http://www.bing.com/news?q=science+technology+news&FORM=NWBTCB	informant	
188	www.bing.com/	http://www.bing.com/news?q=Soccer+News&FORM=NSBABR	informant	
189	www.bing.com/	http://www.bing.com/news?q=us+news&FORM=NSBABR	informant	
190	www.bing.com/	http://www.bing.com/news?q=world+news&FORM=NSBABR	informant	
191	www.bing.com/	http://www.bing.com/news?q=political+news&FORM=NSBABR	informant	
192	www.bing.com/	http://www.bing.com/news/search?q=file+sharing+and+tethering&FORM=HDRSC6	informant	
193	www.bing.com/	http://www.bing.com/search?q=Top+Stories&FORM=HDRSC1	informant	
194	www.bing.com/	http://www.bing.com/	informant	

195	www.bing.com/	http://www.bing.com/news?q=top+stories&FORM=NSBABR	informant	
196	www.bing.com/	http://www.bing.com/search?q=external device and forensics&qs=n&form=QBRE&pq=external device and forensics&sc=8-9&sp=-1&sk=&cvid=c30c4b1f36114b1c9bc683838c69823a	informant	
197	www.bing.com/	http://www.bing.com/search	informant	
198	www.bing.com/	http://www.bing.com/news?q=business+news&FORM=NSBABR	informant	
199	www.bing.com/	http://www.bing.com/news?q=sports+news&FORM=NSBABR	informant	
200	www.bing.com/	http://www.bing.com/news?q=local&FORM=NSBABR	informant	

16) Search keywords using web browsers

Item Path Search keywords using web browsers

Comment Q14. List all search keywords using web browsers. (Timestamp, URL, keyword...)

	Domain	URL	LastAccessed
1	www.google.com/	https://www.google.com/#q=outlook+2013+settings	03/22/15 10:28:16 AM
2	www.google.com/	https://www.google.com/#q=outlook+2013+settings	03/22/15 10:28:16 AM
3	www.google.com/	https://www.google.com/webhp?hl=en#q=Emmy+Noether&oi=ddle&ct=emmy-noethers-133rd-birthday-5681045017985024-hp&hl=en	03/23/15 12:27:56 PM
4	www.google.com/	https://www.google.com/webhp?hl=en#q=Emmy+Noether&oi=ddle&ct=emmy-noethers-133rd-birthday-5681045017985024-hp&hl=en	03/23/15 12:27:56 PM
5	www.google.com/	https://www.google.com/search?hl=en&source=hp&q=internet+explorer+11&gbv=2&oq=internet+explorer+11&gs_l=heirloom-hp.3..0l10.5163.7893.0.9562.20.13.0.7.7.0.156.1110.11j2.13.0.msedr..0...1ac.1.34.heirloom-hp..0.20.1250.5j7Xm44tv5w	03/22/15 10:10:52 AM
6	www.google.com/	http://www.google.com/url?url=http://windows.microsoft.com/en-us/internet-explorer/ie-11-worldwide-languages&rct=j&frm=1&q=&esrc=s&sa=U&ei=6ykQVZWLGbejsQT7goDACg&ved=0CCoQFjAB&usg=AFQjCNE7UKIWEBIWO2N96IFeo6ZywhRLfw	03/22/15 10:09:56 AM
7	www.google.com/	http://www.google.com/url?url=http://windows.microsoft.com/en-us/internet-explorer/download-ie&rct=j&frm=1&q=&esrc=s&sa=U&ei=6ykQVZWLGbejsQT7goDACg&ved=0CB8QFjAA&usg=AFQjCNEwslz17kY-jTXbaWPcQDfBbVEi7A	03/22/15 10:09:52 AM

8	www.google.com/	https://www.google.com/webhp?hl=en#hl=en&q=data+leakage+methods	03/23/15 01:02:09 PM
9	www.google.com/	https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CB4QFjAA&url=http://www.sans.org/reading-room/whitepapers/awareness/data-leakage-threats-mitigation_1931&ei=IFUQVezLK5PnsATO3IDoBw&usg=AFQjCN GnnDjlx5Rnz6z5bVXCjIgaCwXuaQ&bvm=bv.88528373,d.aWw&cad=rja	03/23/15 01:02:17 PM
10	www.google.com/	https://www.google.com/webhp?hl=en#hl=en&q=leaking+confidential+information	03/23/15 01:02:44 PM
11	www.google.com/	https://www.google.com/webhp?hl=en#q=leaking+confidential+information&hl=en&start=10	03/23/15 01:03:17 PM
12	www.google.com/	https://www.google.com/webhp?hl=en#q=leaking+confidential+information&hl=en&start=20	03/23/15 01:03:31 PM
13	www.google.com/	https://www.google.com/webhp?hl=en#hl=en&q=information+leakage+cases	03/23/15 01:03:40 PM
14	www.google.com/	https://www.google.com/webhp?hl=en#q=information+leakage+cases&hl=en&tbm=nws	03/23/15 01:04:33 PM
15	www.google.com/	https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=newssearch&cd=4&ved=0CCYQqQIoADAD&url=http://www.emirates247.com/business/technology/top-5-sources-leaking-personal-data-2015-03-13-1.584027&ei=sFUQVdKvPPWZsQSC-oLgDA&usg=AFQjCNGhQdoP0v9rKLkw4B9tET-YRTFEtw&bvm=bv.88528373,d.aWw&cad=rja	03/23/15 01:04:53 PM
16	www.google.com/	https://www.google.com/webhp?hl=en#q=information+leakage+cases&hl=en	03/23/15 01:05:15 PM
17	www.google.com/	https://www.google.com/search?q=information+leakage+cases&hl=en&biw=950&bih=499&site=webhp&source=lnms&tbm=isch&sa=X&ei=21UQVb20Eu-HsQTJ5IDAAQ&ved=0CAgQ_AUoAw	03/23/15 01:05:18 PM
18	www.google.com/	https://www.google.com/search?q=information+leakage+cases&hl=en&biw=950&bih=499&site=webhp&tbm=vid&source=lnms&sa=X&ei=3VUQVYH3FMO1sQTf1YGwBw&ved=0CAoQ_AUoBA&dpr=1	03/23/15 01:05:19 PM
19	www.google.com/	https://www.google.com/search?q=information+leakage+cases&hl=en&biw=950&bih=499&site=webhp&tbm=vid&source=lnms&sa=X&ei=3VUQVYH3FMO1sQTf1YGwBw&ved=0CAoQ_AUoBA&dpr=1#q=information+leakage+cases&hl=en	03/23/15 01:05:22 PM

20	www.google.com/	https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CCMQFjAA&url=http://www.mediapost.com/publications/article/205047/google-to-settle-data-leakage-case-for-85-mill.html?edition=&ei=4VUQVdO8JurfsAT9ioLlBQ&usg=AFQjCNFc5f-cGTRfFN2WeWpfm9Eli0siBg&bvm=bv.88528373,d.cWc&cad=rja	03/23/15 01:05:27 PM
21	www.google.com/	https://www.google.com/search?q=information+leakage+cases&hl=en&biw=950&bih=499&site=webhp&tbm=vid&source=lnms&sa=X&ei=3VUQVYH3FMO1sQTf1YGwBw&ved=0CAoQ_AUoBA&dpr=1#hl=en&q=intellectual+property+theft	03/23/15 01:05:48 PM
22	www.google.com/	https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&sqi=2&ved=0CB4QFjAA&url=http://www.fbi.gov/about-us/investigate/white_collar/ipr/iipr&ei=-VUQVaXJM7iSsQT584DADw&usg=AFQjCNF7eFFsWGyWw2jaWkVtlf-0Btdg&bvm=bv.88528373,d.cWc&cad=rja	03/23/15 01:05:54 PM
23	www.google.com/	https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=3&sqi=2&ved=0CDEQFjAC&url=http://en.wikipedia.org/wiki/Intellectual_property&ei=-VUQVaXJM7iSsQT584DADw&usg=AFQjCNHhFTZFak6wQe0WVP95Go0kFfGLA&bvm=bv.88528373,d.cWc&cad=rja	03/23/15 01:06:01 PM
24	www.google.com/	https://www.google.com/search?q=information+leakage+cases&hl=en&biw=950&bih=499&site=webhp&tbm=vid&source=lnms&sa=X&ei=3VUQVYH3FMO1sQTf1YGwBw&ved=0CAoQ_AUoBA&dpr=1#hl=en&q=how+to+leak+a+secret	03/23/15 01:06:27 PM
25	www.google.com/	https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&sqi=2&ved=0CCcQFjAB&url=http://research.microsoft.com/en-us/um/people/yael/publications/2001-leak_secret.pdf&ei=IlyQVbzbB6uxsASbj4GgCA&usg=AFQjCNGpzaLYBk7grHEpVoQi0fIXATFEWA&bvm=bv.88528373,d.cWc&cad=rja	03/23/15 01:06:53 PM
26	www.google.com/	https://www.google.com/search?q=information+leakage+cases&hl=en&biw=950&bih=499&site=webhp&tbm=vid&source=lnms&sa=X&ei=3VUQVYH3FMO1sQTf1YGwBw&ved=0CAoQ_AUoBA&dpr=1#hl=en&q=cloud+storage	03/23/15 01:14:50 PM
27	www.google.com/	https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&sqi=2&ved=0CEUQFjAB&url=http://en.wikipedia.org/wiki/Cloud_storage&ei=GFgQVfWtL8mPsQTr94DADg&usg=AFQjCNH2X7RGXgS6UOnd4gSg8NmtZ6JdQ&bvm=bv.88528373,d.cWc&cad=rja	03/23/15 01:15:09 PM

28	www.google.com/	https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=3&sqi=2&ved=0CEwQFjAC&url=http://www.pcadvisor.co.uk/test-centre/internet/3506734/best-cloud-storage-dropbox-google-drive-onedrive-icloud/&ei=GFgQVfWtL8mPsQTr94DADg&usg=AFQjCNFK5bX07QI1IKNzlkXBEbv8LzMsg&bvm=bv.88528373,d.cWc&cad=rja	03/23/15 01:15:31 PM
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95	www.bing.com/	http://www.bing.com/search?q=Forensic+Email+Investigation&FORM=QSRE1&sid=BE5E388F8757406CAA32E58334719A20&format=jsonv2&jsoncbid=3	
96	www.bing.com/	http://www.bing.com/search?q=cd burning method&qs=n&form=QBRE&pq=cd burning method&sc=8-2&sp=-1&sk=&cvid=b7dbe6fb67424c578172ba57330a0894&sid=BE5E388F8757406CAA32E58334719A20&format=jsonv2&jsoncbid=7	
97	www.bing.com/	http://www.bing.com/search?q=e-mail+investigation&qs=n&pq=e-mail+investigation&sc=8-7&sp=-1&sk=&cvid=fe1c3738d8c7471284731724166959af&first=9&FORM=PERE&sid=BE5E388F8757406CAA32E58334719A20&format=jsonv2&jsoncbid=2	

98	www.bing.com/	http://www.bing.com/search?q=investigation on windows machine&qs=n&form=QBRE&pq=investigation on windows machine&sc=8-4&sp=-1&sk=&cvid=eb73de7f523c48769d56201379f55e67&sid=BE5E388F8757406CAA32E58334719A20&format=jsonv2&jsoncbid=5	
99	www.bing.com/	http://www.bing.com/news?q=sports+news&FORM=NSBABR	
100	www.bing.com/	http://www.bing.com/news?q=local&FORM=NSBABR	
101	www.bing.com/	http://www.bing.com/search?q=eraser&qs=n&form=QBRE&pq=eraser&sc=8-6&sp=-1&sk=&cvid=e3b983fe889944179093ff5199b2eac4&sid=C7E8F3776E804120B57C623F21EF33C4&format=jsonv2&jsoncbid=0	
102	www.bing.com/	http://www.bing.com/search?q=windows event logs&qs=n&form=QBRE&pq=windows event logs&sc=0-32&sp=-1&sk=&cvid=36b33ac5151246398f7dc1ca79de069c&sid=BE5E388F8757406CAA32E58334719A20&format=jsonv2&jsoncbid=6	
103	www.bing.com/	http://www.bing.com/news?q=health+news&FORM=NSBABR	
104	www.bing.com/	http://www.bing.com/news?q=science+technology+news&FORM=NSBABR	
105	www.bing.com/	http://www.bing.com/search?q=anti-forensic+tools&qs=n&form=QBLH&pq=anti-forensic+tools&sc=8-13&sp=-1&sk=&cvid=e799e715fa2244a5a7967675bdcca9d3	
106	www.bing.com/	http://www.bing.com/search?q=e-mail investigation&qs=n&form=QBRE&pq=e-mail investigation&sc=8-7&sp=-1&sk=&cvid=fe1c3738d8c7471284731724166959af&sid=BE5E388F8757406CAA32E58334719A20&format=jsonv2&jsoncbid=1	
107	www.bing.com/	http://www.bing.com/news?q=top+stories&FORM=NWRFSH	
108	www.bing.com/	http://www.bing.com/news?q=entertainment+news&FORM=NSBABR	
109	www.bing.com/	http://www.bing.com/search?q=cd burning method in windows&qs=n&form=QBRE&pq=cd burning method in windows&sc=0-0&sp=-1&sk=&cvid=acec9b1dcb8146c58258ad65c770d76e&sid=BE5E388F8757406CAA32E58334719A20&format=jsonv2&jsoncbid=8	




110	www.bing.com/	http://www.bing.com/search?q=cleaner&qsn=&form=QBRE&pq=cleaner&sc=8-8&sp=-1&sk=&cvid=d434736d4e514ad497f68734a6779104&sid=C7E8F3776E804120B57C623F21EF33C4&format=jsonv2&jsoncbid=1	
111	www.bing.com/	http://www.bing.com/search?q=file+sharing+and+tethering&qsn=&form=QBLH&pq=file+sharing+and+tethering&sc=0-18&sp=-1&sk=&cvid=171b77e4ffd54b2a92c4e97abf995fe1	
112	www.bing.com/	http://www.bing.com/news/search?q=Top Stories&FORM=NSBABR	
113	www.google.com/	https://www.google.com/search?hl=en&source=hp&q=internet+explorer+11&gbv=2&oq=internet+explorer+11&gs_l=heirloom-hp.3..0110.5163.7893.0.9562.20.13.0.7.7.0.156.1110.11j2.13.0.msedr..0...1ac.1.34.heirloom-hp..0.20.1250.5j7Xm44tv5w	
114	www.google.com/	http://www.google.com/url?url=http://windows.microsoft.com/en-us/internet-explorer/download-ie&rct=j&frm=1&q=&esrc=s&sa=U&ei=6ykQVZWLGbejsQT7goDACg&ved=0CB8QFjAA&usg=AFQjCNEwslz17kY-jTXbaWPcQDfBbVEi7A	
115	www.google.com/	http://www.google.com/url?url=http://windows.microsoft.com/en-us/internet-explorer/ie-11-worldwide-languages&rct=j&frm=1&q=&esrc=s&sa=U&ei=6ykQVZWLGbejsQT7goDACg&ved=0CCoQFjAB&usg=AFQjCNE7UKIWEBiWO2N96IFeo6ZywhRLfw	
116	www.google.com/	https://www.google.com/search?hl=en&source=hp&q=internet+explorer+11&gbv=2&oq=internet+explorer+11&gs_l=heirloom-hp.3..0110.5163.7893.0.9562.20.13.0.7.7.0.156.1110.11j2.13.0.msedr..0...1ac.1.34.heirloom-hp..0.20.1250.5j7Xm44tv5w	
117	www.google.com/	http://www.google.com/url?url=http://windows.microsoft.com/en-us/internet-explorer/download-ie&rct=j&frm=1&q=&esrc=s&sa=U&ei=6ykQVZWLGbejsQT7goDACg&ved=0CB8QFjAA&usg=AFQjCNEwslz17kY-jTXbaWPcQDfBbVEi7A	
118	www.google.com/	http://www.google.com/url?url=http://windows.microsoft.com/en-us/internet-explorer/ie-11-worldwide-languages&rct=j&frm=1&q=&esrc=s&sa=U&ei=6ykQVZWLGbejsQT7goDACg&ved=0CCoQFjAB&usg=AFQjCNE7UKIWEBiWO2N96IFeo6ZywhRLfw	
119	www.bing.com/	http://www.bing.com/news?q=science+technology+news&FORM=NWBTCB	
120	www.bing.com/	http://www.bing.com/news?q=Soccer+News&FORM=NSBABR	

121	www.bing.com/	http://www.bing.com/news?q=us+news&FORM=NSBABR	
122	www.bing.com/	http://www.bing.com/news?q=world+news&FORM=NSBABR	
123	www.bing.com/	http://www.bing.com/news?q=political+news&FORM=NSBABR	
124	www.bing.com/	http://www.bing.com/news/search?q=file+sharing+and+tethering&FORM=HDRSC6	
125	www.bing.com/	http://www.bing.com/search?q=Top+Stories&FORM=HDRSC1	
126	www.bing.com/	http://www.bing.com/news?q=top+stories&FORM=NSBABR	
127	www.bing.com/	http://www.bing.com/search?q=external device and forensics&qs=n&form=QBRE&pq=external device and forensics&sc=8-9&sp=-1&sk=&cvid=c30c4b1f36114b1c9bc683838c69823a	
128	www.bing.com/	http://www.bing.com/news?q=business+news&FORM=NSBABR	
129	www.bing.com/	http://www.bing.com/news?q=sports+news&FORM=NSBABR	
130	www.bing.com/	http://www.bing.com/news?q=local&FORM=NSBABR	
131	www.bing.com/	http://www.bing.com/news?q=health+news&FORM=NSBABR	
132	www.bing.com/	http://www.bing.com/news?q=science+technology+news&FORM=NSBABR	
133	www.bing.com/	http://www.bing.com/news?q=top+stories&FORM=NWRFSH	
134	www.bing.com/	http://www.bing.com/news?q=entertainment+news&FORM=NSBABR	
135	www.bing.com/	http://www.bing.com/search?q=file+sharing+and+tethering&qs=n&form=QBLH&pq=file+sharing+and+tethering&sc=0-18&sp=-1&sk=&cvid=171b77e4ffd54b2a92c4e97abf995fe1	
136	www.bing.com/	http://www.bing.com/news/search?q=Top Stories&FORM=NSBABR	
137	www.bing.com/	http://www.bing.com/search?q=anti-forensic+tools&qs=n&form=QBLH&pq=anti-forensic+tools&sc=8-13&sp=-1&sk=&cvid=e799e715fa2244a5a7967675bdcca9d3	

17) Email Application Used

Item Path Email Application Used

Comment Q15. What application was used for e-mail communication?

	Name
1	 cfreds_2015_data_leakage_pc
2	 D
3	 Users

4	informant
5	AppData
6	Roaming
7	Microsoft
8	Outlook
9	Outlook.srs
10	PB4S-Configuration-iaman.informant@ni
11	Outlook.xml

18) Email_Account used by Suspect

Item Path Email_Account used by Suspect

Comment Q16. What was the e-mail account used by the suspect?

	Name
1	iaman.informant@nist.gov.ost
2	Root - Public
3	IPM_SUBTREE
4	NON_IPM_SUBTREE
5	EFORMS REGISTRY
6	Organization Forms
7	Root - Mailbox
8	Common Views
9	Finder
10	Shortcuts
11	Views
12	IPM_SUBTREE
13	Deleted Items
14	RE: It's me
15	RE: Last request
16	RE: Watch out!
17	Done
18	Inbox
19	RE: Hello, Iaman
20	Good job, buddy.
21	RE: Good job, buddy.
22	Important request
23	Last request
24	Outbox
25	Sent Items
26	RE: Hello, Iaman
27	RE: Important request
28	Sync Issues
29	Conflicts
30	Server Failures
31	Local Failures
32	Synchronization Log:
33	Synchronization Log:
34	Synchronization Log:
35	RSS Feeds

36	Journal
37	Quick Step Settings
38	Junk Email
39	Working Set
40	Drafts
41	Contacts
42	Organizational Contacts
43	PeopleCentricConversation Buddies
44	{A9E2BC46-B3A0-4243-B315-60D99100
45	{06967759-274D-40B2-A3EB-D7F9E737
46	Recipient Cache
47	GAL Contacts
48	SmsAndChatsSync
49	Tasks
50	Calendar
51	Conversation Action Settings
52	Notes
53	~MAPISP(Internal)
54	Drizzle
55	Shared Data

Inbox Emails

Q17. List of all Inbox e-mails of the suspect

19) Root - Mailbox\IPM_SUBTREE\Inbox\Hello, Iaman

Comment

From spy </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=16DEB821A6D2423FB723680AE0D2B36A-SPY>
To iaman <iaman.informant@nist.gov>
Sent 03/23/15 12:29:27 PM
Received 03/23/15 12:29:29 PM
Subject Hello, Iaman

How are you doing?

20) Root - Mailbox\IPM_SUBTREE\Inbox\Good job, buddy.

Comment

From spy </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=16DEB821A6D2423FB723680AE0D2B36A-SPY>
To iaman <iaman.informant@nist.gov>
Sent 03/23/15 02:14:58 PM
Received 03/23/15 02:15:00 PM
Subject Good job, buddy.

Good, job.

I need a more detailed data about this business.

21) Root - Mailbox\IPM_SUBTREE\Inbox\RE: Good job, buddy.

Comment

From spy </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=16DEB821A6D2423FB723680AE0D2B36A-SPY>
To iaman <iaman.informant@nist.gov>
Sent 03/23/15 02:20:41 PM
Received 03/23/15 02:20:41 PM
Subject RE: Good job, buddy.

Okay, I got it.

I'll be in touch.

From: iaman
Sent: Monday, March 23, 2015 3:19 PM
To: spy
Subject: RE: Good job, buddy.

This is a sample.

From: spy
Sent: Monday, March 23, 2015 3:15 PM
To: iaman
Subject: Good job, buddy.

Good, job.
I need a more detailed data about this business.

22) Root - Mailbox\IPM_SUBTREE\Inbox\Important request

Comment

From spy </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=16DEB821A6D2423FB723680AE0D2B36A-SPY>
To iaman <iaman.informant@nist.gov>
Sent 03/23/15 02:26:22 PM
Received 03/23/15 02:26:23 PM
Subject Important request

I confirmed it.
But, I need a more data.
Do your best.

23) Root - Mailbox\IPM_SUBTREE\Inbox\Last request

Comment

From spy </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=16DEB821A6D2423FB723680AE0D2B36A-SPY>
To iaman <iaman.informant@nist.gov>
Sent 03/24/15 08:25:57 AM
Received 03/24/15 08:25:59 AM
Subject Last request

This is the last request.
I want to get the remaining data.

Sent Emails

Q17. List of all Sent e-mails of the suspect

24) Root - Mailbox\IPM_SUBTREE\Sent Items\RE: Hello, Iaman

Comment

From iaman </o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=25fb3fee58f74a5497f8807234114f65-iaman>
To spy <spy.conspirator@nist.gov>
Sent 03/23/15 01:44:31 PM
Received 03/23/15 01:44:00 PM
Subject RE: Hello, Iaman

Successfully secured.

From: spy
Sent: Monday, March 23, 2015 1:29 PM
To: Iaman
Subject: Hello, Iaman

How are you doing?

25) Root - Mailbox\IPM_SUBTREE\Sent Items\RE: Important request

Comment

From iaman </o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=25fb3fee58f74a5497f8807234114f65-iaman>
To spy <spy.conspirator@nist.gov>
Sent 03/23/15 02:27:05 PM
Received 03/23/15 02:27:00 PM
Subject RE: Important request

Umm..... I need time to think.

From: spy
Sent: Monday, March 23, 2015 3:26 PM
To: Iaman
Subject: Important request

I confirmed it.
But, I need a more data.
Do your best.

Deleted Emails

Q17. List of all Deleted e-mails of the suspect

26) Root - Mailbox\IPM_SUBTREE\Deleted Items\RE: It's me

Comment

From spy </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=16DEB821A6D2423FB723680AE0D2B36A-SPY>
To iaman <iaman.informant@nist.gov>
Sent 03/23/15 03:41:19 PM
Received 03/23/15 03:41:22 PM
Subject RE: It's me

I got it.

From: iaman
Sent: Monday, March 23, 2015 4:39 PM
To: spy
Subject: It's me

Use links below,

<https://drive.google.com/file/d/0Bz0ye6gXtiZaVI8yVU5mWHIGbWc/view?usp=sharing> [https://drive.google.com/file/d/0Bz0ye6gXtiZaVI8yVU5mWHIGbWc...]

<https://drive.google.com/file/d/0Bz0ye6gXtiZaakx6d3R3c0JmM1U/view?usp=sharing> [https://drive.google.com/file/d/0Bz0ye6gXtiZaakx6d3R3c0JmM1U...]

27) Root - Mailbox\IPM_SUBTREE\Deleted Items\RE: Last request

Comment

From iaman </o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=25fb3fee58f74a5497f8807234114f65-iaman>
To spy <spy.conspirator@nist.gov>
Sent 03/24/15 08:35:10 AM
Received 03/24/15 08:35:00 AM
Subject RE: Last request

This is the last time..

From: spy
Sent: Tuesday, March 24, 2015 9:34 AM
To: iaman
Subject: RE: Last request

No problem.
U can directly deliver storage devices that stored it.

From: iaman
Sent: Tuesday, March 24, 2015 9:30 AM
To: spy
Subject: RE: Last request

Stop it!
It is very hard to transfer all data over the internet!

From: spy
Sent: Tuesday, March 24, 2015 9:26 AM
To: iaman
Subject: Last request

This is the last request.
I want to get the remaining data.

28) Root - Mailbox\IPM_SUBTREE\Deleted Items\RE: Watch out!

Comment

From iaman </o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=25fb3fee58f74a5497f8807234114f65-iaman>

To spy <spy.conspirator@nist.gov>
Sent 03/24/15 02:34:02 PM
Received 03/24/15 02:34:00 PM
Subject RE: Watch out!

I am trying.

-----Original Message-----

From: spy
Sent: Tuesday, March 24, 2015 3:33 PM
To: iaman
Subject: Watch out!

USB device may be easily detected.

So, try another method.

29) Root - Mailbox\IPM_SUBTREE\Deleted Items\Done

Comment

From iaman </o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=25fb3fee58f74a5497f8807234114f65-iaman>
To spy <spy.conspirator@nist.gov>
Sent 03/24/15 04:05:09 PM
Received 03/24/15 04:05:00 PM
Subject Done

It's done. See you tomorrow.

30) External Devices

Item Path External Devices

Comment Q18. List external storage devices attached to PC.

	Target	Device	Vendor	Product
1	cfreds_2015_data_leakage_pc	SanDisk Cruzer Fit USB Device	SanDisk	Cruzer_Fit
2	cfreds_2015_data_leakage_pc	SanDisk Cruzer Fit USB Device	SanDisk	Cruzer_Fit

31) IP address of the Shared Network Drive

Item Path IP address of the Shared Network Drive

Comment Q19. What is the IP address of company's shared network drive?

	Target	Folder	User Name	Network Share
1	cfreds_2015_data_leakage_pc	\\10.11.11.128\secured_drive	informant	10.11.11.128

32) snapshot.db

Item Path cfreds_2015_data_leakage_pc\D\Users\informant\AppData\Local\Google\Drive\user_default\
snapshot.db
File Created 03/23/15 03:02:51 PM
Last Written 03/25/15 10:22:48 AM
Last Accessed 03/23/15 03:02:51 PM
MD5
Start Sector 5,476,079
Sector offset 390
File Offset 20,358
Length 122
Comment Q20. Find traces related to cloud services on PC. (Service name, log files...)
C:\Users\informant\Google Drive\happy_holiday.jpgG • \\\?C:\Users\informant\Google Drive
\do_u_wanna_build_a_snow_man.mp3

Recycle Bin Items

Q21. Examine 'Recycle Bin' data in PC.

33) S-1-5-21-2425377081-3129163575-2985601102-1000

Item Path cfreds_2015_data_leakage_pc\D\Recycle.Bin\S-1-5-21-2425377081-3129163575-2985601102-1000
File Created 03/22/15 09:34:46 AM
Last Written 03/25/15 10:14:45 AM
Last Accessed 03/25/15 10:14:45 AM
MD5 6045a65fb580c6e439d9f0d23a6a583a
Comment

34) S-1-5-21-2425377081-3129163575-2985601102-1001

Item Path cfreds_2015_data_leakage_pc\D\Recycle.Bin\S-1-5-21-2425377081-3129163575-2985601102-1001
File Created 03/22/15 10:53:47 AM
Last Written 03/22/15 10:53:47 AM
Last Accessed 03/22/15 10:53:47 AM
MD5 95e742ba3236f9b530935f13272f893e
Comment
















35) S-1-5-21-2425377081-3129163575-2985601102-1003

Item Path cfreds_2015_data_leakage_pc\D\Recycle.Bin\S-1-5-21-2425377081-3129163575-2985601102-1003
File Created 03/22/15 10:56:00 AM
Last Written 03/22/15 10:56:00 AM
Last Accessed 03/22/15 10:56:00 AM
MD5 d2c2512686c381c5e3be7628fe04810b
Comment

36) Unallocated Items RM#2

Item Path Unallocated Items RM#2

Comment Q22. Recover deleted files from USB drive 'RM#2'.

	Name	File Ext	Logical Size	Category
1	 cfreds_2015_data_leakage_rm#2		0	Folder
2	 C		0	Folder
3	 Recovered Folders		0	Folder
4	 Folder1		0	Folder
5	 design		0	Folder
6	 winter_storm.amr	amr	14,547,968	Document
7	 winter_whether_advisor	zip	16,381,123	Archive
8	 pricing decision		0	Folder
9	 my_favorite_cars.db	db	1,260,544	Document
10	 my_favorite_movies.7z	7z	100,078	Archive
11	 new_years_day.jpg	jpg	10,237,535	Archive
12	 super_bowl.avi	avi	10,289,152	Document
13	 progress		0	Folder
14	 my_friends.svg	svg	58,368	Document
15	 my_smartphone.png	png	4,440,235	Archive

16	new_year_calendar.one	one	27,414	Archive
17	proposal		0	Folder
18	a_gift_from_you.gif	gif	35,226,880	Archive
19	landscape.png	png	6,484,502	Archive
20	technical review		0	Folder
21	diary_#1d.txt	txt	121,441	Archive
22	diary_#1p.txt	txt	458,267	Archive
23	diary_#2d.txt	txt	658,922	Archive
24	diary_#2p.txt	txt	1,154,560	Document
25	diary_#3d.txt	txt	2,360,832	Document
26	diary_#3p.txt	txt	325,120	Document
27	Folder2		0	Folder
28	desktop.ini	ini	129	Windows
29	Folder3		0	Folder
30	amalfi.bmp	bmp	921,654	Picture
31	bamboo-clump-animated.gif	gif	6,717,692	Picture
32	barn.gif	gif	3,352,929	Picture
33	blini.gif	gif	2,125,114	Picture
34	boudicca.bmp	bmp	8,798,374	Picture
35	cactus.png	png	6,164,389	Picture
36	cave.png	png	8,182,655	Picture
37	cutty-sark.JPG	JPG	1,625,241	Picture
38	eggs.gif	gif	2,284,125	Picture
39	forsythia.png	png	8,107,995	Picture
40	injera.gif	gif	34,480	Picture
41	jack-o-lantern.tiff	tiff	7,545,856	Picture
42	jump.jpg	jpg	2,015,880	Picture
43	leaf.jpg	jpg	798,064	Picture
44	oak-snow.jpg	jpg	1,370,140	Picture
45	orchid.png	png	8,455,527	Picture
46	piazza-dei-miracoli.JPG	JPG	1,267,394	Picture
47	pisa.JPG	JPG	847,709	Picture
48	SPQR.JPG	JPG	897,275	Picture
49	stonehenge.JPG	JPG	1,236,401	Picture
50	tapas.gif	gif	2,242,264	Picture
51	tomatoes.gif	gif	2,240,548	Picture
52	wat.gif	gif	32,186	Picture

37) Unallocated Items RM#3

Item Path Unallocated Items RM#3

Comment Q23. Show the deleted files from the CD-R 'RM#3'.

	Name	File Ext	Logical Size	Category
1	cfreds_2015_data_leakage_rm#3		0	Folder
2	Session-1		6,144	Unknown
3	IAMAN CD (UDF)		0	Folder
4	UDF Volume Set		668	Unknown
5	design		0	Unknown







6	pricing decision		0	Unknown
7	progress		0	Unknown
8	proposal		0	Unknown
9	technical review		0	Unknown
10	de		0	Unknown
11	pd		0	Unknown
12	prog		0	Unknown
13	prop		0	Unknown
14	tr		0	Unknown

38) Deleted from Google Drive

Item Path Deleted from Google Drive

Comment Q24. What files were deleted from Google Drive? Find the filename and modified timestamp of the file.

	Name	File Ext	Logical Size	Last Written
1	cfreds_2015_data_leakage_pc		0	
2	D		12,288	
3	\$Recycle.Bin	Bin	4,096	03/22/15 10:56:00 AM
4	S-1-5-21-2425377081-3129163575-298560110		4,096	03/25/15 10:14:45 AM
5	S-1-5-21-2425377081-3129163575-298560110		152	03/22/15 10:53:47 AM
6	S-1-5-21-2425377081-3129163575-298560110		152	03/22/15 10:56:00 AM
7	Users		4,096	03/22/15 10:55:57 AM
8	informant		8,192	03/23/15 03:05:32 PM
9	AppData		344	03/23/15 03:27:52 PM
10	Local		4,096	03/25/15 10:29:37 AM
11	Google		456	03/23/15 03:02:45 PM
12	Drive		4,096	03/23/15 03:02:51 PM
13	user_default		4,096	03/25/15 10:22:48 AM
14	cloud_graph		152	03/25/15 10:22:47 AM
15	dict_2.db-wal	db-wal	0	03/25/15 10:21:36 AM
16	dict_2.db-shm	db-shm	32,768	03/25/15 10:21:36 AM
17	cacerts		3,245	03/25/15 10:21:34 AM
18	snapshot.db-wal	db-wal	33,568	03/25/15 10:22:48 AM

19	 snapshot.db-shm	db-shm	32,768	03/25/15 10:22:48 AM
20	 sync_config.db-wal	db-wal	4,224	03/25/15 10:22:48 AM
21	 sync_config.db-shm	db-shm	32,768	03/25/15 10:22:48 AM
22	 cacerts		3,245	03/23/15 03:02:51 PM
23	 snapshot.db	db	20,480	03/25/15 10:22:48 AM
24	 sync_config.db	db	11,264	03/25/15 10:22:48 AM