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Computer Hard Drive - Windows Analysis Test No. 19-5561/2 Summary Report

Participants were provided with data yielded from an extraction of a Windows 10 Computer Hard Drive. Additionally, participants in the 5562 test also received a physical USB drive. Examiners were asked to analyze the sample material and answer scenario based questions utilizing their own tools and methods. Data were returned from 33 participants, 15 of which also returned results associated with the physical USB. These results are compiled in the following tables:

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This report contains the data received from the participants in this test. Since these participants are located in many countries around the world, and it is their option how the samples are to be used (e.g., training exercise, known or blind proficiency testing, research and development of new techniques, etc.), the results compiled in the Summary Report are not intended to be an overview of the quality of work performed in the profession and cannot be interpreted as such. The Summary Comments are included for the benefit of participants to assist with maintaining or enhancing the quality of their results. These comments are not intended to reflect the general state of the art within the profession.

Manufacturer's Information

The Computer Hard Drive – Windows Analysis test consisted of evidence data acquired from a Windows 10 computer. The extracted data was provided in an E01 file format. Participants were asked to examine the extracted data as it relates to a simulated scenario utilizing their own software and methods.

All participants enrolled in the 19-5562: Computer Hard Drive – Windows & Removable Media Storage Analysis test received an additional component, a physical USB drive shipped in a sealed manila envelope. These participants were also asked to perform evidence acquisition, extraction, and analysis.

SAMPLE PREPARATION:

A scripted scenario, based upon a murder case was created to generate user data on a Windows Hard Drive. The execution of the scripted crime took place from January 7, 2019 to January 17, 2019. Multiple system and third party applications were used to perform activities and generate the intended artifacts. A USB device was used to add user activity on the computer and onto the removable media storage device provided to participants enrolled in 19-5562.

The data from the evidence hard drive was acquired through a physical extraction. The data was processed and analyzed using commercial and open source forensic tools. Following sample validation, the E01 files were compressed and uploaded to the CTS portal for participants to download. MD5 and SHA-1 algorithms were run on the compressed folder to generate unique hash values to allow participants to validate the successful download of the files.

The USB drive was duplicated using forensic hardware.

SAMPLE VALIDATION/VERIFICATION:

The validation stage consisted of the examination of the extracted data utilizing various software tools to ensure the expected results could be achieved. All the USB drives were validated by comparing the cryptographic hash functions.

PLEASE NOTE: Questions marked with asterisks (**) did not show a clear consensus during preliminary review of the participants responses. Further information and discussion will be available in the final report.

SCENARIO PROVIDED TO PARTICIPANTS

Police are investigating a case involving the murder of a 70-yr old female. The victim's daughter is the primary suspect in this investigation. Police have collected multiple pieces of evidence from the suspect's house. You are being tasked with analyzing a forensic image of a computer. Using your own tools and methodologies, analyze the files to determine if they have any relevance to the investigation.

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Manufacturer's Information, continued

Question Manufacturer's Expected Response

1 Provide the MD5 hash value of the decompressed imaged drive.

905D67240D48D52C4EA290E7E8885DE2

What operating system was installed on the device?

Windows 10 Education

3 When was the operating system installed? Provide the answer in the UTC + 00:00 using the following format: MM/DD/YYYY HH:MM:SS AM/PM.

01/11/2019 03:02:34 PM

When was the device last shut down? Provide the answer in the UTC + 00:00 using the following format: MM/DD/YYYY HH:MM:SS AM/PM.

01/17/2019 07:34:22 PM

5 Provide the user name of the two accounts created by the user. Do not include Guest Account and Default Account

Morgan Chen, Kids

6 What is the set time zone on the device?

(UTC-05:00) Eastern Time (US & Canada)

When did the primary user last login to their account? Provide the answer in the UTC + 00:00 using the following format: MM/DD/YYYY HH:MM:SS AM/PM.

01/17/2019 01:26:04 PM

8 How many times did the primary user log into this computer?

Seven (7)

9 Provide the password hint for Morgan Chen's account.

last

10 What is the assigned IP address of the subject computer?

192.168.189.132

11 How many files are in the Recycle Bin?

Two (2)

12 Provide the name of the most recently viewed document. (pdf, xls, docx, rtf)

Julie Chen - LastWill.docx

13 What feature of Windows records execution of programs (and their parameters) to speed up the application's start up process?

Prefetch

14 How many pages were bookmarked on Chrome?

Four (4)

Manufacturer's Information, continued

Question Manufacturer's Expected Response

15 Provide the last term searched using Google Chrome on this device?

probate process in new jersey

16 What email application was used to send and receive emails?

Thunderbird or Mozilla Thunderbird

17 What is the Gmail email address associated to the primary user on this device?

chenmorgan01@gmail.com

An email was sent to "Laurelmurray63@gmail.com" on 01/14/2019 at 01:19 PM. Provide the subject of that email.

Hey Girl

19 What is the primary user's physical (home) address? Provide the Building number, Street Name, City, and State

16925 Shaw Road, Trenton, New Jersey

 20^{**} When was "notepad.exe" last executed? Provide the answer in the UTC + 00:00 using the following format:

MM/DD/YYYY HH:MM:SS AM/PM.

01/14/2019 08:15:39 PM

21 How many times was "mspaint.exe" executed?

Seven (7)

Was the Skype Application executed on this computer?

Yes

23 What type (CD, USB, SD Card, Optical drive) of device was last mounted as E: drive?

USB

24 How many USB devices were mounted to this computer?

Two (2)

25** Provide the serial number associated with USB named "Give Away 2018".

0DCDD820

26** Provide the last write time for device named "Give Away 2018". Provide the answer in the UTC + 00:00 using

the following format: MM/DD/YYYY HH:MM:SS AM/PM.

01/14/2019 08:09:45 PM

27 What drive letter was assigned to the last mounted USB drive?

E:

28 What is the install date and time of the last mounted device? Provide the answer in the UTC + 00:00 using the

following format: MM/DD/YYYY HH:MM:SS AM/PM.

01/15/2019 03:02:54 PM

Manufacturer's Information, continued

Question Manufacturer's Expected Response

29** Provide the manufacturer's name of the last mounted device.

Alcor Micro Corp.

30 What is the MD5 of the imaged drive?

303ef526fce62837655577dedc17b376

31 What file system(s) is utilized on this drive?

FAT16

32** What is the vendor ID?

058f

33** What is the product ID?

6387

34 How many JPG images were stored in the "Family Pictures" folder?

Eight (8)

35 Were the images found in the "Family Pictures" folder accessed using the computer hard drive? Yes/No

Yes

36 Provide the volume label of the device.

Recipe's

37** When was the file "Julie Chen - LastWill.docx" last modified? Provide the answer in the UTC + 00:00 using the

following format: MM/DD/YYYY HH:MM:SS AM/PM.

01/11/2019 08:58:00 PM

38 <u>Based on your investigation, does this device have any connection with the computer hard drive evidence?</u>

Yes/No Yes

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Summary Comments

The purpose of this Computer Hard Drive – Windows Analysis Test is to allow participants to evaluate their proficiency in analyzing digital artifacts using their own tools and methods. The participants were provided with a scripted scenario, the data extracted from a Windows 10 computer in E01 file format, and a series of questions related to the extracted data. Additionally, participants enrolled in the 19-5562: Computer Hard Drive – Windows & Removable Media Storage Analysis test also received a physical USB drive. These participants were also asked to perform evidence acquisition, extraction, and analysis. (See Manufacturer's Information for preparation details, test scenario, and test questions)

The participants were requested to analyze various digital artifacts including: image details, settings, external media, native and third-party applications, communications, and web browser history.

A total 33 participants returned results for the 5561 Computer Hard Drive - Windows Analysis test. Of the 29 total questions, four questions did not reach a consensus response. These four questions were found in the following two skill sets: Applications and External Media.

Of the participants enrolled in the 5592 Removable Media Storage Analysis test, 15 returned results. Three of the eight questions did not reach a consensus response.

Notably, a portion of inconsistent responses across the collection of questions may have been due to typographical errors and others were due to not answering the question in the requested format.

We realize that the Digital Forensics field is increasing in complexity and there are generally not many clearly-defined answers. Similarly, for this test, participants should follow their laboratory's policies and procedures when evaluating the proficiency test questions.

Digital Evidence Responses

TABLE 1

Question: 1 Category: Authentication

Question 1: Provide the MD5 hash value of the decompressed imaged drive.

Manufacturer's Expected Response: 905D67240D48D52C4EA290E7E8885DE2

| | Response |
|-----------------|---|
| | |
| 32LYBW- 5562 | 905D67240D48D52C4EA290E7E8885DE2 |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | 905d67240d48d52c4ea290e7e8885de2 |
| 682GJP- 5562 | 905d67240d48d52c4ea290e7e8885de2 |
| 6Z4RZY- 5561 | 905d67240d48d52c4ea290e7e8885de2 |
| 9LB7BM- 5562 | 905d67240d48d52c4ea290e7e8885de2 |
| AP6K9W- 5562 | 905d67240d48d52c4ea290e7e8885de2 |
| C97GKM- 5561 | 905D67240D48D52C4EA290E7E8885DE2 |
| CMBD4P- 5561 | 905d67240d48d52c4ea290e7e8885de2 |
| CPHTCG- 5561 | 905D67240D48D52C4EA290E7E8885DE2 |
| D9NRUF- 5562 | 905D67240D48D52C4EA290E7E8885DE2 |
| EP84ZE- 5562 | 905D67240D48D52C4EA290E7E8885DE2 |
| H6CDEC- 5561 | 363e8d4aa10ddd172c958ae0fc5c4bfc |
| J3ZUA9- 5561 | 905d67240d48d52c4ea290e7e8885de2 |
| JLWJ4G- 5562 | 905D67240D48D52C4EA290E7E8885DE2 |
| K3E3B9- 5561 | 905d67240d48d52c4ea290e7e8885de2 |
| L6WGE9- 5561 | 905d67240d48d52c4ea290e7e8885de2 |
| MUUH6E- 5561 | 905d67240d48d52c4ea290e7e8885de2 |
| NBXF34- 5561 | 905d67240d48d52c4ea290e78885de2 |
| NFT79E- 5562 | MD5 : 905D67240D48D52C4EA290E7E8885DE2 |
| NMCAFG- 5561 | 905d67240d48d52c4ea290e7e8885de2 |
| Q2K3Y6- 5562 | 905d67240d48d52c4ea290e7e8885de2 |
| QL9NG8- 5561 | 905D67240D48D52C4EA290E7E8885DE2 |
| QVYAM6- 5562 | 905d67240d48d52c4ea290e7e8885de2 |

| Question | : 1 Category: Authentication |
|-----------------|---|
| WebCode | Response |
| RTPJX2- 5561 | 905d67240d48d52c4ea290e7e8885de2 |
| V292YY- 5561 | 905d6720d48d52c4ea290e7e8885de2 |
| WJ4UKW- 5561 | MD5 - 905d67240d48d52c4ea290e7e8885de2. SHA1 - d9fbf16baed4150d3312d9b8137782b065094e41 |
| X4PZAY- 5562 | 905d67240d48d52c4ea290e7e8885de2 |
| XDC2Q9- 5561 | 905d67240d48d52c4ea290e7e8885de2 |
| XE36GV- 5561 | 905d67240d48d52c4ea290e7e8885de2 |
| YN48YX- 5562 | 905d67240d48d52c4ea290e7e8885de2 |
| YUVEG7- 5561 | 905d67240d48d52c4ea290e7e8885de2 |
| ZMBJCV- 5562 | 905d67240d48d52c4ea290e7e8885de2 |

Question 1: Provide the MD5 hash value of the decompressed imaged drive.

Consensus Result: 905D67240D48D52C4EA290E7E8885DE2

<u>Expected Response Explanation</u>:
This hash value can be calculated using a forensic tool.

Screen Shot: MD5 Hash Value:

| Evi | dence Type | Forensic Disk Image |
|-----|------------------------|--|
| Dis | k | |
| | Verification Hashes | |
| | MD5 verification hash | 905d67240d48d52c4ea290e7e8885de2 |
| | SHA1 verification hash | d9fbf16baed4150d3312d9b8137782b065094e41 |
| | Drive Geometry | |
| | Bytes per Sector | 512 |
| | Sector Count | 41,943,040 |
| | lmage | |
| | Image Type | E01 |
| | Case number | |
| | Evidence number | 19-5561 |

Question: 2 Category: System

Question 2: What operating system was installed on the device?

<u>Manufacturer's Expected Response</u>: Windows 10 Education

| | ers Expecied Response: Willdows 10 Education |
|-----------------|--|
| WebCode | Response |
| 32LYBW- 5562 | Windows 10 Education |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | Windows 10 Education |
| 682GJP- 5562 | Windows 10 Education |
| 6Z4RZY- 5561 | Windows 10 Education, version 6.3 |
| 9LB7BM- 5562 | Windows 10 Education |
| AP6K9W- 5562 | Windows 10 Education V6.3 |
| C97GKM- 5561 | Windows 10 Education |
| CMBD4P- 5561 | Windows 10 Education |
| CPHTCG- 5561 | Windows 10 Education |
| D9NRUF- 5562 | Windows 10 Education |
| EP84ZE- 5562 | Windows 10 Education |
| H6CDEC- 5561 | Windows 10 Education |
| J3ZUA9- 5561 | Windows 10 Education |
| JLWJ4G- 5562 | Windows 10 Education 10.0.15063 N/A Build 15063 |
| K3E3B9- 5561 | Windows 10 Education 6.3 compilación 15063. ("Windows\System32\config\SOFTWARE") |
| L6WGE9- 5561 | Windows 10 Education |
| MUUH6E- 5561 | Windows 10 Education |
| NBXF34- 5561 | Windows 10 Education |
| NFT79E- 5562 | Windows 10 Education |
| NMCAFG- 5561 | Windows 10 Education |
| Q2K3Y6- 5562 | Windows 10 Education |
| QL9NG8- 5561 | Windows 10 Education |
| QVYAM6- 5562 | Windows 10 Education |
| RTPJX2- 5561 | Windows 10 Education |

| Question | : 2 Category: System |
|-----------------|--|
| WebCode | Response |
| V292YY- 5561 | Windows 10 Education version 6.3 build 15063 |
| WJ4UKW- 5561 | Windows 10 Education |
| X4PZAY- 5562 | Windows 10 Education |
| XDC2Q9- 5561 | Windows 10 Education |
| XE36GV- 5561 | Windows 10 Educational, Build 15603 |
| YN48YX- 5562 | Windows 10 Education |
| YUVEG7- 5561 | Windows 10 Education |
| ZMBJCV- 5562 | Windows 10 Education build 15063 |

Question 2: What operating system was installed on the device?

Consensus Result: Windows 10 Education

Expected Response Explanation:

Information regarding the operating system installed on this device is found in the Software registry hive at the following location: C:\Windows\system32\config\SOFTWARE: \Microsoft\Windows NT\CurrentVersion

Screen Shot: OS Version:

```
winver v.20081210
(Software) Get Windows version

ProductName = Windows 10 Education
InstallDate = Fri Jan 11 15:02:34 2019
```

Question: 3 Category: System

Question 3: When was the operating system installed? Provide the answer in the UTC \pm 00:00 using the following format: MM/DD/YYYY HH:MM:SS AM/PM.

Manufacturer's Expected Response: 01/11/2019 03:02:34 PM

| WebCode | Response |
|-----------------|---|
| 32LYBW- 5562 | 1/11/2019 3:02:34 PM |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | 01/11/2019 03:02:34 PM |
| 682GJP- 5562 | 01/11/2019 03:02:34 PM |
| 6Z4RZY- 5561 | 01/11/2019 03:02:34 PM |
| 9LB7BM- 5562 | 01/11/2019 03:02:34 PM |
| AP6K9W- 5562 | 01/11/2019 15:02:34 +1:00 |
| C97GKM- 5561 | 01/11/2019 03:02:34 PM |
| CMBD4P- 5561 | 11/01/2019 03:02:34 PM |
| CPHTCG- 5561 | 01/11/2019 03:02:34 PM |
| D9NRUF- 5562 | 01/11/2019 03:02:34 PM |
| EP84ZE- 5562 | 01/11/2019 15:02:34 UTC |
| H6CDEC- 5561 | 1/11/2019 15:02:34 |
| J3ZUA9- 5561 | 01/11/2019 03:02:34 PM |
| JLWJ4G- 5562 | 01/11/2019 03:02:34 PM |
| K3E3B9- 5561 | 01/11/2019 03:02:34 PM ("Windows\System32\config\SOFTWARE") |
| L6WGE9- 5561 | 01/11/2019 03:02:34 PM |
| MUUH6E- 5561 | 01/11/2019 03:02:34 PM |
| NBXF34- 5561 | 01/11/2019 03:02:34 PM |
| NFT79E- 5562 | 01/11/2019 15:02:34 PM |
| NMCAFG- 5561 | 01/11/2019 03:02:34 PM |
| Q2K3Y6- 5562 | 01/11/2019 10:02:34 AM |
| QL9NG8- 5561 | 01/11/2019 03:02:34 PM |
| QVYAM6- 5562 | 01/11/2019 15:02:34 |
| RTPJX2- 5561 | 01/11/2019 03:02:34 PM |

| Question | :3 | Category: System |
|-----------------|----------------------------|------------------|
| WebCode | Response | |
| V292YY- 5561 | 01/11/2019 03:02:34 PM UTC | |
| WJ4UKW- 5561 | 01/11/2019 15:02:34 PM UTC | |
| X4PZAY- 5562 | 01/11/2019 3:02:34 PM | |
| XDC2Q9- 5561 | 01/11/2019 03:02:34 PM | |
| XE36GV- 5561 | 01/11/2019 3:02:34 PM | |
| YN48YX- 5562 | 1/11/2019 3:02:34 PM | |
| YUVEG7- 5561 | 01/11/2019 03:02:34 PM. | |
| ZMBJCV- 5562 | 01/12/2019 01:02:34 AM | |

Question 3: When was the operating system installed? Provide the answer in the UTC + 00:00 using the following format: MM/DD/YYYY HH:MM:SS AM/PM.

Consensus Result: 01/11/2019 03:02:34 PM

Expected Response Explanation:

Information regarding when the operating system was installed on this device is found in the Software registry hive at the following location: C:\Windows\system32\config\SOFTWARE: \Microsoft\Windows NT\CurrentVersion

Screen Shot: OS Install Date:

winver v.20081210
(Software) Get Windows version

ProductName = Windows 10 Education
InstallDate = Fri Jan 11 15:02:34 2019

Question: 4 Category: System

Question 4: When was the device last shut down? Provide the answer in the UTC \pm 00:00 using the following format: MM/DD/YYYY HH:MM:SS AM/PM.

Manufacturer's Expected Response: 01/17/2019 07:34:22 PM

| WebCode | Response |
|-----------------|---|
| 32LYBW- 5562 | 1/17/2019 7:34:22 PM |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | 01/17/2019 07:34:22 PM |
| 682GJP- 5562 | 01/17/2019 07:34:22 PM |
| 6Z4RZY- 5561 | 01/17/2019 07:34:22 PM |
| 9LB7BM- 5562 | 01/17/2019 07:34:22 PM |
| AP6K9W- 5562 | 01/17/2019 19:34:22 +1:00 |
| C97GKM- 5561 | 01/17/2019 07:34:22 PM |
| CMBD4P- 5561 | 01/17/2019 07:34:22 PM |
| CPHTCG- 5561 | 01/17/2019 07:34:22 PM |
| D9NRUF- 5562 | 01/17/2019 07:34:22 PM |
| EP84ZE- 5562 | 01/17/2019 19:34:22 UTC |
| H6CDEC- 5561 | 1/17/2019 19:34:22 |
| J3ZUA9- 5561 | 01/17/2019 07:34:22 PM |
| JLWJ4G- 5562 | 01/17/2019 07:34:22 PM |
| K3E3B9- 5561 | 01/17/2019 07:34:22 PM ("Windows\System32\config\SOFTWARE") |
| L6WGE9- 5561 | 01/17/2019 07:34:22 PM |
| MUUH6E- 5561 | 01/17/2019 07:34:22 PM |
| NBXF34- 5561 | 01/17/2019 07:34:22 PM |
| NFT79E- 5562 | 01/18/2019 01:30:22 |
| NMCAFG- 5561 | 01/17/2019 07:34:22 PM |
| Q2K3Y6- 5562 | 01/17/2019 02:34:22 PM |
| QL9NG8- 5561 | 01/17/2019 07:34:22 PM |
| QVYAM6- 5562 | 01/17/2019 19:34:22 |
| RTPJX2- 5561 | 01/17/2019 07:34:22 PM |

| Question | : 4 | Category: System |
|-----------------|----------------------------|------------------|
| WebCode | Response | |
| V292YY- 5561 | 01/17/2019 07:34:22 PM UTC | |
| WJ4UKW- 5561 | 01/17/2019 19:34:22 PM UTC | |
| X4PZAY- 5562 | 1/17/2019 7:34:22 PM | |
| XDC2Q9- 5561 | 01/17/2019 07:34:22 PM | |
| XE36GV- 5561 | 01/17/2019 7:34:22 PM | |
| YN48YX- 5562 | 1/17/2019 7:34:22 PM | |
| YUVEG7- 5561 | 01/17/2019 07:34:22 PM. | |
| ZMBJCV- 5562 | 01/18/2019 05:34:22 AM | |

Question 4: When was the device last shut down? Provide the answer in the UTC + 00:00 using the following format: MM/DD/YYYY HH:MM:SS AM/PM.

Consensus Result: 01/17/2019 07:34:22 PM

Expected Response Explanation:

Information regarding the last shutdown date and time can be sourced from the Software registry hive at the following location: CurrentControlSet\Control\Windows Shutdown time

<u>Screen Shot</u>: Device Shutdown Date/Time:

| Name | Value Text | |
|----------------|-------------------------------|--|
| i Product Name | Windows 10 Education | |
| Shutdown Time | Thu, 17 Jan 2019 19:34:22 GMT | |

Question: 5 Category: System

Question 5: Provide the user name of the two accounts created by the user. Do not include Guest Account and Default Account

Manufacturer's Expected Response: Morgan Chen, Kids

| | Response |
|-----------------|---|
| | |
| 32LYBW- 5562 | Morgan Chen Kids |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | Morgan Chen Kids |
| 682GJP- 5562 | Kids, Morgan Chen |
| 6Z4RZY- 5561 | Morgan , Kids |
| 9LB7BM- 5562 | Kids, Morgan Chen |
| AP6K9W- 5562 | Kids Morgan Chen |
| C97GKM- 5561 | Morgan Chen Kids |
| CMBD4P- 5561 | Morgan Chen Kids |
| CPHTCG- 5561 | Kids and Morgan Chen |
| D9NRUF- 5562 | Morgan Chen Kids |
| EP84ZE- 5562 | Morgan Chen, Kids |
| H6CDEC- 5561 | Kids, Morgan Chen |
| J3ZUA9- 5561 | Kids Morgan Chen |
| JLWJ4G- 5562 | Morgan Chen, Kids |
| K3E3B9- 5561 | Morgan Chen y Kids. ("Windows\System32\config\SAM") |
| L6WGE9- 5561 | Kids Morgan Chen |
| MUUH6E- 5561 | Kids, Morgan Chen |
| NBXF34- 5561 | Kids Morgan Chen |
| NFT79E- 5562 | "Kids" & "Morgan Chen" |
| NMCAFG- 5561 | Morgan Chen Kids |
| Q2K3Y6- 5562 | 1) Morgan Chen; 2) Kids |
| QL9NG8- 5561 | Kids, Morgan Chen |
| QVYAM6- 5562 | Morgan Chen and Kids |
| RTPJX2- 5561 | Morgan Chen, Kids |

| Question | : 5 Category: System |
|-----------------|--|
| WebCode | Response |
| V292YY- 5561 | Morgan Chen (RID 1000) Kids (RID 1001) |
| WJ4UKW- 5561 | Morgan Chen, Kids |
| X4PZAY- 5562 | Morgan Chen Kids |
| XDC2Q9- 5561 | Kids Morgan Chen |
| XE36GV- 5561 | Morgan Chen Kids |
| YN48YX- 5562 | Morgan Chen Kids |
| YUVEG7- 5561 | Kids, Morgan Chen |
| ZMBJCV- 5562 | "Morgan Chen", "Kids" |

Question 5: Provide the user name of the two accounts created by the user. Do not include Guest Account and Default Account

Consensus Result: Morgan Chen, Kids Expected Response Explanation:

Information regarding the user names of the accounts created by the user can be sourced from the Security Accounts Manager (SAM) registry hive at \Windows\System32\Config\.

Screen Shot: User Accounts:

| | Name | User Name | Comment | Profile Path |
|-----|--------------------|----------------|------------------------|---------------------|
| 1 | (ii) Administrator | Administrator | Built-in account for a | |
| 2 | DefaultAccount | DefaultAccount | A user account manag | |
| 3 | ☐ Guest | Guest | Built-in account for g | |
| 4 | Kids | Kids | | C:\Users\Kids |
| □ 5 | Morgan Chen | Morgan Chen | | C:\Users\Morgan Che |
| □ 6 | ≘ S-1-5-18 | systemprofile | | %systemroot%\syste |
| 7 | □ S-1-5-19 | LocalService | | C:\Windows\ServiceF |
| □ 8 | ≘ S-1-5-20 | NetworkService | | C:\Windows\ServiceP |

Question: 6 Category: System

Question 6: What is the set time zone on the device?

Manufacturer's Expected Response: (UTC-05:00) Eastern Time (US & Canada)

| | ers Expecied Response: (01C-03:00) Easiem Time (03 & Canada) |
|-----------------|--|
| WebCode | Response |
| 32LYBW- 5562 | Eastern Standard Time |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | Eastern Standard Time (UTC + 05:00) |
| 682GJP- 5562 | Eastern Standard Time |
| 6Z4RZY- 5561 | (UTC-05:00) Eastern Time (US & Canada) |
| 9LB7BM- 5562 | Eastern Standard Time |
| AP6K9W- 5562 | Eastern Standard Time |
| C97GKM- 5561 | Eastern Standard Time |
| CMBD4P- 5561 | Eastern Standart Time |
| CPHTCG- 5561 | Eastern Standard Time (UTC -05) |
| D9NRUF- 5562 | Eastern Standard Time (UTC -5) |
| EP84ZE- 5562 | Eastern Standard Time |
| H6CDEC- 5561 | Eastern Standard |
| J3ZUA9- 5561 | Eastern Standard Time |
| JLWJ4G- 5562 | (UTC-05:00) Eastern Time (US & Canada) |
| K3E3B9- 5561 | Eastern Daylight Time. (Current Desviation -300 minutes, "Windows\System32\config\SYSTEM") |
| L6WGE9- 5561 | Eastern Standard Time |
| MUUH6E- 5561 | Eastern Standard Time |
| NBXF34- 5561 | Eastern Standard Time |
| NFT79E- 5562 | Eastern Standard Time . |
| NMCAFG- 5561 | (UTC-05:00) Eastern Time (US & Canada) |
| Q2K3Y6- 5562 | Eastern Standard Time |
| QL9NG8- 5561 | (UTC-05:00) Eastern Time (US & Canada) |
| QVYAM6- 5562 | Eastern Standard Time. |
| RTPJX2- 5561 | Eastern Standard Time |

| Question | : 6 Category: System |
|-----------------|--|
| WebCode | Response |
| V292YY- 5561 | Eastern Time (-5 UTC) Daylight Savings was enabled, but not currently active |
| WJ4UKW- 5561 | Eastern Standard Time |
| X4PZAY- 5562 | Eastern Standard Time |
| XDC2Q9- 5561 | Eastern Standard Time |
| XE36GV- 5561 | Eastern Standard Time |
| YN48YX- 5562 | Eastern Standard Time |
| YUVEG7- 5561 | Eastern Standard Time |
| ZMBJCV- 5562 | Eastern Standard Time |

Question 6: What is the set time zone on the device?

Consensus Result: (UTC-05:00) Eastern Time (US & Canada)

Expected Response Explanation:

Information regarding the time zone set on the device can be sourced from the System registry hive at the following

 $Control Set 001 \\ \ Control \\ \ Time Zone Information$

Screen Shot: Time Zone of Device:

| | Name | Last Written | Value Text |
|-----|--------------------------------------|----------------------|--|
| 1 | 🖺 Standard Time Bias | 01/11/19 01:01:59 PM | 0 |
| □ 2 | Standard Time | 01/11/19 01:01:59 PM | Eastern Standard Time |
| 3 | 🖹 Standard Time is set to change on | 01/11/19 01:01:59 PM | Month: 11 - Sunday: 1 - Time: 02:00 |
| □ 4 | Daylight Time Bias | 01/11/19 01:01:59 PM | +1 |
| 5 | Daylight Savings | 01/11/19 01:01:59 PM | Eastern Daylight Time |
| □ 6 | Daylight Savings is set to change on | 01/11/19 01:01:59 PM | Month: 3 - Sunday: 2 - Time: 02:00 |
| □ 7 | Active Time Bias offset from GMT | 01/11/19 01:01:59 PM | -5 |
| □ 8 | Current Time offset from GMT | 01/11/19 01:01:59 PM | -5 |
| 9 | □ Display | | (UTC-05:00) Eastern Time (US & Canada) |

Question: 7 Category: System

Question 7: When did the primary user last login to their account? Provide the answer in the UTC \pm 00:00 using the following format: MM/DD/YYYY HH:MM:SS AM/PM.

Manufacturer's Expected Response: 01/17/2019 01:26:04 PM

| WebCode | Response |
|-----------------|---|
| 32LYBW- 5562 | 10/17/2019 1:26:04 PM |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | 01/17/2019 01:26:04 PM |
| 682GJP- 5562 | 01/17/2019 01:26:04 PM |
| 6Z4RZY- 5561 | 01/17/2019 01:26:04 PM |
| 9LB7BM- 5562 | 01/17/2019 01:26:04 PM |
| AP6K9W- 5562 | 01/17/2019 13:26:04 +1:00 |
| C97GKM- 5561 | 01/17/2019 01:26:04 PM |
| CMBD4P- 5561 | 01/17/2019 01:26:04 PM |
| CPHTCG- 5561 | 01/17/2019 01:26:04 PM |
| D9NRUF- 5562 | 01/17/2019 01:26:04 PM |
| EP84ZE- 5562 | 01/17/2019 13:26:04 UTC |
| H6CDEC- 5561 | 01/17/19 13:26:04 |
| J3ZUA9- 5561 | 01/17/2019 01:26:04 PM |
| JLWJ4G- 5562 | 01/17/2019 01:26:04 PM |
| K3E3B9- 5561 | 01/17/2019 01:26:04. PM ("Windows\System32\config\SAM") |
| L6WGE9- 5561 | 01/17/2019 01:26:04 PM |
| MUUH6E- 5561 | 01/17/2019 01:26:04 PM |
| NBXF34- 5561 | 01/17/2019 01:26:04 PM |
| NFT79E- 5562 | 01/17/2019 13:26:04 PM |
| NMCAFG- 5561 | 01/17/2019 01:26:04 PM |
| Q2K3Y6- 5562 | 01/17/2019 08:26:04 AM |
| QL9NG8- 5561 | 01/17/2019 01:26:04 PM |
| QVYAM6- 5562 | 1/17/2019 13:26:04 PM |
| RTPJX2- 5561 | 01/17/2019 1:26:04 PM |

| Question | : 7 | Category: System |
|-----------------|----------------------------|------------------|
| WebCode | Response | |
| V292YY- 5561 | 01/17/2019 01:26:04 PM UTC | |
| WJ4UKW- 5561 | 01/17/2019 13:26:04 PM UTC | |
| X4PZAY- 5562 | 01/17/2019 1:26:04 PM | |
| XDC2Q9- 5561 | 01/17/2019 01:26:04 PM | |
| XE36GV- 5561 | 01/17/2019 1:26:04 PM | |
| YN48YX- 5562 | 1/17/2019 1:26:04 PM | |
| YUVEG7- 5561 | 01/17/19 01:26:04 PM. | |
| ZMBJCV- 5562 | 01/17/2019 11:26:04 PM | |

Question 7: When did the primary user last login to their account? Provide the answer in the UTC + 00:00 using the following format: MM/DD/YYYY HH:MM:SS AM/PM.

Consensus Result: 01/17/2019 01:26:04 PM

Expected Response Explanation:

Information regarding the primary user's last login date/time can be sourced from the Security Accounts Manager (SAM) registry hive.

Screen Shot: User File:

| Username Full Name User Comment | : :: | Morg | gan (| her | n [1000] | | |
|---|-------|------|-------|-----|----------|------|---|
| Account Type Account Created Name | : : : | Fri | Jan | 11 | 15:01:59 | 2019 | Z |
| Password Hint | : | last | | | | | |
| Last Login Date | : | Thu | Jan | 17 | 13:26:04 | 2019 | Z |
| Pwd Reset Date | : | Fri | Jan | 11 | 15:25:05 | 2019 | Z |
| Pwd Fail Date | : | Fri | Jan | 11 | 20:30:15 | 2019 | Z |
| Login Count | : | 7 | | | | | |

Question: 8 Category: System

Question 8: How many times did the primary user log into this computer?

Manufacturer's Expected Response: Seven (7)

| | Response |
|-----------------|---|
| | |
| 32LYBW- 5562 | 7 |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | Seven (07) times |
| 682GJP- 5562 | 7 |
| 6Z4RZY- 5561 | 7 |
| 9LB7BM- 5562 | 7 |
| AP6K9W- 5562 | 7 |
| C97GKM- 5561 | 7 |
| CMBD4P- 5561 | 7 |
| CPHTCG- 5561 | 7 |
| D9NRUF- 5562 | 7 |
| EP84ZE- 5562 | 7 |
| H6CDEC- 5561 | 7 |
| J3ZUA9- 5561 | 7 |
| JLWJ4G- 5562 | 7 |
| K3E3B9- 5561 | 7 times ("Windows\System32\config\SAM"). |
| L6WGE9- 5561 | 7 |
| MUUH6E- 5561 | 7 |
| NBXF34- 5561 | 7 |
| NFT79E- 5562 | 7 |
| NMCAFG- 5561 | Seven (7) |
| Q2K3Y6- 5562 | 7 |
| QL9NG8- 5561 | 6 |
| QVYAM6- 5562 | 7 |
| RTPJX2- 5561 | 7 |

| Question | n: 8 Cat | egory: System |
|-----------------|----------|---------------|
| WebCode | Response | |
| V292YY- 5561 | 7 | |
| WJ4UKW- 5561 | 7 | |
| X4PZAY- 5562 | 7 | |
| XDC2Q9- 5561 | 7 | |
| XE36GV- 5561 | Seven | |
| YN48YX- 5562 | 7 | |
| YUVEG7- 5561 | 7 Times | |
| ZMBJCV- 5562 | 7 | |

Question 8: How many times did the primary user log into this computer?

Consensus Result: Seven (7) **Expected Response Explanation:**

Information regarding the number of times the primary user has logged onto this computer can be sourced from the Security Accounts Manager (SAM) registry hive.

Screen Shot: User File:

| Username | : | More | an c | cher | n [1000] | | |
|-----------------|---|------|------|------|---|------|---|
| Full Name | : | | | | A THE DESIGNATION OF THE PARTY | | |
| User Comment | : | | | | | | |
| Account Type | : | | | | | | |
| Account Created | : | Fri | Jan | 11 | 15:01:59 | 2019 | Z |
| Name | : | | | | | | |
| Password Hint | | last | | | | | |
| Last Login Date | : | Thu | Jan | 17 | 13:26:04 | 2019 | Z |
| Pwd Reset Date | : | Fri | Jan | 11 | 15:25:05 | 2019 | Z |
| Pwd Fail Date | : | Fri | Jan | 11 | 20:30:15 | 2019 | Z |
| Login Count | : | 7 | | | | | |

Question: 9 Category: System

Question 9: Provide the password hint for Morgan Chen's account.

Manufacturer's Expected Response: last

| | Response |
|-----------------|---|
| | |
| 32LYBW- 5562 | last |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | last |
| 682GJP- 5562 | last |
| 6Z4RZY- 5561 | last |
| 9LB7BM- 5562 | last |
| AP6K9W- 5562 | Last |
| C97GKM- 5561 | last |
| CMBD4P- 5561 | last |
| CPHTCG- 5561 | last |
| D9NRUF- 5562 | Last |
| EP84ZE- 5562 | last |
| H6CDEC- 5561 | last |
| J3ZUA9- 5561 | last |
| JLWJ4G- 5562 | last |
| K3E3B9- 5561 | last ("Windows\System32\config\SAM") |
| L6WGE9- 5561 | last |
| MUUH6E- 5561 | last |
| NBXF34- 5561 | last |
| NFT79E- 5562 | " Last " |
| NMCAFG- 5561 | last |
| Q2K3Y6- 5562 | last |
| QL9NG8- 5561 | last |
| QVYAM6- 5562 | last |
| RTPJX2- 5561 | last |

| Question | n: 9 | Category: System |
|-----------------|----------|------------------|
| WebCode | Response | |
| V292YY- 5561 | last | |
| WJ4UKW- 5561 | last | |
| X4PZAY- 5562 | last | |
| XDC2Q9- 5561 | last | |
| XE36GV- 5561 | last | |
| YN48YX- 5562 | last | |
| YUVEG7- 5561 | last | |
| ZMBJCV- 5562 | "last" | |

Question 9: Provide the password hint for Morgan Chen's account.

Consensus Result: last

<u>Expected Response Explanation</u>: Information regarding the password hint for Morgan Chen's account can be sourced from the Security Accounts Manager (SAM) registry hive.

Screen Shot: User File:

| Username Full Name | : | Morg | gan (| he | n [1000] | | |
|---|---|------|-------|----|----------|------|---|
| User Comment Account Type Account Created Name | | Fri | Jan | 11 | 15:01:59 | 2019 | Z |
| Password Hint | : | last | t | | | | |
| | - | | - | | 13:26:04 | | _ |
| Pwd Reset Date | | | | | 15:25:05 | | |
| Pwd Fail Date | : | Fri | Jan | 11 | 20:30:15 | 2019 | Z |
| Login Count | : | 7 | | | | | |

Question: 10 Category: System

Question 10: What is the assigned IP address of the subject computer?

Manufacturer's Expected Response: 192.168.189.132

| | Response |
|-----------------|---|
| | |
| 32LYBW- 5562 | 192.168.189.132 |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | 192.168.189.132 |
| 682GJP- 5562 | 192.168.189.132 |
| 6Z4RZY- 5561 | 192.168.189.132 |
| 9LB7BM- 5562 | 192.168.189.132 |
| AP6K9W- 5562 | 192.168.189.132 |
| C97GKM- 5561 | 192.168.189.132 |
| CMBD4P- 5561 | 192.168.189.2 |
| CPHTCG- 5561 | 192.168.189.132 |
| D9NRUF- 5562 | 192.168.189.132 |
| EP84ZE- 5562 | 192.168.189.132 |
| H6CDEC- 5561 | 192.168.189.2 |
| J3ZUA9- 5561 | 192.168.189.132 |
| JLWJ4G- 5562 | 192.168.189.132 |
| K3E3B9- 5561 | 192.168.189.132 ("Windows\System32\config\SYSTEM" |
| L6WGE9- 5561 | 192.168.189.132 |
| MUUH6E- 5561 | 192.168.189.132 |
| NBXF34- 5561 | 192.168.189.132 |
| NFT79E- 5562 | 192.168.189.132 |
| NMCAFG- 5561 | 192.168.189.132 |
| Q2K3Y6- 5562 | 192.168.189.132 |
| QL9NG8- 5561 | 192.168.189.132 |
| QVYAM6- 5562 | 192.168.132 |
| RTPJX2- 5561 | 192.168.189.132 |

| Question: 10 | | Category: System |
|-----------------|-----------------|------------------|
| WebCode | Response | |
| V292YY- 5561 | 192.168.189.132 | |
| WJ4UKW- 5561 | 192.168.189.132 | |
| X4PZAY- 5562 | 192.168.189.132 | |
| XDC2Q9- 5561 | 192.168.189.132 | |
| XE36GV- 5561 | 192.168.189.132 | |
| YN48YX- 5562 | 192.168.189.132 | |
| YUVEG7- 5561 | 192.228.79.201 | |
| ZMBJCV- 5562 | 192.168.189.132 | |

Question 10: What is the assigned IP address of the subject computer?

Consensus Result: 192.168.189.132
Expected Response Explanation:

<u>Expected Response Explanation</u>: Information regarding the IP address assigned to this computer can be sourced from the System hive at the following location: ControlSet001\Services\Tcpip\Parameters\

Screen Shot: Parameters:

| IP | Gateway | Subnet |
|-----------------|---------------|---------------|
| 192.168.189.132 | 192.168.189.2 | 255.255.255.0 |

Question: 11 Category: System

Question 11: How many files are in the Recycle Bin?

Manufacturer's Expected Response: Two (2)

| WebCode | Response |
|-----------------|--|
| 32LYBW- 5562 | 2 |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | Two (02) Files |
| 682GJP- 5562 | 2 |
| 6Z4RZY- 5561 | 2 |
| 9LB7BM- 5562 | 2 |
| AP6K9W- 5562 | 2 |
| C97GKM- 5561 | 2 |
| CMBD4P- 5561 | 6 files |
| CPHTCG- 5561 | 2 |
| D9NRUF- 5562 | 2 text (1x RTF 1x .txt) files (And additionally 2x desktop.ini and 2x \$xxx recycler files) |
| EP84ZE- 5562 | 5, including the desktop.ini file for SID 1000 (Morgan Chen), just the desktop.ini file in SID 1001 (Kids) |
| H6CDEC- 5561 | 2 |
| J3ZUA9- 5561 | 2 |
| JLWJ4G- 5562 | 2 |
| K3E3B9- 5561 | 2 files are in the Recycle Bin. "Olivia Letters.txt" y "Absence Note.rtf". Both from the Morgan Chen's Desktop |
| L6WGE9- 5561 | 7 |
| MUUH6E- 5561 | 2 |
| NBXF34- 5561 | 2 |
| NFT79E- 5562 | two files |
| NMCAFG- 5561 | Two (2) |
| Q2K3Y6- 5562 | 4 |
| QL9NG8- 5561 | 2 |
| QVYAM6- 5562 | The SID ending with 1000 has seven files and the SID ending with 1001 has the destop .ini. If you looking for Morgan Chen, actual document that is deleted gets start with \$R therefore the answer is 11 files. |
| RTPJX2- 5561 | 2 |

| Question | : 11 Category: System |
|-----------------|--|
| WebCode | Response |
| V292YY- 5561 | 2 user deleted files If system files are also included there are 7 files, which included both deleted documents (\$R1L24PA.rtf and \$R3CW2W9.txt), the information files associated with each deleted document (\$11L24PA.rtf and \$13CW2W9.txt), two initialization files (desktop.ini), and one alternate datastream file (zone.Identifier). |
| WJ4UKW- 5561 | 2 |
| X4PZAY- 5562 | 2 |
| XDC2Q9- 5561 | 2 |
| XE36GV- 5561 | Two |
| YN48YX- 5562 | 2 |
| YUVEG7- 5561 | 2 files |
| ZMBJCV- 5562 | 5 |

Question 11: How many files are in the Recycle Bin?

Consensus Result: Two (2)

<u>Expected Response Explanation</u>:
The intention of this question was to have participants report only the files deleted by the user. This information is found in the recycle bin folder.

Screen Shot:

Recycle Bin Contents:

| | Name | File Ext | Logical Size | Category | Signature Analysis | File Type |
|----------------|--|-------------|-----------------|----------|-----------------------|------------------|
| 0-1 | Absence Note.rtf | rtf | 408 | Document | Match | Rich Text Format |
| □ 2 | desktop.ini | ini | 129 | Windows | Match | Desktop.ini Fol |
| = 3 | The Olivia Letters.txt | txt | 828,252 | Document | Match | UTF-8 Docume |
| □ 4 | ☐ The Olivia Letters.txt·Zone.ldentifier | Identifier | 26 | None | Unknown | |
| 5 | SI1L24PArtf | rtf | 120 | Document | Bad signature | |
| □ 6 | □ \$I3CW2W9.txt | txt | 132 | Document | Match | Text |

Other Responses:

Six participants reported a value greater than two (2). Some participants included I\$ files and desktop.ini files as part of their count.

Question: 12 Category: System

Question 12: Provide the name of the most recently viewed document. (pdf, xls, docx, rtf)

Manufacturer's Expected Response: Julie_Chen - LastWill.docx

| | Response |
|-----------------|---|
| Webcode | |
| 32LYBW- 5562 | Julie_Chen - LastWill.docx |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | Julie_Chen - LastWill.docx |
| 682GJP- 5562 | Julie_Chen - LastWill.docx |
| 6Z4RZY- 5561 | Gmail - Finalized Will.pdf |
| 9LB7BM- 5562 | Julie_Chen - LastWill.docx |
| AP6K9W- 5562 | Julie_chen-last will.docx |
| C97GKM- 5561 | Julie_Chen - LastWill.docx |
| CMBD4P- 5561 | Julie Chen Last Will.docx |
| CPHTCG- 5561 | Julie_Chen - LastWill.docx |
| D9NRUF- 5562 | Julie_Chen - LastWill.docx |
| EP84ZE- 5562 | decimals.pdf, Julie_Chen - LastWill.docx, Absence Note.rtf |
| H6CDEC- 5561 | PDF - decimals, XLS - MsolrmProtector, DOCX - Julie_Chen - LastWill, RTF - Absence Note |
| J3ZUA9- 5561 | Julie_Chen - LastWill.docx |
| JLWJ4G- 5562 | Julie_Chen - LastWill.docx |
| K3E3B9- 5561 | "Julie_Chen -LastWill.docx", "Abscense Note.rtf", "decimals.pdf". ("\Users\Morgan Chen\NTUSER.dat") |
| L6WGE9- 5561 | Julie_Chen - LastWill.docx |
| MUUH6E- 5561 | Julie_Chen - LastWill.docx |
| NBXF34- 5561 | Julie_Chen - LastWill.docx |
| NFT79E- 5562 | « Julie_Chen - LastWill.docx " |
| NMCAFG- 5561 | Julie_Chen - LastWill.docx |
| Q2K3Y6- 5562 | Julie_Chen - LastWill.docx |
| QL9NG8- 5561 | Julie_Chen - LastWill.docx |
| QVYAM6- 5562 | Julie_Chen - Last Will |
| RTPJX2- 5561 | Julie_Chen - LastWill.docx |

| Question | : 12 Category: System |
|-----------------|--|
| WebCode | Response |
| V292YY- 5561 | Julie_Chen - Lastwill.docx |
| WJ4UKW- 5561 | Julie_Chen - LastWill.docx |
| X4PZAY- 5562 | Julie_Chen - LastWill.docx |
| XDC2Q9- 5561 | Julie_Chen - Last Will.docx |
| XE36GV- 5561 | Julie_Chen - LastWill.docx |
| YN48YX- 5562 | Julie_Chen - LastWill.docx |
| YUVEG7- 5561 | decimals.pdf, Julie_Chen - LastWill.docx, Absense Note.rtf |
| ZMBJCV- 5562 | "Julie_Chen - LastWill.docx" |

Question 12: Provide the name of the most recently viewed document. (pdf, xls, docx, rtf)

Consensus Result: Julie_Chen - LastWill.docx

Expected Response Explanation:

Information regarding the name of the most recently viewed document can be found at the following location: C:\Users\Morgan Chen\NTUSER.DAT\Microsoft\Windows\CurrentVersion\Explorer\RecentDocs\.docx

Screen Shot: Recent Docs:

```
recentdocs v.20100405
(NTUSER.DAT) Gets contents of user's RecentDocs key
RecentDocs
**All values printed in MRUList\MRUListEx order.
Software\Microsoft\Windows\CurrentVersion\Explorer\RecentDocs
LastWrite Time Tue Jan 15 15:09:27 2019 (UTC)
 20 = Julie_Chen - LastWill.docx
 21 = RECIPE'S (E:)
 12 = Family Pictures
 19 = Lake.jpg
 18 = Kids.jpg
 17 = Home.jpg
 16 = Farm House.jpg
 15 = Family.jpg
 14 = Black and White.jpg
 13 = Beach.jpg
 11 = Baby Boy.jpg
 9 = The Olivia Letters.txt
 7 = Give Away 2018 (E:)
```

Question: 13 Category: System

Question 13: What feature of Windows records execution of programs (and their parameters) to speed up the application's start up process?

Manufacturer's Expected Response: Prefetch

| | ers expected response: Freierch |
|-----------------|--|
| WebCode | Response |
| 32LYBW- 5562 | Prefetch |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | Prefetch |
| 682GJP- 5562 | UserAssist |
| 6Z4RZY- 5561 | Prefetch Files |
| 9LB7BM- 5562 | Prefetch |
| AP6K9W- 5562 | Prefetch, as default it's only available for boot prefetching |
| C97GKM- 5561 | Prefetch |
| CMBD4P- 5561 | Prefetch |
| CPHTCG- 5561 | Prefetch |
| D9NRUF- 5562 | Prefetch |
| EP84ZE- 5562 | Prefetch |
| H6CDEC- 5561 | Prefetch |
| J3ZUA9- 5561 | Prefetch |
| JLWJ4G- 5562 | Windows Prefetch |
| K3E3B9- 5561 | The feature of windows that records execution of programas to speed up the application's start up process is: Prefecth. |
| L6WGE9- 5561 | Superfetch |
| MUUH6E- 5561 | Prefetch Files |
| NBXF34- 5561 | Prefetch |
| NFT79E- 5562 | The startup manager |
| NMCAFG- 5561 | prefetch |
| Q2K3Y6- 5562 | Jump Lists |
| QL9NG8- 5561 | Prefetch File |
| QVYAM6- 5562 | Prefetch Files. It records the loading order of files and then maps that info for retrieval the next time the file is loaded. Prefetch enhances the speed of loading by storing the order of pages ahead of time in memory; hence the name Prefetch. |

| Question | n: 13 | Category: System |
|-----------------|----------------|------------------|
| WebCode | Response | |
| RTPJX2- 5561 | Prefetch | |
| V292YY- 5561 | Prefetch | |
| WJ4UKW- 5561 | Prefetch files | |
| X4PZAY- 5562 | Prefetch | |
| XDC2Q9- 5561 | Prefetch | |
| XE36GV- 5561 | Prefetch | |
| YN48YX- 5562 | Prefetch | |
| YUVEG7- 5561 | Startup | |
| ZMBJCV- 5562 | Prefetch | |

Question 13: What feature of Windows records execution of programs (and their parameters) to speed up the application's start up process?

Consensus Result: Prefetch

<u>Expected Response Explanation</u>:
The prefetch files are found within the prefetch folder at C:\Windows\Prefetch

Question: 14 Category: Application

Question 14: How many pages were bookmarked on Chrome?

Manufacturer's Expected Response: Four (4)

| WebCode | Response |
|-----------------|---|
| 32LYBW- 5562 | 4 |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | Four (04) pages |
| 682GJP- 5562 | 4 |
| 6Z4RZY- 5561 | 4 |
| 9LB7BM- 5562 | 4 |
| AP6K9W- 5562 | 4 |
| C97GKM- 5561 | 4 |
| CMBD4P- 5561 | 4 |
| CPHTCG- 5561 | 4 |
| D9NRUF- 5562 | 4 |
| EP84ZE- 5562 | 4 |
| H6CDEC- 5561 | 4 |
| J3ZUA9- 5561 | 4 |
| JLWJ4G- 5562 | 4 |
| K3E3B9- 5561 | 4 pages were bookmarked: www.cnn.com, www.buzzfeed.com, www.facebook.com, www.pinterest.com |
| L6WGE9- 5561 | 0 |
| MUUH6E- 5561 | 4 |
| NBXF34- 5561 | 4 |
| NFT79E- 5562 | 4 |
| NMCAFG- 5561 | Four (4) |
| Q2K3Y6- 5562 | 4 |
| QL9NG8- 5561 | 4 |
| QVYAM6- 5562 | Eight |
| RTPJX2- 5561 | 4 |

| Question | : 14 | Category: Application |
|-----------------|----------|-----------------------|
| WebCode | Response | |
| V292YY- 5561 | 4 | |
| WJ4UKW- 5561 | 4 | |
| X4PZAY- 5562 | 4 | |
| XDC2Q9- 5561 | 4 | |
| XE36GV- 5561 | Four | |
| YN48YX- 5562 | 4 | |
| YUVEG7- 5561 | 4 pages | |
| ZMBJCV- 5562 | 4 | |

Question 14: How many pages were bookmarked on Chrome?

Consensus Result: Four (4) **Expected Response Explanation:**

Information regarding the pages bookmarked on Chrome can be found at the following location: C:\Users\Morgan $Chen\App Data\Local\Google\Chrome\User Data\Default\Bookmarks$

Screen Shot: Chrome Bookmarks:

| URL | Date Created | Program Name |
|----------------------------|-------------------------|--------------|
| https://www.cnn.com/ | 2019-01-11 15:29:52 EST | Chrome |
| https://www.buzzfeed.com/ | 2019-01-11 15:30:12 EST | Chrome |
| https://www.facebook.com/ | 2019-01-11 15:30:24 EST | Chrome |
| https://www.pinterest.com/ | 2019-01-11 15:30:47 EST | Chrome |

Question: 15 Category: Application

Question 15: Provide the last term searched using Google Chrome on this device?

Manufacturer's Expected Response: probate process in new jersey

| | Pospenso |
|-----------------|---|
| | Response |
| 32LYBW- 5562 | probate process in new jersey |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | probate process in new jersey |
| 682GJP- 5562 | probate process in new jersey |
| 6Z4RZY- 5561 | probate process in new jersey |
| 9LB7BM- 5562 | probate process in new jersey |
| AP6K9W- 5562 | Probate Process in New Jersey |
| C97GKM- 5561 | probate process in new jersey |
| CMBD4P- 5561 | Probate process in New Jersey |
| CPHTCG- 5561 | probate process in new jersey |
| D9NRUF- 5562 | probate process in new jersey |
| EP84ZE- 5562 | "probate process in new jersey" |
| H6CDEC- 5561 | probate process in new jersey |
| J3ZUA9- 5561 | probate process in new jersey |
| JLWJ4G- 5562 | probate process in new jersey |
| K3E3B9- 5561 | Probate process in new jersey. It was searched on 01/15/2019 17:16:56 |
| L6WGE9- 5561 | probate process in new jersey |
| MUUH6E- 5561 | probate process in new jersey |
| NBXF34- 5561 | probate process in new jersey |
| NFT79E- 5562 | "navy credit union" |
| NMCAFG- 5561 | probate process in new jersey |
| Q2K3Y6- 5562 | probate process in new jersey |
| QL9NG8- 5561 | probate process in new jersey |
| QVYAM6- 5562 | NAVY credit union |
| RTPJX2- 5561 | probate process in new jersey |

| Question: 15 | | Category: Application |
|-----------------|-------------------------------------|-----------------------|
| WebCode | Response | |
| V292YY- 5561 | probate process in new jersey | |
| WJ4UKW- 5561 | probate process in new jersey | |
| X4PZAY- 5562 | probate process in new jersey | |
| XDC2Q9- 5561 | probate process in New Jersey | |
| XE36GV- 5561 | probate process in new jersey | |
| YN48YX- 5562 | probate process in new jersey | |
| YUVEG7- 5561 | probate process in new jersey - Goo | gle Search |
| ZMBJCV- 5562 | "probate process in new jersey" | |

Question 15: Provide the last term searched using Google Chrome on this device?

Consensus Result: probate process in new jersey

Expected Response Explanation:

Information regarding the last term searched using Google Chrome can be found at the following location:

C:\Users\Morgan Chen\AppData\Local\Google\Chrome\UserData\Default\History

Screen Shot: Searched Terms:

| Record | Url | Url |
|----------------------|-------------------|---|
| Last Accessed | Host | Name |
| 01/14/19 12:42:26 PM | www.facebook.com/ | https://www.facebook.com/search/top/?q=mullerch03%40gmail.com&epa=FILTERS& |
| 01/14/19 12:42:32 PM | www.facebook.com/ | https://www.facebook.com/search/top/?q=mullerch03%40gmail.com |
| 01/14/19 12:42:32 PM | www.facebook.com/ | https://www.facebook.com/search/top/?q=mullerch03%40gmail.com |
| 01/15/19 09:15:28 AM | www.google.com/ | https://www.google.com/search?q=mercer+county+school+calendar&rlz=1C1CHBF_e |
| 01/15/19 10:56:36 AM | www.google.com/ | https://www.google.com/search?q=will+executor&rlz=1C1CHBF_enUS831US831&oq: |
| 01/15/19 11:03:44 AM | www.google.com/ | https://www.google.com/search?rlz=1C1CHBF_enUS831US831⪙=tAl-XIHIEqWt_QbC |
| 01/15/19 11:16:56 AM | www.google.com/ | https://www.google.com/search?q=probate+process+in+new+jersey&rlz=1C1CHBF_e |

Question: 16 Category: Application

Question 16: What email application was used to send and receive emails?

Manufacturer's Expected Response: Thunderbird or Mozilla Thunderbird

| | Response |
|-----------------|---|
| 32LYBW- | Mozilla Thunderbird |
| 5562 | |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | Mozilla Thunderbird |
| 682GJP- 5562 | Mozilla Thunderbird |
| 6Z4RZY- 5561 | Mozilla Thunderbird |
| 9LB7BM- 5562 | Thunderbird |
| AP6K9W- 5562 | Gmail |
| C97GKM- 5561 | Mozilla Thunderbird |
| CMBD4P- 5561 | Mozilla Thunderbird |
| CPHTCG- 5561 | Thunderbird |
| D9NRUF- 5562 | Thunderbird |
| EP84ZE- 5562 | Thunderbird |
| H6CDEC- 5561 | Thunderbird |
| J3ZUA9- 5561 | Thunderbird |
| JLWJ4G- 5562 | Mozilla Thunderbird |
| K3E3B9- 5561 | Thunderbird. Installed on ("\Program File (x86)\"). |
| L6WGE9- 5561 | Mozilla Thunderbird |
| MUUH6E- 5561 | Mozilla Thunderbird |
| NBXF34- 5561 | Thunderbird |
| NFT79E- 5562 | Thunderbird |
| NMCAFG- 5561 | Mozilla Thunderbird 60.4.0 (x86 en-US) |
| Q2K3Y6- 5562 | МВох |
| QL9NG8- 5561 | Mozilla Thunderbird |
| QVYAM6- 5562 | Gmail |
| RTPJX2- 5561 | Thunderbird |

| Question | n: 16 | Category: Application |
|-----------------|----------------------------|-----------------------|
| WebCode | Response | |
| V292YY- 5561 | Thunderbird | |
| WJ4UKW- 5561 | gmail | |
| X4PZAY- 5562 | Mozilla Thunderbird | |
| XDC2Q9- 5561 | Thunderbird | |
| XE36GV- 5561 | Thunderbird | |
| YN48YX- 5562 | Thunderbird | |
| YUVEG7- 5561 | Gmail application | |
| ZMBJCV- 5562 | Mozilla Thunderbird 60.4.0 | |

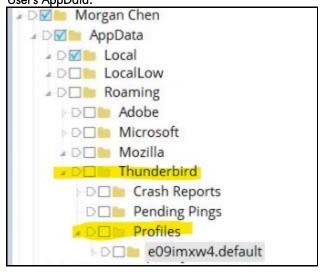
Question 16: What email application was used to send and receive emails?

Consensus Result: Thunderbird or Mozilla Thunderbird

Expected Response Explanation:

Information regarding the email application used to send and receive emails can be found at the following location: C:\Users\Morgan Chen\AppData\Roaming\Thunderbird\Profiles

Screen Shot: User's AppData:



Question: 17 Category: Application

Question 17: What is the Gmail email address associated to the primary user on this device?

<u>Manufacturer's Expected Response</u>: chenmorgan01@gmail.com

| WebCode | Response |
|-----------------|---|
| 32LYBW- | chenmorgan01@gmail.com |
| 5562 | |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | chenmorgan01@gmail.com |
| 682GJP- 5562 | chenmorgan01@gmail.com |
| 6Z4RZY- 5561 | Mozilla Thunderbird |
| 9LB7BM- 5562 | chenmorgan01@gmail.com |
| AP6K9W- 5562 | chenmorgan01@gmail.com |
| C97GKM- 5561 | chenmorgan01@gmail.com |
| CMBD4P- 5561 | chenmorgan01@gmail.com |
| CPHTCG- 5561 | chenmorgan01@gmail.com |
| D9NRUF- 5562 | Chenmorgan01@gmail.com |
| EP84ZE- 5562 | chenmorgan01@gmail.com |
| H6CDEC- 5561 | chenmorgan01@gmail.com |
| J3ZUA9- 5561 | chenmorgan01@gmail.com |
| JLWJ4G- 5562 | chenmorgan01@gmail.com |
| K3E3B9- 5561 | chenmorgan01@gmail.com obtained from ("\Users\Morgan Chen\AppData\Roaming\Thunderbird\Profiles\") |
| L6WGE9- 5561 | chenmorgan01@gmail.com |
| MUUH6E- 5561 | chenmorgan01@gmail.com |
| NBXF34- 5561 | chenmorgan01@gmail.com |
| NFT79E- 5562 | « chenmorgan01@gmail.com » |
| NMCAFG- 5561 | chenmorgan01@gmail.com |
| Q2K3Y6- 5562 | chenmorgan01@gmail.com |
| QL9NG8- 5561 | chenmorgan01@gmail.com |
| QVYAM6- 5562 | chenmorgan01@gmail.com |
| RTPJX2- 5561 | chenmorgan01@gmail.com |

| Question | : 17 | Category: Application |
|-----------------|--------------------------|-----------------------|
| WebCode | Response | |
| V292YY- 5561 | chenmorgan01@gmail.com | |
| WJ4UKW- 5561 | chenmorgan01@gmail.com | |
| X4PZAY- 5562 | chenmorgan01@gmail.com | |
| XDC2Q9- 5561 | chenmorgan01@gmail.com | |
| XE36GV- 5561 | chenmorgan01@gmail.com | |
| YN48YX- 5562 | chenmorgan01@gmail.com | |
| YUVEG7- 5561 | chenmorgan01@gmail.com | |
| ZMBJCV- 5562 | "chenmorgan01@gmail.com" | |

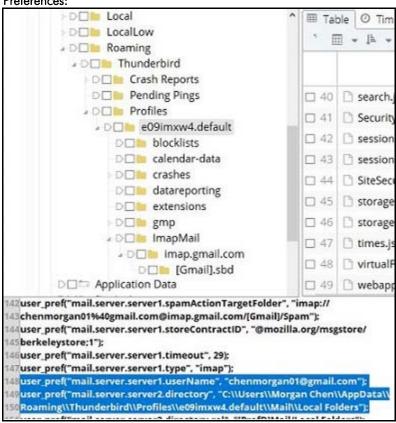
Question 17: What is the Gmail email address associated to the primary user on this device?

Consensus Result: chenmorgan01@gmail.com

Expected Response Explanation:

Information regarding the Gmail email address associated with the primary user on this device can be found at the following location: C:\Users\Morgan Chen\AppData\Roaming\Thunderbird\Profiles\e09imxw4.default\pref.js

Screen Shot: Preferences:



Question: 18 Category: Application

Question 18: An email was sent to "Laurelmurray63@gmail.com" on 01/14/2019 at 01:19 PM. Provide the subject of that email.

Manufacturer's Expected Response: Hey Girl

| | ers expected response: They Gift |
|-----------------|--|
| WebCode | Response |
| 32LYBW- 5562 | Hey Girl |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | Hey Girl |
| 682GJP- 5562 | Hey Girl |
| 6Z4RZY- 5561 | Hey Girl |
| 9LB7BM- 5562 | Hey Girl |
| AP6K9W- 5562 | Hey Girl |
| C97GKM- 5561 | Hey Girl |
| CMBD4P- 5561 | Hey Girl |
| CPHTCG- 5561 | Hey Girl |
| D9NRUF- 5562 | Hey Girl |
| EP84ZE- 5562 | Hey Girl |
| H6CDEC- 5561 | Hey Girl |
| J3ZUA9- 5561 | Hey Girl |
| JLWJ4G- 5562 | Hey Girl |
| K3E3B9- 5561 | Hey Girl. obtained from ("\Users\Morgan Chen\AppData\Roaming\Thunderbird\Profiles\e09imxw4.default\ImapMail\imap.gmail.com\[G mail].sbd\Sent Mail"). |
| L6WGE9- 5561 | Hey Girl |
| MUUH6E- 5561 | Hey Girl |
| NBXF34- 5561 | Hey Girl |
| NFT79E- 5562 | « Hey Girl » |
| NMCAFG- 5561 | Hey Girl |
| Q2K3Y6- 5562 | Hey Girl |
| QL9NG8- 5561 | Hey Girl |
| QVYAM6- 5562 | Hey Girl |

| Question: 18 | | Category: Application |
|-----------------|------------|-----------------------|
| WebCode | Response | |
| RTPJX2- 5561 | Hey Girl | |
| V292YY- 5561 | Hey Girl | |
| WJ4UKW- 5561 | Hey Girl | |
| X4PZAY- 5562 | Hey Girl | |
| XDC2Q9- 5561 | Hey Girl | |
| XE36GV- 5561 | Hey Girl | |
| YN48YX- 5562 | Hey Girl | |
| YUVEG7- 5561 | Hey Girl | |
| ZMBJCV- 5562 | "Hey Girl" | |

Question 18: An email was sent to "Laurelmurray63@gmail.com" on 01/14/2019 at 01:19 PM. Provide the subject of that email.

Consensus Result: Hey Girl

Expected Response Explanation: Information regarding the subject of a sent email can be found at the following location: C:\Users\Morgan Chen\AppData\Roaming\Thunderbird\Profiles\e09imxw4.default\ImapMail\imap.gmail.com\[Gmail].sbd\All Mail

Screen Shot:

| From | Morgan Chenimap <chenmorgan01@gmail.com></chenmorgan01@gmail.com> | |
|-----------|---|--|
| То | Laurelmurray63@gmail.com | |
| Sent | 01/14/19 01:18:59 PM | |
| Subject | Hey Girl | |
| Hey Girl, | | |
| How's yo | ur business trip going? You need to come back soon! I miss | |

Question: 19 Category: Application

Question 19: What is the primary user's physical (home) address? Provide the Building number, Street Name, City, and State

Manufacturer's Expected Response: 16925 Shaw Road, Trenton, New Jersey

| WebCode | Response |
|-----------------|--|
| 32LYBW- 5562 | 16925 Shaw Road, Trenton, New Jersey 08666 |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | 16925 Shaw Road, Trenton, New Jersey 08666 |
| 682GJP- 5562 | 16925 Shaw Road, Trenton, New Jersey 08666 |
| 6Z4RZY- 5561 | 16925 Shaw Road, Trenton, New Jersey 08666 |
| 9LB7BM- 5562 | 16925 Shaw Road, Trenton, New Jersey |
| AP6K9W- 5562 | 16925 Shaw Road, Trenton, New Jersey, 08666 |
| C97GKM- 5561 | 16925 Shaw Road, Trenton, New Jersey 08666 |
| CMBD4P- 5561 | 16925 Shaw Road, Trenton, New Jersey 08666 |
| CPHTCG- 5561 | 16925 Shaw Road, Trenton, New Jersey 08666 |
| D9NRUF- 5562 | 16925 Shaw Road, Trenton, New Jersey 08666 |
| EP84ZE- 5562 | 16925 Shaw Road, Trenton, New Jersey 08666 |
| H6CDEC- 5561 | Morgan Chen 16925 Shaw Road Trenton New Jersey 08666 - Morgan Chen is a user account; however, you can not say who physically used that account. |
| J3ZUA9- 5561 | 16925 Shaw Road, Trenton, New Jersey |
| JLWJ4G- 5562 | 16925 Shaw Road, Trenton, New Jersey 08666 |
| K3E3B9- 5561 | "16925 Shaw Road, Trenton, New Jersey, 08666" obtained from reviewing the "User\Morgan Chen\Desktop\Julie_Chen – LastWill.docx" |
| L6WGE9- 5561 | 2415 Grover Place, Trenton, New Jersey 08666 |
| MUUH6E- 5561 | 16925, Shaw Road, Trenton, New Jersey |
| NBXF34- 5561 | 16925 Shaw Road, Trenton, New Jersey |
| NFT79E- 5562 | 16925 Shaw Road, Trenton, New Jersey 08666. |
| NMCAFG- 5561 | 16925 Shaw Road, Trenton, New Jersey |
| Q2K3Y6- 5562 | 16925 Shaw Road, Trenton, New Jersey 08666 |
| QL9NG8- 5561 | 16925 Shaw Road, Trenton, New Jersey 08666 |
| QVYAM6- 5562 | 16925 Shaw Road, Trenton, New Jersey 08666 |
| RTPJX2- 5561 | 16925 Shaw Road, Trenton, New Jersey |

| Question | : 19 Category: Application |
|-----------------|--|
| WebCode | Response |
| V292YY- 5561 | 16925 Shaw Road, Trenton, New Jersey 08666 |
| WJ4UKW- 5561 | 16925 Shaw Road, Trenton, New Jersey 08666 |
| X4PZAY- 5562 | 16925 Shaw Road, Trenton, New Jersey 08666 |
| XDC2Q9- 5561 | 16925 Shaw Road, Trenton, New Jersey |
| XE36GV- 5561 | 16925 Shaw Road, Trenton, NJ 08666 |
| YN48YX- 5562 | 16925 Shaw Road, Trenton, New Jersey 08666 |
| YUVEG7- 5561 | 16925 Shaw Road, Trenton, New Jersey 08666 |
| ZMBJCV- 5562 | "16925 Shaw Road, Trenton, New Jersey 08666" |

Question 19: What is the primary user's physical (home) address? Provide the Building number, Street Name, City, and State

Consensus Result: 16925 Shaw Road, Trenton, New Jersey 08666

<u>Expected Response Explanation:</u>
The primary user's physical address can be sourced from the body of text within the document titled "Julie_Chen -LastWill.docx".

<u>Screen Shot</u>: <u>Text from "Julie_Chen - LastWill.docx":</u>

| Julie_Chen - LastWill.docx North Woods Manhunt.txt | 2019-01-11 15:58:00 EST 2019-01-08 09:41:44 EST | 2019-01-15 10:09:27 EST 2019-01-08 09:43:28 EST | 2019-01-15 10:08:45 E |
|--|---|---|---|
| North Woods Manhunt, txt: Zone, Identifier | 2019-01-08 09:41:44 EST | 2019-01-08 09:43:28 EST | 2019-01-14 15:11:09 E |
| < | | | |
| | | | |
| I, Julie Chen, a resident of the State on Testament, revoking all wills and coo | dicils at any time heret | ofore made by me. | |
| Julie Chen, a resident of the State of Indian Chen, a resident of the State of Indian Chen, a resident of the State of Indian Conference of Indian Conference of Indian Chengal Chenga | dicils at any time heret last illness and funera nd similar taxes payable s will, and any interest | ofore made by me. 1, the expenses of the a with respect to propert or penalties thereon, a | administration of m ty included in my e shall be paid out o |

Question: 20 Category: Application

Question 20: When was "notepad.exe" last executed? Provide the answer in the UTC \pm 00:00 using the following format: MM/DD/YYYY HH:MM:SS AM/PM.

Manufacturer's Expected Response: 01/14/2019 08:15:39 PM

| | | f Inconsistencies not highlighted; No consensus achieved ** |
|-----------------|----------------------------------|---|
| 32LYBW- 5562 | 1/14/2019 8:15:39 PM | |
| 3VUW4Q- 5562 | [Participant did not return resu | ts for this question.] |
| 4RQFAT- 5562 | 01/14/2019 08:36:09 PM (by | user "Kids") |
| 682GJP- 5562 | 01/14/2019 08:15:39 PM | |
| 6Z4RZY- 5561 | 01/17/2019 06:50:32 PM | |
| 9LB7BM- 5562 | 01/14/2019 08:15:39 PM | |
| AP6K9W- 5562 | 01/14/2019 20:15:39 +1:00 | |
| C97GKM- 5561 | 01/14/2019 08:15:39 PM | |
| CMBD4P- 5561 | 01/14/2019 08:36:09 PM | |
| CPHTCG- 5561 | 01/14/2019 08:36:09 PM | |
| D9NRUF- 5562 | 01/14/2019 08:15:39 PM | |
| EP84ZE- 5562 | 01/14/2019 20:15:39 UTC | |
| H6CDEC- 5561 | 03/18/2017 20:58:25 UTC | |
| J3ZUA9- 5561 | 01/14/2019 08:36:09 PM | |
| JLWJ4G- 5562 | 01/14/2019 08:36:09 PM | |
| K3E3B9- 5561 | 01/14/2019 08:15:39 PM ("\ | Vindows\Prefetch\NOTEPAD.EXE-C5670914.pf") |
| L6WGE9- 5561 | 01/14/2019 09:15:39 PM | |
| MUUH6E- 5561 | 01/14/2019 08:36:09 PM | |
| NBXF34- 5561 | 01/14/2019 08:36:09 PM | |
| NFT79E- 5562 | 01/14/2019 20:36:09 PM. | |
| NMCAFG- 5561 | 01/14/2019 08:36:09 PM | |
| Q2K3Y6- 5562 | 1/14/2019 03:15:39 PM | |
| QL9NG8- 5561 | 01/14/2019 08:36:09 PM | |
| QVYAM6- 5562 | 03/18/2017 20:58:58 PM | |
| RTPJX2- 5561 | 1/14/2019 8:36:09 PM | |

| Question | : 20 | Category: Application |
|-----------------|-----------------------------------|--|
| WebCode | Response | ** Inconsistencies not highlighted; No consensus achieved ** |
| V292YY- 5561 | 01/14/2019 08:36:09 PM account | UTC for Kids user account. 01/14/2019 08:15:39 PM UTC for Morgan Chen user |
| WJ4UKW- 5561 | 01/14/2019 08:15:40 PM | UTC |
| X4PZAY- 5562 | 01/14/2019 8:15:39 PM | |
| XDC2Q9- 5561 | 01/14/2019 08:11:00 PM | |
| XE36GV- 5561 | 01/14/2019 8:15:39 PM | |
| YN48YX- 5562 | 1/14/2019 8:15:39 PM | |
| YUVEG7- 5561 | 01/14/19 08:15:39 PM. | |
| ZMBJCV- 5562 | 01/14/2019 08:15:39 PM | |

Question 20: When was "notepad.exe" last executed? Provide the answer in the UTC + 00:00 using the following format: MM/DD/YYYY HH:MM:SS AM/PM.

Consensus Result: A consensus was not achieved. Approximately 42% of participants reported the expected date and time of 01/14/2019, 08:15:39 PM.

Expected Response Explanation:

Information regarding the date/time "notepad.exe" was last executed can be found at the following location: C:\Users\Morgan Chen\NTUSER.DAT

Screen Shot:

C:\Users\Morgan Chen\NTUSER.DAT:

```
Tue Jan 15 15:09:27 2019 Z
{6D809377-6AF0-444B-8957-A3773F02200E}\Windows NT\Accessories\wordpad.exe (6)
Tue Jan 15 15:03:07 2019 Z
Microsoft.Windows.Explorer (14)
Mon Jan 14 20:15:39 2019 Z
{1AC14E77-02E7-4E5D-B744-2EB1AE5198B7}\notepad.exe (11)
```

Other Responses:

Some participants (35%) reported the expected date but a time of 08:36:09 PM. Two participants mentioned that this time was related to the Kids user account.

C:\Users\Kids\NTUSER.DAT:

```
UserAssist
Software\Microsoft\Windows\CurrentVersion\Explorer\UserAssist
LastWrite Time Mon Jan 14 20:37:54 2019 (UTC)

Mon Jan 14 20:36:09 2019 Z
Microsoft.Getstarted_8wekyb3d8bbwe!App (14)
Microsoft.WindowsFeedbackHub_8wekyb3d8bbwe!App (13)
Microsoft.WindowsMaps_8wekyb3d8bbwe!App (12)
Microsoft.People_8wekyb3d8bbwe!x4c7a3b7dy2188y46d4ya362y19ac5a5805e5x (11)
Microsoft.MicrosoftStickyNotes_8wekyb3d8bbwe!App (10)
{1AC14E77-02E7-4E5D-B744-2EB1AE5198B7}\SnippingTool.exe (9)
Microsoft.WindowsCalculator_8wekyb3d8bbwe!App (8)
{1AC14E77-02E7-4E5D-B744-2EB1AE5198B7}\mspaint.exe (7)
{1AC14E77-02E7-4E5D-B744-2EB1AE5198B7}\notepad.exe (6)
```

Question: 21 Category: Application

Question 21: How many times was "mspaint.exe" executed?

Manufacturer's Expected Response: Seven (7)

| *** | rer's Expected Response: Seven (7) | | |
|-----------------|--|--|--|
| WebCode | Response | | |
| 32LYBW- 5562 | 7 | | |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] | | |
| 4RQFAT- 5562 | Morgan Chen Seven (07) times Kids Seven (07) Times | | |
| 682GJP- 5562 | 0 | | |
| 6Z4RZY- 5561 | 4 | | |
| 9LB7BM- 5562 | 14 | | |
| AP6K9W- 5562 | 7 by both users | | |
| C97GKM- 5561 | 7 | | |
| CMBD4P- 5561 | 7 | | |
| CPHTCG- 5561 | 14 | | |
| D9NRUF- 5562 | 0 | | |
| EP84ZE- 5562 | 7 times by user "Kids", 7 times by user "Morgan Chen" | | |
| H6CDEC- 5561 | 0 | | |
| J3ZUA9- 5561 | 14 | | |
| JLWJ4G- 5562 | 14 | | |
| K3E3B9- 5561 | 7 times. It is found on the NTUSER.DAT, from accocunts "Morgan Chen" y "Kids", On the hive we find the Count ("Software\Microsoft\Windows\CurrentVersion\Explorer\UserAssist\{CEBFF5CDACE2-4F4F-9178-9926F41749EA}\Count") | | |
| L6WGE9- 5561 | 14 | | |
| MUUH6E- 5561 | 7 | | |
| NBXF34- 5561 | 14 | | |
| NFT79E- 5562 | 14 | | |
| NMCAFG- 5561 | Fourteen (14) | | |
| Q2K3Y6- 5562 | 7 | | |
| QL9NG8- 5561 | 14(Morgan Chen 7, Kids 7) | | |
| QVYAM6- 5562 | Four times | | |
| RTPJX2- 5561 | 14 | | |

| Question | : 21 Category: Application | |
|-----------------|---|--|
| WebCode | Response | |
| V292YY- 5561 | 14 (7 times for each for the user accounts of Morgan Chen and Kids) | |
| WJ4UKW- 5561 | Total of 14 - 7: Kids, 7: Morgan Chen | |
| X4PZAY- 5562 | 7 | |
| XDC2Q9- 5561 | 14 | |
| XE36GV- 5561 | Zero | |
| YN48YX- 5562 | 7 | |
| YUVEG7- 5561 | 7 times | |
| ZMBJCV- 5562 | 0 | |

Question 21: How many times was "mspaint.exe" executed?

Consensus Result: Seven (7) and/or Fourteen (14)

Expected Response Explanation:

The expected response was seven (7), however due to the ambiguity of the question participants did not know which user account to target. The response of fourteen (14) was also accepted for the total count from the two user accounts. Information regarding the number of times "mspaint.exe" was executed can be found at the following location: C:\Users\Morgan Chen\NTUSER.DAT and C:\Users\Kids\NTUSER.DAT.

Screen Shot:

C:\Users\Morgan Chen\NTUSER.DAT:

```
Software\Microsoft\Windows\CurrentVersion\Explorer\UserAssist

LastWrite Time Fri Jan 11 15:02:59 2019 (UTC)

Fri Jan 11 18:35:39 2019 Z

Microsoft.WindowsStore_8wekyb3d8bbwe!App (2)

Fri Jan 11 15:42:00 2019 Z

C:\Users\Morgan Chen\AppData\Local\Packages\Microsoft.MicrosoftEdge_8wek

Fri Jan 11 15:01:14 2019 Z

Microsoft.Getstarted_8wekyb3d8bbwe!App (14)

Microsoft.WindowsFeedbackHub_8wekyb3d8bbwe!App (13)

Microsoft.People_8wekyb3d8bbwe!x4c7a3b7dy2188y46d4ya362y19ac5a5805e5x (1

Microsoft.MicrosoftStickyNotes_8wekyb3d8bbwe!App (10)

{1AC14E77-02E7-4E5D-B744-2EB1AE5198B7}\SnippingTool.exe (9)

{1AC14E77-02E7-4E5D-B744-2EB1AE5198B7}\mspaint.exe (7)
```

C:\Users\Kids\NTUSER.DAT:

```
Software\Microsoft\Windows\CurrentVersion\Explorer\UserAssist
LastWrite Time Mon Jan 14 20:37:54 2019 (UTC)
Mon Jan 14 20:36:09 2019 Z
Microsoft.Getstarted_8wekyb3d8bbwe!App (14)
Microsoft.WindowsFeedbackHub_8wekyb3d8bbwe!App (13)
Microsoft.WindowsMaps_8wekyb3d8bbwe!App (12)
Microsoft.People_8wekyb3d8bbwe!x4c7a3b7dy2188y46d4ya362y19ac5a5
Microsoft.MicrosoftStickyNotes_8wekyb3d8bbwe!App (10)
{1AC14E77-02E7-4E5D-B744-2EB1AE5198B7}\SnippingTool.exe (9)
Microsoft.WindowsCalculator_8wekyb3d8bbwe!App (8)
{1AC14E77-02E7-4E5D-B744-2EB1AE5198B7}\mspaint.exe (7)
{1AC14E77-02E7-4E5D-B744-2EB1AE5198B7}\notepad.exe (6)
```

Question: 22 Category: Application

Question 22: Was the Skype Application executed on this computer?

Manufacturer's Expected Response: Yes

| | Response | | |
|-----------------|---|--|--|
| | | | |
| 32LYBW- 5562 | yes | | |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] | | |
| 4RQFAT- 5562 | Yes | | |
| 682GJP- 5562 | Yes | | |
| 6Z4RZY- 5561 | Yes | | |
| 9LB7BM- 5562 | Yes | | |
| AP6K9W- 5562 | Yes | | |
| C97GKM- 5561 | yes | | |
| CMBD4P- 5561 | yes | | |
| CPHTCG- 5561 | Yes | | |
| D9NRUF- 5562 | Yes | | |
| EP84ZE- 5562 | Yes | | |
| H6CDEC- 5561 | yes | | |
| J3ZUA9- 5561 | Yes | | |
| JLWJ4G- 5562 | Yes | | |
| K3E3B9- 5561 | Yes, 4 times. ("Windows\Prefetch\SKYPEAPP.EXE-3055373E.pf") | | |
| L6WGE9- 5561 | Yes | | |
| MUUH6E- 5561 | Yes | | |
| NBXF34- 5561 | Yes | | |
| NFT79E- 5562 | Yes | | |
| NMCAFG- 5561 | yes | | |
| Q2K3Y6- 5562 | Yes | | |
| QL9NG8- 5561 | Yes | | |
| QVYAM6- 5562 | Yes | | |
| RTPJX2- 5561 | Yes | | |

| Question | : 22 Category: Application |
|-----------------|--|
| WebCode | Response |
| V292YY- 5561 | Yes, prefetch evidence for SKYPEAPP.EXE indicated 4 separate run times, as well as 3 UserAssist entries for Microsoft.SkypeApp_kzf8qxf38zg5c!App |
| WJ4UKW- 5561 | Yes - Run count: 4 (SKYPEAPP.EXE) |
| X4PZAY- 5562 | Yes |
| XDC2Q9- 5561 | Yes |
| XE36GV- 5561 | Yes |
| YN48YX- 5562 | Yes |
| YUVEG7- 5561 | Yes |
| ZMBJCV- 5562 | Yes |

Question 22: Was the Skype Application executed on this computer?

Consensus Result: Yes

<u>Expected Response Explanation</u>: Information regarding whether the Skype application was executed can be found at the following location:

C:\Windows\Prefetch

Screen Shot: Skype information:

| Filename: | SKYPEAPP.EXE-3055373E.pf | |
|---------------------|--|--|
| Created Time: | 1/11/2019 1:07:08 PM | |
| Modified Time: | 1/15/2019 11:08:49 AM | |
| File Size: | 53,483 | |
| Process EXE: | SKYPEAPP.EXE | |
| Process Path: | \VOLUME{01d4a9d723310a64-9a234b63}\PROGRAM | |
| Run Counter: | 4 | |
| Last Run Time: | 1/15/2019 11:08:46 AM, 1/14/2019 10:39:15 AM, 1/11 | |
| Missing Process: No | | |

Question: 23 Category: External Media

Question 23: What type (CD, USB, SD Card, Optical drive) of device was last mounted as E: drive?

Manufacturer's Expected Response: USB

| | ers Expecied Response: OSB | |
|-----------------|---|--|
| WebCode | Response | |
| 32LYBW- 5562 | USB | |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] | |
| 4RQFAT- 5562 | USB | |
| 682GJP- 5562 | USB | |
| 6Z4RZY- 5561 | Generic Flash Disk USB Device | |
| 9LB7BM- 5562 | USB | |
| AP6K9W- 5562 | USB | |
| C97GKM- 5561 | USB | |
| CMBD4P- 5561 | USB | |
| CPHTCG- 5561 | USB | |
| D9NRUF- 5562 | USB | |
| EP84ZE- 5562 | USB Storage device | |
| H6CDEC- 5561 | USB | |
| J3ZUA9- 5561 | USB | |
| JLWJ4G- 5562 | USB | |
| K3E3B9- 5561 | Generic Flash Disk USB Device. ("Windows\System32\config\SYSTEM") – ("Windows\INF\setupapidev.log") | |
| L6WGE9- 5561 | USB | |
| MUUH6E- 5561 | USB | |
| NBXF34- 5561 | USB | |
| NFT79E- 5562 | USB device | |
| NMCAFG- 5561 | USB | |
| Q2K3Y6- 5562 | USB | |
| QL9NG8- 5561 | USB | |
| QVYAM6- 5562 | USB | |
| RTPJX2- 5561 | USB | |

| Question: 23 | | Category: External Media | |
|-----------------|---------------|--------------------------|--|
| WebCode | Response | | |
| V292YY- 5561 | USB Drive | | |
| WJ4UKW- 5561 | USB | | |
| X4PZAY- 5562 | USB | | |
| XDC2Q9- 5561 | USB | | |
| XE36GV- 5561 | A USB device. | | |
| YN48YX- 5562 | USB | | |
| YUVEG7- 5561 | USB | | |
| ZMBJCV- 5562 | USB | | |

Question 23: What type (CD, USB, SD Card, Optical drive) of device was last mounted as E: drive?

Consensus Result: USB

Expected Response Explanation:

Information regarding what type of device was last mounted to the E: drive can be sourced from the System registry hive within the MountedDevices subkey.

Screen Shot:

Mounted Devices:

mountdev v.20130530
(System) Return contents of System hive MountedDevices key
MountedDevices
LastWrite time = Tue Jan 15 15:02:54 2019Z

Device: _??_USBSTOR#DisksVen_GenericsProd_Flash_DisksRev_8.07#3C9AC406s0#[53f56307-b6bf-11d0-94f2-00a0c9lefb8b]
\DosDevices\E:
\??\Volume(2257d070-18cf-11e9-8f60-000c29f4b277)

| Serial # | Last Connected | Device |
|-------------|----------------------|-------------------------------|
| 3C9AC486&0 | 01/15/19 10:35:05 AM | Generic Flash Disk USB Device |

Question: 24 Category: External Media

Question 24: How many USB devices were mounted to this computer?

Manufacturer's Expected Response: Two (2)

| | Response | |
|-----------------|---|--|
| | | |
| 32LYBW- 5562 | 2 | |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] | |
| 4RQFAT- 5562 | Two (02) devices | |
| 682GJP- 5562 | 2 | |
| 6Z4RZY- 5561 | 2 | |
| 9LB7BM- 5562 | 2 | |
| AP6K9W- 5562 | 11 | |
| C97GKM- 5561 | 2 | |
| CMBD4P- 5561 | 2 | |
| CPHTCG- 5561 | 2 | |
| D9NRUF- 5562 | 2 | |
| EP84ZE- 5562 | 2 USB Storage devices, 1 USB hub, 1 USB Composite device, 2 USB Input devices. The 2 USB storage devices were mounted (given drive letters) previously. | |
| H6CDEC- 5561 | 1 | |
| J3ZUA9- 5561 | 2 | |
| JLWJ4G- 5562 | 2 | |
| K3E3B9- 5561 | $2. \ ("Windows \ System 32 \ config \ SYSTEM") - ("Windows \ INF \ setupapidev.log").$ | |
| L6WGE9- 5561 | 2 | |
| MUUH6E- 5561 | 2 | |
| NBXF34- 5561 | 2 | |
| NFT79E- 5562 | 2 | |
| NMCAFG- 5561 | Two (2) | |
| Q2K3Y6- 5562 | 2 | |
| QL9NG8- 5561 | 2 | |
| QVYAM6- 5562 | 12 | |
| RTPJX2- 5561 | 2 | |

| Question: 24 | | ategory: External Media |
|-----------------|-------------------------|-------------------------|
| WebCode | Response | |
| V292YY- 5561 | 2 | |
| WJ4UKW- 5561 | 2 - USB storage devices | |
| X4PZAY- 5562 | 2 | |
| XDC2Q9- 5561 | 2 | |
| XE36GV- 5561 | Two | |
| YN48YX- 5562 | 2 | |
| YUVEG7- 5561 | 2 Devices | |
| ZMBJCV- 5562 | 2 | |

Question 24: How many USB devices were mounted to this computer?

Consensus Result: Two (2) Expected Response Explanation:

Information regarding how many USB devices were mounted to this computer can be sourced from the System registry hive within the USBSTOR subkey.

Screen Shot: USBSTOR:

```
usbstor v.20141111
System) Get USBStor key info
USBStor
ControlSet001\Enum\USBStor
Disk&Ven Generic&Prod Flash Disk&Rev 8.07 [Tue Jan 15 15:02:54 2019]
-S/N: 0DCDD820&0 [Mon Jan 14 20:09:42 2019]
 Device Parameters LastWrite: [Mon Jan 14 20:09:42 2019]
 Properties LastWrite
                            : [Mon Jan 14 20:09:43 2019]
   FriendlyName
                   : Generic Flash Disk USB Device
S/N: 3C9AC486&0 [Tue Jan 15 15:02:54 2019]
 Device Parameters LastWrite: [Tue Jan 15 15:02:54 2019]
 Properties LastWrite
                            : [Tue Jan 15 15:02:54 2019]
   FriendlyName : Generic Flash Disk USB Device
```

Question: 25 Category: External Media

Question 25: Provide the serial number associated with USB named "Give Away 2018".

Manufacturer's Expected Response: 0DCDD820

| WebCode | Response ** Inconsistencies not highlighted; No consensus achieved ** |
|-----------------|--|
| 32LYBW- 5562 | 584FC79D |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | 0DCDD820 |
| 682GJP- 5562 | 0DCDD820 |
| 6Z4RZY- 5561 | 584FC79D |
| 9LB7BM- 5562 | 0DCDD820 |
| AP6K9W- 5562 | 3c9ac486&0 |
| C97GKM- 5561 | 584FC79D |
| CMBD4P- 5561 | 3c9ac486&0 |
| CPHTCG- 5561 | 0DCDD820&0 |
| D9NRUF- 5562 | 0DCDD820 |
| EP84ZE- 5562 | 0DCDD820&0 |
| H6CDEC- 5561 | 1a38be56 |
| J3ZUA9- 5561 | Odcdd820 |
| JLWJ4G- 5562 | 584F-C79D |
| K3E3B9- 5561 | 3C9AC486&0. ("Windows\System32\config\SYSTEM") – ("Windows\INF\setupapidev.log") |
| L6WGE9- 5561 | 3C9AC486&0 |
| MUUH6E- 5561 | 0DCDD820 |
| NBXF34- 5561 | 0DCDD820 |
| NFT79E- 5562 | 0DCDD820&0 |
| NMCAFG- 5561 | 0DCDD820 |
| Q2K3Y6- 5562 | 584FC79D |
| QL9NG8- 5561 | 0DCDD820&0 |
| QVYAM6- 5562 | I did not fine the named "Give Away 2018" however I found ODCDD820 |
| RTPJX2- 5561 | 0DCDD820 |

| Question: 25 Category: External Media | | egory: External Media |
|---------------------------------------|--------------------------------------|---|
| WebCode | Response ** Incons | istencies not highlighted; No consensus achieved ** |
| V292YY- 5561 | Volume serial number - 584fc79d. USB | serial number - Odcdd820 |
| WJ4UKW- 5561 | 0DCDD820 | |
| X4PZAY- 5562 | 584FC79D | |
| XDC2Q9- 5561 | 584FC79D | |
| XE36GV- 5561 | 0DCDD820 | |
| YN48YX- 5562 | 584FC79D | |
| YUVEG7- 5561 | 0DCDD820 | |
| ZMBJCV- 5562 | 0DCDD820 | |

Question 25: Provide the serial number associated with USB named "Give Away 2018".

Consensus Result: A consensus response was not achieved. The objective was to identify and report the USB serial number for "Give Away 2018". The expected response was ODCDD820.

Expected Response Explanation:

A non-consensus majority of participants reported the expected response. Information regarding the serial number associated with the USB named "Give Away 2018" can be found in the Software registry hive.

Screen Shot:

```
Devices:
  port dev v.20090118
  (Software) Parses Windows Portable Devices key (Vista)
  RemovDev
 Microsoft\Windows Portable Devices\Devices
  LastWrite Time Tue Jan 15 15:02:55 2019 (UTC)
            : DISK&VEN GENERIC&PROD FLASH DISK&REV 8.07
  LastWrite : Mon Jan 14 20:09:45 2019 (UTC)
            : 0DCDD820&0
  SN
            : Give Away 2018
  Drive
  Device
            : DISK&VEN_GENERIC&PROD_FLASH_DISK&REV_8.07
  LastWrite : Tue Jan 15 15:02:55 2019 (UTC)
  SN
            : 3C9AC486&0
            : RECIPE'S
  Drive
```

Other Responses:

Eight participants reported the serial number 584FC79D; one additional participant identified this serial number as the volume serial number.

Question: 26 Category: External Media

Question 26: Provide the last write time for device named "Give Away 2018". Provide the answer in the UTC + 00:00 using the following format: MM/DD/YYYY HH:MM:SS AM/PM.

Manufacturer's Expected Response: 01/14/2019 08:09:45 PM

| | er's Expected Response: | 01/14/2019 08:09:45 PM |
|-----------------|----------------------------------|--|
| WebCode | Response * | * Inconsistencies not highlighted; No consensus achieved ** |
| 32LYBW- 5562 | 1/14/2019 6:14:13 PM | |
| 3VUW4Q- 5562 | [Participant did not return resu | ults for this question.] |
| 4RQFAT- 5562 | 01/14/2019 08:09:42 PM | |
| 682GJP- 5562 | 01/14/2019 08:09:14 PM | |
| 6Z4RZY- 5561 | 01/14/2019 08:12:28 PM (L | JTC +00:00) |
| 9LB7BM- 5562 | 01/14/2019 08:09:42 PM | |
| AP6K9W- 5562 | 01/08/2019 14:42:50 +1:0 | 0 |
| C97GKM- 5561 | 01/14/2019 06:14:13 PM | |
| CMBD4P- 5561 | 01/15/2019 03:35:05 PM | |
| CPHTCG- 5561 | 01/14/2019 06:14:13 PM | |
| D9NRUF- 5562 | 01/14/2019 08:09:42 PM | |
| EP84ZE- 5562 | 01/14/2019 20:09:42 UTC | |
| H6CDEC- 5561 | 01/15/2019 03:05:22 PM | |
| J3ZUA9- 5561 | 01/14/2019 08:15:09 PM | |
| JLWJ4G- 5562 | 01/14/2019 06:14:13 PM | |
| K3E3B9- 5561 | 01/14/2019 08:15:06 PM. (| "\Windows\System32\config\"), it has been found by its serial number |
| L6WGE9- 5561 | 01/14/2019 08:14:13 PM | |
| MUUH6E- 5561 | 01/14/2019 08:15:06 PM | |
| NBXF34- 5561 | 01/14/2019 08:15:09 PM | |
| NFT79E- 5562 | 01/14/2019 21:12:17 | |
| NMCAFG- 5561 | 01/14/2019 08:15:06 PM | |
| Q2K3Y6- 5562 | 01/14/2019 3:12:28 PM | |
| QL9NG8- 5561 | 01/14/2019 06:14:13 PM | |
| QVYAM6- 5562 | I am unable to provide the an | swer due to my answer to question 25. 01/14/2019 20:09:42 |
| RTPJX2- 5561 | 01/14/2019 08:15:06 PM | |

| Question | : 26 Category: External Media |
|-----------------|--|
| WebCode | Response ** Inconsistencies not highlighted; No consensus achieved ** |
| V292YY- 5561 | Last removal date and time - 01/14/2019 08:15:09 PM UTC |
| WJ4UKW- 5561 | FTK Registry Viewer displays 01/14/2019 20:09:45 PM UTC |
| X4PZAY- 5562 | 1/15/2019 3:43:30 PM |
| XDC2Q9- 5561 | 01/14/2019 06:14:13 PM |
| XE36GV- 5561 | 01/14/2019 8:15:06 (last connection date/time) |
| YN48YX- 5562 | 1/15/2019 3:43:30 PM |
| YUVEG7- 5561 | 01/14/2019 08:09:42 PM. |
| ZMBJCV- 5562 | 01/15/2019 03:05:22 PM |

Question 26: Provide the last write time for device named "Give Away 2018". Provide the answer in the UTC + 00:00 using the following format: MM/DD/YYYY HH:MM:SS AM/PM.

Consensus Result: A consensus response was not achieved. The objective was to identify the last write time of the USB device "Give Away 2018". The expected response was 01/14/2019, 08:09:45 PM.

Expected Response Explanation:

Information regarding the last write time for the device named "Give Away 2018" can be found in the Software registry hive at the following location: Software\Microsoft\Windows Portable Devices\Devices.

Screen Shot:

Devices:

```
port_dev v.20090118
(Software) Parses Windows Portable Devices key (Vista)
RemovDev
Microsoft\Windows Portable Devices\Devices
LastWrite Time Tue Jan 15 15:02:55 2019 (UTC)

Device : DISK&VEN_GENERIC&PROD_FLASH_DISK&REV_8.07
LastWrite : Mon Jan 14 20:09:45 2019 (UTC)

SN : 0DCDD820&0
Drive : Give Away 2018
```

Other Responses:

Six participants reported the expected date but the time of 08:09:42 PM which is associated with the device parameters last write time.

Device Parameters LastWrite:

```
USBStor
ControlSet001\Enum\USBStor
Disk&Ven Generic&Prod Flash Disk&Rev 8.07 [Tue Jan 15 15:02:54 2019]
S/N: ODCDD020&0 [Mon Jan 14 20:09:42 2019]
Device Parameters LastWrite: [Mon Jan 14 20:09:42 2019]
Properties LastWrite : [Mon Jan 14 20:09:43 2019]
FriendlyName : Generic Flash Disk USB Device
S/N: 3C9AC486&0 [Tue Jan 15 15:02:54 2019]
Device Parameters LastWrite: [Tue Jan 15 15:02:54 2019]
Properties LastWrite : [Tue Jan 15 15:02:54 2019]
FriendlyName : Generic Flash Disk USB Device
```

Question: 27 Category: External Media

Question 27: What drive letter was assigned to the last mounted USB drive?

Manufacturer's Expected Response: E:

| WebCode | Response |
|-----------------|---|
| 32LYBW- 5562 | E |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | E |
| 682GJP- 5562 | E |
| 6Z4RZY- 5561 | E |
| 9LB7BM- 5562 | E |
| AP6K9W- 5562 | E |
| C97GKM- 5561 | E |
| CMBD4P- 5561 | E |
| CPHTCG- 5561 | E: |
| D9NRUF- 5562 | E |
| EP84ZE- 5562 | E: |
| H6CDEC- 5561 | E: |
| J3ZUA9- 5561 | E: |
| JLWJ4G- 5562 | E |
| K3E3B9- 5561 | E. ("Windows\System32\config\SYSTEM") – ("Windows\INF\setupapidev.log") |
| L6WGE9- 5561 | E |
| MUUH6E- 5561 | E: |
| NBXF34- 5561 | E: |
| NFT79E- 5562 | E : |
| NMCAFG- 5561 | E |
| Q2K3Y6- 5562 | E |
| QL9NG8- 5561 | E |
| QVYAM6- 5562 | E |
| RTPJX2- 5561 | E: |

| Question | : 27 | Category: External Media |
|-----------------|----------|--------------------------|
| WebCode | Response | |
| V292YY- 5561 | E | |
| WJ4UKW- 5561 | E: | |
| X4PZAY- 5562 | E | |
| XDC2Q9- 5561 | Е | |
| XE36GV- 5561 | E:\ | |
| YN48YX- 5562 | E | |
| YUVEG7- 5561 | letter E | |
| ZMBJCV- 5562 | "E" | |

Question 27: What drive letter was assigned to the last mounted USB drive?

Consensus Result: E:

Expected Response Explanation:

Information regarding what drive was assigned to the last mounted USB device can be sourced from the System registry hive within the MountedDevices subkey.

Screen Shot: Mounted Devices:

| Name | Friendly Name | Vendor | Product | Serial Number | Last Mapped Drive | User Account | Last Connected Date |
|--------------------|-----------------------|---------|------------|------------------|----------------------|-----------------|------------------------|
| Generic Flash Disk | Generic Flash Disk US | Generic | Flash_Disk | 0DCDD820&0 | _ | Morgan Chen | 01/14/19 03:15:06 PM |
| Generic Flash Disk | Generic Flash Disk US | Generic | Flash_Disk | 3C9AC486&0 | E: | Morgan Chen | 01/15/19 10:35:05 AM |

Question: 28 Category: External Media

Question 28: What is the install date and time of the last mounted device? Provide the answer in the UTC + 00:00 using the following format: MM/DD/YYYY HH:MM:SS AM/PM.

Manufacturer's Expected Response: 01/15/2019 03:02:54 PM

| WebCode | Response |
|-----------------|---|
| 32LYBW- 5562 | 1/15/2019 3:02:54 PM |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | 01/15/2019 03:02:54 PM |
| 682GJP- 5562 | 01/15/2019 03:02:55 PM |
| 6Z4RZY- 5561 | 01/15/2019 03:02:54 PM |
| 9LB7BM- 5562 | 01/15/2019 03:02:54 PM |
| AP6K9W- 5562 | 01/15/2019 15:02:54 +1:00 |
| C97GKM- 5561 | 01/15/2019 03:02:54 PM |
| CMBD4P- 5561 | 01/15/2019 03:02:54 PM |
| CPHTCG- 5561 | 01/15/2019 03:02:54 PM |
| D9NRUF- 5562 | 01/15/2019 03:02:54 PM |
| EP84ZE- 5562 | 01/15/2019 15:02:54 UTC |
| H6CDEC- 5561 | 1/15/2019 03:02:54 PM |
| J3ZUA9- 5561 | 01/15/2019 03:02:54 PM |
| JLWJ4G- 5562 | 01/15/2019 03:02:54 PM |
| K3E3B9- 5561 | Install date 01/15/2019 03:02:54 PM, last mounted device date 01/15/2019 03:35:05 PM. ("Windows\System32\config\SYSTEM") – ("Windows\INF\setupapidev.log"). |
| L6WGE9- 5561 | 01/05/19 03:35:05 PM |
| MUUH6E- 5561 | 01/15/2019 03:02:54 PM |
| NBXF34- 5561 | 01/15/2019 03:02:54 PM |
| NFT79E- 5562 | 01/15/2019 15:02:54 PM |
| NMCAFG- 5561 | 01/15/2019 03:02:54 PM |
| Q2K3Y6- 5562 | 01/15/2019 10:02:54 AM |
| QL9NG8- 5561 | 01/15/2019 03:02:54 |
| QVYAM6- 5562 | 1/15/2019 15:02:54 PM |
| RTPJX2- 5561 | 01/15/2019 03:02:54 PM |

| Question | : 28 | Category: External Media |
|-----------------|----------------------------|--------------------------|
| WebCode | Response | |
| V292YY- 5561 | 01/15/2019 03:02:54 PM UTC | |
| WJ4UKW- 5561 | 01/15/2019 15:02:54 PM UTC | |
| X4PZAY- 5562 | 1/15/2019 3:02:54 PM | |
| XDC2Q9- 5561 | 01/15/2019 15:35:05 PM | |
| XE36GV- 5561 | 01/15/2019 10:02:54 AM | |
| YN48YX- 5562 | 1/15/2019 3:02:54 PM | |
| YUVEG7- 5561 | 01/15/2019 03:02:54 PM. | |
| ZMBJCV- 5562 | 01/15/2019 03:02:54 PM | |

Question 28: What is the install date and time of the last mounted device? Provide the answer in the UTC + 00:00 using the following format: MM/DD/YYYY HH:MM:SS AM/PM.

Consensus Result: 01/15/2019 03:02:54 PM

Expected Response Explanation:

Information regarding the install date/time of the last mounted device can be sourced from the System registry hive within the DeviceClasses subkey.

Screen Shot: Device Classes:

Device Classes: devclass v.20130630 (System) Get USB device info from the DeviceClasses keys in the System hive DevClasses - Disks ControlSet001\Control\DeviceClasses\{53f56307-b6bf-11d0-94f2-00a0c91efb8b} Tue Jan 15 15:02:54 2019 (UTC) Disk&Ven_Generic&Prod_Flash_Disk&Rev_8.07,3C9AC486&0 Mon Jan 14 20:09:42 2019 (UTC) Disk&Ven_Generic&Prod_Flash_Disk&Rev_8.07,0DCDD820&0 DevClasses - Volumes ControlSet001\Control\DeviceClasses\{53f5630d-b6bf-11d0-94f2-00a0c91efb8b}

Question: 29 Category: External Media

Question 29: Provide the manufacturer's name of the last mounted device.

<u>Manufacturer's Expected Response</u>: Alcor Micro Corp.

| WebCode | ** Inconsistencies not highlighted; No consensus achieved ** |
|-----------------|--|
| 32LYBW- 5562 | Generic |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | Generic |
| 682GJP- 5562 | Generic |
| 6Z4RZY- 5561 | Alcor Micro Corp. |
| 9LB7BM- 5562 | Alcor Micro Corp. |
| AP6K9W- 5562 | Generic Flash Disk USB Device |
| C97GKM- 5561 | Generic |
| CMBD4P- 5561 | Standard disk drives |
| CPHTCG- 5561 | Generic |
| D9NRUF- 5562 | Alcor Micro Corp |
| EP84ZE- 5562 | Generic |
| H6CDEC- 5561 | Generic Device (no manufacturer) |
| J3ZUA9- 5561 | Generic |
| JLWJ4G- 5562 | Generic |
| K3E3B9- 5561 | $Genmanu facturer. \ ("Windows \ System 32 \setminus SYSTEM") - ("Windows \setminus INF \setminus Setupapidev.log")$ |
| L6WGE9- 5561 | Generic Flash Disk USB Device |
| MUUH6E- 5561 | Generic |
| NBXF34- 5561 | Generic |
| NFT79E- 5562 | Standard USB HUB |
| NMCAFG- 5561 | Alcor Micro Corp. |
| Q2K3Y6- 5562 | Generic Mfg Compatible USB storage Device |
| QL9NG8- 5561 | Standard disk drives |
| QVYAM6- 5562 | Standard disk drive |
| RTPJX2- 5561 | Generic |

| Question | : 29 Category: External Media |
|-----------------|--|
| WebCode | Response ** Inconsistencies not highlighted; No consensus achieved ** |
| V292YY- 5561 | Vendor ID - VID_058F. Product ID - PID_6387. Vendor ID lookup - Alcor Micro Corp. Product ID lookup - Flash Drive Windows indicates the USB device is a generic flash drive, and uses the friendly name of "Generic Flash Disk USB Device" |
| WJ4UKW- 5561 | generic manufacturer |
| X4PZAY- 5562 | Standard disk drives |
| XDC2Q9- 5561 | Generic |
| XE36GV- 5561 | Generic |
| YN48YX- 5562 | Standard disk drives |
| YUVEG7- 5561 | Generic |
| ZMBJCV- 5562 | "Alcor Micro, Corp." |

Question 29: Provide the manufacturer's name of the last mounted device.

Consensus Result: A consensus was not achieved. The objective of this question was to use the Vendor ID to search the internet for the manufacturer of the device. The expected response was Alcor Micro Corp.

Expected Response Explanation:

The manufacturer's name can be obtained using the Vendor ID 058f and searching the internet for the manufacturer associated with this Vendor ID.

Screen Shot: USBSTOR:

| usb v.20141111 |
|---|
| (System) Get USB key info |
| USBStor |
| ControlSet001\Enum\USB |
| VID_058F&PID_6387 [Tue Jan 15 15:02:53 2019] |
| S/N: ODCDD820 [Mon Jan 14 20:09:42 2019] |
| Device Parameters LastWrite: [Mon Jan 14 20:09:42 2019] |
| Properties LastWrite : [Mon Jan 14 20:09:45 2019] |
| S/N: 3C9AC486 [Tue Jan 15 15:02:54 2019] |
| Device Parameters LastWrite: [Tue Jan 15 15:02:54 2019] |
| Properties LastWrite : [Tue Jan 15 15:02:54 2019] |

Internet Search:

| Туре | Value |
|--------------|---------------------|
| Date/Time | 2019-01-15 10:02:54 |
| Device Make | Alcor Micro Corp. |
| Device Model | Flash Drive |
| Device ID | 3C9AC486 |

Other Responses:

A majority of participants reported Generic as the manufacturer's name.

| Name | Generic Flash Disk USB Device |
|---------------------|-------------------------------|
| Friendly Name | Generic Flash Disk USB Device |
| Vendor | Generic |
| Product | Flash_Disk |
| Serial Number | 3C9AC486&0 |
| Last Mapped Drive | E: |
| User Account | Morgan Chen |
| Last Connected Date | 01/15/19 10:35:05 AM |

Question: 30 Category: Removable Media 19-5562

Question 30: What is the MD5 of the imaged drive?

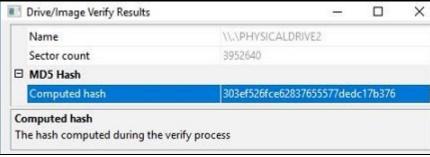
Manufacturer's Expected Response: 303ef526fce62837655577dedc17b376

| WebCode | Response |
|-----------------|--|
| 32LYBW- 5562 | C30D54185823F53464ACADCF59F19239 |
| 3VUW4Q- 5562 | 303ef526fce62837655577dedc17b376 |
| 4RQFAT- 5562 | 303ef526fce62837655577dedc17b376 |
| 682GJP- 5562 | 303ef526fce62837655577dedc17b376 |
| 9LB7BM- 5562 | 303ef526fce62837655577dedc17b376 |
| AP6K9W- 5562 | 303efj26fce62837655577dedc17b376 |
| D9NRUF- 5562 | 30BAB5A372D48C82E8597559677BDAD9. NOTE: Thumb drive received suspected to be faulty/beginning to fail. Hash changes every time the drive is re-imaged or hashed (connected via verified writeblocking device). Hash above is from the first image taken. Image verified successfully. X-Ways reports inconsistent read error when accessing the thumb drive. |
| EP84ZE- 5562 | 303EF526FCE62837655577DEDC17B376 |
| JLWJ4G- 5562 | 303EF526FCE62837655577DEDC17B376 |
| NFT79E- 5562 | MD5: 303ef526fce62837655577dedc17b376 |
| Q2K3Y6- 5562 | 303ef526fce62837655577dedc17b376 |
| QVYAM6- 5562 | 303ef526fce62837655577dedc17b376 |
| X4PZAY- 5562 | 303EF526FCE62837655577DEDC17B376 |
| YN48YX- 5562 | 303ef526fce62837655577dedc17b376 |
| ZMBJCV- 5562 | 303ef526fce62837655577dedc17b376 |

Consensus Result: 303ef526fce62837655577dedc17b376

<u>Expected Response Explanation:</u>
This hash value can be calculated using a forensic tool.

Screen Shot: MD5 Hash Value:



Question: 31 Category: Removable Media 19-5562

Question 31: What file system(s) is utilized on this drive?

Manufacturer's Expected Response: FAT16

| | Response |
|-----------------|---|
| 32LYBW- 5562 | FAT16 |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | FAT16 |
| 682GJP- 5562 | FAT16 |
| 9LB7BM- 5562 | FAT16 |
| AP6K9W- 5562 | Microsoft FAT 16 |
| D9NRUF- 5562 | FAT16 |
| EP84ZE- 5562 | FAT16 |
| JLWJ4G- 5562 | FAT16 |
| NFT79E- 5562 | FAT16 |
| Q2K3Y6- 5562 | FAT16 |
| QVYAM6- 5562 | FAT16 |
| X4PZAY- 5562 | FAT16 |
| YN48YX- 5562 | FAT16 |
| ZMBJCV- 5562 | FAT16 |

Consensus Result: FAT16

<u>Expected Response Explanation</u>: Information regarding the file system utilized on this drive can be found as an encoded value in a partition table for the device.

Screen Shot: Device Partition:

| Volume | |
|---------------------|------------------------------|
| File System | FAT16 |
| Sectors per cluster | 64 |
| Bytes per sector | 512 |
| Total Sectors | 3,952,640 |
| Total Capacity | 2,023,456,768 Bytes (1.9 GB) |
| Total Clusters | 61,751 |
| Unallocated | 1,163,657,216 Bytes (1.1 GB) |
| Free Clusters | 35,512 |
| Allocated | 859,799,552 Bytes (820 MB) |
| Volume Name | RECIPE'S |
| Volume Offset | 0 |
| Drive Type | Removable |

Question: 32 Category: Removable Media 19-5562

Question 32: What is the vendor ID? Manufacturer's Expected Response: 058f

| WebCode | Response | ** Inconsistencies not highlighted; No consensus achieved ** |
|-----------------|-----------------------------|--|
| 32LYBW- 5562 | Generic | |
| 3VUW4Q- 5562 | [Participant did not return | results for this question.] |
| 4RQFAT- 5562 | 058f | |
| 682GJP- 5562 | 58F | |
| 9LB7BM- 5562 | 058F | |
| AP6K9W- 5562 | \$DISKWIPE | |
| D9NRUF- 5562 | 058F | |
| EP84ZE- 5562 | 058F | |
| JLWJ4G- 5562 | 058F | |
| NFT79E- 5562 | 058F | |
| Q2K3Y6- 5562 | 058F | |
| QVYAM6- 5562 | 058F | |
| X4PZAY- 5562 | 13D7 | |
| YN48YX- 5562 | 13D7 | |
| ZMBJCV- 5562 | 058F | |

Consensus Result: A consensus response was not achieved. The objective was to identify and report the vendor ID for the USB. A majority of participants reported the expected response of 058f.

<u>Expected Response Explanation</u>: Information regarding the vendor ID is located in the System registry hive in the USBSTOR subkey.

Screen Shot: USBSTOR:

| Serial Number | Created Date | Last Plug/Unplug Date | VendorID | ProductID |
|------------------|--------------------|--------------------------|----------|-----------|
| 3C9AC486 | 1/25/2019 03:07 AM | 1/25/2019 03:54 PM | 058f | 6387 |

Question: 33 Category: Removable Media 19-5562

Question 33: What is the product ID?

Manufacturer's Expected Response: 6387

| WebCode | Response | ** Inconsistencies not highlighted; No consensus achieved ** |
|-----------------|--------------------|--|
| 32LYBW- 5562 | Flash_Disk | |
| 3VUW4Q- 5562 | [Participant did r | not return results for this question.] |
| 4RQFAT- 5562 | 6387 | |
| 682GJP- 5562 | 6387 | |
| 9LB7BM- 5562 | 6387 | |
| AP6K9W- 5562 | - | |
| D9NRUF- 5562 | 9380 | |
| EP84ZE- 5562 | 6387 | |
| JLWJ4G- 5562 | 6387 | |
| NFT79E- 5562 | 6387 | |
| Q2K3Y6- 5562 | 6387 | |
| QVYAM6- 5562 | 3687 | |
| X4PZAY- 5562 | 0014 | |
| YN48YX- 5562 | 0014 | |
| ZMBJCV- 5562 | 6387 | |

Consensus Result: A consensus result was not achieved. The objective of this question was to identify the product ID for the USB titled "Recipe's". A majority of participants reported the expected response of 6387.

Expected Response Explanation:

Information regarding the product ID of the removable media is located in the System registry hive in the USBSTOR subkey.

Screen Shot: USBSTOR:

| Serial Number | Created Date | Last Plug/Unplug Date | VendorID | ProductID |
|------------------|--------------------|--------------------------|----------|-----------|
| 3C9AC486 | 1/25/2019 03:07 AM | 1/25/2019 03:54 PM | 058f | 6387 |

Question: 34 Category: Removable Media 19-5562

Question 34: How many JPG images were stored in the "Family Pictures" folder?

Manufacturer's Expected Response: Eight (8)

| | Response |
|-----------------|---|
| 32LYBW- 5562 | 8 |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | Eight (08) |
| 682GJP- 5562 | 8 |
| 9LB7BM- 5562 | 8 |
| AP6K9W- 5562 | 9 |
| D9NRUF- 5562 | 8 |
| EP84ZE- 5562 | 8 Jpgs, 8 Thumbnails |
| JLWJ4G- 5562 | 8 |
| NFT79E- 5562 | 8 |
| Q2K3Y6- 5562 | 8 |
| QVYAM6- 5562 | Eight |
| X4PZAY- 5562 | 8 |
| YN48YX- 5562 | 8 |
| ZMBJCV- 5562 | 8 |
| | D 1. F: 1. (0) |

Consensus Result: Eight (8)

Expected Response Explanation:

Information regarding how many jpg images were stored in the "Family Pictures" folder can be found within the Removable Media folder, under the Family Pictures folder.

Screen Shot: Family Pictures Folder:

| | Name | File Ext |
|---|---------------------|-------------|
| 1 | Baby Boy.jpg | jpg |
| 2 | ■ Beach.jpg | jpg |
| 3 | Black and White.jpg | jpg |
| 4 | Family.jpg | jpg |
| 5 | Farm House.jpg | jpg |
| 6 | ☑ Home.jpg | jpg |
| 7 | Kids.jpg | jpg |
| 8 | Lake.jpg | jpg |

Question: 35 Category: Removable Media 19-5562

Question 35: Were the images found in the "Family Pictures" folder accessed using the computer hard drive? Yes/No

Manufacturer's Expected Response: Yes

| 32LYBW- Yes 5562 3VUW4Q- [Participant did not return results for this question.] 5562 4RQFAT- Yes 5562 682GJP- Yes 5562 9LB7BM- Yes 5562 AP6K9W- 5562 | |
|--|--|
| 5562 4RQFAT- Yes 5562 682GJP- Yes 5562 9LB7BM- Yes 5562 AP6K9W- no | |
| 5562 682GJP- Yes 5562 9LB7BM- Yes 5562 AP6K9W- no | |
| 5562 9LB7BM- Yes 5562 AP6K9W- no | |
| 5562 AP6K9W- no | |
| | |
| | |
| D9NRUF- Yes 5562 | |
| EP84ZE- Yes 5562 | |
| JLWJ4G- Yes 5562 | |
| NFT79E- Yes 5562 | |
| Q2K3Y6- Yes 5562 | |
| QVYAM6- Yes 5562 | |
| X4PZAY- Yes 5562 | |
| YN48YX- Yes 5562 | |
| ZMBJCV- Yes 5562 | |

Consensus Result: Yes

Expected Response Explanation:

Information regarding images within the "Family Pictures" folder can be found at the following location:

Screen Shot:

Recent Docs:

```
recentdocs v.20100405
(NTUSER.DAT) Gets contents of user's RecentDocs key
*All values printed in MRUList\MRUListEx order.
oftware\Microsoft\Windows\CurrentVersion\Explorer\RecentDoc
astWrite Time Tue Jan 15 15:09:27 2019 (UTC)
 20 = Julie_Chen - LastWill.docx
 21 = RECIPE'S (E:)
 12 - Family Pictures
 19 = Lake.jpg
 18 = Kids.jpg
 17 = Home.jpg
 16 = Farm House.jpg
 15 = Family.jpg
 14 = Black and White.jpg
 13 = Beach.jpg
 11 = Baby Boy.jpg
```

Question: 36 Category: Removable Media 19-5562

Question 36: Provide the volume label of the device.

Manufacturer's Expected Response: Recipe's

| | Pospense: Recipe's |
|-----------------|---|
| | Response |
| 32LYBW- 5562 | RECIPE'S |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | RECIPE'S |
| 682GJP- 5562 | RECIPE'S |
| 9LB7BM- 5562 | RECIPE'S |
| AP6K9W- 5562 | GENERIC |
| D9NRUF- 5562 | RECIPE'S |
| EP84ZE- 5562 | RECIPE'S |
| JLWJ4G- 5562 | RECIPE'S |
| NFT79E- 5562 | RECIPE'S |
| Q2K3Y6- 5562 | E |
| QVYAM6- 5562 | RECIPE'S |
| X4PZAY- 5562 | RECIPE'S |
| YN48YX- 5562 | RECIPE'S |
| ZMBJCV- 5562 | RECIPE'S Para la Davida la |

Consensus Result: Recipe's

<u>Expected Response Explanation</u>: Information regarding the volume label of the device can be found at the following location:

Software\Microsoft\Windows Portable Devices\Devices

Screen Shot:

Device Information:

| ☐ File System Information | |
|---------------------------|-----------|
| Cluster Size | 32,768 |
| Cluster Count | 61,751 |
| Free Cluster Count | 35,512 |
| Volume Label | RECIPE'S |
| Volume Serial Number | C80E-E39B |
| UTC Timestamps | False |

Question: 37 Category: Removable Media 19-5562

Question 37: When was the file "Julie_Chen - LastWill.docx" last modified? Provide the answer in the UTC + 00:00 using the following format: MM/DD/YYYY HH:MM:SS AM/PM.

Manufacturer's Expected Response: 01/11/2019 08:58:00 PM

| WebCode | Response ** In | consistencies not highlighted; No consensus achieved ** |
|-----------------|---|---|
| 32LYBW- 5562 | 1/11/2019 3:58:00 PM | |
| 3VUW4Q- 5562 | [Participant did not return results for | or this question.] |
| 4RQFAT- 5562 | 01/11/2019 10:58:00 AM | |
| 682GJP- 5562 | 01/11/2019 08:57:00 PM | |
| 9LB7BM- 5562 | 01/11/2019 08:57:00 PM | |
| AP6K9W- 5562 | 01/11/2019 15:58 +1:00 | |
| D9NRUF- 5562 | 01/11/2019 08:58:00 PM NOTE | : Internal modified d/t metadata from the .docx file is 01/11/2019 08:57:00 PM |
| EP84ZE- 5562 | | 11/2019 15:58:00 local time), if file was modified in EST. FAT file system does not ed date exists on copy of file located on desktop of computer image file. |
| JLWJ4G- 5562 | 01/11/2019 08:58:00 PM | |
| NFT79E- 5562 | 01/11/2019 14:58:00 PM | |
| Q2K3Y6- 5562 | 01/11/2019 03:58:00 PM | |
| QVYAM6- 5562 | 01/11/2019 20:58:00 PM | |
| X4PZAY- 5562 | 1/11/2019 9:58:00 PM | |
| YN48YX- 5562 | 1/11/2019 9:58:00 PM | |
| ZMBJCV- 5562 | 01/11/2019 05:58:00 AM | |

Consensus Result: A consensus result was not achieved. The objective was to provide the last modified date and time for the specified document in UTC+00:00. The date was consistent for all participants and the majority of participants reported 58 minutes 00 seconds but the hours varied. The expected response was 01/11/2019 08:58:00PM.

Expected Response Explanation:

Information regarding when the specified file was last modified can be found at the following location: C:\Users\Morgan Chen\Desktop\Julie Chen - LastWill.docx

Screen Shot:

Document Information:

| Name | Julie_Chen - LastWill.docx |
|--------------------|----------------------------|
| File Ext | docx |
| Logical Size | 19,652 |
| Category | Document |
| Signature Analysis | Match |
| File Type | Microsoft Word 2007-2010 |
| Last Accessed | 01/15/19 10:08:45 AM |
| File Created | 01/15/19 10:08:45 AM |
| Last Written | 01/11/19 03:58:00 PM |

Question: 38 Category: Removable Media 19-5562

Question 38: Based on your investigation, does this device have any connection with the computer hard drive evidence? Yes/No

Manufacturer's Expected Response: Yes

| | ers Expecied Response. Tes |
|-----------------|---|
| WebCode | Response |
| 32LYBW- 5562 | Yes |
| 3VUW4Q- 5562 | [Participant did not return results for this question.] |
| 4RQFAT- 5562 | Yes |
| 682GJP- 5562 | Yes |
| 9LB7BM- 5562 | No |
| AP6K9W- 5562 | Yes |
| D9NRUF- 5562 | Yes |
| EP84ZE- 5562 | Yes |
| JLWJ4G- 5562 | Yes |
| NFT79E- 5562 | Yes |
| Q2K3Y6- 5562 | Yes |
| QVYAM6- 5562 | Yes |
| X4PZAY- 5562 | Yes |
| YN48YX- 5562 | Yes |
| ZMBJCV- 5562 | Yes Provide V |

Consensus Result: Yes

<u>Expected Response Explanation</u>:
This USB device is connected to the computer hard drive evidence.

Additional Comments

TABLE 2

| WebCode | Additional Comments | |
|---------|---|--|
| 3VUW4Q | Only the creation of a forensic image from the USB was performed. MD5 submitted. | |
| D9NRUF | As stated previously, the thumb drive received suspected to be faulty/beginning to fail. It is possible some of my findings may have been impacted (particularly the hash). | |
| J3ZUA9 | Question 26 is a weird wording and doesn't give enough information for what a "last write time" for a thumb drive would be applicable here. Last time the USB was inserted or removed versus actually accessing, changing, and saving a file on it. | |
| JLWJ4G | Some of the questions are ambiguous. | |
| K3E3B9 | Very interesting and useful | |
| NBXF34 | Question 26 was unclear as to what 'last write time' is referring to. Does that mean the last time a file was accessed/created on the USB or the last time the USB was accessed on the computer. | |
| NMCAFG | regarding question number 26 and due to the language difference: if "the last write time" means "last mounted time" then the answer is the one provided previously. if "the last write time" means "key properties last written time" then the answer is the following: 01/14/2019 08:09:42 PM. | |
| QVYAM6 | I did not fine the named "Give Away 2018". I also believe it depend on the Forensic use during the time or imaging can determine some answer. For question 11, I used AXIOM to exam recyle bin, there were only two files, then I used FTK, my go to tool to verify and I saw 11 files. Over all it was a good time. | |
| RTPJX2 | Due to the fact the questions are reduced to a tenth of a second it makes it difficult to know what date you want. It depends on where you pull the information from. It took me a great deal of time to try and guess what date/ time you wanted. I spent far more time trying to decipher where the most likely place the test creator pulled the information from and not where all the artifacts for the event would be found. On question 11 "How many files are in the Recycle Bin?" I have to guess if you want how many files are allocated to the Recycle Bin or how many user deleted files are in the Recycle Bin. On question 25 the device has two serial numbers associated with it. The device and volume serial number. 50/50 change I can guess what the test takes is considering associated with. On Question 26 "Provide the last write time for the device named "Give Away 2018". What do you mean by the last write time? Is this the last write to the registry, link file, Windows Log or but maybe you are talking about the last removal time at 8:15:09, last insertion 08:09:42 of or maybe the WPDBUSENUM key of 8:09:45. Maybe the Mount Points key of 08:15:06. On Question 28 what do you mean by mounted device? Is this a mounted storage device or other device like a USB hub? I selected USB storage device. Maybe the Windows install for the last USB that started on 1/15/19 at 3:02:54 and ended at 3:02:55? Maybe the last removal for this device at 3:43:30? | |

WebCode Additional Comments

V292YY

The test overall does a good job of satisfying proficiency for a digital examiner for Windows based computers. I would like to see questions better worded that there is less confusion to the intent rather than what may actually be present. For example, question #4 asked about the last shutdown of the computer; however, the proper way to ask the question would be the last known good shutdown, as an improper power loss will shutdown the computer, but not update the registry key appropriately. Additional questions that could use better clarification include #7, #8, #11, #21, and #25, which all lack an amount of specificity or make assumptions about the data based on the wording. So either more information should be established in the scenario or the questions should be better phrased.