

Week 3

Writeup

Group Name:HUSTLERS

Members

ID	Name	Role
1211100708	Muhammad Faiz Bln Mohd Fauzi	leader
1211101962	Barath A L Saravanan	member
1211101804	AKHILESHNAIDU A/L JAYA KUMAR	member

Day 6 - [Web Exploitation] Be careful with what you wish on a Christmas night
Tools used = Kali linux, Firefox

Question 1@ 2

Allow List Regular Expression Examples

Validating a U.S. Zip Code (5 digits plus optional -4)

```
^\d{5}(-\d{4})?$/
```

Validating U.S. State Selection From a Drop-Down Menu

```
^(AA|AE|AP|AL|AK|AS|AZ|AR|CA|CO|CT|DE|DC|FM|FL|GA|GU|HI|ID|IL|IN|IA|KS|KY|LA|ME|MH|MD|MA|MI|MN|MS|MO|MT|NE|NV|NH|NJ|NM|NY|NC|ND|MP|OH|OK|OR|PW|PA|PR|RI|SC|SD|TN|TX|UT|VT|VI|VA|WA|WV|WI|WY)$
```

Question 3

TryHackMe | Learn Cy... TryHackMe Support Offline CyberChef GitHub - swisskyrepo/...

Welcome to Santa's official 'Make a Wish!' website

YEAR 2020

Here you can anonymously submit your Christmas wishes and see what other people wished too!

Search query

Showing all wishes:

Question 4

Welcome to Santa's official 'Make a Wish!' website

YEAR 2020

Here you can anonymously submit your Christmas wishes and see what other people wished too!

Search query

Here are all wishes that have "asdf":

Enter your wish here:

Alerts 0 0 0 0 Primary Proxy: localhost:8080 Current Scans 0 0 0 0 0 0 0 0 0 0

Question 57

5 Alerts and 2 Cross site scripting

Alerts (5)

- ▶ Cross Site Scripting (Persistent)
- ▶ Cross Site Scripting (Reflected)
- ▶ X-Frame-Options Header Not Set (3)
- ▶ Absence of Anti-CSRF Tokens (6)
- ▶ X-Content-Type-Options Header Missing (4)

Question 6

Coding in Javascript

```
<p></p><script>alert(1);</script><p></p>
```

Day 7 [Networking] The Grinch Really Did Steal Christmas

Tools used: Wireshark,Kali linux, Firefox

Question 1

IP address that initiates an ICMP/ping

17	10.43.447	10.11.3.2	10.10.15.52	ICMP
----	-----------	-----------	-------------	------

Question 2

filter would we use to see HTTP GET requests in our "pcap1.pcap" file

http.request.method == GET

Question 3

name of the article that the IP address "10.10.67.199" visited

365 GET /posts/reindeer-of-the-week/ HTTP/1.1

Question 4

password was leaked during the login process

```
220 Welcome to the TBFC FTP Server!.
USER elfmcskidy
331 Please specify the password.
PASS plaintext_password_fiasco
538 Login incorrect.
SYST
538 Please login with USER and PASS.
QUIT
221 Goodbye.
```

Question 5

the name of the protocol that is encrypted

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	10.10.122.128	10.11.3.2	SSH	182	Server: Encrypted packet (len=48)

Question 8&9

Elf McSkidy's wishlist that will be used to replace Elf McEager and the author of Operation Artic Storm

```
Wish list for Elf McSkidy
_____
Budget: £100
x3 Hak 5 Pineapples
x1 Rubber ducky (to replace Elf McEager)
```

STRICTLY CONFIDENTIAL

Author: Kris Kringle

Revision Number: v2.5

Date of Revision: 14/11/2020

Day 8 - [Networking] What's Under the Christmas Tree?

Tools used: Kali Linux, nmap,Firefox

Solution/walkthrough:

Question 1

Open browser to search about snort

1998

Snort is a free and open source network intrusion prevention system (NIPS) and network intrusion detection system (NIDS) **created** by Martin Roesch in 1998.

Question 2,3,4,5 and 6

Using Nmap ip address to get the number of ports, the name of the Linux distribution that is running, the version of apache and what this website for.

```
PORT      STATE SERVICE          VERSION
80/tcp    open  http           Apache httpd 2.4.29 ((Ubuntu))
|_http-generator: Hugo 0.78.2
|_http-server-header: Apache/2.4.29 (Ubuntu)
|_http-title: TBFC's Internal Blog
2222/tcp  open  ssh            OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   2048 cf:c9:99:d0:5c:09:27:cd:a1:a8:1b:c2:b1:d5:ef:a6 (RSA)
|   256 4c:d4:f9:20:6b:ce:fc:62:99:54:7d:c2:b4:b2:f2:b2 (ECDSA)
|_  256 d0:e6:72:18:b5:20:89:75:d5:69:74:ac:cc:b8:3b:9b (EdDSA)
3389/tcp  open  ms-wbt-server xrdp
MAC Address: 02:FA:6A:FB:3C:BB (Unknown)
No exact OS matches for host (If you know what OS is running on it, see https://nmap.org/submit/).
TCP/IP fingerprint:
OS:SCAN(V=7.60%E=4%D=12/8%T=80%CT=1%CU=30072%PV=Y%DS=1%DC=D%G=Y%M=02FA6A%T
OS:M=5FCFA9BA%P=x86_64-pc-linux-gnu)SEQ(SP=104%GCD=1%ISR=10C%TI=Z%CI=Z%TS=A
OS:)SEQ(SP=104%GCD=1%ISR=10C%TI=Z%CI=Z%II=I%TS=A)OPS(O1=M2301ST11NW7%O2=M23
OS:01ST11NW7%O3=M2301NNT11NW7%O4=M2301ST11NW7%O5=M2301ST11NW7%O6=M2301ST11)
OS:WIN(W1=F4B3%W2=F4B3%W3=F4B3%W4=F4B3%W5=F4B3%W6=F4B3)ECN(R=Y%DF=Y%T=40%W=
OS:F507%O=M2301NNSNW7%CC=Y%Q=)T1(R=Y%DF=Y%T=40%S=0%A=S+%F=AS%RD=0%Q=)T2(R=N
OS:)T3(R=N)T4(R=Y%DF=Y%T=40%W=0%S=A%A=Z%F=R%O=%RD=0%Q=)T5(R=Y%DF=Y%T=40%W=0
OS:%S=Z%A=S+%F=AR%O=%RD=0%Q=)T6(R=Y%DF=Y%T=40%W=0%S=A%A=Z%F=R%O=%RD=0%Q=)T7
OS:(R=Y%DF=Y%T=40%W=0%S=Z%A=S+%F=AR%O=%RD=0%Q=)U1(R=Y%DF=N%T=40%IPL=164%UN=
OS:0%RIPL=G%RID=G%RIPCK=G%RUCK=G%RUD=G)IE(R=Y%DFI=N%T=40%CD=S)
```

Day 9 - [Networking] Anyone can be Santa!

Tools used = KALI LINUX, FIREFOX

Question 1

```
File Actions Edit View Help
dpoint@kali: ...ckme/dpointy  dpoint@kali: ...mas-tryhackme  dpoint@kali: ...mas-tryhackme

ftp> whomai
?Invalid command
ftp> ls
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
drwxr-xr-x  2 0          0          4096 Nov 16 15:04 backups
drwxr-xr-x  2 0          0          4096 Nov 16 15:05 elf_workshops
drwxr-xr-x  2 0          0          4096 Nov 16 15:04 human_resources
drwxrwxrwx  2 65534    65534      4096 Nov 16 19:35 public
226 Directory send OK.
ftp> cd public
250 Directory successfully changed.
ftp> ls
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
-rw-r--r--  1 111     113      341 Nov 16 19:34 backup.sh
-rw-rw-rw-  1 111     113      24 Nov 16 19:35 shoppinglist.txt
226 Directory send OK.
ftp> get backup.sh
local: backup.sh remote: backup.sh
200 PORT command successful. Consider using PASV.
150 Opening BINARY mode data connection for backup.sh (341 bytes).
226 Transfer complete.
341 bytes received in 0.00 secs (119.5290 kB/s)
ftp> ls
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
-rw-r--r--  1 111     113      341 Nov 16 19:34 backup.sh
-rw-rw-rw-  1 111     113      24 Nov 16 19:35 shoppinglist.txt
226 Directory send OK.
ftp> 
```

```
ftp> ls
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
drwxr-xr-x  2 0          0          4096 Nov 16 15:04 backups
drwxr-xr-x  2 0          0          4096 Nov 16 15:05 elf_workshops
drwxr-xr-x  2 0          0          4096 Nov 16 15:04 human_resources
drwxrwxrwx  2 65534    65534      4096 Nov 16 19:35 public
226 Directory send OK.
ftp> 
```

Backups,elf_workshops,human_resources and public found on FTP site.

Question 2

Directory on the FTP server that has data accessible by the "anonymous" user is public

```
File Actions Edit View Help
dpoint@kali: ...ckme/dpointyt  dpoint@kali: ...mas-tryhackme
└$ ls
aoc-pcaps      big.txt    christmas.zip  php-reverse-shell.jpg.php  sqlmap-dev
aoc-pcaps.zip  christmas  notes.txt       santabasesqlmap        wordlist

└(dpoint@kali)-[~/Desktop/tryhackme/dpointyt/christmas-tryhackme]
└$ ftp 10.10.182.64
Connected to 10.10.182.64.
220 Welcome to the TBFC FTP Server!.
Name (10.10.182.64:dpoint): anonymous
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> whomai
?Invalid command
ftp> ls
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
drwxr-xr-x  2 0          0          4096 Nov 16 15:04 backups
drwxr-xr-x  2 0          0          4096 Nov 16 15:05 elf_workshops
drwxr-xr-x  2 0          0          4096 Nov 16 15:04 human_resources
drwxrwxrwx  2 65534     65534     4096 Nov 16 19:35 public
226 Directory send OK.
```

Question 3

Backup.sh script gets executed within this directory?

```
File Actions Edit View Help
dpoint@kali: ...ckme/dpointyt  dpoint@kali: ...mas-tryhackme  dpoint@kali: ...mas-tryhackme
└(dpoint@kali)-[~/Desktop/tryhackme/dpointyt/christmas-tryhackme]
└$ ls
aoc-pcaps      backup.sh  christmas      notes.txt       santabasesqlmap  wordlist
aoc-pcaps.zip  big.txt    christmas.zip  php-reverse-shell.jpg.php  sqlmap-dev

└(dpoint@kali)-[~/Desktop/tryhackme/dpointyt/christmas-tryhackme]
└$ subl backup.sh

└(dpoint@kali)-[~/Desktop/tryhackme/dpointyt/christmas-tryhackme]
└$ subl backup.sh

└(dpoint@kali)-[~/Desktop/tryhackme/dpointyt/christmas-tryhackme]
└$ █
```

Question 4

```
File Edit Selection Find View Goto Tools Project Preferences Help
◀ ▶ backup.sh x shoppinglist.txt x
1 |The Polar Express|Movie
2
```

```
dpoint@kali:~/Desktop/tryhackme/dpointy/christmas-tryhackme
File Actions Edit View Help
dpoint@kali:..ckme/dpointy dpoint@kali:..mas-tryhackme dpoint@kali:..mas-tryhackme

usr
var
vmlinuz
vmlinuz.old
root@tbfc-ftp-01:/# pwd
pwd
/
root@tbfc-ftp-01:/# cd /root
cd /root
root@tbfc-ftp-01:~# ls
ls
flag.txt
root@tbfc-ftp-01:~# cd /public
cd /public
bash: cd: /public: No such file or directory
root@tbfc-ftp-01:~# find / -type f -name shoppinglist.txt
find / -type f -name shoppinglist.txt
/opt/ftp/public/shoppinglist.txt
find: '/proc/1243': No such file or directory
find: '/proc/1244': No such file or directory
find: '/proc/1245': No such file or directory
find: '/proc/1246': No such file or directory
root@tbfc-ftp-01:~# cd /opt/ftp/public/
cd /opt/ftp/public/
root@tbfc-ftp-01:/opt/ftp/public# cat shoppinglist.txt
cat shoppinglist.txt
The Polar Express Movie
root@tbfc-ftp-01:/opt/ftp/public#
```

Christmas shopping list movie - The Polar Express

Question 5

```
dpoint@kali:~/Desktop/tryhackme/dpointyt/christmas-tryhackme
File Actions Edit View Help
dpoint@kali:..ckme/dpointy [ ] dpoint@kali:..mas-tryhackme [ ] dpoint@kali:..mas-tryhackme [x]
usr
var
vmlinuz
vmlinuz.old
root@tbfc-ftp-01:/# pwd
pwd
/
root@tbfc-ftp-01:/# cd /root
cd /root
root@tbfc-ftp-01:~# ls
ls
flag.txt
root@tbfc-ftp-01:~# cd /public
cd /public
bash: cd: /public: No such file or directory
root@tbfc-ftp-01:~# find / -type f -name shoppinglist.txt
find / -type f -name shoppinglist.txt
/opt/ftp/public/shoppinglist.txt
find: '/proc/1243': No such file or directory
find: '/proc/1244': No such file or directory
find: '/proc/1245': No such file or directory
find: '/proc/1246': No such file or directory
root@tbfc-ftp-01:~# cd /opt/ftp/public/
cd /opt/ftp/public/
root@tbfc-ftp-01:/opt/ftp/public cat shoppinglist.txt
cat shoppinglist.txt
The Polar Express Movie
root@tbfc-ftp-01:/opt/ftp/public#
```

Day 10 -[Networking] Don't be sElfish!

Tools used = KALI LINUX, FIREFOX

```
kali@kali:~
```

File Actions Edit View Help

Starting enum4linux v0.9.1 (http://labs.portcullis.co.uk/application/enum4linux/) on Sat Jun 25 11:28:39 2022

(Target Information)

Target 10.10.27.74

RID Range 500-550,1000-1050

Username

Password ''

Known Usernames .. administrator, guest, krbtgt, domain admins, root, bin, none

(Enumerating Workgroup/Domain on 10.10.27.74)

[+] Got domain/workgroup name: TBFC-SMB-01

(Session Check on 10.10.27.74)

[+] Server 10.10.27.74 allows sessions using username '', password ''

(Getting domain SID for 10.10.27.74)

Domain Name: TBFC-SMB-01

Domain Sid: (NULL SID)

[+] Can't determine if host is part of domain or part of a workgroup

(Users on 10.10.27.74)

index: 0x1 RID: 0x3e0 acb: 0x00000010 Account: elfmaskidv Name: Desc:
index: 0x1 RID: 0x3e0 acb: 0x00000010 Account: elfmceager Name: elfmceager Desc:
index: 0x3 RID: 0x3e9 acb: 0x00000010 Account: elfmcelFerson Name: Desc:

user:[elfmaskidv] rid:[0x3e0]
user:[elfmceager] rid:[0x3e0]
user:[elfmcelFerson] rid:[0x3e9]

enum4linux complete on Sat Jun 25 11:28:55 2022

Kali@kali: ~

```
$ smbclient //10.10.27.74/tbfc-santa
Password for [WORKGROUP\kali]:
```

10.10.27.74\tbfc-hr: Not enough '\\' characters in service

Usage: smbclient [-?|-help] [-usage] [-M|-message=HOST] [-I|-ip-address=IP] [-E|-stderr] [-l|-list=HOST] [-T|-tar<|>IXFvgbNan] [-D|-directory=DIR] [-c|-command=STRING] [-b|-send-buffer=BYTES]
[-t|-timeout=SECONDS] [-p|-port=PORT] [-g|-grepable] [-q|-quiet] [-B|-browse] [-d|-debuglevel=DEBUGLEVEL] [-o|-debug stdout] [-s|-configfile=CONFIGFILE] [-o|-option=name,value] [-l|-log-basename=LOGFILEBASE]
[-leak-report] [-leak-report=full] [-R|-name-resolve=NAME_RESOLVE_ORDER] [-O|-socket-options=SOCKETOPTIONS] [-m|-max-protocol=MAXPROTOCOL] [-n|-netbiosname=NETBIOSNAME] [-n|-netbios-scope=SCOPE]
[-W|-workgroup=WORKGROUP] [-realm=REALM] [-U|-user=[DOMAIN\USERNAME][PASSWORD]] [-N|-no-pass] [-password=STRING] [-pw-nt-hash] [-A|-authentication-file=FILE] [-P|-machine-pass] [-simple-bind-dn=DN]
[-use-kerberos=desired|required|off] [-use-krb5=cache|cCACHE] [-use-winbind=ccache] [-client-protection-sign|encrypt|off] [-K|-kerberos] [-V|-version] [OPTIONS] service <password>

10.10.27.74\tbfc-santa: Not enough '\\' characters in service

Usage: smbclient [-?|-help] [-usage] [-M|-message=HOST] [-I|-ip-address=IP] [-E|-stderr] [-l|-list=HOST] [-T|-tar<|>IXFvgbNan] [-D|-directory=DIR] [-c|-command=STRING] [-b|-send-buffer=BYTES]
[-t|-timeout=SECONDS] [-p|-port=PORT] [-g|-grepable] [-q|-quiet] [-B|-browse] [-d|-debuglevel=DEBUGLEVEL] [-o|-debug stdout] [-s|-configfile=CONFIGFILE] [-o|-option=name,value] [-l|-log-basename=LOGFILEBASE]
[-leak-report] [-leak-report=full] [-R|-name-resolve=NAME_RESOLVE_ORDER] [-O|-socket-options=SOCKETOPTIONS] [-m|-max-protocol=MAXPROTOCOL] [-n|-netbiosname=NETBIOSNAME] [-n|-netbios-scope=SCOPE]
[-W|-workgroup=WORKGROUP] [-realm=REALM] [-U|-user=[DOMAIN\USERNAME][PASSWORD]] [-N|-no-pass] [-password=STRING] [-pw-nt-hash] [-A|-authentication-file=FILE] [-P|-machine-pass] [-simple-bind-dn=DN]
[-use-kerberos=desired|required|off] [-use-krb5=cache|cCACHE] [-use-winbind=ccache] [-client-protection-sign|encrypt|off] [-K|-kerberos] [-V|-version] [OPTIONS] service <password>

Kali@kali: ~

```
$ smbclient //10.10.27.74/tbfc-santa
Password for [WORKGROUP\kali]:
```

Try "help" to get a list of possible commands.

smb: \>

Question #1 Using enum4linux, how many users are there on the Samba server (10.10.27.74).

Answer format:*****

Submit

Question #2 Now how many "shares" are there on the Samba server?

Answer format:*****

Submit

Question #3 Use ambclient to try to login to the shares on the Samba server (10.10.27.74). What share doesn't require a password?

Answer format:*****

Submit

Question #4 Log in to this share, what directory did ElfMcSkidy leave for Santa?

Answer format:*****

Submit

Question #5 (Day 11) - Santa's Log - The Rogue Gnome

Question #6 (Day 11) - Santa's Log - Ready, set, all!

Kali@kali: ~

```
$ smbclient //10.10.27.74/tbfc-hr
Password for [WORKGROUP\kali]:
```

10.10.27.74\tbfc-hr: Not enough '\\' characters in service

Usage: smbclient [-?|-help] [-usage] [-M|-message=HOST] [-I|-ip-address=IP] [-E|-stderr] [-l|-list=HOST] [-T|-tar<|>IXFvgbNan] [-D|-directory=DIR] [-c|-command=STRING] [-b|-send-buffer=BYTES]
[-t|-timeout=SECONDS] [-p|-port=PORT] [-g|-grepable] [-q|-quiet] [-B|-browse] [-d|-debuglevel=DEBUGLEVEL] [-o|-debug stdout] [-s|-configfile=CONFIGFILE] [-o|-option=name,value] [-l|-log-basename=LOGFILEBASE]
[-leak-report] [-leak-report=full] [-R|-name-resolve=NAME_RESOLVE_ORDER] [-O|-socket-options=SOCKETOPTIONS] [-m|-max-protocol=MAXPROTOCOL] [-n|-netbiosname=NETBIOSNAME] [-n|-netbios-scope=SCOPE]
[-W|-workgroup=WORKGROUP] [-realm=REALM] [-U|-user=[DOMAIN\USERNAME][PASSWORD]] [-N|-no-pass] [-password=STRING] [-pw-nt-hash] [-A|-authentication-file=FILE] [-P|-machine-pass] [-simple-bind-dn=DN]
[-use-kerberos=desired|required|off] [-use-krb5=cache|cCACHE] [-use-winbind=ccache] [-client-protection-sign|encrypt|off] [-K|-kerberos] [-V|-version] [OPTIONS] service <password>

10.10.27.74\tbfc-santa: Not enough '\\' characters in service

Usage: smbclient [-?|-help] [-usage] [-M|-message=HOST] [-I|-ip-address=IP] [-E|-stderr] [-l|-list=HOST] [-T|-tar<|>IXFvgbNan] [-D|-directory=DIR] [-c|-command=STRING] [-b|-send-buffer=BYTES]
[-t|-timeout=SECONDS] [-p|-port=PORT] [-g|-grepable] [-q|-quiet] [-B|-browse] [-d|-debuglevel=DEBUGLEVEL] [-o|-debug stdout] [-s|-configfile=CONFIGFILE] [-o|-option=name,value] [-l|-log-basename=LOGFILEBASE]
[-leak-report] [-leak-report=full] [-R|-name-resolve=NAME_RESOLVE_ORDER] [-O|-socket-options=SOCKETOPTIONS] [-m|-max-protocol=MAXPROTOCOL] [-n|-netbiosname=NETBIOSNAME] [-n|-netbios-scope=SCOPE]
[-W|-workgroup=WORKGROUP] [-realm=REALM] [-U|-user=[DOMAIN\USERNAME][PASSWORD]] [-N|-no-pass] [-password=STRING] [-pw-nt-hash] [-A|-authentication-file=FILE] [-P|-machine-pass] [-simple-bind-dn=DN]
[-use-kerberos=desired|required|off] [-use-krb5=cache|cCACHE] [-use-winbind=ccache] [-client-protection-sign|encrypt|off] [-K|-kerberos] [-V|-version] [OPTIONS] service <password>

Kali@kali: ~

```
$ smbclient //10.10.27.74/tbfc-santa
Password for [WORKGROUP\kali]:
```

Try "help" to get a list of possible commands.

smb: \> ls

.	D	0	Wed Nov 11 21:12:07 2020
..	D	0	Wed Nov 11 20:32:21 2020
jingle-tunes	D	0	Wed Nov 11 21:12:01 2020
note_from_msksky.txt	N	143	Wed Nov 11 21:12:07 2020

10252564 blocks of size 1024. 5368136 blocks available

smb: \> get note_from_msksky.txt
getting file note_from_msksky.txt of size 143 as note_from_msksky.txt (0.2 Kilobytes/sec) (average 0.2 Kilobytes/sec)

smb: \> cd jingle-tunes\

Question #1 Using enum4linux, how many users are there on the Samba server (10.10.27.74).

Answer format:*****

Submit

Question #2 Now how many "shares" are there on the Samba server (10.10.27.74).

Answer format:*****

Submit

Question #3 Use ambclient to try to login to the shares on the Samba server (10.10.27.74). What share doesn't require a password?

Answer format:*****

Submit

Question #4 Log in to this share, what directory did ElfMcSkidy leave for Santa- (jingle-tunes)

Answer format:*****

Submit

Question #5 (Day 11) - Santa's Log - The Rogue Gnome

Question #6 (Day 11) - Santa's Log - Ready, set, all!

All answers for questions 1,2,3,4,5 are displayed in these screenshots.

It basically shows the amount of users.
And share that does not require password.
directory did ElfMcSkidy leave for Santa- (jingle-tunes)