



Network Forensics Investigation

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ABSTRACT

This report contains a forensic analysts' findings during an investigation on a series of packet capture (PCAP) files. These PCAP files have been gathered in relation to corruption in an international sporting event. This report provides evidence that a suspect known as "Kim Ill-Song" attempts to bribe several officials affiliated with the event, these bribes are in effort to get the Chess Boxing event to be held in Pyongyang, North Korea. Various sensitive files were also downloaded by a suspect, these files were extracted by the forensic analyst and are provided within this report. During the investigation of the final PCAP it is discovered that the suspect known as "Kim Ill-Song" could potentially be using a fake name, or just pretending to be "Kim Ill-Song". This is discovered during a conversation between "Ill-Song" and a person named "Ann Decover", during this conversation the two also arrange a meeting.

Contents

Abstract.....	2
1 Introduction	5
1.1 Background	5
1.2 Tools Used.....	6
2 Investigation of Capture 1.....	7
3 Investigation of Capture 2.pcap.....	11
4 Investigation of Capture 3.pcap.....	13
5 Investigation of Capture 4.pcap.....	21
6 References	25
7 Appendices.....	26
7.1 Capture 1.pcap.....	26
Appendix A – GoT Spoilers.docx	26
Appendix B –NorthKorea.docx.....	26
Appendix C – PiD.docx	26
Appendix D – NK.jpg	27
Appendix E – Rules 1.docx	27
Appendix F – Rules 2.docx	29
Appendix G – Rules 3.docx.....	29
Appendix H – Rules 4.docx.....	29
Appendix I – Rules 5.docx	29
Appendix J – Rules 6.docx.....	32
Appendix K – Rules 7.docx	32
Appendix L - track6.docx.....	32
Appendix M - track10.docx.....	33
Appendix N – BillOfRights.txt.....	35
Appendix O- NorthKorea.jpeg.....	44
Appendix P - GoT Spoilers.docx Decoded	44
Appendix Q - NorthKorea.docx Decoded.....	44
Appendix R – PiD.docx Decoded	45
Appendix S – Rules 1.docx Decoded	45
Appendix T – Rules 2.docx Decoded	46
Appendix U – Rules 3.docx Decoded.....	46
Appendix V – Rules 4.docx Decoded.....	47

Appendix W – Rules 5.dockx Decoded.....	47
Appendix X – Rules 6.dockx Decoded	49
Appendix Y – Rules 7.dockx Decoded	50
Appendix Z – track6.dockx Decoded.....	50
Appendix AA – track10.dockx Decoded.....	51
Appendix AB – Broken.py.....	54
Appendix AC – Email Chain	55
7.2 Capture2.pcap.....	56
Appendix AD - TCP stream 0	56
Appendix AE - ILL_SONG DECODED	63
Appendix AF - RAZOR DECODED	64
Appendix AG - Genius DECODED	65
Appendix AH - Method DECODED	66
Appendix AI - Killah DECODED	67
Appendix AJ - Raekwon DECODED.....	68
Appendix AK - ILL_SONG -> RAZOR DECODED IRC CONVERSATIONS.....	68
Appendix AL - ILL_SONG -> GENIUS DECODED IRC CONVERSATIONS.....	69
Appendix AM - ILL_SONG -> METHOD DECODED IRC.....	69
Appendix AN - ILL_SONG -> KILLAH DECODED IRC CONVERSATIONS	69
Appendix AO - ILL_SONG -> RAEKWON DECODED IRC CONVERSATIONS	69
7.3 Capture3.pcap.....	70
Appendix AP – Cat Command for Image1.....	70
Appendix AQ - Cat Command for Image1.....	70
Appendix AR - Cat Command for Image1	70
7.4 Capture4.pcap.....	70
Appendix AS – Coordinates.....	70

1 INTRODUCTION

1.1 BACKGROUND

This report details the finding of a network forensics investigation, this investigation was conducted on 4 packet capture (PCAP) files. These files were recovered regarding an international sporting competition corruption investigation. This report follows the work of a forensic investigator's investigation into the packets to discover any evidence of corruption and the individuals involved.

An essential part of any forensic investigation is integrity, this is to ensure that when the evidence is provided cannot be suppressed due to its inaccuracy. If the integrity of evidence is in question it could potentially change the outcome of a case, due to it no longer being a reliable source. To ensure the integrity of the data gathered for this investigation SHA1 hashes were created for the PCAP files by the investigator, these hashes will prove that all the data recovered for this investigation is forensically sound. The hashes for each of the PCAP files can be seen in figure A.

```
PS Y:\University\Year 4\Digital Forensics\Network Forensics coursework\CHP416 Network Forensics Coursework PCAPs> Get-FileHash "Capture 1.pcap" -Algorithm SHA1 | Format-List
Algorithm : SHA1
Hash      : B6D543E4B6463C31383142D2F2C66D4B2AD2757E
Path      : Y:\University\Year 4\Digital Forensics\Network Forensics coursework\CHP416 Network Forensics Coursework PCAPs\Capture 1.pcap

PS Y:\University\Year 4\Digital Forensics\Network Forensics coursework\CHP416 Network Forensics Coursework PCAPs> Get-FileHash "Capture 2.pcap" -Algorithm SHA1 | Format-List
Algorithm : SHA1
Hash      : 65409E915F815EEAE8B8C4CC294AF38DB29F5D7DF
Path      : Y:\University\Year 4\Digital Forensics\Network Forensics coursework\CHP416 Network Forensics Coursework PCAPs\Capture 2.pcap

PS Y:\University\Year 4\Digital Forensics\Network Forensics coursework\CHP416 Network Forensics Coursework PCAPs> Get-FileHash "Capture 3.pcap" -Algorithm SHA1 | Format-List
Algorithm : SHA1
Hash      : 0E2DF5B49B70C2C903CD090EFEFE8BE686E0DBE1
Path      : Y:\University\Year 4\Digital Forensics\Network Forensics coursework\CHP416 Network Forensics Coursework PCAPs\Capture 3.pcap

PS Y:\University\Year 4\Digital Forensics\Network Forensics coursework\CHP416 Network Forensics Coursework PCAPs> Get-FileHash "Capture 4.pcap" -Algorithm SHA1 | Format-List
Algorithm : SHA1
Hash      : 79F1C2FEE4C7EE56A875736D6D33CFE8FCB7C13C
Path      : Y:\University\Year 4\Digital Forensics\Network Forensics coursework\CHP416 Network Forensics Coursework PCAPs\Capture 4.pcap
```

Figure A- PCAP SHA1 Hashes

The PCAP files were then placed inside a Kali Linux virtual machine, once inside the virtual machine the hashes were checked and compared to the original ones in figure A to ensure no data had been changed. In figure B the files hashes while in the Kali machine can be seen. On comparison the hashes were the same, meaning no data has been compromised. (Sethi & Singh, 2020)

```
root@kali:~/Desktop# sha1sum Capture\ 1.pcap
b6d543e4b6463c31383142d2f2c66d4b2ad2757e Capture 1.pcap
root@kali:~/Desktop# sha1sum Capture\ 2.pcap
65409e915f815eeaeb8c4cc294af38db29f5d7df Capture 2.pcap
root@kali:~/Desktop# sha1sum Capture\ 3.pcap
0e2df5b49b70c2c903cd090efefe8be686e0dbe1 Capture 3.pcap
root@kali:~/Desktop# sha1sum Capture\ 4.pcap
79f1c2fee4c7ee56a875736d6d33cfe8fcb7c13c Capture 4.pcap
```

Figure B – PCAP SHA1 Hashes on Linux Machine

1.2 TOOLS USED

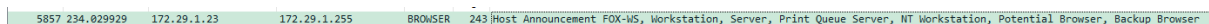
The investigator used various tools throughout the investigation, the following is the tools used by the investigator:

- Wireshark (Wireshark, 2021)
- NetworkMiner (Netresec, 2021)
- CyberChef (GCHQ, 2021)
- Earth Point (Earth Point, 2021)
- GoogleEarth (Google, 2021)
- MD5 Online - A MD5 online hash cracking tool (MD5Online, 2021)
- Kali Linux (OffSec Services Limited, 2021)

2 INVESTIGATION OF CAPTURE 1

The Capture 1 PCAP file follows the corruption investigation by looking into a suspected bribery, the suspect in this investigation has downloaded various files. The forensic investigator must discover what these files contain, which ones were sent, as well as any potential names/aliases discovered, using the information provided.

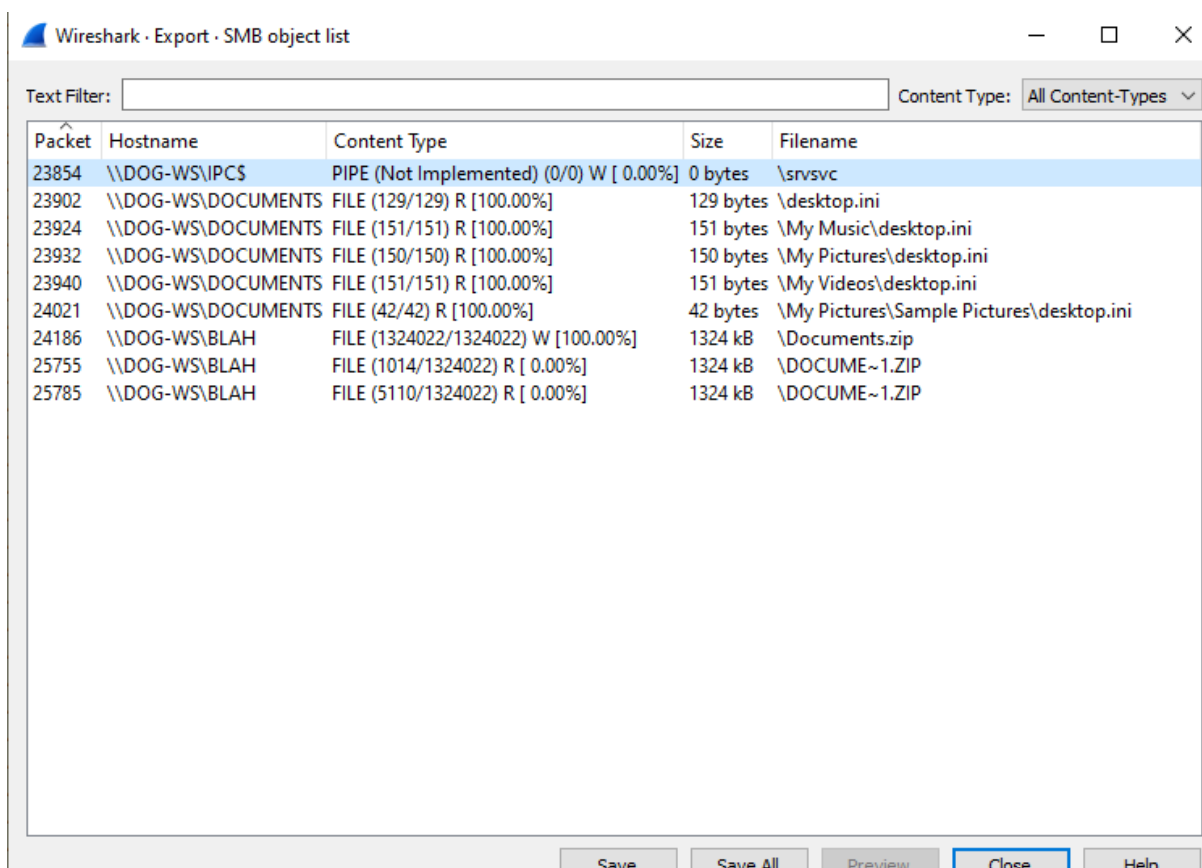
When viewing the PCAP file within Wireshark a large amount of traffic can be seen, however, there are several packets using the Server Message Back (SMB) protocol. The SMB protocol allows for network file sharing, this makes the SMB traffic a point of interest for the investigation. Due to the SMB protocol being present within the PCAP file it can be determined that these files have successfully been transferred. Using Wireshark the capture was filtered to only show SMB traffic, with this filter in place the starting packet was found to be packet 5857, this packet shows the IP address of the suspect being 172.29.1.23. Packet 5857 can be seen in figure C.



5857	234.029929	172.29.1.23	172.29.1.255	BROWSER	243	Host Announcement FOX-WS, Workstation, Server, Print Queue Server, NT Workstation, Potential Browser, Backup Browser
------	------------	-------------	--------------	---------	-----	--

Figure C- Packet 5857

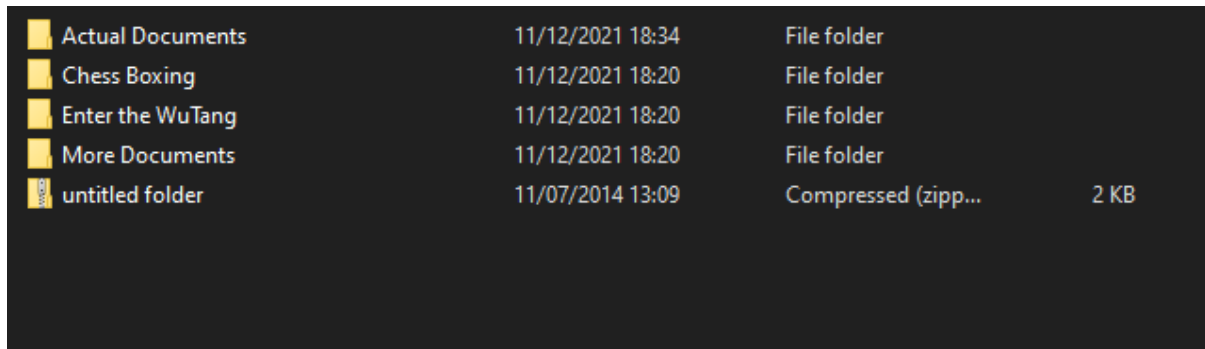
Using Wireshark the SMB objects were then exported, this export can be seen in figure D.



Packet	Hostname	Content Type	Size	Filename
23854	\\DOG-WS\IPC\$	PIPE (Not Implemented) (0/0) W [0.00%]	0 bytes	\srvsvc
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%]	1324 kB	\Documents.zip
25755	\\DOG-WS\BLAH	FILE (1014/1324022) R [0.00%]	1324 kB	\DOCUME~1.ZIP
25785	\\DOG-WS\BLAH	FILE (5110/1324022) R [0.00%]	1324 kB	\DOCUME~1.ZIP

Figure D - SMB Objects

The exported objects reveal all files that have been transferred using the SMB protocol. Packet 24186 shows a file called “Documents.zip”, this file was downloaded by the forensic analyst for further investigation. Once downloaded the document was unzipped and the files it contained were revealed, within the document several folders were discovered alongside another zip file. The contents of “Documents.zip” can be seen in figure E.



Actual Documents	11/12/2021 18:34	File folder	
Chess Boxing	11/12/2021 18:20	File folder	
Enter the WuTang	11/12/2021 18:20	File folder	
More Documents	11/12/2021 18:20	File folder	
untitled folder	11/07/2014 13:09	Compressed (zipp...	2 KB

Figure E - Documents.zip Contents

Each folder along with the files they contained were then reviewed by the forensic analyst. Within the folders discovered were various “.docx”, “.txt”, and “.jpg” files, the “.docx” files all contained encoded messages. The “.zip” file titled “untitled folder” was then unzipped, this revealed nothing relevant to the investigation as it just contained more untitled or empty folders. The contents of “untitled folder” can be seen in figure F.

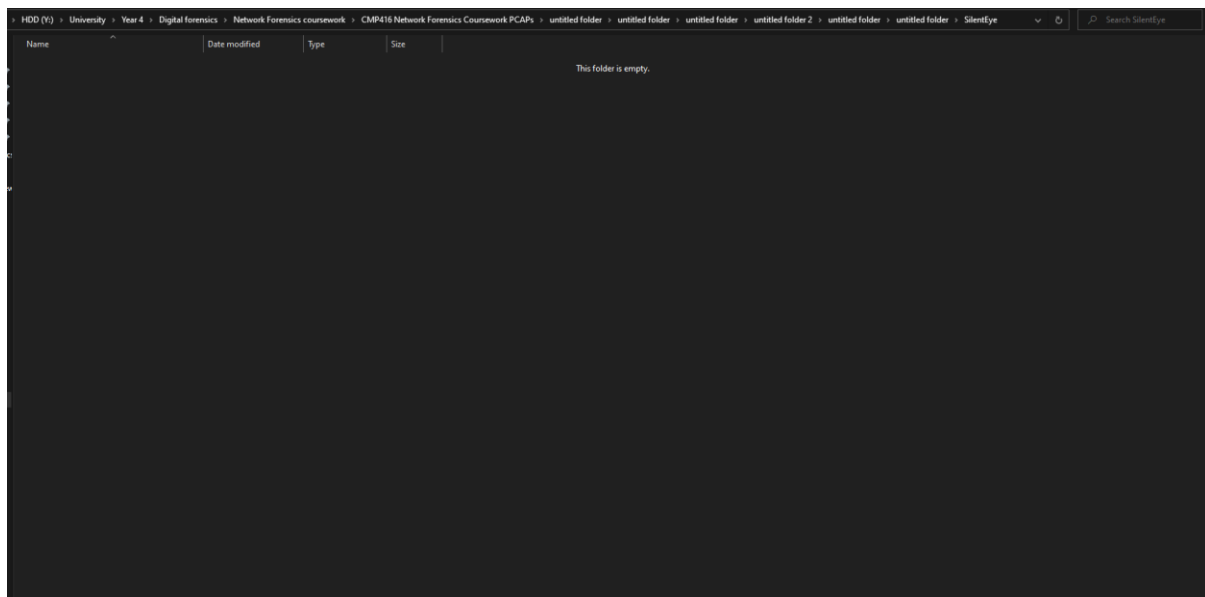


Figure F - Untitled Folder Contents

The encoded messages were then further analysed. It was discovered that the messages were encoded using Base64, this is evident due to the “=” sign found at the end of each message, this is the typical format for Base64. Figure G shows the Base64 Encoded message for file “GoT Spoilers”.

Sm9ulFNub3cgYnVybnMgZG93biBXaW
50ZXJmZWxsIChhZ2FpbikgYW5kIHRo
ZSBXYWxsLg0KDQplb2RvciBraWxscy
BUaGVvbi4NCg0KRGFibmVyeXMgZ2V
0cyBIYXRlbiBieSBhIGRyYWdvbi4NCg0
KU3Rhbm5pcyBmYWxscyBpbiBsb3ZlIH
dpdGggVHllyaW9uLiANCg0KDQo=

Figure G - GoT Spoilers Encoded Message

Using CyberChef the encoded messages found within “Documents.zip” were decoded. The contents of “Documents.zip” can be found in Appendices A-O, with the decoded versions of the documents being found in appendices P-AA. While most of the information decoded provides no assistance to the investigation, a file named “Track6.docx” contained an encoded message which reveals a list of 14 aliases/usernames. The encoded and decoded messages of “Track6.docx” can be found in appendix L & AA respectively.

Additionally, the file “Northkorea.jpeg” was found to be significantly larger than a jpeg of similar quality, due to this the tool Binwalk was used to see if “NorthKorea.jpeg” contained any hidden files. Using the Binwalk command seen in figure H a hidden python file was revealed. This file can be seen in figure I, with its contents being in appendix AB.

```
root@kali:~/Desktop# binwalk NorthKorea.jpeg -e
```

DECIMAL	HEXADECIMAL	DESCRIPTION
0	0x0	JPEG image data, JFIF standard 1.01
3453	0xD7D	Zip archive data, at least v2.0 to extract, name: untitled/
3492	0xDA4	Zip archive data, at least v2.0 to extract, compressed size: 604, uncompressed size: 1397, name: untitled/broken.py
4263	0x10A7	End of Zip archive, footer length: 22

Figure H- Binwalk Command

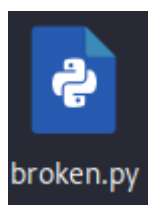


Figure I - Discovered Python File

The forensic analyst also used NetworkMiner to analyse the PCAP file, using this tool an email chain was discovered. The email chain is between Edward Snowden and Julian Assange, this chain can be seen in figure J with the full conversation found in appendix AC. The chain has Snowden asking Assange to review a PCAP file, with Assange saying they will look over it and asking if Snowden can send over more documents relating to the ongoing scandal.

Frame nr.	Source host	Destination host	From	To	Subject	Protocol	Timestamp	
19588	172.29.1.20 [dog-ws.local] [DOG-WS] [DOG-WS-20:] [DO...	205.188.16.197 [mail.aol.com]	wikiofeaks@aol.com	snowednedward@aol.com,	Re: Urgent	Htp	2014-07-11 20:18:59	requests automatic false
21557	172.29.1.23 [FOX-WS-20:] [FOX-WS] (Windows)	64.12.132.55 [mail.aol.com] [mail.aol.com aol.akadns.net]	snowednedward@aol.com	wikiofeaks@aol.com,	Re: Urgent	Htp	2014-07-11 20:20:45	From wikiofeaks@aol.com
23139	172.29.1.20 [dog-ws.local] [DOG-WS] [DOG-WS-20:] [DO...	205.188.16.197 [mail.aol.com]	wikiofeaks@aol.com	snowednedward@aol.com,	Re: Urgent	Htp	2014-07-11 20:21:40	To snowednedward@aol.com,
								Co:
								Bcc:
								Subject Re: Urgent
								RichBody <font color=
								< >
								Windows-1252 Western European (Windows)
								Snowednedward,
								I will look at that pcap as soon as I can. Can you also send me the documents you have collected during research of that recent scandal.
								-----Original Message-----
								From: Edward Snowden <snowednedward@aol.com>
								To: wikiofeaks <wikiofeaks@aol.com>
								Sent: Fri, Jul 11, 2014 2:03 pm
								Subject: Urgent
								Hello friend,
								I have a pcap I would like you to look through. Could be useful.
								Snowednedward

Figure J - Edward Snowden and Julian Assange Email Chain

Finally, in packet 23844 the name of the user that created the SMB session can be seen, the users name is “fox-ws/test”. This packet can be seen in figure K.

23844	642.004966	172.29.1.23	172.29.1.20	SMB	504 Session Setup AndX Request, NTLMSSP_AUTH, User: fox-ws\test
-------	------------	-------------	-------------	-----	---

Figure K - Packet 23844

Table 1 – Message User information

Name	Decryption Method	Location	Corruption	Bribe Details
Ill-Song	Base64 > Base32 > Plain text	Pyongyang	Foreign National	Initiates Communications and offers bribes
Razor	Base64 > Hex > Plain text	Paris	Corrupt Official	Accepted \$700,000 bribe
Genius	Base64 > Octal > Plain text	Caracas	Suspected Corrupt Official	Agrees to meet with Ill_Song at a future date
Method	Base64 > Hex > Plain text	Unkown	Official	Refused bribe
Killah	Base64 > Octal > Plain text	Qatar	Official	Refused bribe
Raekwon	Base64 > Hex > Plain text	Russia	Corrupt Official	Accepts 20 Million Ruble bribe

From the communications seen in appendixes AK-AO and the information summarised in table 1, it is shown that 2 of the officials suspected of corruption accepted a bribe off the foreign national. While 2 officials accepted the bribe 1 user, Genius, arranged to meet with the foreign national at a separate location. The rest of this discussion then took place over a more secure channel and was not recovered. Due to this it cannot be confirmed or denied if Genius accepted the bribe from the PCAP file alone. Additionally, part Genius’s conversation was encrypted using an MD5 hash, the MD5 hash being cracked can be seen in figure M.

MD5 Decryption

Enter your MD5 hash below and cross your fingers :

☒ Quick search (free)
☐ In-depth search (1 credit)

Decrypt

Found : Caracas

(hash = c9fa5b8cb3b197ae5ce4baf8415a375b)

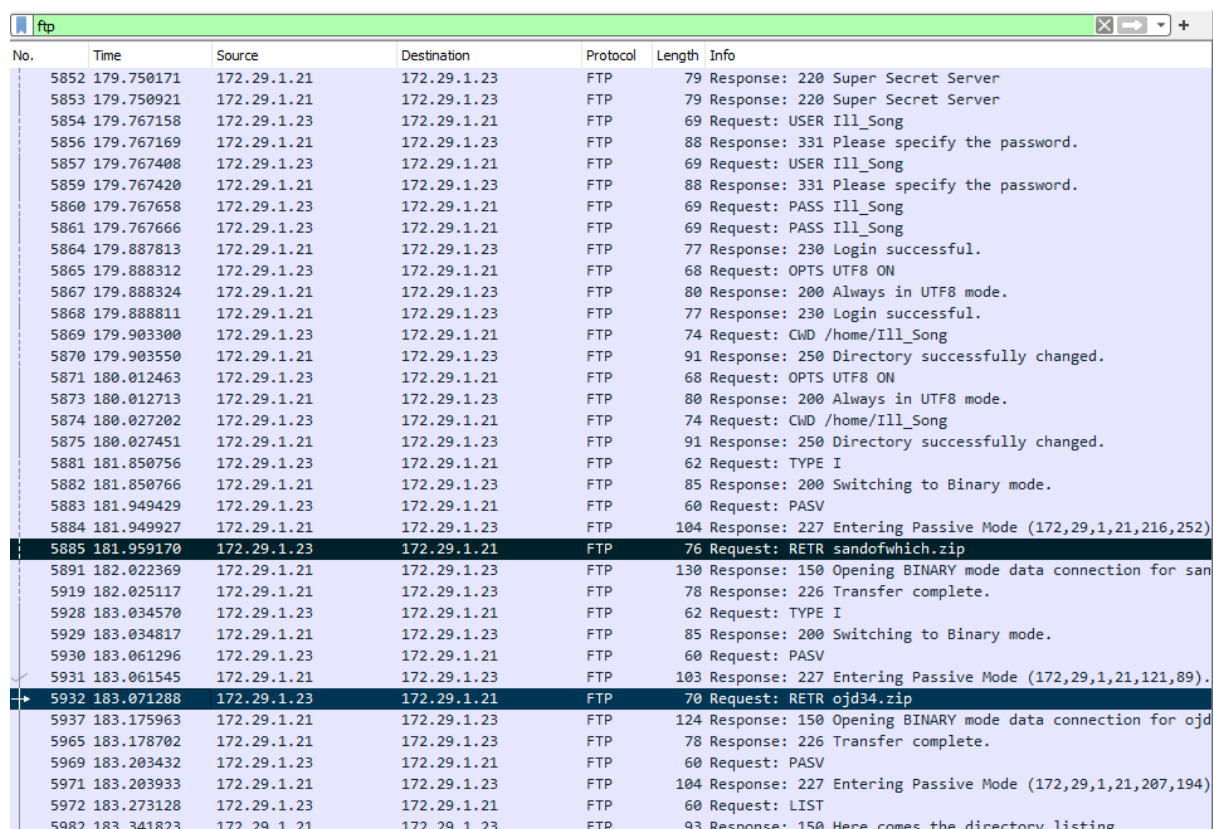
Figure M - MD5 Hash Cracking

Table 1 states the locations of the users, this can be determined by the dialogue from the foreign national and the officials. Such as Raekwon being offered a bribe in ruble’s implying they’re from Russia, or Razor, in their conversation the “City of Love” is mentioned implying they are from Paris.

4 INVESTIGATION OF CAPTURE 3.PCAP

Capture 3.pcap contains FTP traffic that has been picked up due to communication between a suspected corrupt official and a foreign national. The forensic investigator has been tasked with decoding this traffic and to create a summary of any evidence discovered.

The PCAP file was placed in Wireshark, FTP packets were filtered for. In filtering to just see the FTP packets it revealed that two files have been sent. Figure N shows an overview of the FTP traffic with the packets that sent the files highlighted, the names of the files that were sent are “sandofwhich.zip” and “ojd34.zip”.

The image shows a Wireshark packet capture window with the filter 'ftp' applied. The packet list pane displays a series of FTP protocol packets. Two packets are highlighted in blue: packet 5885 (Request: RETR sandofwhich.zip) and packet 5932 (Request: RETR ojd34.zip). The packet details pane on the right shows the structure of the selected packet, including the 'Request' field and the 'File Name' field.

No.	Time	Source	Destination	Protocol	Length	Info
5852	179.750171	172.29.1.21	172.29.1.23	FTP	79	Response: 220 Super Secret Server
5853	179.750921	172.29.1.21	172.29.1.23	FTP	79	Response: 220 Super Secret Server
5854	179.767158	172.29.1.23	172.29.1.21	FTP	69	Request: USER Ill_Song
5856	179.767169	172.29.1.21	172.29.1.23	FTP	88	Response: 331 Please specify the password.
5857	179.767408	172.29.1.23	172.29.1.21	FTP	69	Request: USER Ill_Song
5859	179.767420	172.29.1.21	172.29.1.23	FTP	88	Response: 331 Please specify the password.
5860	179.767658	172.29.1.23	172.29.1.21	FTP	69	Request: PASS Ill_Song
5861	179.767666	172.29.1.21	172.29.1.23	FTP	69	Request: PASS Ill_Song
5864	179.887813	172.29.1.21	172.29.1.23	FTP	77	Response: 230 Login successful.
5865	179.888312	172.29.1.23	172.29.1.21	FTP	68	Request: OPTS UTF8 ON
5867	179.888324	172.29.1.21	172.29.1.23	FTP	80	Response: 200 Always in UTF8 mode.
5868	179.888811	172.29.1.21	172.29.1.23	FTP	77	Response: 230 Login successful.
5869	179.903300	172.29.1.23	172.29.1.21	FTP	74	Request: CWD /home/Ill_Song
5870	179.903550	172.29.1.21	172.29.1.23	FTP	91	Response: 250 Directory successfully changed.
5871	180.012463	172.29.1.23	172.29.1.21	FTP	68	Request: OPTS UTF8 ON
5873	180.012713	172.29.1.21	172.29.1.23	FTP	80	Response: 200 Always in UTF8 mode.
5874	180.027202	172.29.1.23	172.29.1.21	FTP	74	Request: CWD /home/Ill_Song
5875	180.027451	172.29.1.21	172.29.1.23	FTP	91	Response: 250 Directory successfully changed.
5881	181.850756	172.29.1.23	172.29.1.21	FTP	62	Request: TYPE I
5882	181.850766	172.29.1.21	172.29.1.23	FTP	85	Response: 200 Switching to Binary mode.
5883	181.949429	172.29.1.23	172.29.1.21	FTP	60	Request: PASV
5884	181.949927	172.29.1.21	172.29.1.23	FTP	104	Response: 227 Entering Passive Mode (172,29,1,21,216,252)
5885	181.959170	172.29.1.23	172.29.1.21	FTP	76	Request: RETR sandofwhich.zip
5891	182.022369	172.29.1.21	172.29.1.23	FTP	130	Response: 150 Opening BINARY mode data connection for sandofwhich.zip
5919	182.025117	172.29.1.21	172.29.1.23	FTP	78	Response: 226 Transfer complete.
5928	183.034570	172.29.1.23	172.29.1.21	FTP	62	Request: TYPE I
5929	183.034817	172.29.1.21	172.29.1.23	FTP	85	Response: 200 Switching to Binary mode.
5930	183.061296	172.29.1.23	172.29.1.21	FTP	60	Request: PASV
5931	183.061545	172.29.1.21	172.29.1.23	FTP	103	Response: 227 Entering Passive Mode (172,29,1,21,121,89)
5932	183.071288	172.29.1.23	172.29.1.21	FTP	70	Request: RETR ojd34.zip
5937	183.175963	172.29.1.21	172.29.1.23	FTP	124	Response: 150 Opening BINARY mode data connection for ojd34.zip
5965	183.178702	172.29.1.21	172.29.1.23	FTP	78	Response: 226 Transfer complete.
5969	183.203432	172.29.1.23	172.29.1.21	FTP	60	Request: PASV
5971	183.203933	172.29.1.21	172.29.1.23	FTP	104	Response: 227 Entering Passive Mode (172,29,1,21,207,194)
5972	183.273128	172.29.1.23	172.29.1.21	FTP	60	Request: LIST
5982	183.341823	172.29.1.21	172.29.1.23	FTP	93	Response: 150 Here comes the directory listing.

Figure N - FTP Traffic Overview

To access the ZIP files 2 TCP Streams must be filtered for, by filtering on TCP stream 158 the raw data for “sandofwhich.zip” can be viewed. This raw data can then be saved as a ZIP file to recover the data for “sandofwhich.zip”. To access “ojd34.zip” the same process was used but by filtering on TCP stream 159, using this method both ZIP files were successfully recovered by the forensic analyst. Figure O shows an overview of the raw data for TCP stream 158.



Figure O - FTP Stream 158

With the ZIP files successfully recovered they were then opened, upon opening them both files contained various JPEG files with 1 word file names. The JPEGs found in both ZIP files can be seen in figures P & Q.

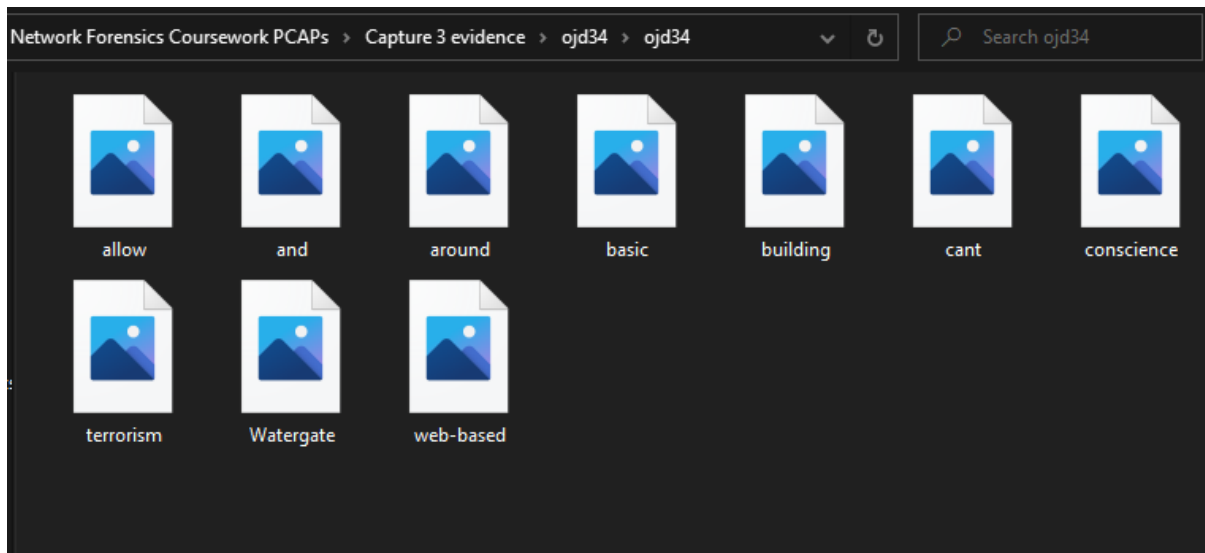


Figure P - ojd34 File Contents

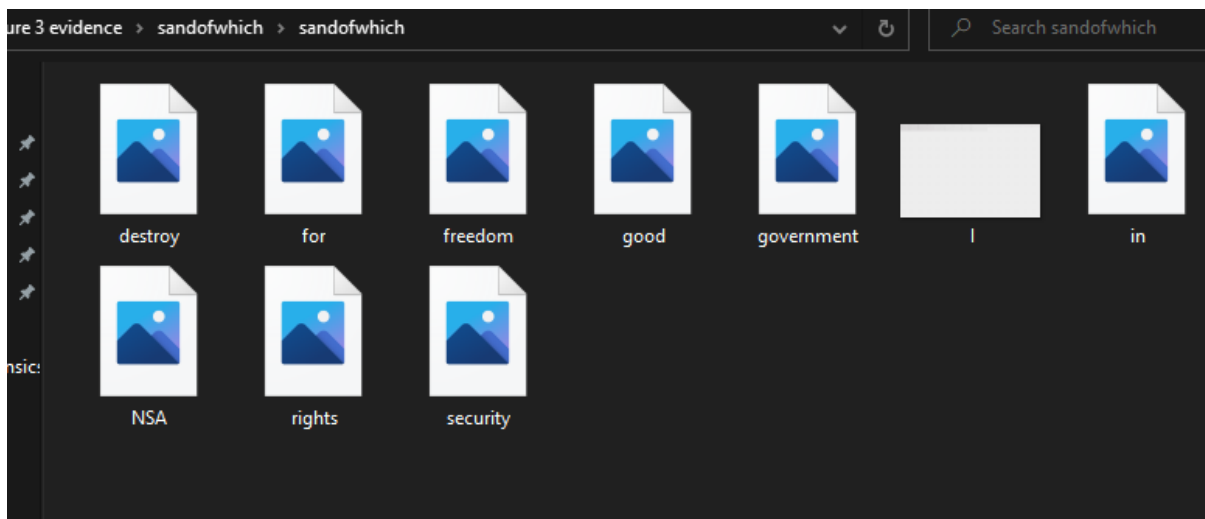


Figure Q - sandofwhich File Contents

When attempting to open the JPEG files, they are unable to be displayed due to them having incomplete data. However, one file titled "I.jpeg" can be opened, once opened most of the displayed image is grey. Due to this it can be assumed that some of the data needed for this image is missing. "I.jpeg" can be seen in figure R.

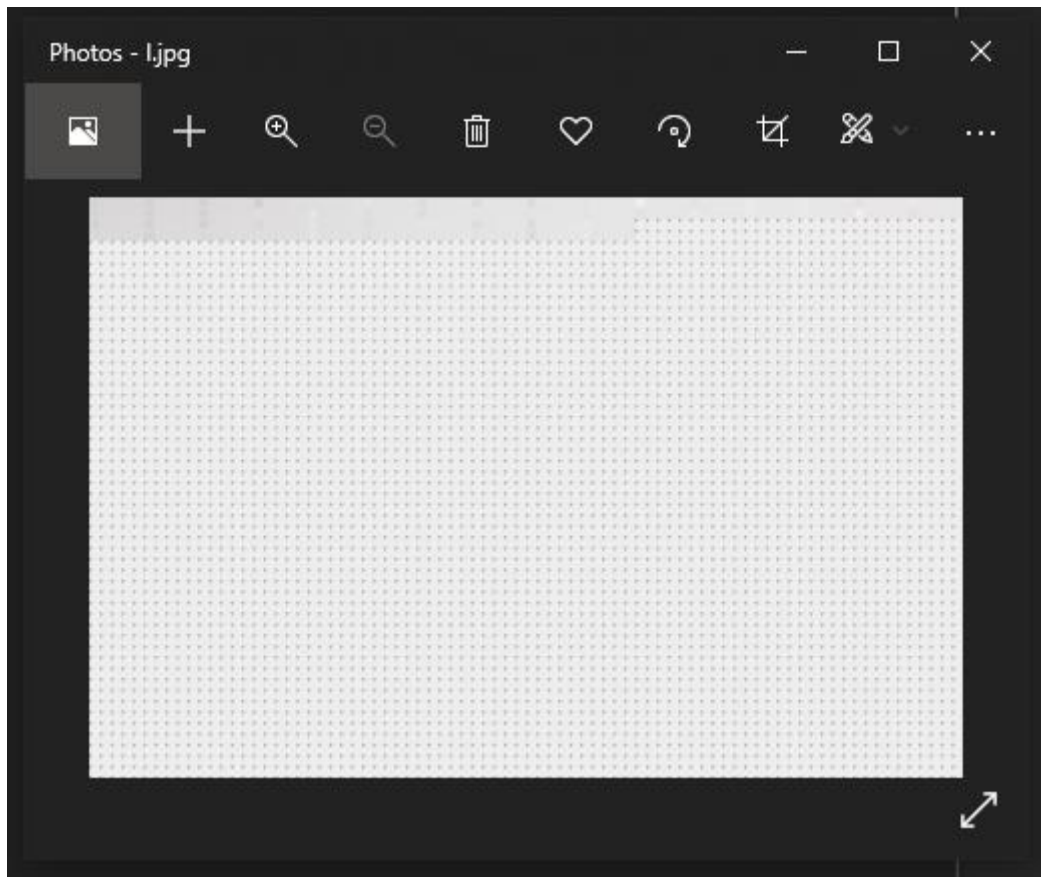


Figure R - I.jpeg

Due to the files having single word file names the forensic analyst investigated the possibility of the file names containing a hidden message in an anagram like manner. Upon this investigation it appears as if the file names are in reference to an Edward Snowden quote being “I can’t in good conscience allow the U.S. 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. However, while it appears that the file names are a reference to this quote, the quote is not fully complete. This suggests that there are further files to be discovered.

Within the Kali machine “capture3.pcap” was then placed within Wireshark, when within Wireshark TCP stream 42 was followed and the raw data was saved as a default file called “stream42”. Using the Binwalk command seen in figure S various files were extracted from the raw data.

```
root@kali:~/Desktop# binwalk stream42 -e
```

Figure S - Binwalk Command on stream42

This revealed several files which can be seen in figure T however, the files that are most relevant to this investigation are the folders “34jdsioj”, “breaking_bas_season_6”, and “canc3l”.

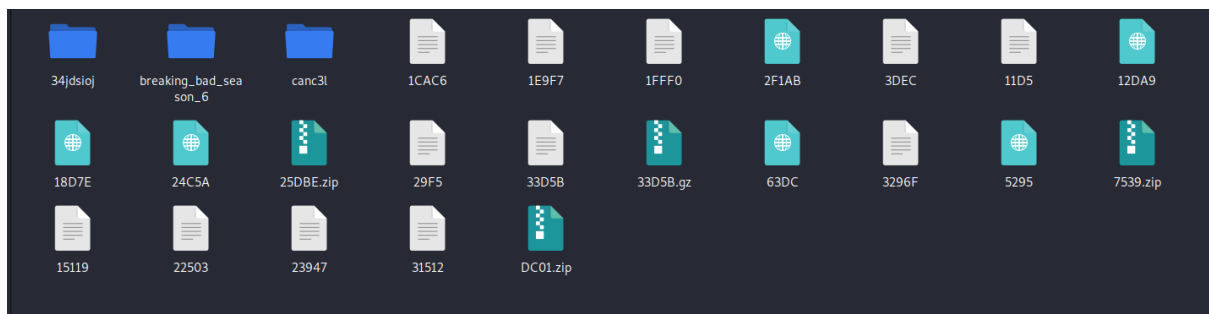


Figure T - Binwalk command Results

These folders contained more broken images with single word file names. The names of these files allow for Snowden's quote to be completed. The contents of these folders can be seen in figures U-W

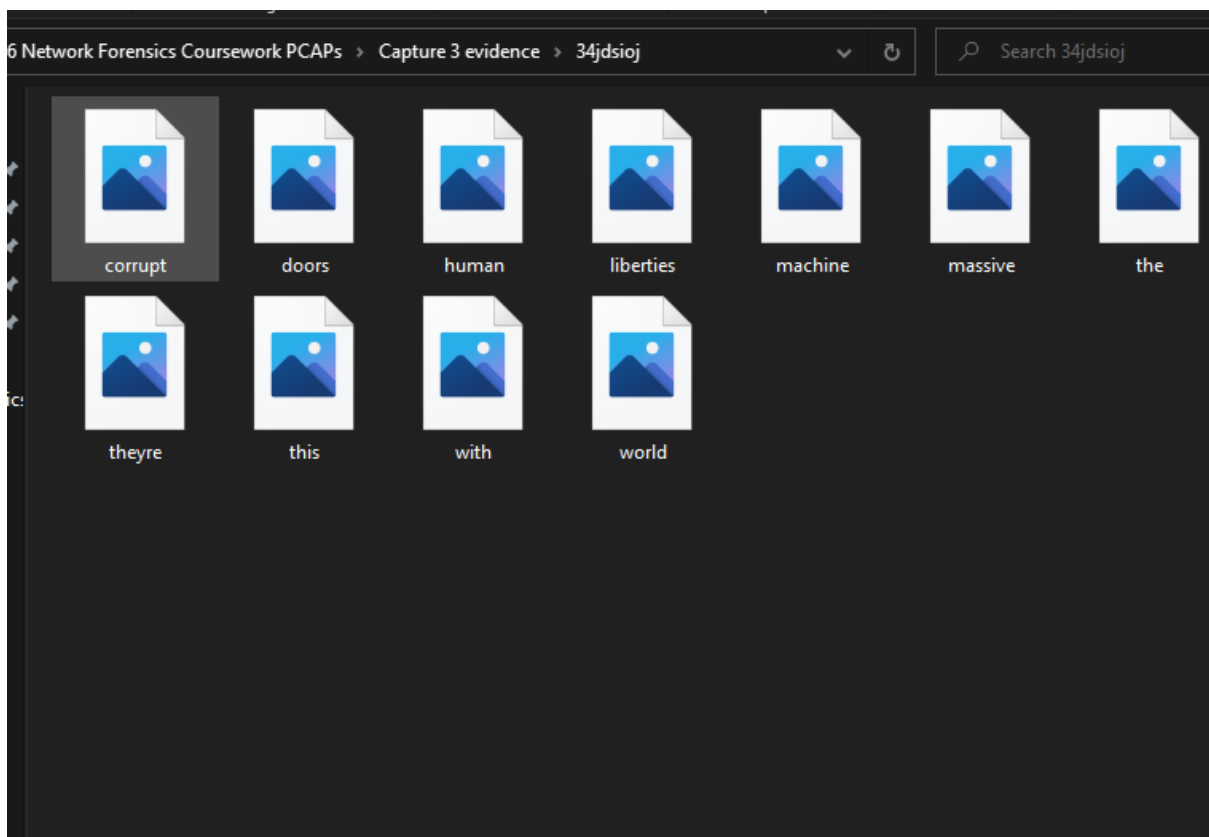


Figure U - 34jdsioj File Contents

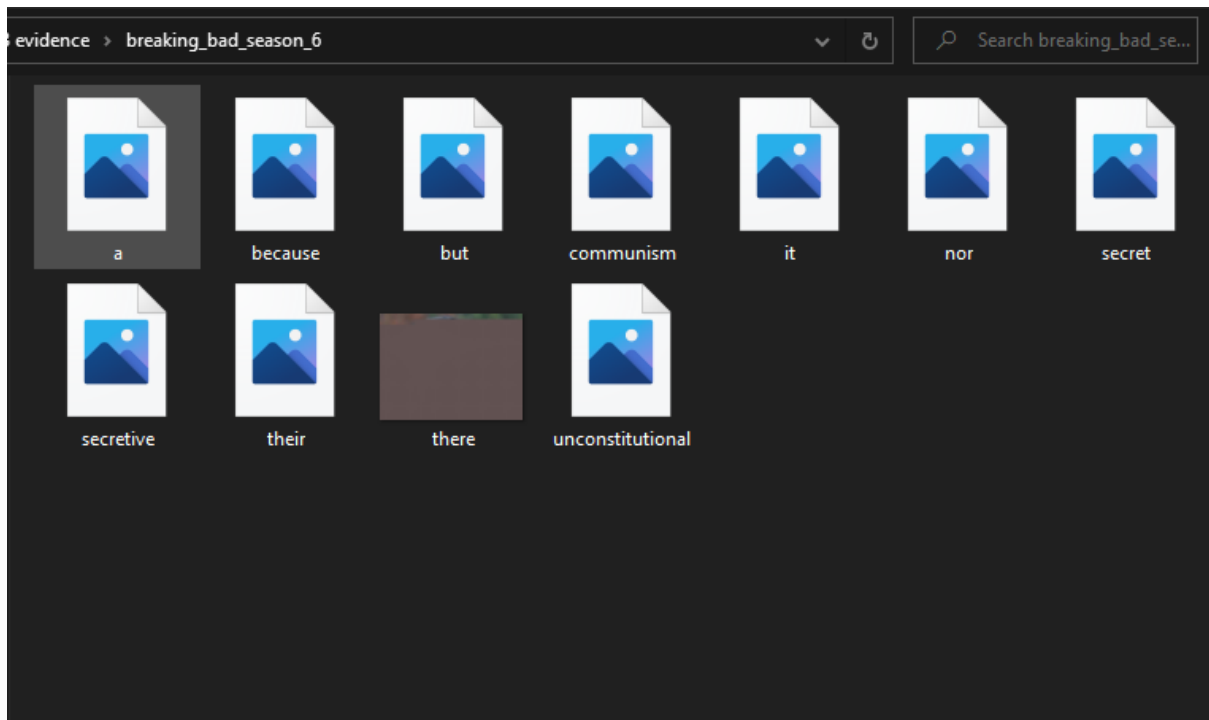


Figure V - breaking_bad_season_6 File Contents

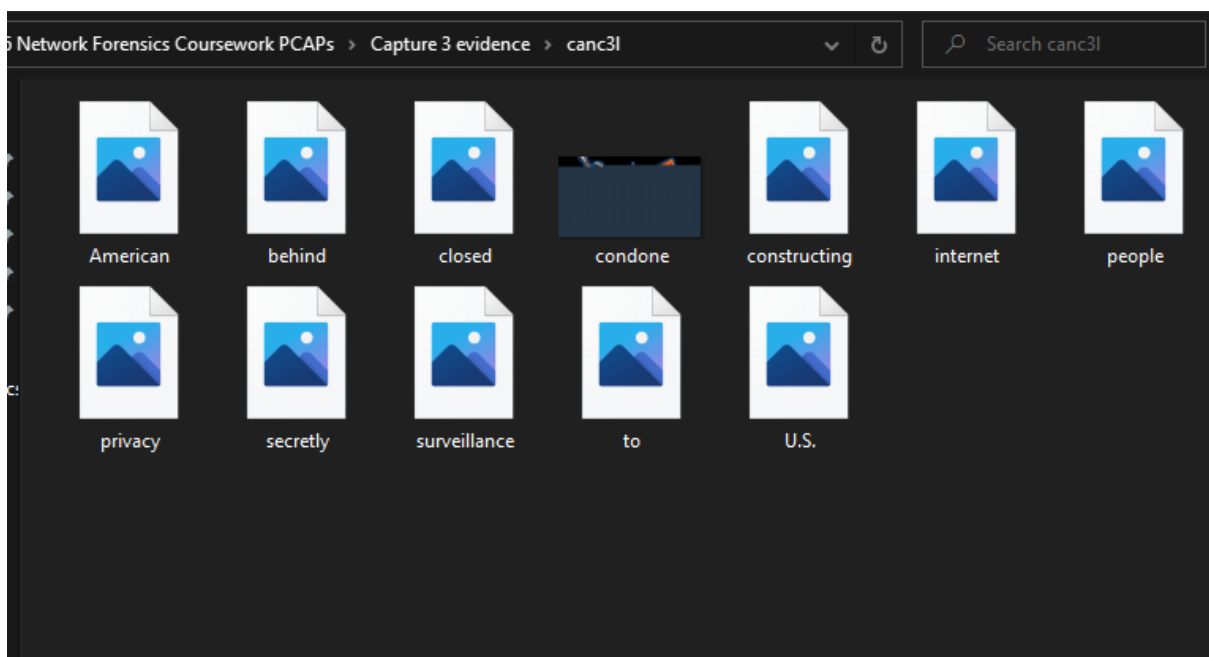


Figure W - canc3l File Contents

To complete the 3 broken images that were discovered the cat command was used within the Linux machine, in doing this the 3 images had completed data and were reassembled. The cat commands used can be seen in appendices AP-AR. Additionally, the fully reassembled images can be seen in figures X-Z.



Figure X - Image1



Figure Y - Image2



Figure Z - Image3

Additionally, when the PCAP file was placed in network miner an email was discovered. This email shows further communication between both genius and Ill-song and can be seen in figure AA.

Hosts (836) Files (655) Images (253) Messages (1) Credentials (217) Sessions (534) DNS (1926) Parameters (20177) Keywords Anomalies									
Filter keyword:									
<input type="checkbox"/> Case sensitive ExactPhrase Any column Clear Apply									
Frame nr.	Source host	Destination host	From	To	Subject	Protocol	Timestamp	Attribute	
504	172.29.1.23 (Windows)	205.188.138.183 (mail.aol.com)	da.genius36@aol.com	kim.illsong@aol.com	Urgent	Http	2014-07-03 20:34:17 UTC	103	Value
								requests	[{"From":"da.genius36@aol.com","To":"kim.illsong@aol.c...
								automatic	false
								From	da.genius36@aol.com
								To	kim.illsong@aol.com
								Cc	
								Bcc	
								Subject	Urgent
								PlainBody	You have made a bold claim but i'd like to see some proof.
								RichEdit	false
Windows-1252 Western European (Windows)									
You have made a bold claim but i'd like to see some proof.									

Figure AA - Email from genius to Ill-song

5 INVESTIGATION OF CAPTURE 4.PCAP

Capture 4.pcap has uncovered communication traffic between Ann Dercover who is a known person of interest that is taking part in this international competition and Ill-Song. It is believed that they are aiming to set up a secret meeting to avoid detection. The forensic analyst has been tasked with discovering the details of their conversation along with the date and time of their meeting.

Once the file has been placed within Wireshark the forensic analyst first filtered for HTTP traffic. An overview of the HTTP traffic confirms that there are communications via this protocol additionally, from viewing the HTTP traffic various messages sent by Ann Dercover can be seen. This is shown in figure AB where packet 3256 has “message/text/send”, when investigating this packet, it contains both the senders name and message.

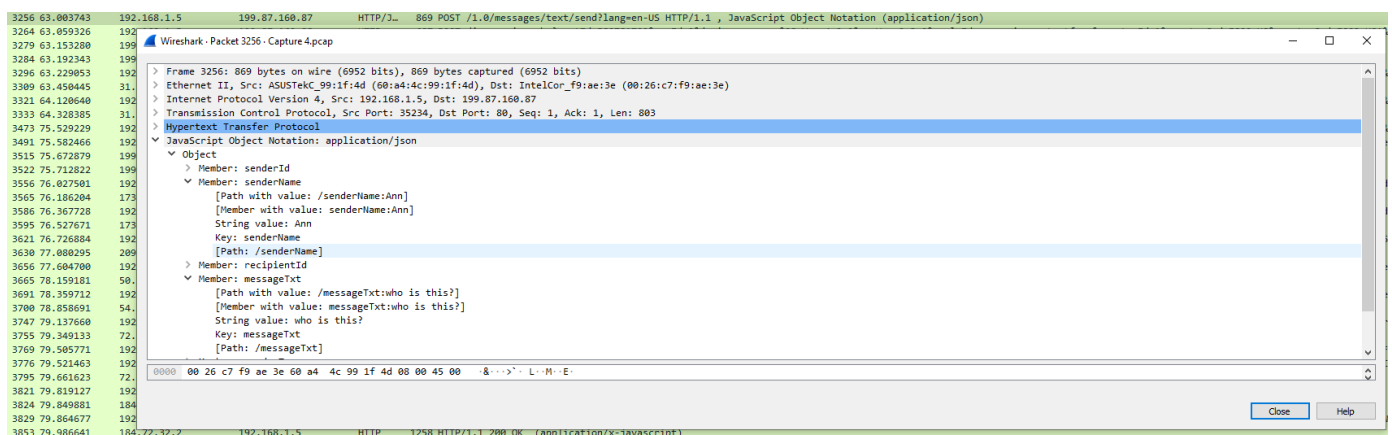
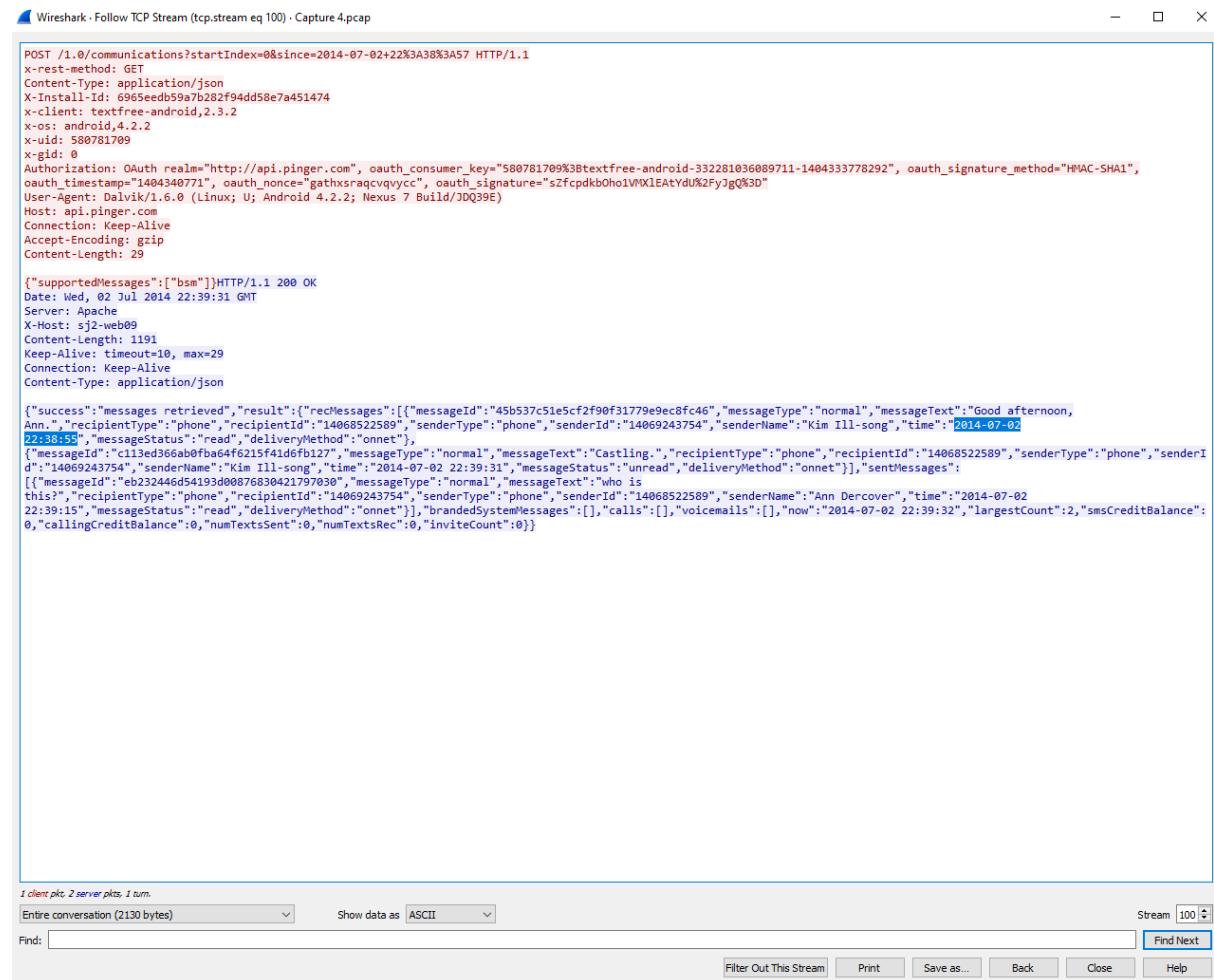


Figure BB - Packet 3256 Investigation

Additionally, when reviewing the TCP streams of the PCAP, Ill-Songs messages can be discovered alongside Ann's, The TCP stream also contains the timestamp of each message. Stream 141 contains Ill-Song and Ann's first messages which can be seen in figure AC



Wireshark · Follow TCP Stream (tcp.stream eq 100) · Capture 4.pcap

```

POST /1.0/communications?startIndex=0&since=2014-07-02+22%3A38%3A57 HTTP/1.1
x-rest-method: GET
Content-Type: application/json
X-Install-Id: 0965eed59a7b282f94dd58e7a451474
x-client: textfree-android,2.3.2
x-os: android,4.2.2
x-uid: 580781709
x-gid: 0
Authorization: OAuth realm="http://api.pinger.com", oauth_consumer_key="580781709%3Btextfree-android-332281036089711-1404333778292", oauth_signature_method="HMAC-SHA1",
oauth_timestamp="1404340771", oauth_nonce="gathxsraqcvqycc", oauth_signature="sZfcpdkb0ho1V0X1EAtYdU%2Fy3gQ%3D"
User-Agent: Dalvik/1.6.0 (Linux; U; Android 4.2.2; Nexus 7 Build/JQ039E)
Host: api.pinger.com
Connection: Keep-Alive
Accept-Encoding: gzip
Content-Length: 29

{"supportedMessages":["bsm"]}HTTP/1.1 200 OK
Date: Wed, 02 Jul 2014 22:39:31 GMT
Server: Apache
X-Host: sj2-web09
Content-Length: 1191
Keep-Alive: timeout=10, max=29
Connection: Keep-Alive
Content-Type: application/json

{"success": "messages retrieved", "result": {"recMessages": [{"messageId": "45b537c51e5cf2f90f31779e9ec8fc46", "messageType": "normal", "messageText": "Good afternoon,
Ann.", "recipientType": "phone", "recipientId": "14068522589", "senderType": "phone", "senderId": "14069243754", "senderName": "Kim Ill-song", "time": "2014-07-02
22:38:58", "messageStatus": "read", "deliveryMethod": "onnet"}, {"messageId": "c113ed366ab0fba64f6215f41d6fb127", "messageType": "normal", "messageText": "Castling.", "recipientType": "phone", "recipientId": "14068522589", "senderType": "phone", "senderI
d": "14069243754", "senderName": "Kim Ill-song", "time": "2014-07-02 22:39:31", "messageStatus": "unread", "deliveryMethod": "onnet"}], "sentMessages":
[{"messageId": "eb232446d54193d00876830421797030", "messageType": "normal", "messageText": "Who is
this?", "recipientType": "phone", "recipientId": "14069243754", "senderType": "phone", "senderId": "14068522589", "senderName": "Ann Dercover", "time": "2014-07-02
22:39:15", "messageStatus": "read", "deliveryMethod": "onnet"}], "brandedSystemMessages": [], "calls": [], "voicemails": [], "now": "2014-07-02 22:39:32", "largestCount": 2, "smsCreditBalance":
0, "callingCreditBalance": 0, "numTextsSent": 0, "numTextsRec": 0, "inviteCount": 0}}

```

1 client pkts 2 server pkts 1 turn

Entire conversation (2130 bytes) Show data as ASCII Stream 100

Find: Find Next

Filter Out This Stream Print Save as... Back Close Help

Figure AC - TCP stream 100

After all Ill-Song and Ann’s messages had been discovered the forensic analyst then placed them in order so the whole conversation is viewable. Table 2 contains the full conversation with timestamps between Ill-Song and Ann:

Table 2 – Ill-Song and Ann’s messages

User	Message	Timestamp
Ill-Song	"Good afternoon, Ann."	2014-07-02 22:38:55
Ann:	"Who is this?"	2014-07-02 22:39:15
Ill-Song:	"Castling"	2014-07-02 22:39:31
Ann:	"where are you?"	2014-07-02 22:39:46
Ill-Song:	"I know I can't tell you that."	2014-07-02 22:40:05
Ann:	"Do you know that there are people investigating Kim Ill-Song?"	2014-07-02 22:41:25
Ill-Song:	"Of course. However, they will never know it is me behind the bribes."	2014-07-02 22:41:47
Ann:	"still we should be careful. Pay attention. I want to meet in September at 5PM."	2014-07-02 22:42:54
Ill-Song:	"At our old meetup spot?"	2014-07-02 22:43:06
Ann:	"Yes"	2014-07-02 22:43:28
Ill-Song:	"What Day?"	2014-07-02 22:43:44
Ann:	"I told you to pay attention"	2014-07-02 22:50:32

From the conversation above it can be determined that Ann and Ill-Song will be meeting during September at 5pm. However, while the month and time are disclosed within the conversation an actual date is not with Ann saying that Ill-Song “should be paying attention”.

Additionally, when Ann asks “Who is this?” Ill-Song replies with “Castling”. This implies Castling is either a codename that Ill-Song uses so that Ann knows who it is without explicitly saying the name Ill-Song, or that the foreign national Ill-Song that has been referenced throughout this report is Castling and is posing as Ill-Song.

During the 7 minutes in between Ill-Song and Ann’s final messages multiple requests can be seen to the domain “mob.mapquestapi.com” within the traffic. This data also contains various longitude and latitude coordinates within the URL. To gather this data into one place a tshark command was used. The tshark tool allowed for the mob.mapquestapi.com requests to be in one place so the coordinates were easier to discover. The command used can be seen below in figure AD.

```
root@kali:~/Desktop# tshark -r 'Capture 4.pcap' -Y "http.host == mob.mapquestapi.com"
```

Figure AD - tshark command

The coordinates found were then copy and pasted into their own “.txt” file before being moved into a “.csv” file, the “.txt” file containing the coordinates can be seen in appendix AS. The coordinates were placed in a “.csv” file so they were compatible with Microsoft excel. By using Earth Point’s, Excel to KML tool, the coordinates found within the csv file can be placed within Google Earth, allowing for all the coordinates to be placed onto a map. The results of plotting these coordinates can be seen in figure AE.

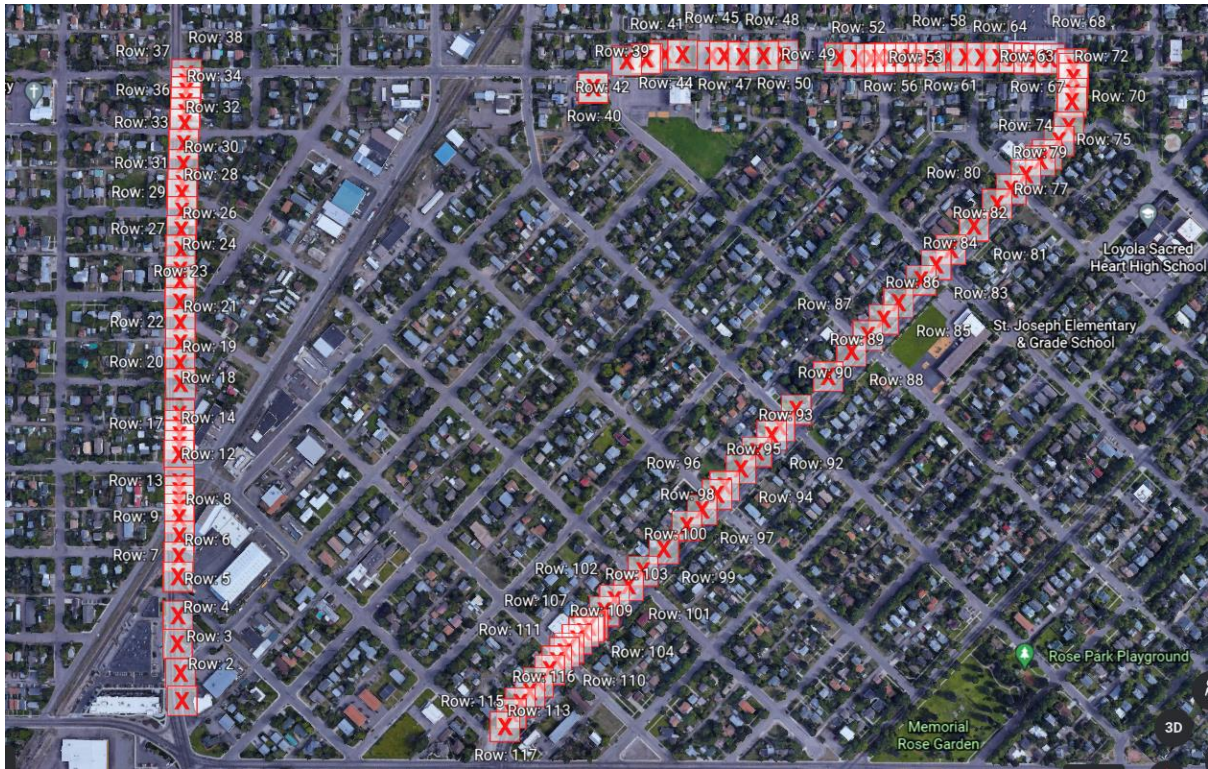


Figure AE- Locations mapped out

Figure AE reveals that the coordinates line up to produce the number 17. Due to this it can be concluded that the full date for Ill-Song and Ann’s meeting will be the 17th of September at 5PM.

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7 APPENDICES

7.1 CAPTURE 1.PCAP

APPENDIX A – GoT SPOILERS.DOCX

Sm9uIFNub3cgYnVybnMgZG93biBXaW5
0ZXJmZWxslChhZ2FpbikgYW5kIHRobZS
BXYWxsLg0KDQplb2RvciBraWxscyBUa
GVvbi4NCg0KRGFIbmVyeXMgZ2V0cyBI
YXRlbiBieSBhIGRyYWdvbi4NCg0KU3Rh
bm5pcyBmYWxscyBpbiBsb3ZlIHdpdGgg
VHlyaW9uLiANCg0KDQo=

APPENDIX B –NORTHKOREA.DOCX

0JTQu9GPINC60L7Qs9C+INGN0YLQviDQvNC+0LbQtdGCINC60LDRgdCw0YLRjNGB0Y86IA0KDQrQryD
QsdGL0Lsg0YHQstC40LTQtdGC0LXQu9C10LwsINGH0YLQviDQmtC40Lwg0KfQtdC9INCj0L0g0Lgg0L/Rg
NCw0LLQuNGC0LXQu9GM0YHRgtCy0L4g0KHQtdCy0LXRgNC90L7QuSDQmtC+0YDQtdC4INGA0LDQt9
GA0LDQsdC+0YLQsNC70Lgg0L/RgNC+0LPRgNCw0LzQvNGDLCDQutC+0YLQvtGA0LDRjyDQv9C+0LfQst
C+0LvRj9C10Ylg0LjQvCDQv9GD0YLQtdGI0LXRgdGC0LLQvtCy0LDRgtGMINCy0L4g0LLRgNC10LzQtdC9
0LguINChINC40YHQv9C+0LvRjNC30L7QstCw0L3QuNC10Lwg0Y3RgtC+0Lkg0YLQtdGF0L3QvtC70L7Qs
9C40LgsINGPINGB0YfQuNGC0LDRjiwg0YfRgtC+INC+0L3QuCDQvdCw0LzQtdGA0LXQvdGLINC00LLQu
NCz0LDRgtGM0YHRjyDQstC/0LXRgNC10LQg0Lgg0LjQt9C80LXQvdC40YLRjCDRgNC10Lfrg9C70YzRgtC
w0YLRiyDQstC+0LnQvdGLINCyINCa0L7RgNC10LUuIA0KDQrQn9C+0LbQsNC70YPQuDGB0YLQsCwg0J7
QsdC4LdCS0LDQvSwg0YLRiyDQvNC+0Y8g0LXQtNC40L3RgdGC0LLQtdC90L3QsNGPINC90LDQtNC10Lb
QtNCwLg0KDQo=

APPENDIX C – PiD.DOCX

RGVhciBFZCwNCg0KWWVhaCBJIHRvdGFsbHkgdG9vayBvdmVylGZvciBQYXVsIGFmdGVyIGhIGRpZWQ
gaW4g4oCZNjYulFlvdSBnb3QgbWUuIEFzIHlvdSBjYW4gc2VILCB3ZSBkb27igJl0IGV2ZW4gbG9vayB0aG
FOIG11Y2ggYWxpa2U6DQo=



Before(Paul)



After(Me)

IAkgCQ0KQmVmb3JlKFBhdWwplAKJCQkQWZ0ZXIoTWUpDQoNCldlIGFyZW7igJl0IGV2ZW4gdGhIIHN
hbWUgaGVpZ2h0ISBXaGF0IGNhbiBJIHNheSwgcGVvcGxIGFyZSBzdHVwaWQuDQoNCg0KVGHhbmztI
GZvciB0aGUgaW5xdWlyeSwNCg0KV2IsbGlhbSBDYW1wYmVsbA0KKFBhdWwgTWNDYXJ0bmV5KQ0K

APPENDIX D – NK.JPG



APPENDIX E – RULES 1.DOCX

MS4gICBTvU1NQVJZIE9GIFJVTEVTLiAgTUJFTiBQTOlOVFMuDQpUT1VDSCBNT1ZFIHJ1bGUgc3RyaWN0
bHkgYXBwbGlcy4NCuKAogIjZiBhIHBPZWNIIGlzIHRvdWNoZWQsIHRoZW4gaXQgbXVzdCBiZSBtb3ZlZC
AoaWYgYSBsZWdhbCBtb3ZlIGlzIGF2YWlsYWJsZSkNCuKAogIjZiBhbiBvcHBvbmVudOKAmXMgcGllY2U

gaXMgdG91Y2hlZCwgaXQgbXVzdCBiZSB0YWtlbiAoaWYgbGVnYWwplG0KQ09VTIRET1dOIElGIFNUQU
xMSU5HIEZPUiBUSU1FLklulGdlbmVyYWwgYSBwbGF5ZXlgbWFWuYWdlcyBob3cgbXVjaCBvciBsaXR0bG
UgdGltZSB0byB0YWtlIGZvciBIYWN0IG1vdmUslGFuZCB0aGlzIGlZIGZpbmUhlCBib3dlbmVyLCBpZiBhIH
BsYXllciBjbGVhcmx5IHBSYXlzlGZhciB0b28gc2xvd2x5IGZvciB0aGUgc3BIY2lmaWMgcG9zaXRpb24sIGZv
ciBleGFtcGxllHdoZW4gaGUgaXMgZmFjaW5nIHVvYXZvaWRhYmxllGNoZWNRbWFOZSwgdGhllGFyYml
0ZXlGd2lsbCBkbyBhIGNvdW50ZG93bi4glEhllHdpbGwgcG9pbmQgYXQgdGhllGJvYXJkLCBhbmQgd2Fybi
B0aGUgcGxheWVvYlGJ5IGNvdW50aW5nIHRvIDEwIHdpdGggaGlzIGhhbmRzIChqdXN0IGxpa2UgYSBib3
hpbmcgcmVmZXJlZSkulCBjZiB0aGUgcGxheWVvYlGhhcyBub3QgbW92ZWQgYnkgdGhllGNvdW50IG9mI
DEwLCBoZSBsb3NlcyB0aGUgZ2FtZSBhbmQgdGhllG1hdGNoLiBOb3RIIHRoZXJlIGlZIG5vIG1pbmltdW0g
dGltZSB0byBtYWtlIGEGbW92ZSEgQWxzbywgZXZlbiBpZiB0aGVyZSBpcyBvbmx5IDEgBgVnYWwgbW92
ZSwgdGhllHBsYXllciBzaG91bGQgYmUgYWxsb3dlZCBzb21lIHRpbWUgdG8gcHN5Y2hvbG9naWNhbGx5
IGNvbXBvc2UgdGhllbXNlbHlcy4glEIOIHNo3VsZCBiZSBjb25zaWRlcmVklHRoYXQgYSB3ZWFrIHBSYXllc
iBtYXkgbm90IHJlYWwpc2UgaGUgb25seSB0YXMGMSBsZWdhbCBtb3ZlLg0KQ0hFU1MGQ0xPQ0sgUFJP
VE9DT0wulCBuAGUgY2hlc3MgY2xvY2sgbXVzdCBiZSBwcmVzc2VklHdpdGggdGhllFNBTUUGSEFORCBO
aGF0IG1vdmVzIHRoZSBwaWVjZS4NCIBSRVNTSU5HIENIRUNLIENMT0NLLiAgSXQgaXMgdGhllHBsYXllc
uKAmXMgcmVzcG9uc2liaWxpdHkgdG8gcHJlZ3MgaGlzIG9yIGhlcjBjbG9jayBiZXR3ZWVulGNoZXNzIG1v
dmVzLiBUAGUgY29tcGV0aXRvcnMgbWFW5IGFncmVllGluIGFkdmFuY2UgdG8gYWxsb3cgdGhllGFyYml0
ZXlGdG8gaXNzdWUgcmlvtaW5kZXJzIOAKyBlc3BIY2lhbGx5IGlmIGJvdGggZmlnaHRlcnMgYXJlIG5ldyBO
byBjaGVzc2JveGluZy4NCIBJRUNFUyBLTk9DS0VEIERPV04gT1IgTk9UIFBST1BFUkxZIE90IEEgU1FVQVJF
LiAgSWYgYSBwbGF5ZXlga25vY2tzlGRvd24gYSBwaWVjZSB3aGlsc3QgbWFraW5nIGEGbW92ZSBvciBkb
2VzIG5vdCBwdXQgaXQgcHJvcGVybHkgb24gYSBzcXVhcmUslGhllHNob3VsZCBwcm9wZXJseSBzYS1wb
3NpdGlviBvciByZS1jZW50cmUgdGhllHBpZWNlIGluEHJUYyBPV04gY2xvY2sgdGltZS4glEFuIG9mZmVuY
2UgdGhhbCBwdXRzIG9mZiB0aGUgb3Bwb25lbnQgY291bGQgYmUgcHVuaXNoZWQgYnkgYWRkaW5nI
HRpbWUgdG8gdGhllG9wcG9uZW504oCZcyBjbG9jay4NCiANCK9USEVSIFJVTETIHRvIE5PVEUNCuKAo
gkgUmVzaWduYXRpb24gcHJvdG9jb2wulCBGb3lGdGhllGJlbnVmaXQgb2YgdGhllGF1ZGllbmNlLCBwb
GF5ZXJzIGFyZSBzdHJvbmdeSBibmNvdXJhZ2VklHRvIHBSYXkgdW50aWwgY2hY2ttYXRlLiBJZiB5b3Ugd
2FudCB0byByZXNpZ224gKHn1Ym1pdCkgcHJpb3lGdG8gY2hY2ttYXRlLCBkbyB0aGlzIGJ5IGtub2NraW5n
IG92ZXlgeW91ciBraW5nIGFuZCBvZmZlcmVzBhIGhbmRzaGFrZS4NCuKAogljBxZ2F5IG1vdmUulCB
BbiBpbGxZ2F5IG1vdmUgbXVzdCBiZSBzYXZyYWN0ZWQulCBuAGUgYXJlciBoYXMGdGhllGRpc2Ny
ZXRpb24gdG8gcHVuaXNoIHdpdGggYSB0aW1lIHBibmFsdHksIG9yIGRpc3F1YWwpcnkgYWZ0ZXlGMyBp
bGxZ2F5IG1vdmVzLiAgRXh0cmEgYWxsb3dhbmNlcyBjYW4gYmUgbWFWkZSBmb3lgbm92aWNlIHBSYXll
cnMuDQrigKIJU3BIYWtpbmcdG8gdGhllGFyYml0ZXlulCBjZiBhIHBSYXllciBuZWVkcYB0byBzcGVhayBO
byB0aGUgYXJlciBkdXJpbmcgdGhllGN0ZXNzIGdhbWUslGhllHNob3VsZCBzZW1vdmUgaGlzIGhYVW
RwaG9uZXMulCBuAGUgYXJlciB3aWxsIHRoZW4gc3RvcCB0aGUgY2xvY2sgdG8gbGlzdGVuLg0K4oC
iCVBsYXlpmcdG8gd2lulG9uIHRpbWUulCBjZiBhIHBSYXllciBuZWVkcYB0byBzcGVhayBO
wb3NpdGlviwYVW5klHRoZSBhcmJpdGVyIGJlGldmVzIGEGcGxheWVvYlGllZlHf1aWNrbHkgbW92aW5
nIHBpZWNlcyBvbmx5IHRvIHdpbiBvbiB0aW1lLCB0aGVuIHRoZSBhcmJpdGVyIGNhbBkZWNSYXJlIHRoZ
SBnYW1lIGEGZlHdy4NCuKAogIDaGVzcyBEcmF3LiAgQSBjaGVzcyBkcmF3IHdpbGwYmUgZm9sbG93Z
WQgYnkgb25lIGJveGluZyByb3VuZCAodW5sZXNzIHRoZSBtYXhpbXVtIG51bWJlciBvZiBib3hpbmcgcm9
1bmRzIGhhcyBhbHJlYW5lGhHcHBlbmVkkS4gVGhllGN0ZXNzYm94aW5nIGJvdXQgd2lsbCB0aGVyZW
ZvcmUgYmUgd29uIGJ5IHdob2V2ZXlgaGFzIGFtYXNzZWQgdGhllG1vc3QgYm94aW5nIHBvaW50cyDigJ
MganVkZ2VklGJ5IHb1bmNoZXMGdGhyb3duIGFuZCBvdmVyYWxsIGFnZ3Jlc3Npb24uDQrigKIJRHJpbm
tzlCBGaWdodGVycyBhcmUgYVWxsb3dlZCB0byBicmluZyB3YXRlciB0byB0aGUgY2hlc3MgdGFibGUuDUQr
igKIJQ3V0cyBjbiBtb3N0IGNhc2VzLCBleGNlchQgZm9yIHRoZSBtb3N0IHNo1cGVyZmljaWFWsIGV4YW1wb
GVzLCBhIGN1dCB3aWxsIGxYVWQgdG8gdGhllGZpZ2h0IGJlaW5nIHNob3BwZWQgYVW5klEGVeTPIGRlY
2xhcmVklG0K4oCiCUdlbmVyYWwgQWR2aWNlIENvbXBldGlo3JzIGFyZSBzZW1pbmRlZCB0aGF0IHRo
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APPENDIX M - TRACK10.DOCX

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BbNFhdDQoNCg==

APPENDIX N – 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.

APPENDIX O- NORTHKOREA.JPEG



APPENDIX P - GOT SPOILERS.DOCX DECODED

Jon Snow burns down Winterfell (again) and the Wall.
Hodor kills Theon.
Daenerys gets eaten by a dragon.
Stannis falls in love with Tyrion.

APPENDIX Q - NORTHKOREA.DOCX DECODED

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

Translated from Russian to English:

For whom it may concern:

I have witnessed that Kim Jong Un and the North Korean government have developed a program that allows them to travel in time. With this technology, I believe they intend to move forward and change the outcome of the Korean War.

Please, Obi-Wan, you are my only hope

APPENDIX R – PiD.DOCKX DECODED

Dear Ed,

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)

APPENDIX S – RULES 1.DOCKX DECODED

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.

APPENDIX T – RULES 2.DOCKX DECODED

2. ENFORCEMENT OF CHESS RULES

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

APPENDIX U – RULES 3.DOCKX DECODED

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).

APPENDIX V – RULES 4.DOCKX DECODED

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.

APPENDIX W – RULES 5.DOCKX DECODED

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=32&view=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:
 - o 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.
 - o 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.
 - o 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.

APPENDIX X – RULES 6.DOCKX DECODED

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.

APPENDIX Y – RULES 7.DOCKX DECODED

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.

APPENDIX Z – TRACK6.DOCKX DECODED

The Mystery of Chess Boxing:

(usernames)

Mr. Method

Kim III-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

APPENDIX AA – TRACK10.DOCKX DECODED

"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 nigga out the frame
And like Fame, my style'll live forever
Niggaz 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
Niggaz 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 nigga 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
Niggaz 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
Niggaz 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]

APPENDIX AB – 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
```

APPENDIX AC – EMAIL CHAIN

Many thanks.

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

From: Edward Snowden <snowedinedward@aol.com>

To: wikiofleaks <wikiofleaks@aol.com>

Sent: Fri, Jul 11, 2014 2:07 pm

Subject: Re: Urgent

Julian,

I will do so as soon as I can.

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

From: Julian Assange <wikiofleaks@aol.com>

To: snowedinedward <snowedinedward@aol.com>

Sent: Fri, Jul 11, 2014 2:05 pm

Subject: Re: Urgent

Snowedinedward,

I will look at that pcap as soon as I can. Can you also send me the documents you have collected during research of that recent scandal.

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

From: Edward Snowden <snowedinedward@aol.com>

To: wikiofleaks <wikiofleaks@aol.com>

Sent: Fri, Jul 11, 2014 2:03 pm

Subject: Urgent

Hello friend,

I have a pcap I would like you to look through. Could be useful.

Snowedinedward

7.2 CAPTURE2.PCAP

APPENDIX AD - TCP STREAM 0

ISON Razor Genius Raekwon Killah Method

:verne.freenode.net 303 Ill_Song :razor genius

PRIVMSG Razor1

:SiZaQzRJQ1NNRjVHNjRSTUVCrvNBWUxORUJTWFFZM0pPUINXSUIEQk1KWFhL
NUJBT1JVR0tJRFFPSlhYRzRERk1OMkNBMzNHRUIyR1FaSkFJTIVHSzQzVEVCQkc2
NkRKTlpUU0E1M1BPSldHSUIEVU5GMkdZWkpBTU5YVzIyTE9NNFFISTNaQUtCNFc
2M1RIUEZRVzRaWk8=

PING LAG2311957802

:verne.freenode.net PONG verne.freenode.net :LAG2311957802

ISON Razor Genius Raekwon Killah Method

:verne.freenode.net 303 Ill_Song :razor genius

:Razor1!~malware@216.14.247.46 PRIVMSG Ill_Song :

NTc2NTZjNmMyMDc0Njg2NTIwNjQ2NTYzNjk3MzY5NmY2ZTIwNjk3MzIwNmU2Zjc0
MjA2NjY5NmU2MTZjMjA3OTY1NzQyZQ==

ISON Razor Genius Raekwon Killah Method

:verne.freenode.net 303 Ill_Song :razor genius

PING LAG2341989052

PRIVMSG Razor1

:S0i0VzYzVEhQRIFXNfpaQU5GWINBWVRGTUyYWEkyTEdPVldDQTVESU5GWINB
NURKTIzTU0EzM0dFQjRXS1lMU0ZZUUZBWkxTTkJRWEe0WkFQRlhYS0IEWE41MI
dZWkJBTIJVV1daSkFPUIhTQTVUSk9OVVhJSURCTlpTQ0FaTFIPQINyRTJMRk5aUldL
SURYTkJRWEIJQ0NNVlpYSUIDTE41WkdLWUpBTkJRWEJRFVONFFHNlpUR01WW
kM0PT09

:verne.freenode.net PONG verne.freenode.net :LAG2341989052

ISON Razor Genius Raekwon Killah Method

:verne.freenode.net 303 Ill_Song :razor genius

:Razor1!~malware@216.14.247.46 PRIVMSG Ill_Song :

NDkyMDYxNmQyMDYxMjA3NjY1NzI3OTIwNjI3NTczNzkyMDZkNjE2ZTJjMjA2Mjc1
NzQyMDcwNjU3MjY4NjE3MDczMjA0OTIwNjM2Zjc1NmM2NDIwNjI2NTIwNzA2NTc
yNzM3NTYxNjQ2NTY0MjA3NDZmMjA3NjY5NzY2OTc0MmUyMDUzNjU2NTIwNjk2
NjIwNTA3OTZmNmU2Nzc5NjE2ZTY3MjA2OTczMjA3NDY4NjUyMDcyNjk2NzY4NzQ
yMDcwNmM2MTYzNjUyMDY2NmY3MjIwNzQ2ODY1MjA1NzZmNzI2YzY0MjA1ND
Y5NzQ2YzY1MmU=

ISON Razor Genius Raekwon Killah Method

:verne.freenode.net 303 Ill_Song :razor genius

PING LAG2371989052

:verne.freenode.net PONG verne.freenode.net :LAG2371989052

ISON Razor Genius Raekwon Killah Method

:verne.freenode.net 303 Ill_Song :razor genius

PRIVMSG Razor1

:S0JTWEUyREJPQlpTQTNUUE9RWENBU0RQTzRRR0NZVFBPVjJDQVnKQU9OU1c0
WkJBUEZYWEtJREJFQIRXU1pUVUg0UUZHmZNOTVYyR1EyTE9NNFFISTNaQU01U
1hJSURaTjUyU0EzM1ZPUVFHNlpSQU9SVUdLSUNETkYySfNJRFBnWVFFWTMzV0

1VUUdDM1RFRUIyR0MyM0ZFQjRXNjVMU0VCWFhPM1JBT1pRV0dZTFVORlhXNEI
EVE41V1dLNTNjTVZaR0tMUT0=
ISON Razor Genius Raekwon Killah Method
:verne.freenode.net 303 Ill_Song :razor genius
:Razor1!~malware@216.14.247.46 PRIVMSG Ill_Song :
NTM2ZjZkNjU3NzY4NjU3MjY1MjA2NTc4NzA2NTZINzM2OTc2NjUyYzIwNDkyMDY
4NmY3MDY1MmUyMA==
PING LAG2402004677
:verne.freenode.net PONG verne.freenode.net :LAG2402004677
ISON Razor Genius Raekwon Killah Method
:verne.freenode.net 303 Ill_Song :razor genius
PRIVMSG Razor1 :R1U9PT09PT0=
ISON Razor Genius Raekwon Killah Method
:verne.freenode.net 303 Ill_Song :razor genius
PING LAG2432004677
:verne.freenode.net PONG verne.freenode.net :LAG2432004677
ISON Razor Genius Raekwon Killah Method
:verne.freenode.net 303 Ill_Song :razor genius
:Razor1!~malware@216.14.247.46 PRIVMSG Ill_Song :Mzk=
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:verne.freenode.net 303 Ill_Song :razor genius
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:verne.freenode.net PONG verne.freenode.net :LAG2462020302
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:verne.freenode.net 303 Ill_Song :razor genius
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ISON Razor Genius Raekwon Killah Method
:verne.freenode.net 303 Ill_Song :razor genius
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:verne.freenode.net 303 Ill_Song :razor genius
:Razor1!~malware@216.14.247.46 PRIVMSG Ill_Song :
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ISON Razor Genius Raekwon Killah Method
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:verne.freenode.net 303 Ill_Song :razor genius
PRIVMSG Razor1
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ISON Razor Genius Raekwon Killah Method
:verne.freenode.net 303 Ill_Song :razor genius

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 :verne.freenode.net 303 Ill_Song :razor genius
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 PING LAG2613723427
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 :verne.freenode.net 303 Ill_Song :razor genius
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 :verne.freenode.net PONG verne.freenode.net :LAG2645629677
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 :verne.freenode.net 303 Ill_Song :razor genius
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 :verne.freenode.net 303 Ill_Song :razor genius
 :Genius1!~malware@216.14.247.46 PRIVMSG Ill_Song :
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 :verne.freenode.net 303 Ill_Song :razor genius
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 :verne.freenode.net 303 Ill_Song :razor genius
 ISON Razor Genius Raekwon Killah Method
 :verne.freenode.net 303 Ill_Song :razor genius
 PRIVMSG Genius1
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 xETVUYR0VZTEdIQTJEQ05MQkdNM1RLWVJBtZVVWEkyREpOWVFISTJERkVCM1
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ISON Razor Genius Raekwon Killah Method
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 ISON Razor Genius Raekwon Killah Method
 :verne.freenode.net 303 Ill_Song :razor genius
 :Genius1!~malware@216.14.247.46 PRIVMSG Ill_Song :
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 NDUgMDU2IDA0MCAxMDMgMTQxIDE1NiAwNDAgMTExIDA0MCAxNTYgMTU3ID
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 ISON Razor Genius Raekwon Killah Method
 :verne.freenode.net 303 Ill_Song :razor genius
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 ISON Razor Genius Raekwon Killah Method
 :verne.freenode.net 303 Ill_Song :razor genius
 PRIVMSG Genius1
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 PWkpBTzVWWEkyQkFPUiVHS0IERU1GMkdLSURCTlpTQ0EzRFBNTIFYSTJMUE5ZU
 UhJMkRTTjUyV08yQkFNRVFHMjMzU01VUUhHWkxET1ZaR0tJREdONVpHMklEUE1
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 ISON Razor Genius Raekwon Killah Method
 :verne.freenode.net 303 Ill_Song :razor genius
 PING LAG2826285927
 :verne.freenode.net PONG verne.freenode.net :LAG2826285927
 ISON Razor Genius Raekwon Killah Method
 :verne.freenode.net 303 Ill_Song :razor genius
 ISON Razor Genius Raekwon Killah Method
 :verne.freenode.net 303 Ill_Song :razor genius
 PING LAG2856348427
 :verne.freenode.net PONG verne.freenode.net :LAG2856348427
 ISON Razor Genius Raekwon Killah Method
 :verne.freenode.net 303 Ill_Song :razor genius Method
 PRIVMSG Method
 :SiZaQzRJQ05NVjJHUTMzRUZRUVTSURCTIVRR0s2RERORjJHS1pCQU1GUkc2NU
 xVRUIyR1FaSkFPQlpHNjQzUU1WUlhJSURQTVIRSEkyREZfQkJXUVpMVE9NUUVF
 MzNZTkZyR09JRFhONVpHWVpCQU9SVVhJM0RGRUJSVzYzTEpOWIRTQTVEUEV
 CSUhTMzNPTTU0V0MzVEhGWT09PT09PQ==
 ISON Razor Genius Raekwon Killah Method
 :verne.freenode.net 303 Ill_Song :razor genius Method
 :Method!~malware@216.14.247.46 PRIVMSG Ill_Song :
 NDkyMDYxNmQyMDZINmY3NDIwNzM3NTcyNjUyMDc3Njg2ZjIwNzk2Zjc1MjA2MTc
 yNjUyYzIwNjI3NTc0MjA0OTIwNjg2MTc2NjUyMDYxNmUyMDY5NjQ2NTYxMmUyM
 DQ1Njk3NDY4NjU3MjIwNzc2MTc5MmMyMDQ5MjA2MTZkMjA2ZTZmNzQyMDY5N
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 PING LAG2886426552

:verne.freenode.net PONG verne.freenode.net :LAG2886426552
 ISON Razor Genius Raekwon Killah Method
 :verne.freenode.net 303 Ill_Song :razor genius Method
 ISON Razor Genius Raekwon Killah Method
 :verne.freenode.net 303 Ill_Song :razor genius Method
 PING LAG2916473427
 :verne.freenode.net PONG verne.freenode.net :LAG2916473427
 PRIVMSG Method
 :U1NCaGJTQnFkWE4wSUdodmNHVm1kV3d1SUVsMEIIZHZkV3hrSUcxbFIXNGdjMjhn
 YlhWamFDQjBieUJvWVhabEIUIiBKR VFHQzNKQU5KMIhHNUJBTkJYWEFaTEdPVld
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 IVXSVpMU0VCVhJTFE9
 ISON Razor Genius Raekwon Killah Method
 :verne.freenode.net 303 Ill_Song :razor genius Method
 ISON Razor Genius Raekwon Killah Method
 :verne.freenode.net 303 Ill_Song :razor genius Method
 :Method!~malware@216.14.247.46 PRIVMSG Ill_Song :
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 ZlMmU=
 PING LAG2946473427
 :verne.freenode.net PONG verne.freenode.net :LAG2946473427
 ISON Razor Genius Raekwon Killah Method
 :verne.freenode.net 303 Ill_Song :razor genius
 ISON Razor Genius Raekwon Killah Method
 :verne.freenode.net 303 Ill_Song :razor genius Killah
 PRIVMSG Killah
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 :verne.freenode.net PONG verne.freenode.net :LAG2976489052
 ISON Razor Genius Raekwon Killah Method
 :verne.freenode.net 303 Ill_Song :razor genius Killah
 ISON Razor Genius Raekwon Killah Method
 :verne.freenode.net 303 Ill_Song :razor genius Killah
 :Killah!~malware@216.14.247.46 PRIVMSG Ill_Song :
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 :verne.freenode.net PONG verne.freenode.net :LAG3006504677
 ISON Razor Genius Raekwon Killah Method
 :verne.freenode.net 303 Ill_Song :razor genius Killah
 PRIVMSG Killah
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 ISON Razor Genius Raekwon Killah Method
 :verne.freenode.net 303 Ill_Song :razor genius Killah

:Killah!~malware@216.14.247.46 PRIVMSG Ill_Song :
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:verne.freenode.net 303 Ill_Song :razor genius Killah
PRIVMSG Killah
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:verne.freenode.net 303 Ill_Song :razor genius Killah
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:verne.freenode.net PONG verne.freenode.net :LAG3066520302
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:verne.freenode.net 303 Ill_Song :razor genius Killah
:Killah!~malware@216.14.247.46 PRIVMSG Ill_Song :
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:verne.freenode.net 303 Ill_Song :razor genius Killah
:Killah!~malware@216.14.247.46 PRIVMSG Ill_Song :
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:verne.freenode.net 303 Ill_Song :razor genius Killah
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ISON Razor Genius Raekwon Killah Method
:verne.freenode.net 303 Ill_Song :razor genius
ISON Razor Genius Raekwon Killah Method
:verne.freenode.net 303 Ill_Song :razor genius Raekwon
PRIVMSG Raekwon
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:verne.freenode.net 303 Ill_Song :razor genius Raekwon
:Raekwon!~malware@216.14.247.46 PRIVMSG Ill_Song :
NDkyMDY4NjE3NjY1MmMyMDYyNzU3NDIwNDkyMDc3NmY2ZTkYzQyMDYyNjU
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:verne.freenode.net 303 Ill_Song :razor genius Raekwon
PRIVMSG Raekwon
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:verne.freenode.net 303 Ill_Song :razor genius Raekwon
:Raekwon!~malware@216.14.247.46 PRIVMSG Ill_Song :
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ISON Razor Genius Raekwon Killah Method
:verne.freenode.net 303 Ill_Song :razor genius Raekwon
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ISON Razor Genius Raekwon Killah Method

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:verne.freenode.net 303 Ill_Song :razor genius Raekwon
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:verne.freenode.net 303 Ill_Song :razor genius
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:verne.freenode.net PONG verne.freenode.net :LAG3339317177
ISON Razor Genius Raekwon Killah Method
:verne.freenode.net 303 Ill_Song :razor genius
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:verne.freenode.net 303 Ill_Song :razor genius
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:verne.freenode.net PONG verne.freenode.net :LAG3369395302
ISON Razor Genius Raekwon Killah Method
:verne.freenode.net 303 Ill_Song :razor genius
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:verne.freenode.net 303 Ill_Song :razor genius
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:verne.freenode.net PONG verne.freenode.net :LAG3399442177
ISON Razor Genius Raekwon Killah Method
:verne.freenode.net 303 Ill_Song :razor genius

```

APPENDIX AE - ILL_SONG DECODED

Recipe

From Base64

Alphabet
A-Za-z0-9+/=

☒ Remove non-alphabet chars

From Base32

Alphabet
A-Z2-7=

☒ Remove non-alphabet chars

Input

length: 204
lines: 1

S1ZaQzRJQ1NNRjVHNjRSTUVCrVNBWuxORUjTWFFZM0pPUlNXSULeQk1KWfHlN
UjBT1jVR0tJRFFPSlhYRzRERk10MkNBmzNHRUIyR1FaSkFJTlVHSzQzVEVCQk
c2NkRkTlpUU0E1M1BPSldHSULeVU5GMkdZWkpBTU5YVzIyTE9NNFFISTNaQUt
CNFc2M1RIUEZRVzRawk8=




Output

time: 1ms
length: 95
lines: 1



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

APPENDIX AF - RAZOR DECODED

Recipe





From Base64



Alphabet
A-Za-z0-9+/=

☒ Remove non-alphabet chars






From Hex



Delimiter
Auto

Input






length: 97
lines: 1



NTc2NTZjNmMyMDc0Njg2NTIwNjQ2NTYzNjk3MzY5NmY2ZTIwNjk3MzIwNmU2Zjc0MjA2NjY5NmU2MTZjMjA3OTY1NzQyZQ==

Output

time: 1ms
length: 35
lines: 1



Well the decision is not final yet.

APPENDIX AG - GENIUS DECODED

Recipe

From Base64

Alphabet
A-Za-z0-9+/=

☒ Remove non-alphabet chars

From Octal

Delimiter
Space

Input

length: 364
lines: 1

MTExIDA0MCAxNjMgMTQ1IDE0NSAwNTYgMDQwIDEyNCAxNTAgMTQ1IDE1NiAwNDAgMTY3IDE0NSAwNDAgMTU1IDE2NSAxNjMgMTY0IDA0MCAxNTUgMTQ1IDE0NSAxNjQgMDU0IDA0MCAxNDEgMTU2IDE0NCAwNDAgMTExIDA0MCAxNjcgMTUxIDE1NCAxNTQgMDQwIDE2MyAxNDUgMTQ1IDA0MCAxNjQgMTUwIDE0NSAwNDAgMTY2IDE0MSAxNTQgMTUxIDE0NCAxNTEgMTY0IDE3MSAwNDAgMTU3IDE0NiAwNDAgMTY0IDE1MCAxNTEgMTYzIDA0MCAxNDMgMTU0IDE0MSAxNTEgMTU1IDA1Ng==




Output

time: 1ms
length: 68
lines: 1



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

APPENDIX AH - METHOD DECODED


Recipe



From Base64





Alphabet
A-Za-z0-9+/=



☒ Remove non-alphabet chars






From Hex



Delimiter
Auto

Input






length: 212
lines: 1



NDkyMDYxNmQyMDZlNmY3NDIwNzM3NTcyNjUyMDc3Njg2ZjIwNzk2Zjc1MjA2MTcyNjUyYzIwNjI3NTc0MjA0OTIwNjg2MTc2NjUyMDYxNmUyMDY5NjQ2NTYxMmUyMDQ1Njk3NDY4NjU3MjIwNzc2MTc5MmMyMDQ5MjA2MTZkMjA2ZTZmNzQyMDY5NmU3NDY1NzI2NTczNzQ2NTY0MmU=

Output




time: 0ms
length: 79
lines: 1





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

APPENDIX AI - KILLAH DECODED

Recipe



From Base64





Alphabet

A-Za-z0-9+/=

☒ Remove non-alphabet chars

From Octal








Delimiter

Space

Input






length: 151
lines: 1



MTEwIDE1NyAxNjQgMDU0IDA0MCAxNDEgMTYzIDA0MCAxNDEgMTU0IDE2NyAxNDEgMTcxIDE2MyAwNTYgMDQwIDEyNyAxNTAgMTU3IDA0MCAxNTEgMTYzIDA0MCAxNjQgMTUwIDE1MSAxNjMgMDc3 |

Output

time: 1ms
length: 28
lines: 1



Hot, as always. Who is this?

APPENDIX AJ - RAEKWON DECODED

Recipe

From Base64

Alphabet
A-Za-z0-9+/=

☒ Remove non-alphabet chars

From Hex

Delimiter
Auto

Input

length: 109
lines: 1

NDkyMDY4NjE3NjY1MmMyMDYyNzU3NDIwNDkyMDc3NmY2ZTkYzQyMDYyNjUyMDYyNmY3NTY3Njg3NDIwNzM2ZjIwNjU2MTczNjk2Yzc5MmU=

Output

time: 1ms
length: 40
lines: 1

I have, but I won.t be bought so easily.

APPENDIX AK - ILL_SONG -> RAZOR DECODED IRC CONVERSATIONS

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

Razor: Well the decision is not final yet.

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

Razor: 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.

Ill_Song: 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.

Razor: Somewhere expensive, I hope.

Ill_Song: 5

Razor: 9

Ill_Song: 7

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

Ill_Song: I will be in touch with the address.

APPENDIX AL - ILL_SONG -> GENIUS DECODED IRC CONVERSATIONS

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

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

Ill_Song: I can be in c9fa5b8cb3b197ae5ce4baf8415a375b within the week.

(c9fa5b8cb3b197ae5ce4baf8415a375b is a MD5 hash that when cracked reveals the word Caracas)

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

Ill_Song: 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.

APPENDIX AM - ILL_SONG -> METHOD DECODED IRC

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

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

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

Method: Do not speak to me again.

APPENDIX AN - ILL_SONG -> KILLAH DECODED IRC CONVERSATIONS

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

Killah: Hot, as always. Who is this?

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

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

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

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

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

APPENDIX AO - ILL_SONG -> RAEKWON DECODED IRC CONVERSATIONS

Ill_Song: Mr. Raekwon, have you spoken with Mr. Razor? Raekwon: I have, but I wont be bought so easily.

Ill_Song: 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.

Raekwon: I would need at least 20 million Rubles.

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

7.3 CAPTURE3.PCAP

APPENDIX AP – CAT COMMAND FOR IMAGE1

```
root@kali:~/Desktop/PCAP3Images# cat I.jpg cant.jpg in.jpg good.jpg conscienc
e.jpg allow.jpg the.jpg U.S..jpg government.jpg to.jpg destroy.jpg privacy.jp
g 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 > Image1.jpg
```

APPENDIX AQ - CAT COMMAND FOR IMAGE1

```
root@kali:~/Desktop/PCAP3Images# cat condone.jpg American.jpg web-based.jpg r
ights.jpg constructing.jpg security.jpg terrorism.jpg NSA.jpg Watergate.jpg c
orrupt.jpg human.jpg behind.jpg closed.jpg doors.jpg > Image2.jpg
```

APPENDIX AR - CAT COMMAND FOR IMAGE1

```
root@kali:~/Desktop/PCAP3Images# cat there.jpg their.jpg a.jpg it.jpg but.jpg
communism.jpg nor.jpg because.jpg unconstitutional.jpg secretive.jpg secret.
jpg > Image3.jpg
```

7.4 CAPTURE4.PCAP

APPENDIX AS – COORDINATES

Latitude	Longitude
46.85661	-114.019
46.85693	-114.019
46.85727	-114.019
46.8576	-114.019
46.85806	-114.019
46.85829	-114.019
46.85852	-114.019
46.85873	-114.019
46.85884	-114.019
46.85894	-114.019
46.85905	-114.019
46.85915	-114.019
46.85947	-114.019
46.85958	-114.019
46.85969	-114.019
46.85981	-114.019

46.85993	-114.019
46.86029	-114.019
46.86052	-114.019
46.86076	-114.019
46.86099	-114.019
46.86123	-114.019
46.86148	-114.019
46.8616	-114.019
46.86184	-114.019
46.86206	-114.019
46.86228	-114.019
46.86249	-114.019
46.8626	-114.019
46.86283	-114.019
46.86306	-114.019
46.8633	-114.019
46.86343	-114.019
46.86355	-114.019
46.86367	-114.019
46.86378	-114.019
46.86387	-114.019
46.8637	-114.012
46.86371	-114.012
46.86402	-114.011
46.86404	-114.011
46.86405	-114.011
46.86409	-114.01
46.86409	-114.01
46.86408	-114.01
46.86407	-114.009
46.86407	-114.009
46.86407	-114.009
46.86408	-114.008
46.86405	-114.007
46.86404	-114.007
46.86404	-114.007
46.86405	-114.007
46.86406	-114.007
46.86405	-114.007
46.86405	-114.006
46.86405	-114.006
46.86405	-114.006
46.86405	-114.006
46.86405	-114.006
46.86406	-114.006
46.86406	-114.005
46.86406	-114.005

46.86405	-114.005
46.86405	-114.005
46.86404	-114.004
46.86404	-114.004
46.86404	-114.004
46.86398	-114.004
46.86393	-114.004
46.86382	-114.004
46.86364	-114.004
46.86354	-114.004
46.86325	-114.004
46.86309	-114.004
46.86293	-114.004
46.86286	-114.004
46.8627	-114.004
46.86253	-114.005
46.86236	-114.005
46.86211	-114.005
46.86184	-114.006
46.86166	-114.006
46.86148	-114.006
46.86122	-114.006
46.86103	-114.007
46.86084	-114.007
46.86066	-114.007
46.86037	-114.008
46.85999	-114.008
46.85979	-114.008
46.85969	-114.009
46.8595	-114.009
46.8593	-114.009
46.8591	-114.009
46.85901	-114.01
46.85883	-114.01
46.85865	-114.01
46.85838	-114.01
46.85812	-114.011
46.85795	-114.011
46.85779	-114.011
46.85766	-114.011
46.85751	-114.012
46.85749	-114.012
46.85747	-114.012
46.85742	-114.012
46.85733	-114.012
46.85723	-114.012

46.85718	-114.012
46.85708	-114.012
46.85698	-114.012
46.85683	-114.013
46.85672	-114.013
46.8566	-114.013
46.85647	-114.013
46.85632	-114.013