System Hacking Module 6 (Lab Assignment)

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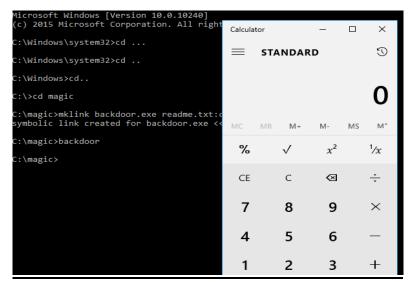
Date of Submission: 5/06/2019

Hiding Files Using NTFS Streams

1. Creating readme.txt, and hiding the file in calc.exe

```
:\magic>dir
Volume in drive C has no label.
Volume Serial Number is BAE7-1A72
Directory of C:\magic
05-06-2019 13:15
                       <DIR>
05-06-2019 13:15
10-07-2015 16:31
                <DIR>
95-06-2019
C:\magic>type c:\magic\calc.exe > c:\magic\readme.txt:calc.exe
C:\magic>dir
Volume in drive C has no label.
Volume Serial Number is BAE7-1A72
Directory of C:\magic
95-06-2019
                       <DIR>
05-06-2019
10-07-2015
05-06-2019
            13:15
16:31
```

2. Creating backdoor



Lab Analysis

Tool/Utility	Information Collected/Objective Achieved
NTFS Streams	Output: Calculator (Calc.exe) file executed

Extracting SAM Hashes Using PWdump7 Tool

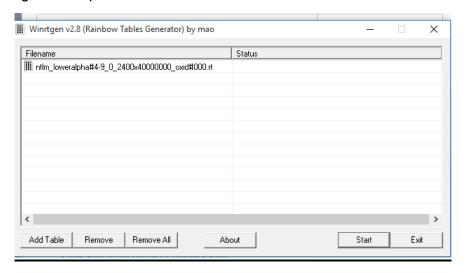
1. Finding the hashes for the passwords in the local system.

Lab Analysis

Tool/Utility	Information Collected/Objective Achieved	
PWdump7	Output: List of User and Password Hashes	
	Administrator: 31D6CFE0D16AE931B73C59D7E0C089C0:::	
	Sachin: 988DD8F9B4A2E2676CAA683606862990:::	

Creating the Rainbow Tables Using Winrtgen

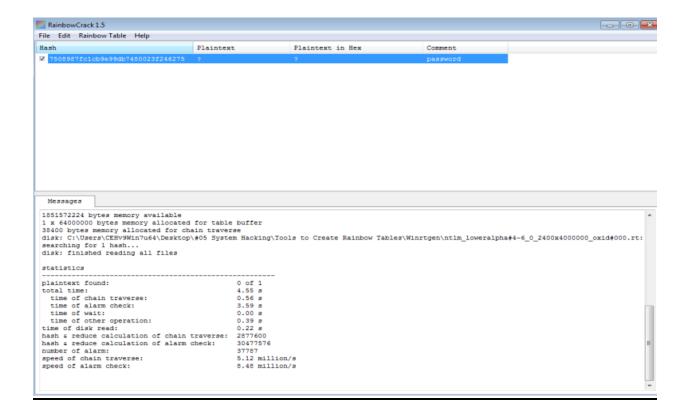
1. Creating lower alpha RainbowCrack table



Lab Analysis

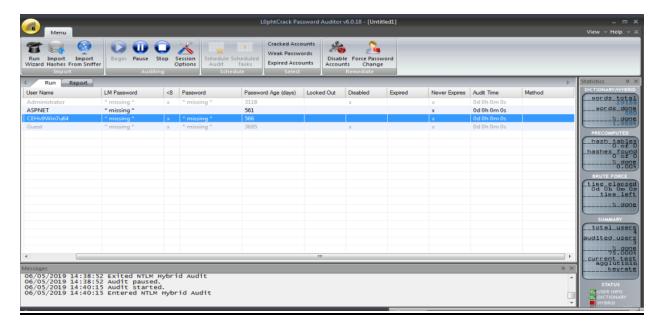
Tool/Utility	Information Collected/Objective Achieved	
Winrtge	Purpose: Creating Rainbow table with lower alpha	
	Output: Created Rainbow table:	
	ntlm_loweralpha#4.6_0_02400X400000_ox	

Password Cracking Using RainbowCrack



Tool/Utility	Information Collected/Objective Achieved
RainbowCrack	Hashes: 7508987FC1CB9E99DB8580023F246275
	Password Cracked: Could not be cracked

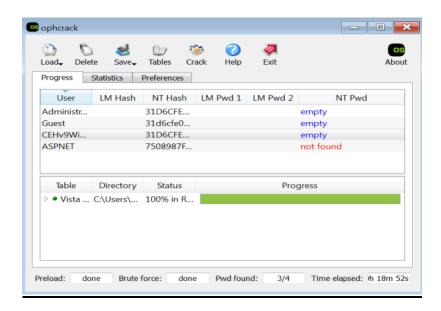
Extracting Adminstrator passwords Using L0phtCrack



Lab Analysis

Tool/Utility	Information Collected/Objective Achieved
L0phtCrack	User Names:CEHv9Win7u64
	Password Found: asuna

Password Cracking Using Ophcrack



Tool/Utility	Information Collected/Objective Achieved
OphCrack	User Names: CEHv9Win
	Rainbow Table Used : Vista free
	Password Found: Not Found

Hiding Data Using Snow Steganography

1. Using snow steganography, hiding important content inside the text file. Which is can't be seen by third person.

```
C:\Users\CEHv9\tin7u64\Desktop\#05 System Hacking\Steganography Tools\Whitespace Steganography Tools\Snow>snow -C -m "my swiss bank account number is 45656684542 256" -p "magic" readme.txt readme2.txt
Compressed by 23.64%
Message exceeded available space by approximately 524.44%.
An extra 9 lines were added.
C:\Users\CEHv9\tin7u64\Desktop\#05 System Hacking\Steganography Tools\Whitespace Steganography Tools\Snow\snow -C -p "magic" readme2.txt
my swiss bank account number is 4565684542256
C:\Users\CEHv9\tin7u64\Desktop\#05 System Hacking\Steganography Tools\Whitespace Steganography Tools\Whitespace
```

Lab Analysis

Tool/Utility	Information Collected/Objective Achieved
Snow Steganography	Output: You will see the hidden data inside Notepad

Viewing, Enabling, and Clearing the Audit Policies Using Auditpol

To view Auditpol

```
Security Group Management
                                        Success
 Distribution Group Management
                                        No Auditing
 Application Group Management
                                        No Auditing
 Other Account anagement Events
                                        No Auditing
S Access
Directory Service Changes
                                        No Auditing
 Directory Service Replication
                                        No Auditing
 Detailed Directory Service Replication No Auditing
Directory Service Access
                                        No Auditing
ecount Logon
Kerberos Service Ticket Operations
                                        No Auditing
 Other Account Logon Events
                                        No Auditing
                                        No Auditing
 Kerberos Authentication Service
 Credential Validation
                                        No Auditing
C:\Windows\system32>auditpol /set /category:"system","account logon" /success:en
able /failure:enable
The command was successfully executed.
```

2. Enabling the Auditpol

```
C:\Windows\system32\auditpol /get /category:*

SysteM audit policy
Category/Subcategory
System
Security System Extension
Success and Failure
System Integrity
IPsec Driver
Other System Events
Security State Change
Success and Failure
Success and Failure
Success and Failure
Success and Failure
Security State Change
Success and Failure
```

3. Clearing the Audit policy

```
C:\Windows\system32>auditpol /get /category:×
System audit policy
Category/Subcategory Setting
System
Security System Extension No Auditing
System Integrity No Auditing
IPsec Driver No Auditing
Other System Events No Auditing
Security State Change No Auditing
```

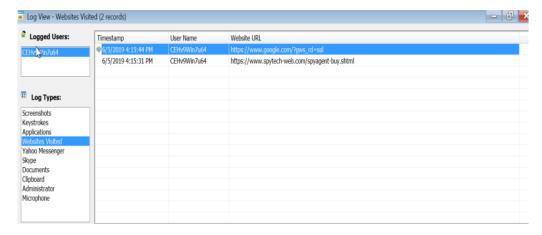
Tool/Utility	Information Collected/Obje	ctive Achieved	
AuditPol	Result open Auditpol categ	Result open Auditpol category:	
	System		
	Security System Exter	sion – No Auditing	
	System Integrity	No Auditing	
	IPsec Driver	No Auditing	
	Account Logon	-	
	Logon	No Auditing	
	Logoff	No Auditing	
	Account Lockout	No Auditing	

Web Activity Monitoring and Recording Using Power Spy 2013

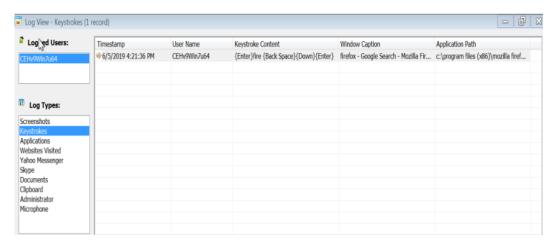
1. PowerSpy started monitoring the victim



2. Website details, which the victim searched.



3. All the keystrokes that victim did during the monitoring period is noted.



Tool/Utility	Information Collected/Objective Achieved	
PoweSpy 2013	Output:	
	 Monitoring Keystrokes typed (given above) 	
	 Website log entries (given above) 	