

Network Forensics Report – CMP416 Digital Forensics 2

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Abstract

This report contains the findings of a forensic investigation on a series of packet capture (PCAP) files in relation to an international sporting competition corruption case. This report provides evidence that a suspect by the alias of “Kim Ill-Song” attempted to bribe several government officials in various countries to allow North Korea to host the sport “Chess Boxing” in Pyongyang. Sensitive files were also downloaded by a suspect, which were extracted and provided in this report. The suspect also attempted to hide data using obfuscation techniques such as image steganography and splitting image files into multiple files to cover their tracks.

Finally, this report finds that the suspect going by alias “Kim Ill-Song” may be a false alias and that the suspect arranged a meeting with a participant by the name of “Ann Dercover”.

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This report contains the detailed methodology and findings of an investigation carried out on packet capture (PCAP) files recovered in relation to an international sporting competition corruption case. These files were recovered in a forensically sound manner to ensure no data was accidentally lost or created during the investigation. This was done by creating and verifying the “sha1” hash of each file throughout the investigation using sha1sum which can be seen in Appendices – SHA-1 Hashes.

Tools Used

The tools used in this investigation were:

- sha1sum (die.net, n.d.)
- Wireshark (Wireshark Foundation, 2019a)
- Tshark (Wireshark Foundation, 2019b)
- Binwalk (Heffner, 2019)
- Python 3.7.4 (Python Software Foundation, 2019)
- VSCode (Microsoft, 2019)
- CyberChef (GCHQ, 2019)
- URL Decoder (Taylor, 2019)
- EarthPoint ExcelToKML (Earth Point, 2019)
- Google Earth (Google, 2019)
- Google Translate (Google, 2019)
- cat (Bellevue Linux, 2005)

Methodology & Findings

Capture 1

Information given to the forensic investigator indicated that the suspect downloaded files which contained important or sensitive information. Upon analysis, there were files transferred using the Server Messaging Block (SMB) protocol, a protocol commonly used to share file access between computers running Microsoft Windows that are on the same network or domain (Rouse, 2017), starting at packet 5857. The IP address of the suspect is also visible (172.29.1.23).

In packet 23844, the name of the user creating an SMB session can be seen as “fox-ws/test”.

5857 234.029929	172.29.1.23	172.29.1.255	BROWSER	243 Host Announcement FOX-W5. Workstation, Server, Print Queue Server, NT Workstation, Potential Browser, Backup Browser
5899 243.765968	172.29.1.23	172.29.1.20	SMB	213 Negotiate Protocol Request
5899 243.766459	172.29.1.20	172.29.1.23	SMB	143 Negotiate Protocol Response
5900 243.934327	172.29.1.23	172.29.1.20	SMB	162 Session Setup AndX Request, NTLMSSP_NEGOTIATE
5901 243.934826	172.29.1.20	172.29.1.23	SMB	319 Session Setup AndX Response, NTLMSSP_CHALLENGE, Error: STATUS_MORE_PROCESSING_REQUIRED
5903 244.118929	172.29.1.23	172.29.1.20	SMB	238 Session Setup AndX Request, NTLMSSP_AUTH, User: \
5904 244.118929	172.29.1.20	172.29.1.23	SMB	175 Session Setup AndX Response
5906 244.275556	172.29.1.23	172.29.1.20	SMB	136 Tree Connect AndX Request, Path: \\DOG-W5\IPC\$
5907 244.275811	172.29.1.20	172.29.1.23	SMB	114 Tree Connect AndX Response

Figure 1 – SMB packets

23844 642.004966	172.29.1.23	172.29.1.20	SMB	504 Session Setup AndX Request, NTLMSSP_AUTH, User: fox-ws\test
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Figure 2 – Name of user creating SMB

In packet 23917, the suspect accesses a complete list of all items in the victims home directory, and then accesses some of the directories in packet 24008, however, there is no evidence these files were downloaded in this packet capture. These can be seen in Appendices – Capture 1, SMB Directories Accessed.

Using Wireshark’s built-in object exporting tool it is possible to recover the files that were downloaded by the suspect. A list of objects can be seen in figure 3. The “desktop.ini” files are automatically created by SMB, meaning the item of interest in this list is “Documents.zip”.

Packet	Hostname	Content Type	Size	Filename
23854	\DOG-WS\IPC\$	PIPE (Not Implemented) (0/0) W [0.00%]	0 bytes	\svrsvc
23902	\DOG-WS\DOCUMENTS	FILE (129/129) R [100.00%]	129 bytes	\desktop.ini
23924	\DOG-WS\DOCUMENTS	FILE (151/151) R [100.00%]	151 bytes	\My Music\desktop.ini
23932	\DOG-WS\DOCUMENTS	FILE (150/150) R [100.00%]	150 bytes	\My Pictures\desktop.ini
23940	\DOG-WS\DOCUMENTS	FILE (151/151) R [100.00%]	151 bytes	\My Videos\desktop.ini
24021	\DOG-WS\DOCUMENTS	FILE (42/42) R [100.00%]	42 bytes	\My Pictures\Sample Pictures\desktop.ini
24186	\DOG-WS\BLAH	FILE (1324022/1324022) W [100.00%]	1,324 kB	\Documents.zip
25755	\DOG-WS\BLAH	FILE (1014/1324022) R [0.00%]	1,324 kB	\DOCUME~1.ZIP
25785	\DOG-WS\BLAH	FILE (5110/1324022) R [0.00%]	1,324 kB	\DOCUME~1.ZIP

Figure 3 – SMB Objects

This ZIP archive contains several files which contain various “.docx”, “.txt”, and “.jpg” files. The contents of each of these files can be seen in Appendices – Capture 1, Documents.zip. The “.docx” files in this ZIP archive were encoded in Base64 and were decoded using CyberChef. A copy of all decoded files can be seen in Appendices – Documents.zip Decoded. There is also a second ZIP archive named “untitled folder.zip” which contains several folders of the same name and one named “SilentEye”, all of which are empty.

untitled folder.zip\untitled folder\untitled folder\untitled folder 2\untitled folder\untitled folder			
Name	Size	Packed	Type
..			Local Disk
SilentEye			File folder

Figure 4 – “SilentEye” file

Using the tool “binwalk” on the file seen in Appendices – Documents.zip, Chess Boxing, NK.jpg shows that this image is a PNG file. No other evidence was discovered in this file.

root@kali:~/Desktop/network forensics/Documents/Chess Boxing# binwalk NK.jpg		
DECIMAL	HEXADECIMAL	DESCRIPTION
0 laced	0x0	PNG image, 1600 x 800, 8-bit/color RGBA, non-inter

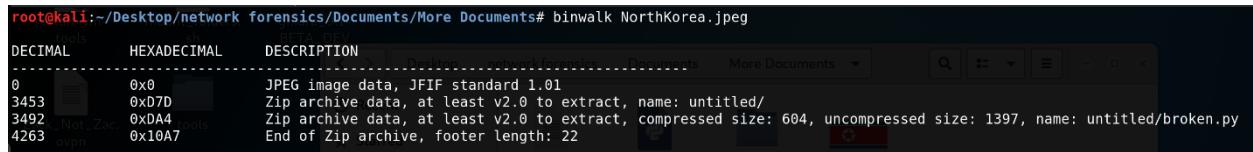
Figure 5 – Running binwalk on “NK.jpg”

The file seen in Appendices – Documents.zip, More Documents, NorthKorea.jpeg is significantly larger than expected for a jpeg file of the same resolution and colour depth.

Size: 4.18 KB (4,285 bytes)
Size on disk: 1.00 MB (1,048,576 bytes)

Figure 6 – “NorthKorea.jpeg” file size

Running binwalk on this file reveals a hidden ZIP archive named “untitled.zip” containing “broken.py”, a file containing code written in Python which is incomplete. This file can be seen in Appendices – Documents.zip, broken.py, and a fixed version can be seen in Appendices – Documents.zip, fixed.py.



DECIMAL	HEXADECIMAL	DESCRIPTION
0	0x0	JPEG image data, JFIF standard 1.01
3492	0xD7D	Zip archive data, at least v2.0 to extract, name: untitled/
4263	0xDA4	Zip archive data, at least v2.0 to extract, compressed size: 604, uncompressed size: 1397, name: untitled/broken.py
	0x10A7	End of Zip archive, footer length: 22

Figure 7 – “NorthKorea.jpeg” binwalk

Capture 2

Information passed to the forensic investigator relating to this packet capture suggested that the suspect was using an Internet Relay Chat (IRC) chat service to discuss bribes with government officials. Using Wireshark, the traffic in the packet capture was filtered for IRC packets. This revealed a series of messages between the suspect, using the alias “Kim Ill-Song”, and a number of government officials.

The messages were encoded using Base64 or Base32, and most used a second form of encoding to further obfuscate the messages. The messages were saved to a file using the following command, then stripped of Base64 and Base32 encoding where applicable using a Python script which can be viewed in Appendices – Capture 2, IRC_Script.py.

```
tshark -r 'Capture 2.pcap' -q -z follow,tcp,ascii,0 | grep -i privmsg
```

Some remaining messages were encoded in formats other than Base64 & Base32 in formats including Hex and Octal. These were decoded manually using CyberChef. A full copy of the decoded messages can be seen in Appendices – Capture 2, Decoded Messages.

The first set of messages are sent to the alias “Razor1”. The messages reveal the user accepting a bribe of \$700,000 from the alias “Ill_Song”. The messages also refer getting “Razor1” out of “the city of love”, which is a phrase commonly used to describe the city of Paris. Therefore, this must be where the official is currently residing.

The next set of messages recovered are to an official using the alias “Genius1”. In this conversation, we see that “Ill_Song” offers to come and visit the official. The city name was encoded using an MD5 hash and was cracked by searching for the hash on Google, which was found to be the city of Caracas, the capital of Venezuela. The official then replies with “No. Not here” revealing that Caracas is their current location. They then agree to move to a “more secure form of communication”. No further messages were recovered.

The next user the suspect interacts with uses the alias “Method”. Here the suspect attempts to bribe the official, however, is turned away, with the last message sent by the official stating “Do not speak to me again.”

The suspect then goes on to interact with an official using the alias “Killah”. The first message reveals that this official is located in Qatar as “Ill_Song” asks about the weather. The official then goes on to state that “We do not take kindly to this pathetic notion of bribery” and the conversation ends.

The final official, using alias “Raekwon”, states that they “won't be bought so easily”. He then goes on to state that he will need at least “20 million rubles” as a gift to “help make [their] decision as easy as possible”. There are currently only 2 countries in the world that use the Ruble as a national currency – Russia, and Belarus (Brittanica, n.d.). Since Belarus is a small country and spell the currency as “Rubel”, it is highly likely that this official resides in Russia.

Alias	Location	Accepted Bribe
Razor1	Paris, France	Yes
Genius1	Caracas, Venezuela	Unknown
Method	Unknown	No
Killah	Qatar	No
Raekwon	Russia	Yes

Figure 8 – Officials alias’, locations, and if they accepted the bribe

Capture 3

Intelligence provided to the forensic investigator suggested that a suspect transferred files to a corrupted official using the File Transfer Protocol (FTP). The first ZIP archive can be seen by filtering the packet capture for TCP stream 158, titled “sandofwhich.zip”. By saving the data from this TCP stream in a raw binary format, the ZIP archive transferred can be recovered using binwalk.

DECIMAL	HEXADECIMAL	DESCRIPTION
0	0x0	Zip archive data, at least v2.0 to extract, compressed size: 1070, uncompressed size: 1070, name: sandofwhich/destroy.jpg
1123	0x463	Zip archive data, at least v2.0 to extract, compressed size: 1070, uncompressed size: 1070, name: sandofwhich/for.jpg
2242	0x8C2	Zip archive data, at least v2.0 to extract, compressed size: 1070, uncompressed size: 1070, name: sandofwhich/freedom.jpg
3365	0xD5	Zip archive data, at least v2.0 to extract, compressed size: 1070, uncompressed size: 1070, name: sandofwhich/good.jpg
4485	0x1185	Zip archive data, at least v2.0 to extract, compressed size: 1070, uncompressed size: 1070, name: sandofwhich/government.jpg
5611	0x15EB	Zip archive data, at least v2.0 to extract, compressed size: 860, uncompressed size: 1070, name: sandofwhich/I.jpg
6518	0x1976	Zip archive data, at least v2.0 to extract, compressed size: 1070, uncompressed size: 1070, name: sandofwhich/in.jpg
7636	0x1DD4	Zip archive data, at least v2.0 to extract, compressed size: 5436, uncompressed size: 5436, name: sandofwhich/MSA.jpg
13121	0x3341	Zip archive data, at least v2.0 to extract, compressed size: 5436, uncompressed size: 5436, name: sandofwhich/rights.jpg
18699	0x48B1	Zip archive data, at least v2.0 to extract, compressed size: 5436, uncompressed size: 5436, name: sandofwhich/security.jpg
24770	0x60C2	End of Zip archive, footer length: 22

Figure 9 – binwalk of “sandofwhich.raw”

This ZIP archive contained several “.jpg” images, only 1 of which contained a valid “magic number” to start a JPEG file. From this it can be derived that the file was likely deconstructed into a series of smaller files that need to be put back together in order, much like a jigsaw puzzle.

The transfer of the second ZIP file can be seen in TCP stream 159, titled “ojd34.zip”. This file was also found to contain several more JPEG files.

DECIMAL	HEXADECIMAL	DESCRIPTION
0	0x0	Zip archive data, at least v2.0 to extract, compressed size: 1070, uncompressed size: 1070, name: ojd34/allow.jpg
1115	0x45B	Zip archive data, at least v2.0 to extract, compressed size: 1070, uncompressed size: 1070, name: ojd34/and.jpg
2228	0x8B4	Zip archive data, at least v2.0 to extract, compressed size: 1070, uncompressed size: 1070, name: ojd34/around.jpg
3344	0xD10	Zip archive data, at least v2.0 to extract, compressed size: 1070, uncompressed size: 1070, name: ojd34/basic.jpg
4459	0x116B	Zip archive data, at least v2.0 to extract, compressed size: 984, uncompressed size: 1051, name: ojd34/building.jpg
5491	0x1573	Zip archive data, at least v2.0 to extract, compressed size: 954, uncompressed size: 1070, name: ojd34/cant.jpg
6489	0x1959	Zip archive data, at least v2.0 to extract, compressed size: 1070, uncompressed size: 1070, name: ojd34/conscience.jpg
7609	0x1DB9	Zip archive data, at least v2.0 to extract, compressed size: 5436, uncompressed size: 5436, name: ojd34/terrorism.jpg
13094	0x3326	Zip archive data, at least v2.0 to extract, compressed size: 5436, uncompressed size: 5436, name: ojd34/Watergate.jpg
18579	0x4893	Zip archive data, at least v2.0 to extract, compressed size: 5436, uncompressed size: 5436, name: ojd34/web-based.jpg
24692	0x6074	End of Zip archive, footer length: 22

Figure 10 – binwalk of “ojd34.raw”

The words found in the filenames within the subdirectories of these ZIP archives closely match a quote by Edward Snowden.

“I can’t in good conscience allow the US government to destroy privacy, internet freedom and basic liberties for people around the world with this massive surveillance machine they’re secretly building.” – Edward Snowden (Greenwald, et al., 2013)

Using the Linux command line tool “cat”, these files can be stitched together by matching filenames to words in the quote. However, this outputted a corrupted or incomplete image suggesting there may be more files transferred that have not been recovered.

Further analysis of the packet capture revealed 3 more ZIP archives transferred via e-mail, titled “34jdsioj.zip”, “breaking_bad_season_6.zip”, and “canc3l.zip”. These were recovered from TCP stream 42, which was saved again in a raw binary format before running binwalk on the stream to extract the ZIP archives. These archives contained more JPEG images which helped to complete the quote. There were also 2 more valid JPEG files which started with the “magic number” for JPEG files, meaning there was likely 2 more images which were successfully reconstructed using the JPEG files extracted, along with the initial image which was reconstructed using the quote from Edward Snowden. The commands used to reconstruct these images and the reconstructed images can be seen in Appendices – Capture 3, Reconstructed Images.

Capture 4

Intelligence provided to the forensic investigator suggested that the suspect, alias “Kim Ill-Song”, was attempting to arrange a meeting with a participant in the competition, “Ann Dercover”. Analysis of the packet capture reveals SMS messages sent from a Nexus 7 device running Android 4.2.2 using the “Textfree” application which allows SMS messages to be sent from devices without a SIM card.

```
X-Install-Id: 6965eedb59a7b282f94dd58e7a451474\r\n
x-client: textfree-android,2.3.2\r\n
x-os: android,4.2.2\r\n
x-uid: 580781709\r\n
x-gid: 0\r\n
User-Agent: Dalvik/1.6.0 (Linux; U; Android 4.2.2; Nexus 7 Build/JDQ39E)\r\n
Host: ads.pinger.com\r\n
```

Figure 11 – Device Information

Messages sent can be seen in Appendices – Capture 4, SMS Messages. “Ann” asks “Kim Ill-Song” if they are aware that “people are investigating Kim Ill-Song?” to which they reply “Of course. However, they will never know it is me behind the bribes”. This suggests that “Kim Ill-Song” is impersonating a real person or is an alias. When “Ann” asks “who is this?” at the start of the conversation, the suspect replies “Castling”. This could be another alias or a nickname.

The message chain suggests that they are setting up a meeting in September at 5pm. When “Kim Ill-Song” asks “what day?”, “Ann” replies “I told you to pay attention” 7 minutes later. After this, there are no more messages.

Analysis of the packet capture between the penultimate and final messages shows a series of requests to the domain “mob.mapquestapi.com” which have co-ordinates in the URL in latitude, longitude format. The HTTP requests were outputted to a text file using the following command.

```
tshark -r 'Capture 4.pcap' -Y "http.host == mob.mapquestapi.com"
```

A Python script was written to strip the location data from the URL’s and save them into a CSV file. This script can be seen in Appendices – Capture 4, location_URL_decoder.py. The outputted “.csv” file can be seen in Appendices – Capture 4, locations.csv.

These locations were then converted into a KML file using Earth Point's "ExcelToKML" tool, which allowed the locations to be drawn on a map using Google Earth. This printed pins on streets in Salt Lake City, Utah, in the shape "17". This suggests they are meeting on September 17th at 5pm.

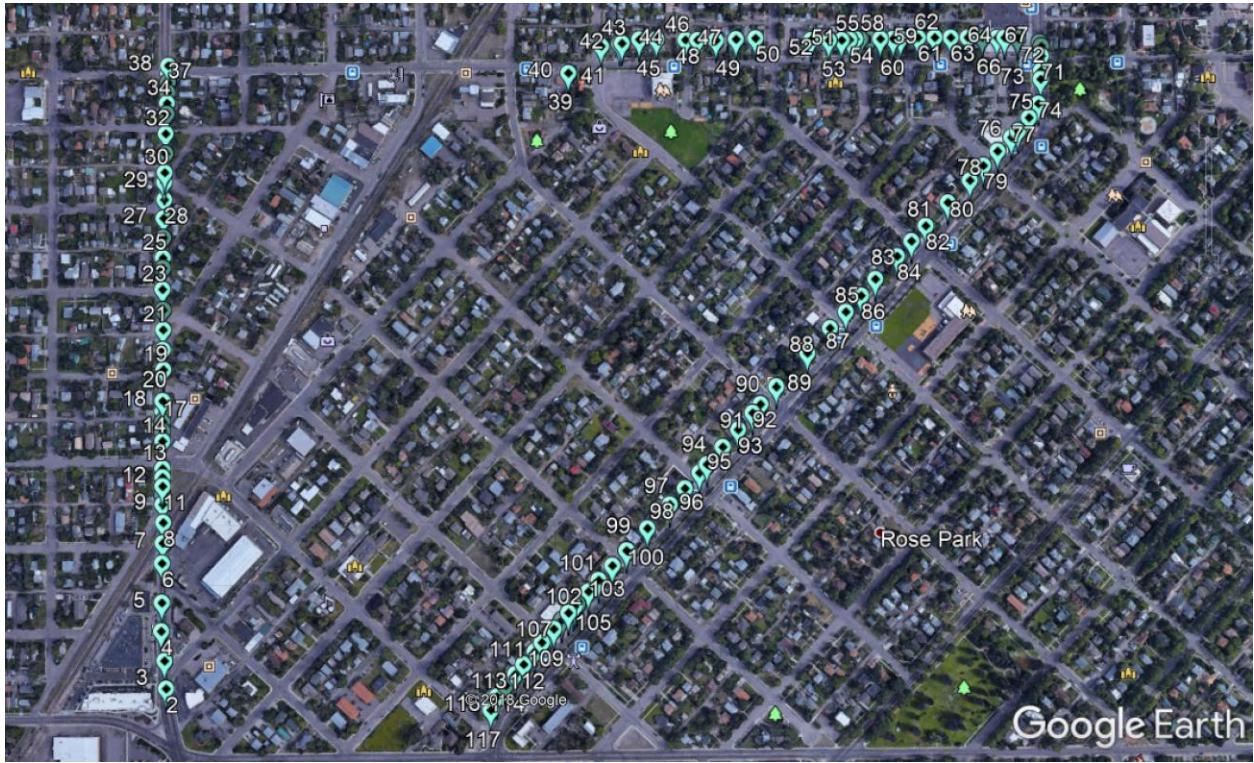


Figure 12 – Locations mapped out as pins on Google Earth

Other Findings

Encoded Phrase for fixed.py

Hidden within the image “reassembled.jpg” there was encoded data which could be extracted using the “SilentEye” software, named in Figure 4. Inputting this image and then using the default options gives the output seen below.

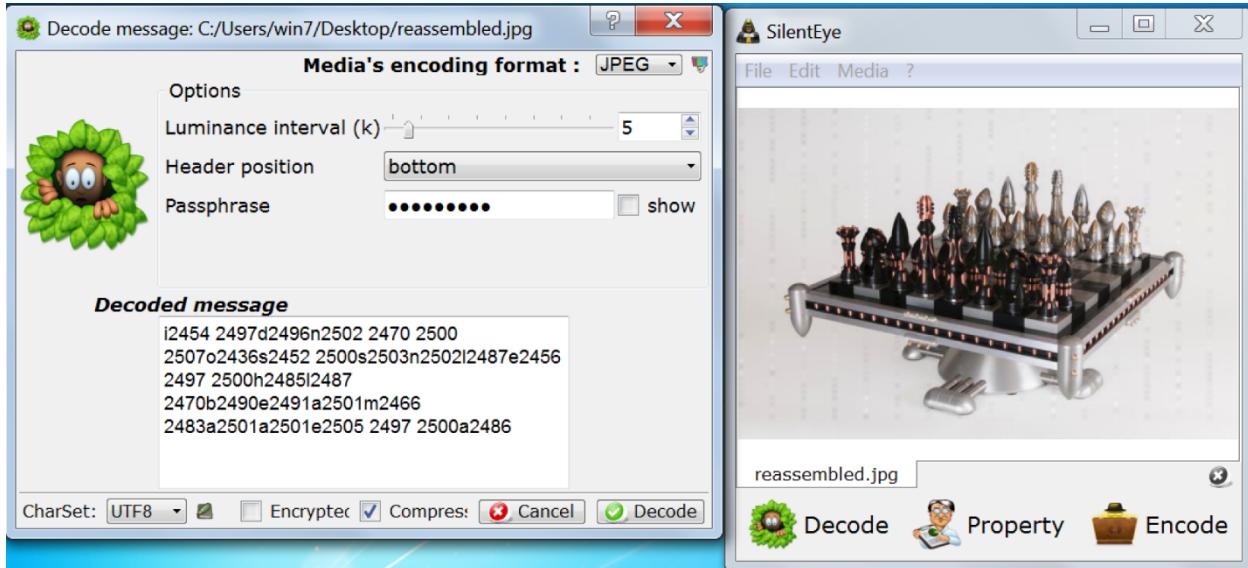


Figure 13 – String outputted by SilentEye

Using this encoded data in the “fixed.py” script, seen in Appendices – Capture 1, fixed.py, outputs the password “DontTry2BruteForceThisPassword”.

Docs.pcap

Within “Capture 1” there is an e-mail conversation between “snowedinedward@aol.com” and “wikiofleaks@aol.com”. In this e-mail conversation, a ZIP archive is transferred containing a file called “Docs.pcap”. Nothing of note was found in this packet capture file and it was deemed irrelevant to the investigation.

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Appendices

SHA-1 Hashes

File	SHA-1 Hash
<i>'Capture 1.pcap'</i>	b6d543e4b6463c31383142d2f2c66d4b2ad2757e
<i>'Capture 2.pcap'</i>	65409e915f815eeaeb8c4cc294af38db29f5d7df
<i>'Capture 3.pcap'</i>	0e2df5b49b70c2c903cd090efefe8be686e0dbe1
<i>'Capture 4.pcap'</i>	79f1c2fee4c7ee56a875736d6d33cfe8fcb7c13c

Capture 1

SMB Directories Accessed

23917 650.620648	172.29.1.20	172.29.1.23	SMB	402 Trans2 Response, FIND_FIRST2, Files: . . . Customer_Accounts desktop.ini drop folder larryea
23919 651.601860	172.29.1.23	172.29.1.20	SMB	186 NT Create AndX Request, FID: 0x4004, Path: \My Music\desktop.ini
23920 651.602359	172.29.1.20	172.29.1.23	SMB	193 NT Create AndX Response, FID: 0x4004
23921 651.602611	172.29.1.23	172.29.1.20	SMB	130 Trans2 Request, QUERY_FILE_INFO, FID: 0x4004, Query File Internal Info
23922 651.609853	172.29.1.20	172.29.1.23	SMB	126 Trans2 Response, FID: 0x4004, QUERY_FILE_INFO
23923 651.612359	172.29.1.23	172.29.1.20	SMB	117 Read AndX Request, FID: 0x4004, 151 bytes at offset 0
23924 651.658571	172.29.1.20	172.29.1.23	SMB	269 Read AndX Response, FID: 0x4004, 151 bytes
23925 651.684044	172.29.1.23	172.29.1.20	SMB	130 Trans2 Request, QUERY_FILE_INFO, FID: 0x4004, Query File Basic Info
23926 651.684298	172.29.1.20	172.29.1.23	SMB	158 Trans2 Response, FID: 0x4004, QUERY_FILE_INFO
23927 651.685298	172.29.1.23	172.29.1.20	SMB	192 NT Create AndX Request, FID: 0x4005, Path: \My Pictures\desktop.ini
23928 651.685542	172.29.1.20	172.29.1.23	SMB	193 NT Create AndX Response, FID: 0x4005
23929 651.685791	172.29.1.23	172.29.1.20	SMB	130 Trans2 Request, QUERY_FILE_INFO, FID: 0x4005, Query File Internal Info
23930 651.686041	172.29.1.20	172.29.1.23	SMB	126 Trans2 Response, FID: 0x4005, QUERY_FILE_INFO
23931 651.686798	172.29.1.23	172.29.1.20	SMB	117 Read AndX Request, FID: 0x4005, 150 bytes at offset 0
23932 651.687040	172.29.1.20	172.29.1.23	SMB	268 Read AndX Response, FID: 0x4005, 150 bytes

▼ FIND_FIRST2 Data
▶ Find File Both Directory Info File: .
▶ Find File Both Directory Info File: ..
▶ Find File Both Directory Info File: Customer_Accounts
▶ Find File Both Directory Info File: desktop.ini
▶ Find File Both Directory Info File: drop folder
▶ Find File Both Directory Info File: larryeatswrt-with-secretsauce.jpg
▶ Find File Both Directory Info File: larryeatswrt_withsecretsauce.bmp
▶ Find File Both Directory Info File: My Music
▶ Find File Both Directory Info File: My Pictures
▶ Find File Both Directory Info File: My Videos
▶ Find File Both Directory Info File: premium-customer-billing-list.xls
▶ Find File Both Directory Info File: production
▶ Find File Both Directory Info File: R_and_D
▶ Find File Both Directory Info File: Thumbs.db

List of files in victims' home directory

23988 21:22:18.312722 172.29.1.26	172.29.1.23	SMB	93 Close Response, FID: 0x4008
23988 21:22:18.323965 172.29.1.23	172.29.1.26	SMB	164 NT Create AndX Request, FID: 0x400b, Path: \My Videos
23990 21:22:18.324213 172.29.1.26	172.29.1.23	SMB	193 NT Create AndX Response, FID: 0x400b
23991 21:22:18.324463 172.29.1.23	172.29.1.26	SMB	130 Trans2 Request, QUERY_FILE_INFO, FID: 0x400b, Query File Internal Info
23992 21:22:18.324471 172.29.1.26	172.29.1.23	SMB	126 Trans2 Response, FID: 0x400b, QUERY_FILE_INFO
23993 21:22:18.325210 172.29.1.23	172.29.1.26	SMB	130 Trans2 Request, QUERY_FILE_INFO, FID: 0x400b, Query File Standard Info
23994 21:22:18.325219 172.29.1.26	172.29.1.23	SMB	142 Trans2 Response, FID: 0x400b, QUERY_FILE_INFO
23995 21:22:18.325711 172.29.1.23	172.29.1.26	SMB	164 Trans2 Request, FIND_FIRST2, Pattern: \My Videos*
23996 21:22:18.325961 172.29.1.26	172.29.1.23	SMB	506 Trans2 Response, FIND_FIRST2, Files: . . . Desktop.ini larryeatswrt-with-secretsauce.jpg
23997 21:22:18.326461 172.29.1.23	172.29.1.26	SMB	99 Close Request, FID: 0x400b
23998 21:22:18.326799 172.29.1.26	172.29.1.23	SMB	93 Close Response, FID: 0x400b
23999 21:22:18.330707 172.29.1.23	172.29.1.26	SMB	160 NT Create AndX Request, FID: 0x400c, Path: \R_and_D
24000 21:22:18.330715 172.29.1.26	172.29.1.23	SMB	193 NT Create AndX Response, FID: 0x400c
24001 21:22:18.330958 172.29.1.23	172.29.1.20	SMB	130 Trans2 Request, QUERY_FILE_INFO, FID: 0x400c, Query File Internal Info
24002 21:22:18.330966 172.29.1.23	172.29.1.20	SMB	166 NT Create AndX Request, FID: 0x400d, Path: \production
24003 21:22:18.331207 172.29.1.20	172.29.1.23	SMB	126 Trans2 Response, FID: 0x400c, QUERY_FILE_INFO
24004 21:22:18.331216 172.29.1.20	172.29.1.23	SMB	193 NT Create AndX Response, FID: 0x400d
24005 21:22:18.331456 172.29.1.23	172.29.1.20	TCP	60 50291 - 445 [ACK] Seq=6773 Ack=11350 Win=64512 Len=0
24006 21:22:18.331765 172.29.1.23	172.29.1.20	SMB	130 Trans2 Request, QUERY_FILE_INFO, FID: 0x400c, Query File Standard Info
24007 21:22:18.331712 172.29.1.20	172.29.1.23	SMB	142 Trans2 Response, FID: 0x400c, QUERY_FILE_INFO
24008 21:22:18.332266 172.29.1.23	172.29.1.20	SMB	160 Trans2 Request, FIND_FIRST2, Pattern: \R_and_D*
24009 21:22:18.332455 172.29.1.20	172.29.1.23	SMB	398 Trans2 Response, FIND_FIRST2, Files: . . . ingredients-list-133t-p11.7z
24010 21:22:18.332957 172.29.1.23	172.29.1.20	SMB	99 Close Request, FID: 0x400c
24011 21:22:18.333205 172.29.1.20	172.29.1.23	SMB	93 Close Response, FID: 0x400c

Directories opened by suspect

Documents.zip

Actual Documents

GoT Spoilers.docx

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NorthKorea.docx

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PiD.docx

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Before(Paul)



After(Me)

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Chess Boxing

NK.jpg



Rules 1..docx

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Rules 2.docx

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Rules 3.docx

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Rules 4.docx

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Rules 5.docx

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Rules 6.docx

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Rules 7.docx

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More Documents

BillOfRights.txt

The Bill of Rights: A Transcription

The Preamble to The Bill of Rights

Congress of the United States

begun and held at the City of New-York, on

Wednesday the fourth of March, one thousand seven hundred and eighty nine.

THE Conventions of a number of the States, having at the time of their adopting the Constitution, expressed a desire, in order to prevent misconstruction or abuse of its powers, that further declaratory and restrictive clauses should be added: And as extending the ground of public confidence in the Government, will best ensure the beneficent ends of its institution.

RESOLVED by the Senate and House of Representatives of the United States of America, in Congress assembled, two thirds of both Houses concurring, that the following Articles be proposed to the Legislatures of the several States, as amendments to the Constitution of the United States, all, or any of which Articles, when ratified by three fourths of the said Legislatures, to be valid to all intents and purposes, as part of the said Constitution; viz.

ARTICLES in addition to, and Amendment of the Constitution of the United States of America, proposed by Congress, and ratified by the Legislatures of the several States, pursuant to the fifth Article of the original Constitution.

Note: The following text is a transcription of the first ten amendments to the Constitution in their original form. These amendments were ratified December 15, 1791, and form what is known as the "Bill of Rights."

Amendment I

Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; or the right of the people peaceably to assemble, and to petition the Government for a redress of grievances.

Amendment II

A well regulated Militia, being necessary to the security of a free State, the right of the people to keep and bear Arms, shall not be infringed.

Amendment III

No Soldier shall, in time of peace be quartered in any house, without the consent of the Owner, nor in time of war, but in a manner to be prescribed by law.

Amendment IV

The right of the people to be secure in their persons, houses, papers, and effects, against unreasonable searches and seizures, shall not be violated, and no Warrants shall issue, but upon probable cause, supported by Oath or affirmation, and particularly describing the place to be searched, and the persons or things to be seized.

Amendment V

No person shall be held to answer for a capital, or otherwise infamous crime, unless on a presentment or indictment of a Grand Jury, except in cases arising in the land or naval forces, or in the Militia, when in actual service in time of War or public danger; nor shall any person be subject for the same offence to be twice put in jeopardy of life or limb; nor shall be compelled in any criminal case to be a witness against himself, nor be deprived of life, liberty, or property, without due process of law; nor shall private property be taken for public use, without just compensation.

Amendment VI

In all criminal prosecutions, the accused shall enjoy the right to a speedy and public trial, by an impartial jury of the State and district wherein the crime shall have been committed, which district shall have been previously ascertained by law, and to be informed of the nature and cause of the accusation; to be confronted with the witnesses against him; to have compulsory process for obtaining witnesses in his favor, and to have the Assistance of Counsel for his defence.

Amendment VII

In Suits at common law, where the value in controversy shall exceed twenty dollars, the right of trial by jury shall be preserved, and no fact tried by a jury, shall be otherwise re-examined in any Court of the United States, than according to the rules of the common law.

Amendment VIII

Excessive bail shall not be required, nor excessive fines imposed, nor cruel and unusual punishments inflicted.

Amendment IX

The enumeration in the Constitution, of certain rights, shall not be construed to deny or disparage others retained by the people.

Amendment X

The powers not delegated to the United States by the Constitution, nor prohibited by it to the States, are reserved to the States respectively, or to the people.

AMENDMENT XI

Passed by Congress March 4, 1794. Ratified February 7, 1795.

Note: Article III, section 2, of the Constitution was modified by amendment 11.

The Judicial power of the United States shall not be construed to extend to any suit in law or equity, commenced or prosecuted against one of the United States by Citizens of another State, or by Citizens or Subjects of any Foreign State.

AMENDMENT XII

Passed by Congress December 9, 1803. Ratified June 15, 1804.

Note: A portion of Article II, section 1 of the Constitution was superseded by the 12th amendment.

The Electors shall meet in their respective states and vote by ballot for President and Vice-President, one of whom, at least, shall not be an inhabitant of the same state with themselves; they shall name in their ballots the person voted for as President, and in distinct ballots the person voted for as Vice-President, and they shall make distinct lists of all persons

voted for as President, and of all persons voted for as Vice-President, and of the number of votes for each, which lists they shall sign and certify, and transmit sealed to the seat of the government of the United States, directed to the President of the Senate; -- the President of the Senate shall, in the presence of the Senate and House of Representatives, open all the certificates and the votes shall then be counted; -- The person having the greatest number of votes for President, shall be the President, if such number be a majority of the whole number of Electors appointed; and if no person have such majority, then from the persons having the highest numbers not exceeding three on the list of those voted for as President, the House of Representatives shall choose immediately, by ballot, the President. But in choosing the President, the votes shall be taken by states, the representation from each state having one vote; a quorum for this purpose shall consist of a member or members from two-thirds of the states, and a majority of all the states shall be necessary to a choice. [And if the House of Representatives shall not choose a President whenever the right of choice shall devolve upon them, before the fourth day of March next following, then the Vice-President shall act as President, as in case of the death or other constitutional disability of the President. --]* The person having the greatest number of votes as Vice-President, shall be the Vice-President, if such number be a majority of the whole number of Electors appointed, and if no person have a majority, then from the two highest numbers on the list, the Senate shall choose the Vice-President; a quorum for the purpose shall consist of two-thirds of the whole number of Senators, and a majority of the whole number shall be necessary to a choice. But no person constitutionally ineligible to the office of President shall be eligible to that of Vice-President of the United States.

*Superseded by section 3 of the 20th amendment.

AMENDMENT XIII

Passed by Congress January 31, 1865. Ratified December 6, 1865.

Note: A portion of Article IV, section 2, of the Constitution was superseded by the 13th amendment.

Section 1.

Neither slavery nor involuntary servitude, except as a punishment for crime whereof the party shall have been duly convicted, shall exist within the United States, or any place subject to their jurisdiction.

Section 2.

Congress shall have power to enforce this article by appropriate legislation.

AMENDMENT XIV

Passed by Congress June 13, 1866. Ratified July 9, 1868.

Note: Article I, section 2, of the Constitution was modified by section 2 of the 14th amendment.

Section 1.

All persons born or naturalized in the United States, and subject to the jurisdiction thereof, are citizens of the United States and of the State wherein they reside. No State shall make or enforce any law which shall abridge the privileges or immunities of citizens of the United States; nor shall any State deprive any person of life, liberty, or property, without due process of law; nor deny to any person within its jurisdiction the equal protection of the laws.

Section 2.

Representatives shall be apportioned among the several States according to their respective numbers, counting the whole number of persons in each State, excluding Indians not taxed. But when the right to vote at any election for the choice of electors for President and Vice-President of the United States, Representatives in Congress, the Executive and Judicial officers of a State, or the members of the Legislature thereof, is denied to any of the male inhabitants of such State, being twenty-one years of age,* and citizens of the United States, or in any way abridged, except for participation in rebellion, or other crime, the basis

of representation therein shall be reduced in the proportion which the number of such male citizens shall bear to the whole number of male citizens twenty-one years of age in such State.

Section 3.

No person shall be a Senator or Representative in Congress, or elector of President and Vice-President, or hold any office, civil or military, under the United States, or under any State, who, having previously taken an oath, as a member of Congress, or as an officer of the United States, or as a member of any State legislature, or as an executive or judicial officer of any State, to support the Constitution of the United States, shall have engaged in insurrection or rebellion against the same, or given aid or comfort to the enemies thereof. But Congress may by a vote of two-thirds of each House, remove such disability.

Section 4.

The validity of the public debt of the United States, authorized by law, including debts incurred for payment of pensions and bounties for services in suppressing insurrection or rebellion, shall not be questioned. But neither the United States nor any State shall assume or pay any debt or obligation incurred in aid of insurrection or rebellion against the United States, or any claim for the loss or emancipation of any slave; but all such debts, obligations and claims shall be held illegal and void.

Section 5.

The Congress shall have the power to enforce, by appropriate legislation, the provisions of this article.

*Changed by section 1 of the 26th amendment.

AMENDMENT XV

Passed by Congress February 26, 1869. Ratified February 3, 1870.

Section 1.

The right of citizens of the United States to vote shall not be denied or abridged by the United States or by any State on account of race, color, or previous condition of servitude--

Section 2.

The Congress shall have the power to enforce this article by appropriate legislation.

AMENDMENT XVI

Passed by Congress July 2, 1909. Ratified February 3, 1913.

Note: Article I, section 9, of the Constitution was modified by amendment 16.

The Congress shall have power to lay and collect taxes on incomes, from whatever source derived, without apportionment among the several States, and without regard to any census or enumeration.

AMENDMENT XVII

Passed by Congress May 13, 1912. Ratified April 8, 1913.

Note: Article I, section 3, of the Constitution was modified by the 17th amendment.

The Senate of the United States shall be composed of two Senators from each State, elected by the people thereof, for six years; and each Senator shall have one vote. The electors in each State shall have the qualifications requisite for electors of the most numerous branch of the State legislatures.

When vacancies happen in the representation of any State in the Senate, the executive authority of such State shall issue writs of election to fill such vacancies: Provided, That the

legislature of any State may empower the executive thereof to make temporary appointments until the people fill the vacancies by election as the legislature may direct.

This amendment shall not be so construed as to affect the election or term of any Senator chosen before it becomes valid as part of the Constitution.

AMENDMENT XVIII

Passed by Congress December 18, 1917. Ratified January 16, 1919. Repealed by amendment 21.

Section 1.

After one year from the ratification of this article the manufacture, sale, or transportation of intoxicating liquors within, the importation thereof into, or the exportation thereof from the United States and all territory subject to the jurisdiction thereof for beverage purposes is hereby prohibited.

Section 2.

The Congress and the several States shall have concurrent power to enforce this article by appropriate legislation.

Section 3.

This article shall be inoperative unless it shall have been ratified as an amendment to the Constitution by the legislatures of the several States, as provided in the Constitution, within seven years from the date of the submission hereof to the States by the Congress.

AMENDMENT XIX

Passed by Congress June 4, 1919. Ratified August 18, 1920.

The right of citizens of the United States to vote shall not be denied or abridged by the United States or by any State on account of sex.

Congress shall have power to enforce this article by appropriate legislation.

AMENDMENT XX

Passed by Congress March 2, 1932. Ratified January 23, 1933.

Note: Article I, section 4, of the Constitution was modified by section 2 of this amendment. In addition, a portion of the 12th amendment was superseded by section 3.

Section 1.

The terms of the President and the Vice President shall end at noon on the 20th day of January, and the terms of Senators and Representatives at noon on the 3rd day of January, of the years in which such terms would have ended if this article had not been ratified; and the terms of their successors shall then begin.

Section 2.

The Congress shall assemble at least once in every year, and such meeting shall begin at noon on the 3d day of January, unless they shall by law appoint a different day.

Section 3.

If, at the time fixed for the beginning of the term of the President, the President elect shall have died, the Vice President elect shall become President. If a President shall not have been chosen before the time fixed for the beginning of his term, or if the President elect shall have failed to qualify, then the Vice President elect shall act as President until a President shall have qualified; and the Congress may by law provide for the case wherein neither a President elect nor a Vice President shall have qualified, declaring who shall then act as President, or the manner in which one who is to act shall be selected, and such person shall act accordingly until a President or Vice President shall have qualified.

Section 4.

The Congress may by law provide for the case of the death of any of the persons from whom the House of Representatives may choose a President whenever the right of choice shall have devolved upon them, and for the case of the death of any of the persons from whom the Senate may choose a Vice President whenever the right of choice shall have devolved upon them.

Section 5.

Sections 1 and 2 shall take effect on the 15th day of October following the ratification of this article.

Section 6.

This article shall be inoperative unless it shall have been ratified as an amendment to the Constitution by the legislatures of three-fourths of the several States within seven years from the date of its submission.

AMENDMENT XXI

Passed by Congress February 20, 1933. Ratified December 5, 1933.

Section 1.

The eighteenth article of amendment to the Constitution of the United States is hereby repealed.

Section 2.

The transportation or importation into any State, Territory, or Possession of the United States for delivery or use therein of intoxicating liquors, in violation of the laws thereof, is hereby prohibited.

Section 3.

This article shall be inoperative unless it shall have been ratified as an amendment to the Constitution by conventions in the several States, as provided in the Constitution, within seven years from the date of the submission hereof to the States by the Congress.

AMENDMENT XXII

Passed by Congress March 21, 1947. Ratified February 27, 1951.

Section 1.

No person shall be elected to the office of the President more than twice, and no person who has held the office of President, or acted as President, for more than two years of a term to which some other person was elected President shall be elected to the office of President more than once. But this Article shall not apply to any person holding the office of President when this Article was proposed by Congress, and shall not prevent any person who may be holding the office of President, or acting as President, during the term within which this Article becomes operative from holding the office of President or acting as President during the remainder of such term.

Section 2.

This article shall be inoperative unless it shall have been ratified as an amendment to the Constitution by the legislatures of three-fourths of the several States within seven years from the date of its submission to the States by the Congress.

AMENDMENT XXIII

Passed by Congress June 16, 1960. Ratified March 29, 1961.

Section 1.

The District constituting the seat of Government of the United States shall appoint in such manner as Congress may direct:

A number of electors of President and Vice President equal to the whole number of Senators and Representatives in Congress to which the District would be entitled if it were a State, but in no event more than the least populous State; they shall be in addition to those appointed by the States, but they shall be considered, for the purposes of the election of President and Vice President, to be electors appointed by a State; and they shall meet in the District and perform such duties as provided by the twelfth article of amendment.

Section 2.

The Congress shall have power to enforce this article by appropriate legislation.

AMENDMENT XXIV

Passed by Congress August 27, 1962. Ratified January 23, 1964.

Section 1.

The right of citizens of the United States to vote in any primary or other election for President or Vice President, for electors for President or Vice President, or for Senator or Representative in Congress, shall not be denied or abridged by the United States or any State by reason of failure to pay any poll tax or other tax.

Section 2.

The Congress shall have power to enforce this article by appropriate legislation.

AMENDMENT XXV

Passed by Congress July 6, 1965. Ratified February 10, 1967.

Note: Article II, section 1, of the Constitution was affected by the 25th amendment.

Section 1.

In case of the removal of the President from office or of his death or resignation, the Vice President shall become President.

Section 2.

Whenever there is a vacancy in the office of the Vice President, the President shall nominate a Vice President who shall take office upon confirmation by a majority vote of both Houses of Congress.

Section 3.

Whenever the President transmits to the President pro tempore of the Senate and the Speaker of the House of Representatives his written declaration that he is unable to discharge the powers and duties of his office, and until he transmits to them a written declaration to the contrary, such powers and duties shall be discharged by the Vice President as Acting President.

Section 4.

Whenever the Vice President and a majority of either the principal officers of the executive departments or of such other body as Congress may by law provide, transmit to the President pro tempore of the Senate and the Speaker of the House of Representatives their written declaration that the President is unable to discharge the powers and duties of his office, the Vice President shall immediately assume the powers and duties of the office as Acting President.

Thereafter, when the President transmits to the President pro tempore of the Senate and the Speaker of the House of Representatives his written declaration that no inability exists, he shall resume the powers and duties of his office unless the Vice President and a majority of either the principal officers of the executive department or of such other body as Congress may by law provide, transmit within four days to the President pro tempore of the Senate and the Speaker of the House of Representatives their written declaration that the President is unable to discharge the powers and duties of his office. Thereupon Congress shall decide the issue, assembling within forty-eight hours for that purpose if not in session. If the

Congress, within twenty-one days after receipt of the latter written declaration, or, if Congress is not in session, within twenty-one days after Congress is required to assemble, determines by two-thirds vote of both Houses that the President is unable to discharge the powers and duties of his office, the Vice President shall continue to discharge the same as Acting President; otherwise, the President shall resume the powers and duties of his office.

AMENDMENT XXVI

Passed by Congress March 23, 1971. Ratified July 1, 1971.

Note: Amendment 14, section 2, of the Constitution was modified by section 1 of the 26th amendment.

Section 1.

The right of citizens of the United States, who are eighteen years of age or older, to vote shall not be denied or abridged by the United States or by any State on account of age.

Section 2.

The Congress shall have power to enforce this article by appropriate legislation.

AMENDMENT XXVII

Originally proposed Sept. 25, 1789. Ratified May 7, 1992.

No law, varying the compensation for the services of the Senators and Representatives, shall take effect, until an election of representatives shall have intervened.

NorthKorea.jpeg



Documents.zip Decoded***Actual Documents******GoT Spoilers.docx***

Jon Snow burns down Winterfell (again) and the Wall.

Hodor kills Theon.

Daenerys gets eaten by a dragon.

Stannis falls in love with Tyrion.

NorthKorea.docx

Для кого это может касаться:

Я был свидетелем, что Ким Чен Ун и правительство Северной Кореи разработали программу, которая позволяет им путешествовать во времени. С использованием этой технологии, я считаю, что они намерены двигаться вперед и изменить результаты войны в Корее.

Пожалуйста, Оби-Ван, ты моя единственная надежда.

PiD.docx

Yeah I totally took over for Paul after he died in '66. You got me. As you can see, we don't even look that much alike:



Before(Paul)



After(Me)

We aren't even the same height! What can I say, people are stupid.

Thanks for the inquiry,

William Campbell
(Paul McCartney)

Chess Boxing*Rules 1..docx***1. SUMMARY OF RULES. MAIN POINTS.**

TOUCH MOVE rule strictly applies.

- If a piece is touched, then it must be moved (if a legal move is available)
- If an opponent's piece is touched, it must be taken (if legal).

COUNTDOWN IF STALLING FOR TIME. In general a player manages how much or little time to take for each move, and this is fine! However, if a player clearly plays far too slowly for the specific position, for example when he is facing unavoidable checkmate, the arbiter will do a countdown. He will point at the board, and warn the player by counting to 10 with his hands (just like a boxing referee). If the player has not moved by the count of 10, he loses the game and the match. Note there is no minimum time to make a move! Also, even if there is only 1 legal move, the player should be allowed some time to psychologically compose themselves. It should be considered that a weak player may not realise he only has 1 legal move.

CHESS CLOCK PROTOCOL. The chess clock must be pressed with the SAME HAND that moves the piece.

PRESSING CHECK CLOCK. It is the player's responsibility to press his or her clock between chess moves. The competitors may agree in advance to allow the arbiter to issue reminders – especially if both fighters are new to chessboxing.

PIECES KNOCKED DOWN OR NOT PROPERLY ON A SQUARE. If a player knocks down a piece whilst making a move or does not put it properly on a square, he should

properly re-position or re-centre the piece in HIS OWN clock time. An offence that puts off the opponent could be punished by adding time to the opponent's clock.

OTHER RULES to NOTE

- Resignation protocol. For the benefit of the audience, players are strongly encouraged to play until checkmate. If you want to resign (submit) prior to checkmate, do this by knocking over your king and offering a handshake.
- Illegal move. An illegal move must be retracted. The arbiter has the discretion to punish with a time penalty, or disqualify after 3 illegal moves. Extra allowances can be made for novice players.
- Speaking to the arbiter. If a player needs to speak to the arbiter during the chess game, he should remove his headphones. The arbiter will then stop the clock to listen.
- Playing to win on time. If a position is a completely drawn position, and the arbiter believes a player is quickly moving pieces only to win on time, then the arbiter can declare the game a draw.
- Chess Draw. A chess draw will be followed by one boxing round (unless the maximum number of boxing rounds has already happened). The chessboxing bout will therefore be won by whoever has amassed the most boxing points – judged by punches thrown and overall aggression.
- Drinks Fighters are allowed to bring water to the chess table.
- Cuts In most cases, except for the most superficial examples, a cut will lead to the fight being stopped and a TKO declared.

- General Advice Competitors are reminded that they do not need to move quickly, even if their opponent moves quickly. Adrenaline drastically changes your sense of time. Experience shows that a player is OK until he has 2 minutes of time remaining on the clock, when moves should be speeded up.

Rules 2.docx

2. ENFORCEMENT OF CHESS RULES

In the event of a breach of the rules a penalty can be imposed at the arbiter's discretion.

Rules 3.docx

3. PENALTIES FOR RULE BREACHES

A chess penalty could take the form of:

- The offence will act as a tie-break if both the boxing and chess are drawn.

This is the minimum (default) penalty and applies if there is no other penalty.

- 30 seconds is subtracted from the offender's clock.
- Forfeit of the bout. This could occur for a serious disciplinary offence, deliberate foul play or a repeated breach (e.g. a total of 3 illegal moves).

*Rules 4.docx***4. CHESS CLOCK MALFUNCTION**

In the unlikely event the electronic chess clock ceases to operate during a chess round, the arbiter will do one of following, depending on the estimated disruption to the players and spectators:

- Stop the clock and resolve the problem.
- Stop the clock and replace it with a new clock. This action is most likely if

there is a repeated malfunction, or it's one of the later chess rounds where a player is short of time.

*Rules 5.docx***5. WCBA CHESS RULES FOR CHESSBOXING**

Chess tournament rules have legal points that casual players may be unfamiliar with.

The official laws of chess are on the website of FIDE, the chess governing body

<http://www.fide.com/component/handbook/?id=32andview=category>.

Highlighted below are legal points that cause most disputes in tournament chess situations.

In addition, some chessboxing laws differ from FIDE rules in order to (i.) ensure the paying public is entertained, (ii.) keep the game flowing with minimal disruption, and (iii.) minimise verbal communication with the competitors. These differences are highlighted where they occur.

Touch move

• Once a piece is touched it MUST be moved, unless “J’adoube” is indicated before touching the piece. If no legal move is admissible, then any other piece can be moved without punishment.

• Once an opponent’s piece is touched it must be captured if there is such a legal move. If it cannot be captured the offender receives no penalty and is free to move without restriction.

Castling touch move

When castling you MUST touch the king first. If you touch the rook first, then you cannot castle, but you must move the rook because of the touch-move rule.

Hand is taken off a piece

When a piece is moved and the hand taken off the piece, the move cannot be retracted – the piece cannot be moved to a different square.

Illegal move

The arbiter will point out the illegal move if it goes unnoticed. Since the punishment for an illegal move is not as severe in chessboxing as in FIDE blitz chess laws, the arbiter will not allow the possibility of an illegal move going uncorrected.

“J’Adoube” rule.

Normal Chess Rules

- If a piece is off centre and is annoying you, state “j’adoube” or “I adjust”

BEFORE adjusting its position on the square. One of these phrases should be used regardless of the player’s home language.

- If you state “j’adoube” after or during the piece adjustment, then it counts as a touch move.
- You should only adjust pieces whilst your clock is running. Adjusting during your opponent’s time is forbidden as it is a distraction.

Chessboxing Rules (adapted because both players have headphones)

- With headphones on it is simplest if players don’t try to J’adoube. Pieces will be nicely centred by the arbiter between each chess round. However, if the urge to J’adoube becomes irresistible, follow the below procedure...
- Clearly turn to the arbiter and mouth “J’adoube” AND give the J’adoube hand signal specially developed for chessboxing. Then adjust the piece as in a normal chess game.
- The j’adoube hand signal is the ‘OK’ hand gesture, creating a circle with the thumb and first finger.

Pawn promotion

A key difference between casual chess and tournament rules. When promoting a pawn to a second queen, do NOT use an upside-down rook (as the electronic chessboard will not recognise it). Even if you shout “queen” as you do so, it is still a rook! The chessboxing arbiter will ensure a spare queen is on the table for you to use.

Clock

- The clock MUST be pressed with the same hand that makes the move
- Running out of time. If a player has no time remaining, then he is lost if his opponent can checkmate him assuming the most unskilled play, otherwise the game is a draw.
For example, if Player A has three queens and a king, and Player B has one pawn and a king, then Player B wins if Player A runs out of time.
- A player should not start to make his move until the opponent has physically pressed his clock.
- Time scramble – disputes can arise when 1 or both players are short of time and moving extremely quickly:
 - A player should not start to make his move until the opponent has physically pressed his clock. i.e. you should not rush to move a piece in the brief time between your opponent moving his piece and pressing his clock.
 - If a player knocks down pieces during a move, he should reset them in his own time before pressing his clock. If he presses his clock without resetting the pieces on their squares, then the opponent can immediately bounce the clock back without making a move, whilst pointing to the offending piece(s) that have been knocked down. The first player should then properly reset the pieces in his own time. [This completely differs from FIDE laws, where the innocent party should stop the clocks and inform the arbiter]. The same action can be performed if a piece is not clearly on a square but significantly overlaps another square such that its position is ambiguous. The arbiter can stop the clocks if there is a flurry of poorly placed pieces, and intervene to reset the board. The arbiter can penalise the offender.
 - Drawn position – playing to win on time

- If the arbiter judges the position is a dead draw (e.g. opposite colour bishop ending, or R+K vs R+K), then the arbiter can intervene and declare a draw if a player is simply trying to win on time and not making a concerted effort to win the game. The defender does not need to request the arbiter to make such a judgement; the arbiter will assume the request exists as soon as a player has less than 2 minutes remaining. [This differs from the FIDE laws, which requires the defender to stop the clocks BEFORE he gets into critical time trouble, and ask the arbiter to observe whether the attacker is making a concerted effort to win the game or is just aiming to win on time in a dead drawn position.]
 - Losing position – playing to win on time
 - Note that if a player is in a winning position but is close to losing on time, the arbiter will not intervene in his favour. If he loses on time before he checkmates the opponent, this is more a consequence of time mismanagement than having to make countless moves shuffling pieces in a dead drawn position.
 - Slow playing a lost position – a rule developed for chessboxing to prevent stalling for time.
 - If a player takes too much time in a lost position where he would be expected to play much quicker in a normal chess game, the arbiter can give him a count of 10. The arbiter will visually count with his hands. If no move is made on the count of 10, the player forfeits the game.

Draw by threefold repetition

- If the same position occurs 3 times (and with the same player to move), the player can claim a draw ONLY WHEN IT IS HIS MOVE. He should stop the clock after the

opponent's last move, remove his headphones and TELL the arbiter what move he WOULD play to get into the 3rd repetition. DO NOT PLAY THE MOVE, DO NOT PRESS THE CLOCK. If the player is unsure how to pause the clock, then he can take off his headphones and claim the draw. The arbiter will stop the clock as the headphones come off. If the draw claim is correct and the claimant runs out of time after removing his headphones, the draw will hold.

- A draw by repetition normally occurs by perpetual check so is easy to identify.

50 move rule

A draw can be claimed if neither a piece is taken nor a pawn moved in 50 moves (i.e. 50 White and 50 Black moves). As players are not writing a game score, the arbiter will monitor on their behalf – this is most likely to occur in an ending B+N+K vs. K.

Draw Offer

- Contrary to FIDE rules, players will not be able to offer a draw unless the position is a 'dead draw', as judged by the arbiter.
 - The offer of a draw must be made through the arbiter. Make your move, do not press your clock, and then remove the headphones to speak to the arbiter. The arbiter will stop the clock and judge whether a draw offer is acceptable. If so, he will convey to the opponent for consideration and restart the clock (as the opponent can consider the draw offer until he makes his next move).

Verbal Communication with the arbiter

- If a player wants to speak to the arbiter during the game he should remove his headphones. The arbiter will stop the clock to talk. The other player can remove his headphones to listen to the conversation.

Arbiter's decision

- The arbiter's decision is final. The finer rules of chessboxing will no doubt evolve with the sport. Any unanticipated circumstances will be judged considering the official FIDE chess laws, the need for sporting fair play in relation to the tournament chess experience of the chessboxers, and the need to entertain a paying audience.

Rules 6.docx

6. CHESS DRAW IN RELATION TO THE CHESSBOXING BOUT

If a chess draw is declared in any round, there will be at most only one boxing round thereafter. If the chess draw occurs in the final round, then there will be no further boxing round, in line with the original schedule.

In the unlikely event that the chess game is drawn AND the boxing is a tie on points, then the player with the fewest chess penalties is the winner. If these are equal the bout will be declared a draw.

*Rules 7.docx***7. HOW CHESS PIECES MOVE – FINER POINTS THAT CONFUSE****BEGINNERS**

The complete official laws of chess are on the website of FIDE, the chess governing body.

The Appendix on the above link explains chess notation, and instances where ‘blitz’ or ‘rapid’ chess rules differ from normal ‘long play’ time controls.

Castling

- Castling is one move
- The king always moves 2 squares, and the rook then goes next to the king on the other side.
 - All squares between king and rook must be clear. Castling cannot capture a piece.
 - White Kingside castling moves the King from e1 to g1, and the Rook from h1 to f1.
 - White Queenside castling moves the King from e1 to c1, and the Rook from a1 to d1.

Castling is not a legal move when...

- ...the king is in check
- ...the king moves into check
- ...the king crosses over a square that is attacked (many players are unaware of this subtle point)
- ...a piece is on a square between king and rook

- ...the king has previously moved, even if it has since returned to its original square
- ...the rook to be castled has previously moved, even if it has since returned to its original square

Pawn Promotion

A pawn reaching the eighth rank is 99% of times promoted to a queen, but it can also be ‘under-promoted’ to a knight, bishop or rook.

En Passant

A special type of pawn capture. A pawn attacking a square crossed by an opponent’s pawn which has advanced two squares in one move from its original square may capture this opponent’s pawn as though the latter had been moved only one square. This capture is only legal on the move following this advance and is called an ‘en passant’ capture. ‘En passant’ is French for ‘as it passes’. See http://en.wikipedia.org/wiki/En_passant for visual examples.

Enter the WuTang

track6.docx

The Mystery of Chess Boxing:

(usernames)

Mr. Method

Kim Ill-Song

Mr. Razor

Mr. Genius

Mr. G. Killah

Matt Cassel

Mr. I. Deck

Mr. M Killa

Mr. O.D.B.

Mr. Raekwon

Mr. U-God

Mr. Cappadonna (possibly)

John Woo?

Mr. Nas

track10.docx

"Protect Ya Neck"

"So what's up man?"

Cooling man"

"Chilling chilling?"

"Yo you know I had to call, you know why right?"

"Why?"

"Because, yo, I never ever call and ask, you to play something right?"

"Yeah"

"You know what I wanna hear right?"

"What you wanna hear?"

I wanna hear that Wu-Tang joint"

"Wu-Tang again?"

"Ah yeah, again and again!"

[sounds of fighting]

[RZA] Wu-Tang Clan coming at you, protect your neck kid, so set it off the Inspector Deck

[Meth] watch your step kid [8X]

[Inspector Deck]

I smoke on the mic like smoking Joe Frazier

The hell raiser, raising hell with the flavor

Terrorize the jam like troops in Pakistan

Swinging through your town like your neighborhood Spiderman

So uhh, tic toc and keep ticking

While I get you flipping off the shit I'm kicking

The Lone Ranger, code red, danger!

Deep in the dark with the art to rip charts apart

The vandal, too hot to handle

you battle, you're saying Goodbye like Tevin Campbell

Roughneck, Inspector Deck's on the set

The rebel, I make more noise than heavy metal

[Raekwon]

The way I make the crowd go wild, sit back relax won't smile

Rae got it going on pal, call me the rap assassinator
Rhymes rugged and built like Schwarzenegger
And I'm gonna get mad deep like a threat, blow up your project
Then take all your assets
Cause I came to shake the frame in half
With the thoughts that bomb, shit like math!
So if you wanna try to flip go flip on the next man
Cause I grab the clip and
Hit you with sixteen shots and more I got
Going to war with the melting pot hot

[Method]

It's the Method Man for short Mr. Meth
Moving on your left, ah!
And set it off, get it off, let it off like a gat
I wanna break full, cock me back
Small change, they putting shame in the game
I take aim and blow that n***a out the frame
And like Fame, my style'll live forever
N***az crossing over, but they don't know no better
But I do, true, can I get a "sue"
Nuff respect due to the one-six-oh
I mean oh, you check out the flow

like the Hudson or PCP when I'm dusting

N***az off because I'm hot like sauce

The smoke from the lyrical blunt makes me [cough]

[U-God]

Oh, what, grab my nut get screwed

Ow, here comes my Shaolin style

Sloop, B. A. Buh-B. Y. U

to my crew with the "sue"

[Interlude]

watch your step kid [8X]

[Ol Dirty Bastard] c'mon baby baby c'mon [4X]

[RZA] Yo, you best protect your neck

[Ol Dirty Bastard]

First things first man you're fucking with the worst

I'll be sticking pins in your head like a fucking nurse

I'll attack any n***a who's slack in his mack

Come fully packed with a fat rugged stack

Shame on you when you stepped through to

The Ol Dirty Bastard straight from the Brooklyn Zoo

And I'll be damned if I let any man

Come to my center, you enter the winter
Straight up and down that shit packed jam
You can't slam, don't let me get fool on him man
The Ol Dirty Bastard is dirty and stinking
Ason, unique rolling with the night of the creeps
N***az be rolling with a stash
ain't saying cash, bite my style I'll bite your motherfucking ass!

[Ghostface Killah]

For crying out loud my style is wild so book me
Not long is how long that this rhyme took me
Ejecting, styles from my lethal weapon
My pen that rocks from here to Oregon
Here's Mordigan, catch it like a psycho flashback
I love gats, if rap was a gun, you wouldn't bust back
I come with shit that's all types of shapes and sounds
And where I lounge is my stomping grounds
I give a order to my peeps across the water
To go and snatch up props all around the border
And get far like a shooting star
'cause who I am is dim in the light of Pablo Escobar
Point blank as I kick the square biz
There it is you're fucking with pros and there it goes

[RZA]

You chill with the feedback black we don't need that
It's ten o'clock hoe, where the fuck's your seed at?
Feeling mad hostile, ran the apostle
Flowing like Christ when I speaks the gospel
Stroll with the holy roll then attack the globe with the buckus style
the ruckus, ten times ten men committing mad sin
Turn the other cheek and I'll break your fucking chin
Slaying boom-bangs like African drums (we'll be)
Coming around the mountain when I come
Crazy flamboyant for the rap enjoyment
My clan increase like black unemployment
Yeah, another one dare,
Tuh-took a genius (to) take us the fuck outta here

[Genius]

The Wu is too slamming for these Cold Killing labels
Some ain't had hits since I seen Aunt Mabel
Be doing artists in like Cain did Abel
Now they money's gettin stuck to the gum under the table
That's what you get when you misuse what I invent
Your empire falls and you lose every cent

For trying to blow up a scrub

Now that thought was just as bright as a 20-watt light bulb

Should've pumped it when I rocked it

N***az so stingy they got short arms and deep pockets

This goes on in some companies

With majors they're scared to death to pump these

First of all, who's your A&R

A mountain climber who plays an electric guitar

But he don't know the meaning of dope

When he's looking for a suit and tie rap

that's cleaner than a bar of soap

And I'm the dirtiest thing in sight

Matter of fact bring out the girls and let's have a mud fight

[sounds of fighting]

[RZA] You best protect your neck [4X]

broken.py

```
def fileToString(pathToFile):
    f = open(pathToFile, "r")
    strs = ""
    #adds each line of the file to the strs string
    for line in f.readlines():
        strs+=line
    return strs

def ASCII():
    #number of ASCII characters
    NumOfASCII == 0
    #returns list of all ASCII characters
    return "".join([chr(i) for i in range(NumOfASCII)])
def sumName(name):
    sums=0
    #sums the indices in ASCII of all the characters in name
    for x in name:
        sums+=ord(x)
    return sums

def indexInFile(password):
    indices = []
    ASCIIArray = ASCII()
    #populates an array of indices to be used by the encoder
    for chrs in password:
        indices.append(ASCIIArray.index(chrs)+sumName(name)*2)
    return indices

def indexInASCII(name):
    indices = []
    ASCIIArray = ASCII()
    #split on all non-numeric characters
    #remove first index because it is blank
    indexList = re.split("[^\d]",encoded)[1:]
    #converts encoded characters to ASCII
    for index in indexList:
        indices.append(ASCIIArray[int(index) - (sumName(name)*2)])
    #returns decoded message
    return "".join(indices)

def encode(name):
    #returns a list of indices to be used for encoding
    indices = indexInFile(password,name)
    #convert file associated with name to a string
    bill = fileToString("./%s.txt"%name)
    encoded = ""
    #add letter in file plus index of the letter in the file to the
    encoded string
```

```
for index in indices:  
    encoded+=bill[index]+str(index)  
  
return encoded
```

fixed.py

```
import re  
  
def fileToString(pathToFile):  
    f = open(pathToFile, "r")  
    strs = ""  
    #adds each line of the file to the strs string  
    for line in f.readlines():  
        strs+=line  
    return strs  
def ASCII():  
    #number of ASCII characters  
    NumOfASCII = 128  
    #returns list of all ASCII characters  
    return "".join([chr(i) for i in range(NumOfASCII)])  
def sumName(name):  
    sums=0  
    #sums the indices in ASCII of all the characters in name  
    for x in name:  
        sums+=ord(x)  
    return sums  
def indexInFile(password,name):  
    indices = []  
    ASCIIArray = ASCII()  
    #populates an array of indices to be used by the encoder  
    for chrs in password:  
        indices.append(ASCIIArray.index(chrs)+sumName(name)*2)  
    return indices  
def indexInASCII(encoded,name):  
    indices = []  
    ASCIIArray = ASCII()  
    #split on all non-numeric characters  
    #remove first index because it is blank  
    indexList = re.split("[^\d]",encoded)[1:]  
    #converts encoded characters to ASCII  
    for index in indexList:  
        indices.append(ASCIIArray[int(index) - (sumName(name)*2)])  
    #returns decoded message
```

```
    return "".join(indices)
def encode(password, name):
    #returns a list of indices to be used for encoding
    indices = indexInFile(password, name)
    #convert file associated with name to a string
    bill = fileToString("./%s.txt"%name)
    encoded = ""
    #add letter in file plus index of the letter in the file to the
    encoded string
    for index in indices:
        encoded+=bill[index]+str(index)

    return encoded

if __name__ == "__main__":
    encoded = "i2454 2497d2496n2502 2470 2500 2507o2436s2452
2500s2503n2502l2487e2456 2497 2500h2485l2487 2470b2490e2491a2501m2466
2483a2501a2501e2505 2497 2500a2486"
    name = "BillOfRights"

    print(indexInASCII(encoded, name))
```

Capture 2

IRC_Script.py

```
import os
import base64

#changes directory
os.chdir("/root/Desktop/network forensics/")
#file for raw dump of all message data
filename = "messages_raw.txt"
#command to retrieve message data
cmd = "tshark -r 'Capture 2.pcap' -q -z follow,tcp,ascii,0 | grep -i
privmsg > " + filename
os.system(cmd)
#splits the text at each newline
text = open(filename).read().splitlines()
print(str(len(text)) + " messages recovered...")

output_file = "./decoded messages.txt"
#opens the file in write mode and deletes any previous data
f = open(output_file, 'w')
f.write('')
f.close()
#for each message in text list
for x in range(len(text)):
    #current_text = text[x].replace('PRIVMSG', ' ')
    #print(current_text)
    msg = text[x].split(' :')
    #if message has a sender and recipient
    if ' ' in msg[0]:
        tmp = msg[0].split('PRIVMSG')
        if tmp[0]:
            sender = tmp[0]
        else:
            sender = "Ill_Song"
        recipient = tmp[1]
    else:
        recipient = msg[0]

    message = base64.b64decode(msg[1])
    try:
        message = base64.b32decode(message)
    except:
        print("Message " + str(x) + " is not in base32 format\n")
```

```
#outputs the recovered message to file after decoding
file = open(output_file, 'a')
file.write("Sender: " + sender + "\n")
file.write("Recipient: " + recipient + "\n")
file.write("Message: " + message.decode('utf-8') + "\n\n")
file.close()
```

Decoded Messages

Sender: Ill_Song

Recipient: Razor1

Message: Mr. Razor, I am excited about the prospect of the Chess Boxing world title coming to Pyongyang.

Sender: :Razor1!~malware@216.14.247.46

Recipient: Ill_Song

Message: Well the decision is not final yet.

Sender: Ill_Song

Recipient: Razor1

Message: Pyongyang is beautiful this time of year. Perhaps you would like to visit and experience what Best Korea has to offer.

Sender: :Razor1!~malware@216.14.247.46

Recipient: Ill_Song

Message: I am a very busy man, but perhaps I could be persuaded to visit. See if Pyongyang is the right place for the World Title.

Sender: Ill_Song

Recipient: Razor1

Message: Perhaps not. How about I send you a gift? Something to get you out of the City of Love and take your own vacation somewhere.

Sender: :Razor1!~malware@216.14.247.46

Recipient: Ill_Song

Message: Somewhere expensive, I hope.

Sender: Ill_Song

Recipient: Razor1

Message: 5

Sender: :Razor1!~malware@216.14.247.46

Recipient: Ill_Song

Message: 39

Sender: Ill_Song

Recipient: Razor1

Message: 7

Sender: :Razor1!~malware@216.14.247.46

Recipient: Ill_Song

Message: \$700,000 it is. Where can I meet you?

Sender: Ill_Song

Recipient: Razor1

Message: I will be in touch with the address.

Sender: Ill_Song

Recipient: Genius1

Message: As we discussed earlier, I believe I might be able to help you with your search.

Sender: :Genius1!~malware@216.14.247.46

Recipient: Ill_Song

Message: I see. Then we must meet, and I will see the validity of this claim.

Sender: Ill_Song

Recipient: Genius1

Message: I can be in Caracas within the week.

Sender: :Genius1!~malware@216.14.247.46

Recipient: Ill_Song

Message: No. Not here. Can I not go to you?

Sender: Ill_Song

Recipient: Genius1

Message: I am afraid that would be unwise. I will send you a message with the date and location through a more secure form of communication.

Sender: Ill_Song

Recipient: Method

Message: Mr. Method, I am excited about the prospect of the Chess Boxing world title coming to Pyongyang.

Sender: :Method!~malware@216.14.247.46

Recipient: Ill_Song

Message: I am not sure who you are, but I have an idea. Either way, I am not interested.

Sender: Ill_Song

Recipient: Method

Message: I am just hopeful. It would mean so much to have to have the Title here. Please consider it.

Sender: :Method!~malware@216.14.247.46

Recipient: Ill_Song

Message: Do not speak to me again.

Sender: Ill_Song

Recipient: Killah

Message: How is the weather in Qatar, Mr. Killah?

Sender: :Killah!~malware@216.14.247.46

Recipient: Ill_Song

Message: Hot, as always. Who is this?

Sender: Ill_Song

Recipient: Killah

Message: I am a fan of Chess Boxing. I would love to see the Title held in Korea.

Sender: :Killah!~malware@216.14.247.46

Recipient: Ill_Song

Message: We will have to see how the bid turns out.

Sender: Ill_Song

Recipient: Killah

Message: Is there anything that I could do to help make your decision easier?

Sender: :Killah!~malware@216.14.247.46

Recipient: Ill_Song

Message: No! The great nation of Qatar would never be swayed so easily.

Sender: :Killah!~malware@216.14.247.46

Recipient: Ill_Song

Message: Nor would I. We do not take kindly to this pathetic notion of bribery.

Sender: Ill_Song

Recipient: Raekwon

Message: Mr. Raekwon, have you spoken with Mr. Razor?

Sender: :Raekwon!~malware@216.14.247.46

Recipient: Ill_Song

Message: I have, but I won't be bought so easily.

Sender: Ill_Song

Recipient: Raekwon

Message: Bought? Of course not. You are an official on the executive committee of the ICBA. I just want you to know that I am here to help make your decision as easy as possible.

Sender: :Raekwon!~malware@216.14.247.46

Recipient: Ill_Song

Message: I would need at least 20 million Rubles.

Sender: Ill_Song

Recipient: Raekwon

Message: Consider it done. I will send you the information for the drop-off point soon.

Capture 3

Reconstructed Images

reassembled.jpg



```
cat I.jpg cant.jpg in.jpg good.jpg conscience.jpg allow.jpg the.jpg U.S..jpg government.jpg  
to.jpg destroy.jpg privacy.jpg internet.jpg freedom.jpg and.jpg basic.jpg liberties.jpg for.jpg  
people.jpg around.jpg world.jpg with.jpg this.jpg massive.jpg surveillance.jpg machine.jpg  
theyre.jpg secretly.jpg building.jpg > reassembled.jpg
```

reassembled2.jpg



cat condone.jpg American.jpg web-based.jpg rights.jpg constructing.jpg security.jpg
terrorism.jpg NSA.jpg Watergate.jpg corrupt.jpg human.jpg behind.jpg closed.jpg doors.jpg >
reassembled2.jpg

reassembled3.jpg



cat there.jpg their.jpg a.jpg it.jpg but.jpg communism.jpg nor.jpg because.jpg

unconstitutional.jpg secretive.jpg secret.jpg > reassembled3.jpg

Capture 4

location_URL_decoder.py

```
f = open("locations.txt", "r")
text = f.read().splitlines()
locations = []
for i in text:
    string = i.replace(" HTTP/1.1 ", "\n") # for output to .csv file
    string = string.replace("%2C", ", ")
    split = string.split("location=")
    locations.append(split[1])

output = open("locations.csv", "w")
output.write("Latitude,Longitude\n")
for i in locations:
    output.write(i)

output.close()
```

locations.csv

Latitude,Longitude
46.85661315917969,-114.01860809326172
46.85693359375,-114.01863098144531
46.85727310180664,-114.01868438720703
46.857601165771484,-114.01866912841797
46.858055114746094,-114.01866149902344
46.8582878112793,-114.01864624023438
46.858524322509766,-114.01863861083984
46.858734130859375,-114.01864624023438
46.85884475708008,-114.01864624023438
46.858943939208984,-114.01864624023438
46.859046936035156,-114.01864624023438

46.85914993286133,-114.01864624023438
46.859466552734375,-114.01864624023438
46.85957717895508,-114.01864624023438
46.85969161987305,-114.01864624023438
46.85980987548828,-114.01864624023438
46.85993194580078,-114.01864624023438
46.86029052734375,-114.01863098144531
46.86052322387695,-114.01863861083984
46.860755920410156,-114.01863098144531
46.86098861694336,-114.01863098144531
46.861228942871094,-114.01863861083984
46.86147689819336,-114.01863098144531
46.86159896850586,-114.01863098144531
46.86183547973633,-114.01862335205078
46.862064361572266,-114.01861572265625
46.862281799316406,-114.01860046386719
46.86248779296875,-114.01860046386719
46.86260223388672,-114.01859283447266
46.86282730102539,-114.0185775756836
46.86306381225586,-114.0185775756836
46.86330032348633,-114.01856231689453
46.863426208496094,-114.0185546875
46.86355209350586,-114.01854705810547

46.86367416381836,-114.01853942871094
46.8637809753418,-114.01853942871094
46.86387252807617,-114.0185317993164
46.863704681396484,-114.01164245605469
46.86370849609375,-114.01163482666016
46.864017486572266,-114.01107025146484
46.864044189453125,-114.01074981689453
46.86404800415039,-114.01071166992188
46.86408996582031,-114.01042175292969
46.86408996582031,-114.01012420654297
46.864078521728516,-114.00962829589844
46.864070892333984,-114.0094223022461
46.86406707763672,-114.00910186767578
46.86407470703125,-114.00875854492188
46.86408233642578,-114.0084228515625
46.864051818847656,-114.0074691772461
46.864044189453125,-114.00716400146484
46.864044189453125,-114.00694274902344
46.86404800415039,-114.00680541992188
46.86405563354492,-114.00670623779297
46.864051818847656,-114.00662231445313
46.864051818847656,-114.00646209716797
46.864051818847656,-114.00627899169922

46.864051818847656,-114.00605773925781
46.864051818847656,-114.00592803955078
46.86405944824219,-114.00563049316406
46.86405944824219,-114.00534057617188
46.86405563354492,-114.00506591796875
46.864051818847656,-114.00477600097656
46.864051818847656,-114.00452423095703
46.864044189453125,-114.0042724609375
46.864044189453125,-114.00414276123047
46.86404037475586,-114.00392150878906
46.863983154296875,-114.00354766845703
46.86393356323242,-114.0035171508789
46.86381912231445,-114.00352478027344
46.863643646240234,-114.0035400390625
46.86354446411133,-114.00354766845703
46.86325454711914,-114.00360107421875
46.86309051513672,-114.00376892089844
46.86293411254883,-114.00396728515625
46.86286163330078,-114.00408172607422
46.862701416015625,-114.00432586669922
46.86253356933594,-114.00457763671875
46.862361907958984,-114.00481414794922
46.86210632324219,-114.00520324707031

46.86183547973633,-114.0055923461914
46.86166000366211,-114.00584411621094
46.86148452758789,-114.00609588623047
46.86122131347656,-114.00647735595703
46.86103057861328,-114.00672912597656
46.860843658447266,-114.00699615478516
46.86065673828125,-114.00727081298828
46.86037063598633,-114.0076675415039
46.859989166259766,-114.00820922851563
46.85979080200195,-114.00848388671875
46.85969161987305,-114.00862121582031
46.859500885009766,-114.00887298583984
46.85930252075195,-114.00914001464844
46.85910415649414,-114.00941467285156
46.8590087890625,-114.0095443725586
46.858829498291016,-114.00979614257813
46.858646392822266,-114.01005554199219
46.858375549316406,-114.01044464111328
46.858123779296875,-114.01079559326172
46.85795211791992,-114.01103973388672
46.8577880859375,-114.01127624511719
46.85765838623047,-114.0114517211914
46.857513427734375,-114.01164245605469

46.85749053955078,-114.01168823242188
46.85747146606445,-114.01171112060547
46.857418060302734,-114.01179504394531
46.85733413696289,-114.01190948486328
46.857234954833984,-114.01204681396484
46.857181549072266,-114.01212310791016
46.85708236694336,-114.01225280761719
46.85697937011719,-114.01237487792969
46.856834411621094,-114.01256561279297
46.85672378540039,-114.01271057128906
46.856597900390625,-114.01287078857422
46.85647201538086,-114.01302337646484
46.856319427490234,-114.01313018798828