Randall Lewis Cryptography

LAB Objectives

Use data protection techniques such as encryption and decryption to ensure confidentiality of sensitive data.

Review and analyze current data breach methodologies and protection strategies for data leak protection.

The original message that was use without encryption



This is Encrypted Message using the Ceasar Cipher "C"

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The Floating Frequency



Histogram

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Q1. The tool or technique from the above list that would be most effective for a cryptanalyst to use to decipher a text encrypted with the Caesar cipher:

I think the most effective tool that a cryptanalyst could use would be the Histogram.

"*Cryptography* refers to the science and art of designing ciphers; *cryptanalysis* to the science and art of breaking them" (Anderson, R.,2008). This diagram shows the letters that are used and the frequency that they are and it shows the frequencies used. This also gives an idea about the way it is encrypted and can tell exactly which letters are used because of the comparing of the letters can be evident. In the Lab it states " It is very useful for comparing the prevalence of different letters and can help derive the nature of the information and in some cases even reveal some of the character"s representation." (CSEC 630 Lab Assignment). In this technique you can see which letters are used and it would be most effective for a cryptanalyst to use.

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The Encrypted message

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Floating Frequency



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Q2. What I noticed about the histogram results when text is encrypted with the Vigenère cipher in comparison to the results of the Caesar cipher and this is the case because:

I notice that the text is harder to analyze the Vigenere because it is not just a shift of letters. There is not absolute pattern of letters and this makes it more complex.But the longer the pattern the easier it is to see the pattern of ciphertext which then it would be easy to encrypt. This was noticed long ago and was first published by "Friedrich Kasiski, a Prussian infantry officer [695]. He noticed that given a long enough piece of ciphertext, repeated patterns will appear at multiples of the keyword length." (Anderson, R.,2008). It is also more even in the frequency of the letters as to the Caesar Cipher having a higher frequency with just a few letters.

This is the case because it is a polyalphabetic substitution cipher that uses a series of Caesar Ciphers to encrypt the plaintext. This encrypts by using a keyphrase instead of just numbers.

PLAYFAIR's Encryption



Q3. There is an error in the following ciphertext representation of this quote, what is it? What should the correct ciphertext be?

The original Encrypted message is:(THE CORRECT CIPHERTEXT)

SD AH FO HL AR ST RE AS YL BS CI MQ TF NI VE TG HB SN QC NC SD TD HB SN QC DE CN IC IF OT IC

The original un encrypted message is:

TH ED IF FE RE NC EB ET WE EN ST UP ID IT YA ND GE NI US IS TH AT GE NI US HA SI TS LI MI TS

This is the Error Example:

SDAHFOWGRABSSRERIVBYBSCIMQTFNIVETGHBSNQCNCSDTDHBSNQCDECNICIFCTIC

This is the decrypted quote of the Error example.:

TH ED IF XF ER EN CE BE TW EX EN ST UP ID IT YA ND GE NI US IS TH AT GE NI US HA SI TS LI SC TS

We can see that the difference is that there are 2 letters inserted into the wrong one. There is an additional letter put in position 7 and 20. In the encrypted one it is displayed as an "X". I did this by putting in the encrypted message and then decrypting it using the passphrase. I then analyzed the information.

Q4. Of the three ciphers discussed (Caesar, Vigenère, Playfair), the relative degrees of security and why are:

These are the values decrypted in Playfair:





Vigenere



I was able to do an entropy test on the same cipher and this was the results of the test. Caesar 4.18 Playfair 4.46 Vigenere 4.59 Max possible entropy is 4.70

This shows that the Vigenere has the highest degree of security.

the entropy tool is a tool that that measures the calculations of the occurrences of each character that is relative to each of the other ones.(CSEC 630 Lab Assignment 1) The higher that the value is calculated the less of a possibility that it will be able to be encrypted of deciphered.

LAB 2



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Q5. For each of the following say whether ECB or CBC would be most appropriate and

give a brief explanation as to why.

a. an online bank statement

This needs to use CBC because a banks information needs to be more secure and the encryption needs to be more complex. CBC means Cipher Block Chaining and "Most commercial applications which encrypt more than one block use cipher block chaining" (Anderson, R.,2008). This mode is better for hiding patterns in plaintext.

b. an encrypted VoIP session

This needs to use ECB which stands for Electronic Code Book. ECB continues a general pattern and is less secure. In ECB you just encrypt block after block of plaintext to get the Cipher. This works with VoIP because it is connectionless and does not need to be more secure.

c. viewing of a website using TCP/IP

This needs to use CBC because a website needs to be the most secure and TCP/IP sends out packets that are in order. This also dealing mainly with commercial applications would make a website most likely to use CBC.

RSA 1

	RSA Demonstration	<u> </u>
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menu "Crypt/Decrypt -> Symmetric (Classic)".	part () (c) (c) (c) (c) (c) (c) (c) (c) (c)	
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4) You can also develop your knowledge by:	RSA encryption using e / decryption using d [alphabet size: 256]	
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online help).	The Input text will be separated into segments of Size 1 (the symbol # is used as reparator).	
- viewing the webpage www.cryptool.org.	t#e#x#t	-
June 2012 The CrypTool team	Numbers input in base 10 format.	_
	116 # 101 # 120 # 116	
	Encryption into ciphertest c(i) = m(i)Te (mod N)	-
	(COSHOUGHARDARDOC)	
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The results with encrypting with numbers

p = 59

e = 13

Encryption results are: 0953 # 3879 # 4121 # 0953

RSA 2

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q = 619

e = 13

Encryption results are : 176574 # 245583

Q6. The difference I noticed in the block size, and whether or not this cipher would be susceptible to statistical analysis and why:

What I notice about the block size is that it is dependent on the key that is inputted. So the longer or more complex the key is the longer the block size will be.

This would be susceptible to statistical analysis but the longer the key the hard it will be to compare. So it is possible to have a long key and the analysis be just about impossible and certainly improbable to carry out in a normal environment.

RSA implementation

Q7. Analyze the data encrypted with the RSA cipher. How does this encryption method compare to the other methods the Lab has covered?

The RSA uses an asymmetric encryption and this makes it more secure that the Symmetric encryption. Asymmetric uses a key for encryption and one for decryption while the other methods used symmetric encryption and this used one key for encryption and decryption. The longer they key is, the more secure and complex the cipher will be. This goes for both the symmetric and asymmetric encryption.

The con to RSA is that it takes up a lot more space/memory and will run slower. It needs more processing power and memory.

Hybrid encryption

GUI Hybrid Encryption



Press F1 to obtain help.

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data encrypted with the hybrid cipher.

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Your private RSA key d is the integer number:

d =

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Then

The session key is the following 128 bit number: Session key: E9 06 B5 33 5F 59 1E 59 78 35 46 CB AF AE A2 E5

Hybrid dec 00000002E 0000005C 0000008A 0000008B 0000008B 000000E6 00000114	ryption of <hybrid enc<br="">43 72 79 70 54 72 73 69 6F 6E 73 69 76 65 20 68 79 20 61 65 6C 65 20 68 65 6C 65 78 74 20 66 20 79 6F 75 72 74 20 6 69 72 73 74</hybrid>	yption of <startii 6F 6F 6C 21 20 66 61 61 67 265 65 64 20 63 71 70 20 61 65 69 6C 65 27 20 66 69 77 20 73 74 65</startii 	ngexample-en> fo 28 53 74 6 269 6C 79 2 20 65 64 7 2 79 70 74 6 5 64 20 6D 6 5 20 63 72 6 2 73 74 20 7 7 70 20 69 7	or < Bob SideChi 1 72 74 69 0 31 2E 78 5 63 61 74 1 6E 61 6C 1 6E 79 20 5 61 74 65 3 74 65 70 4 20 69 73	annelAttack>> 6E 67 20 6 29 0D 0A 0 69 6F 6E 6 79 73 69 7 76 69 73 7 64 20 69 6 73 20 77 6 73 20 77 6	5 78 61 6D D 0A 43 72 1 6C 20 70 3 0D 0A 6F 5 61 6C 69 E 20 6F 72 9 74 68 20 6 66 060	70 6C 65 79 70 54 72 6F 67 66 66 65 7A 61 74 64 65 72 43 72 74 65 6E 6	5 20 66 4 6F 6F 7 72 61 5 72 69 4 69 6F 4 69 67 4 9 74 9 70 54 4 65 64	6F 72 20 6C 20 31 6D 20 61 6E 67 20 6E 73 2E 6F 72 6F 6F 6F 6C 20 79 6F	74 68 6 20 69 7 62 6F 7 65 78 7 0D 0Å 0 65 6C 7 20 31 2 75 20 7	20 43 20 61 74 20 65 65 0 A 54 20 79 20 79 20 79 20 79 20 79	72 79 70 20 63 6F 53 72 79 73 69 76 58 69 73 5F 75 20 5F 75 20 70 0A 31 54 20 74	54 6F 6 6D 70 7 70 74 6 65 20 6 20 69 7 74 6F 2 69 25 2	F 6C 20 2 65 68 F 67 72 F 6E 6C 3 20 61 0 6D 61 1 73 20 6 6E	76 65 65 6E 61 70 69 6E 20 74 65 65 61 20 63 6C	CrypTool (St reion family sive free ed hy and crypt. e help and m ext file, cr your first , first step i	rting exar cational p nalysis.c ny visuali ated in or teps vith is recomm	ple for t ypTool 1 rogram ab ffering e zations der to he CrypTool ended vou	he CrypToc is a conpr out crypto xtensive o This is lp you to 11) A read the	DI Ve rehen ograp onlin s a t nake As a incl
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Then I Decrypted it and this is the Decrypted Doc:



DATA Encryption of Hybrid Cipher

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Q8. The advantages of the Hybrid RSA-AES cipher and How does this encryption method compare to the other methods the Lab has covered are:

Advantages of the Hybrid RSA-AES are many and one is that it still stays at the speed of symmetric encryption while protecting the data with the strength of asymmetric encryption. Because the symmetric encryption is about 100 % faster than asymmetric encryption this makes it more efficient and there are no sacrifices to security and the performance. This encryption uses the Pro's of each part of the encryptions.

This Encryption compares to the other methods in that they are either Symmetric or

Asymmetric. Symmetric is fast but not as secure and it needs to be known by both parties. Asymmetric is slow and only encrypts small amounts of data but is secure and only one party (the owner) of the Private key is able to encrypt and decrypt message from the public key. The Hybrid puts these bothe together and uses each. This is more secure and faster for equal symmetric processing.

Resources CSEC 630 Lab Assignment 1 - Introduction to Cryptography

Anderson, R. (2008). Security engineering – A guide to building dependable distributed systems (2nd ed.). New York, NY: John Wiley & Sons Publishing, Inc. Chapter 5, "Cryptography"