PSP0201 Week 5 Writeup

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Day 16: Scripting - Help! Where is Santa?

Tools Used: Kali Linux

Solution/Walkthrough:

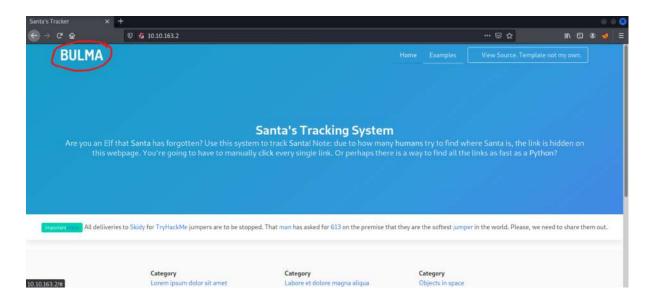
Question 1

Answer: 80

Scan all available ports on the machine by using nmap. We can see that port 80 is the open http port which is the webserver.

Answer: BULMA

When you open the website using the ip address, the template name is shown at the top left of the website.



Question 3

Answer: /api/

View the page source and find the api directory.

Answer: {"detail":"Not Found"}

Open the api endpoint without the api key or parameter. Change from JSON to raw data.



Question 5

Answer: Winter Wonderland, Hyde Park, London

Make a python code at any text editor that will retrieve data for each odd number api key parameter from the website.

```
File Edit Search View Document Help

↑ ↑ ↑ ↑ ↑ C × ⊃ C % □ □ Q & Q □

1 #!/1211103141/bin/env python3

2

3 import requests

4

5 for api_key in range(1,100,2):

6 html = requests.get(f'http://10.10.163.2/api/{api_key}')

7 print(html.text)
```

Run the file by using the terminal and you will find Santa's place.

```
File Actions Edit View Help

(12111021416 kali)-[~]

| python3 | santafinder.py |
| 'ltem_id':3, 'q': 'Error. Key not valid!' }
| 'ltem_id':1, 'q': 'Error. Key not valid!' }
| 'ltem_id':1, 'q': 'Error. Key not valid!' }
| 'ltem_id':13, 'q': 'Error. Key not valid!' }
| 'ltem_id':21, 'q': 'Error. Key not valid!' }
| 'ltem_id':23, 'q': 'Error. Key not valid!' }
| 'ltem_id':33, 'q': 'Error. Key not valid!' }
| 'ltem_id':35, 'q': 'Error. Key not valid!' }
| 'ltem_id':43, 'q': 'Error. Key not valid!' }
| 'ltem_id':55, 'q': 'Error. Key not valid!' }
| 'ltem_id':57, 'q': 'Error. Key not valid!' }
| 'ltem_id':57, 'q': 'Error. Key not valid!' }
| 'ltem_id':57, 'q': 'Error. Key not valid!
```

Question 6

Answer: 57

Given with Santa's place

```
{"item_id":57, "q": "Winter Wonderland, Hyde Park, London."}
```

Thought Process/Methodology:

First we use nmap to scan the available web server port. Then, we open the website and find the template used, which is BULMA. Next, we look at the page source to find the api directory. We tried opening the directory without the parameter(api key) and it only showed "detail not found". We made a python code to easily find the correct api key and Santa's location, and ran it using the terminal.

Day 17: Reverse Engineering - ReverseELFneering

Tools Used: Kali Linux

Solution/Walkthrough:

Question 1

Answer: Byte > 1

Word > 2

Double word > 4

Quad > 8

Single-precision > 4
Double-precision > 8

We enter the data size(bytes) from the data given in Tryhackme

Initial Data Type	Suffix	Size (bytes)
Byte	b	ħ
Word	·w	2
Double Word	Ţ	4
Quad	q	8
Single Precision	s	4
Double Precision	Ĭ	8

Question 2

Answer: aa

we use command 'aa' to ask radare 2 to analyse the program

This will open the binary in debugging mode. Once the binary is open, one of the first things to do is ask r2 to analyze the program, and this can be done by typing in:

Question 3

Answer: db

We use command 'db' to set a breakpoint as it allows to look at the state of the program at particular point

A **breakpoint** specifies where the program should stop executing. This is useful as it allows us to look at the state of the program at that particular point. So let's set a breakpoint using the command **db** in this case, it would be **db** 0x00400b55 To ensure the breakpoint is set, we run the **pdf** @main command again and see a little **b** next to the instruction we want to stop at.

Answer: dc

To execute the breakpoint, we use command 'dc' to execute the program until we hit the breakpoint

```
Running dc will execute the program until we hit the breakpoint. Once we hit the breakpoint and print out the main function, the rip which is the current instruction shows where execution has stopped. From the notes above, we know that the mov instruction is used to transfer values. This statement is transferring the value 4 into the local_ch variable. To view the contents of the local_ch variable, we use the following instruction px @memory-address In this case, the corresponding memory address for local_ch will be rbp-0xc (from the first few lines of @pdf main) This instruction prints the values of memory in hex:
```

Question 5

Answer: 1

First launch the radare 2 in the debug mode and launch the challenge 1 file, and start analysis with command 'aa'. After that command pdf@main to get to the main.

```
effinecager@tbfc-day-17:-

File Actions Edit View Help

Warning: Permanently added '10.10.84.219' (ED25519) to the list of known hosts.
elfimecager@10.10.84.219's password:

Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 4.15.0-128-generic x86_64)

* Documentation: https://landscape.canonical.com

* Management: https://landscape.canonical.com

* Support: https://landscape.canonical.com

* Support: https://ubuntu.com/advantage

System information as of Sat Jul 16 09:31:06 UTC 2022

System load: 0.0 Processes: 92
Usage of /: 39.4% of 11.75GB Users logged in: 0
Memory usage: 8% IP address for ens5: 10.10.84.219

Swap usage: 0%

0 packages can be updated.
0 updates are security updates.

Last login: Wed Dec 16 18:25:51 2020 from 192.168.190.1
elfmccager@tbfc-day-17:-$ r2 -d ./challenge1
Process with PID 1511 started...
- attach 1511 1511
bin.baddr 0-00400000
Warning: Cannot initialize dynamic strings
asm.bits 64
[0.00400330] aa
[ WARNING: block size exceeding max block size at 0x006bc860
[4] Try changing it with e anal.bb.maxsize
WARNING: block size exceeding max block size at 0x006bc860
[4] Try changing it with e anal.bb.maxsize
WARNING: block size exceeding max block size at 0x006bc860
[4] Try changing it with e anal.bb.maxsize
[x] Analyze all flags starting with sym. and entry0 (aa)
[0.00400330] pdfamain
```

You can get local_ch with the data given

Question 6

Answer: 6

Dword [local_8h] = 1x6

```
[0*00400a30]> pdf@main ;-- main:

/ (fcn) sym.main 35
sym.main ();
; var int local_ch a rbp-0*c
; var int local_4h a rbp-0*4
; pATA XREF from 0*00400a4d (entry0)
0*00400b4d 55 push rbp
0*00400b4e 4889e5 mov rbp, rsp
0*00400b5e c745f4010000. mov dword [local_ch], 1
0*00400b5 c745f8060000. mov dword [local_sh], 6
0*00400b5f 8b45f4 mov eax, dword [local_ch]
0*00400b6 0faf45f8 imul eax, dword [local_sh]
0*00400b6 8945fc mov dword [local_sh]
0*00400b6 8945fc mov dword [local_sh]
0*00400b6 5d pop rbp
0*00400b6 5d pop rbp
0*00400b6f c3 ret
```

Answer: 6

Taking the value from eax and then copying it into that other variable

```
[0×00400a30]> pdfmmain ;-- main:

/ (fcn) sym.main 35
sym.main ();
; var int local_ch @ rbp-0×c
; var int local_sh @ rbp-0×s
; var int local_4h @ rbp-0×4
; CATA XREF irom 0×00400a4d (entry0)
0×00400b4d 55 push rbp
0×00400b51 c745f4010000. mov dword [local_ch], 1
0×00400b55 c745f8060000. mov dword [local_sh], 6
0×00400b56 8945f4 mov eax, dword [local_sh]
0×00400b60 0faf45f8 imul eax, dword [local_sh]
0×00400b60 5d pop rbp
0×00400b60 5d pop rbp
0×00400b66 5d pop rbp
0×00400b66 5d pop rbp
0×00400b66 c3 ret
```

Thought Process/Methodology:

First launch the radare 2 in the debug mode and launch the challenge 1 file , and start analysis with command 'aa' . After that command pdf@main to get to the main. Then You can get local_ch with the data given . To get the value of eax , we multiply 1 with 6 and get answer 6 and for the local_8h , we take the value from eax and then copy it into that other variable.

Day 18: Reverse Engineering - The Bits of Christmas

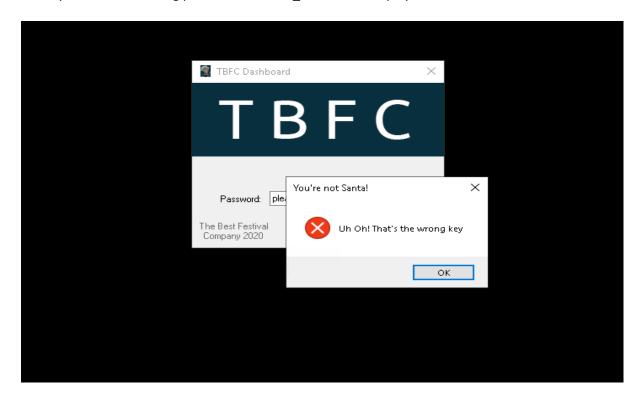
Tools Used: Kali Linux

Solution/Walkthrough:

Question 1

Answer: Uh Oh! That's the wrong key", "You're not Santa!

When you enter the wrong password for TBFC_APP, it will display this



Answer: The Best Festival Company

Open the remmina from AttachBox ,then click the TBCF_APP and enter the IP address given. After that it will show the App desktop and click the TBFC_APP to get what TBFC means from the app dashboard.



Answer: CrackMe

Open ILSpy app and decompile the TBFC_APP

```
▼ 1 TBFC_APP (0.0.0.0, .NETFramework, v4.6.1)
Assemblies

    mscorlib (4.0.0.0, .NETFramework, v4.0)
    mscorlib (4.0.0.0, .NETFramework, v4.0)
                                                      // C:\Users\cmnatic\Desktop\TBFC_APP.exe

    ■ ■ System (4.0.0.0, .NETFramework, v4.0)

                                                      // CrackMe, Version=0.0.0.0, Culture=neutral, PublicKeyToken=null

    ■■ System.Core (4.0.0.0, .NETFramework, v4.0)

                                                      // Global type: <Module>

    System.Xml (4.0.0.0, .NETFramework, v4.0)

                                                      // Entry point: <Module>.main

    ■■ System.Xaml (4.0.0.0, .NETFramework, v4.0)

                                                      // Architecture: x86

    ■■ WindowsBase (4.0.0.0, .NETFramework, v4.0)

                                                      // This assembly contains unmanaged code.

    ■■ PresentationCore (4.0.0.0, .NETFramework, v4.0)

                                                      // Runtime: v4.0.30319

    ■---

PresentationFramework (4.0.0.0, .NETFramewor

                                                      // Hash algorithm: SHA1
■■■ TBFC_APP (0.0.0.0, .NETFramework, v4.6.1)
                                                    □ using System.Reflection;
using System.Runtime.Versioning;
                                                      using System Security;
                                                      -using System Security.Permissions;
                                                      [assembly: SecurityRules(SecurityRuleSet.Levet1)]
                                                      [assembly: TargetFramework(".NETFramework, Version=v4.6.1", FrameworkDisplayName = ".NET Framework 4.6.1")]
                                                       [assembly: SecurityPermission(SecurityAction.RequestMinimum, SkipVerification = true)]
                                                      [assembly: AssemblyVersion("0.0.0.0")]
```

Then click the plus (+) sign beside TBFC_APP and it will show the module

```
| The Very Window Price | The Price | The
```

Answer: MainForm

Click the (+) sign beside CrackMe module, then it will show you the 2 form and pick the Main form to get into other main file

```
⊗ 10.10.64.90 ×
 j≡ ILSpy
File View Window Help
Assemblies Carlotte - In Page 6 Carlotte Carlott
   😊 😊 👛 ℧ (Default)
                                                                                           - In B +6 GE C#
                                                                                                                                                                                                    - C#9.0 (experiments - 🖫 🗗 🔎
                                                                                                                                                                                  private unsafe void buttonActivate_Click(object sender, EventArgs e)
{
                                                                                                                                                                                               IntPtr value = Harshal.StringTolKilobalAmsi(textBooxfey.Text);
sbyte* ptr = (sbyte*)System.Runtime.CompilerServices.Unsafe.AsPointer(ref diadules.??_CQ_&BBBGIRYOFEPG@sastapasswordDOI@);
byte = "tbyte*)ptr2;
byte 52 = 115;
f((uint)b > * 115u)
                                                                                                                                                                                                             while ((uint)b <= (uint)b2)
                                                                                                                                                                                                                           if [b != 0]
                                                                                                                                                                                                                                         ptr2 = (byte*)ptr2 + 1;
ptr++;
b = *(byte*)ptr2;
b2 = (byte)(*ptr);
if ((uint)b < (uint)b2);</pre>

    □ ■■ System. Data (4.0.0.0, .NETFramework, v4.0)
    ■ ■■ System. Drawing (4.0.0.0, .NETFramework, v4.0)
    ■ ■■ System. Windows. Forms (4.0.0.0, .NETFramework)
                                                                                                                                                                                                                                            }
continue;
                                                                                                                                                                                                                              T
NessageBox.Show("Welcome, Santa, here's your flagithm[@M6st]", "That's the right key!", MessageBoxButtons.Of, MessageBoxIcon.Aster(sk);
return;
                                                                                                                                                                                                }
MessageBox.Show("Uh Oh! That's the among key", "You're not Santal", MessageBoxBottons.GK, MessageBoxIcon.Aond);
                                                                                                                                                                                 private void panellogo_Paint(object sender, PaintEventArgs e)
                                                                                                                                                                                  private void textBoxKey_TextChanged(object sender, EventArgs e)
                                                                                                                                                                                    private void labelKey_Click(object sender, EventArgs e)
```

Question 5

Answer: buttonActivate_Click

Click the plus(+) sign beside MainForm and it will show you the list of files inside the form, then choose the file that is related to log in to get the login password.

```
⊗ 10.10.64.90 ×
 ;≡ ILSpy
File View Window Help
private unsafe void buttonActivate_Click(object sender, EventAngs e) \xi
                                                                                   IntPtr value = Harshal.StringToNGlobalAmsi(textGowSey.Text); sbyte* ptr - (sbyte*)System.Suntime.CompilerServices.Unsefe.AsPointer(ref dhodules.??_CQ_&BBBGIXYOFEPGGesetapasswordSOIS); byte b - "tbyte*)ptr2; byte b - "tbyte*)ptr2; byte b - "tbyte*)ptr2; byte b - "tbyte*)ptr3; if ((uint)b >> 115u)
  # ** PresentationFramework (4.0.0, NETFrame

** BFC_APP (III.30, NETFramework, v4.61)

* Iff Methodata

** References

** Resources

** I CrackMe

** Amount
                                                                                         while ([uint)b <= (uint)b2)
                                                                                                if [b != 0]
             AboutForm

MainForm

Base Types

Derived Types
                                                                                                     ptr2 = (byte*)ptr2 + 1;
ptr++;
b = *(byte*)ptr2;
b2 = (byte)(*ptr);
if ((uint)b < (uint)b2);</pre>

    Derived Type:
    Whinform()
    Dispase(bod): vaid

    Dispase(bod): vaid

    The System Data (4.00.), NETFramework, v4.0)

    System Draving (4.00.0), NETFramework, v4.0)

    System Windoos, Farns (4.0.0.), NETFramework

                                                                                                           break:
                                                                                                          geBox.Show("Welcome, Santa, here's your flag thm(@M6af)", "That's the right key!", MessageBoxButtons.OM, MessageBoxIcon.Asterisk);
                                                                                    f
HessageBox.Show("Un Ohl That's the among key", "You're not Santal", MessageBoxButtons.GK, MessageBoxIcon.Hond);
                                                                             private void textBoxKey_TextChanged(object sender, EventArgs e)
                                                                             private void labelKey_Click(object sender, EventArgs e)
```

Answer: santapassword321

In the same file as the second question's answer, there is also Santa's password written on the code. Then click the santa's password

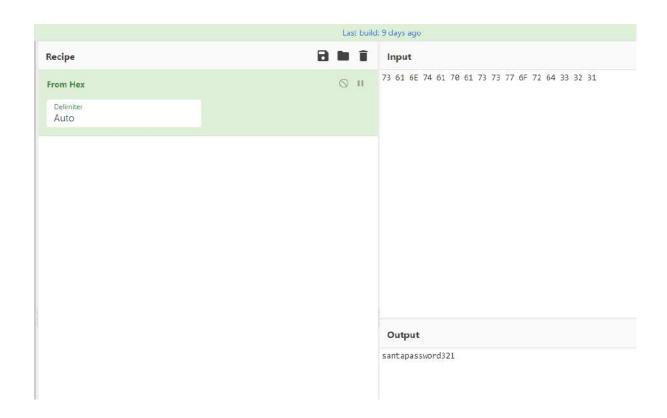
```
ጮ ILSpy
File View Window Help
                                                                                  - In 🗗 🕫 🕬 🕬
🔾 🔾 🖆 🖰 | (Default)
                                                                                                                                                                                                            - C#9.0 (experiments - 📴 🗗 🗩
      semblies

## tagTYPEFLAGS
## tagURITEMFLATE
## tagURITEMFLAT
                                                                                                                                                                                        private void InitializeComponent()
                                                                                                                                                                                        private void MainForm_Load(object sender, EventArgs e)
                                                                                                                                                                                       private void buttonExit_Click(object sender, EventArgs e)
                                                                                                                                                                               private void buttonAbout_Click(object sender, EventArgs e)
                                                                                                                                                                                       private unsafe void buttonActivate_Click(object sender, EventArgs e)
{
                                                                                                                                                                                                      IntPtr value = Narshal.String[olK]obal@msi(textDoofep.Text);
sbyte* ptr - (sbyte*)System.Suntime.CompilerServices.Unsafe.AsPointer(ref chodules.[22.cg.e]
udd* ptr2 - ("udd*)Yalle;
byte b - "(byte*)ptr2;
byte b - "(byte*)ptr2;
if ((uint) > - 115u)
                                                                                                                                                                                                                   while ((uint)b <= (uint)b2)
{</pre>
                                                                                                                                                                                                                                    if (b != 0)
                                                                                                                                                                                                                                                 ptr2 - (byte*)ptr2 + 1;
ptr++;
b - *(byte*)ptr2;
b2 - (byte)(*ptr);
if ((uint)b < (uint)b2)
{
    break;
                                                                                                                                                                                                                                                 } continue;
                                                                                                                                                                                                                                      , messageBox.Show("Welcome, Santa, here's your flag thm(046af)", "That's the right key!", MessageBoxBoxtons.GX, MessageBoxIcon.Asterisk); return;
                      System.Data (4.0.0.0, .NETFramework, v4.0)
System.Data (4.0.0.0, .NETFramework, v4.0)
System.Drawing (4.0.0.0, .NETFramework, v4.0)
System.Windows.Forms (4.0.0.0, .NETFrame
                                                                                                                                                                                                        }
MessageBox.Show("Uh Ohi That's the arong key", "You're not Santal", MessageBoxButtons.CK, MessageBoxIcon.Mond);
```

The file that is displayed to us after we click the password is formatted in hexadecimal. We can use an online tool such as Cyberchef to decode that.

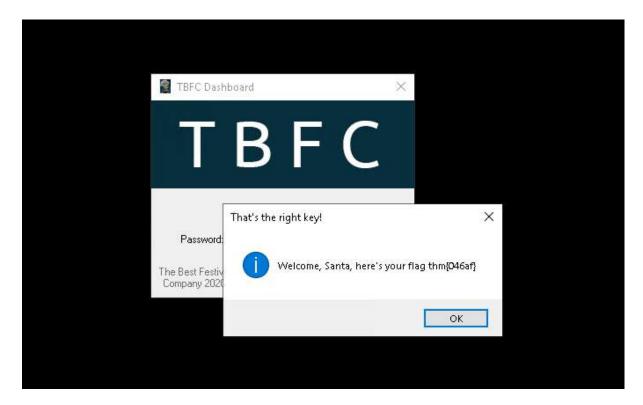
```
data(73 61 6E 74 61 70 61 73 73 77 6F 72 64 33 32 31 00) */;
```

Copy the hexadecimal then decode that and And the result given by CyberChef is the same as the password on the previous file. Which that means it is the santa's password is "santapassword321"



Answer: thm{046af}

Login using the password that you just get and you will get the flag



Thought Process/Methodology

We use the remmina on TryHackMe AttachBox to connect the instance with the following credentials. After we connected to the virtual machine, we could see some of the apps displayed on the desktop. There is Recycle bin, dotPeek, ILSpy, and TBFC_APP which we are going to decompile. In the tutorial above, CMNatics uses ILSpy for decompiling the calculator, so in this case we are going to do the same but with TBFC_APP. To decompile the app, first we open up the ILSpy, then click 'file' and select 'open'. Once the prompt popped up, select the TBFC_APP which is located at the Desktop. TBFC_APP is loaded into ILSpy. After going through all the components on the ILSpy, there are components named 'CrackMe' which is a very weird name. We expand the thing, and inside it there is the MainForm() where the main function is. On the TBFC dashboard picture, the login mechanism is using a button to trigger the action and is also declared in the main function. After that, we click a 'buttonActivate and luckily the flag is hardcoded on the source code. In the same file as the second question's answer, there is also Santa's password written on the code. The file that is displayed to us after we click the password is formatted in hexadecimal. We can use an online tool such as Cyberchef to decode that. And the result given by CyberChef is the same as the password on the previous file.

Day 19: Web Exploitation - The Naughty or Nice List

Tools Used: Kali Linux

Solution/Walkthrough:

Question 1

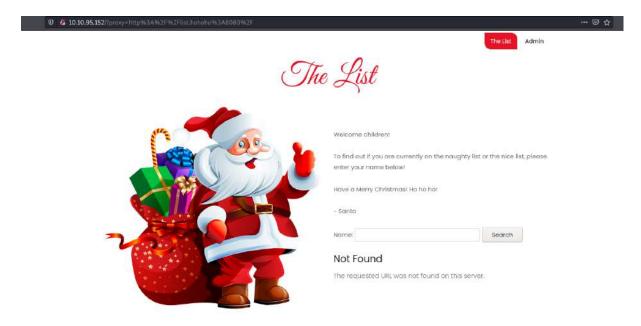
Answer: Nice, Naughty, Nice, Naughty, Nice, Naughty

By inputting the names in the check box one by one, we get to know the results.

Name:	Search
Timothy is on the Naughty L	ist.
ame:	Search
P is on the Nice List.	
ame:	Search
anes is on the Naughty List.	
me:	Search
s on the Naughty List.	
me:	Search

Answer: Not Found. The requested URL was not found on this server.

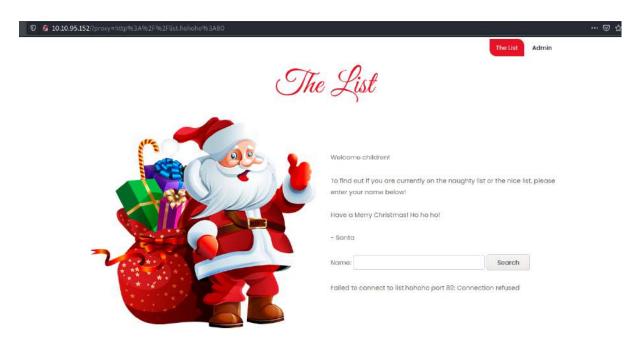
This is because the host does not exist so it cannot find the page.



Question 3

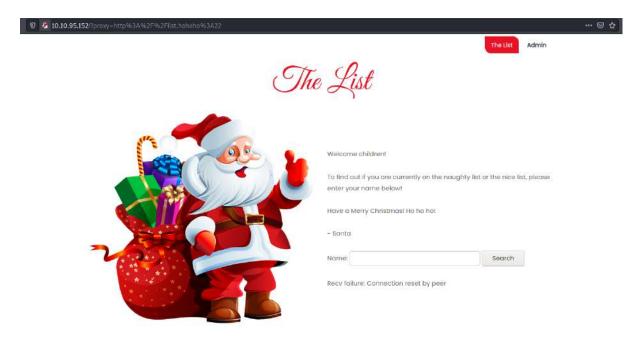
Answer: Failed to connect to list.hohoho port 80: Connection refused

The host seems to not exist thus it cannot connect.



Answer: Recv failure: Connection reset by peer

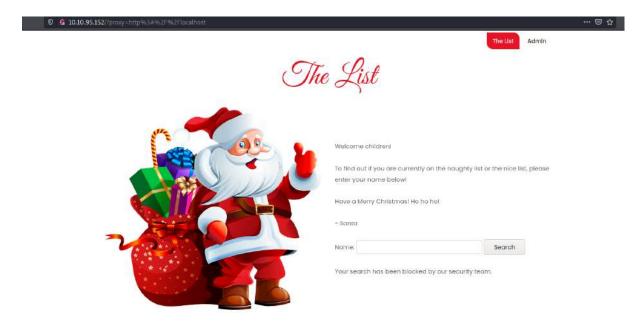
The port exists but it is an SSH server so it did not understand.



Question 5

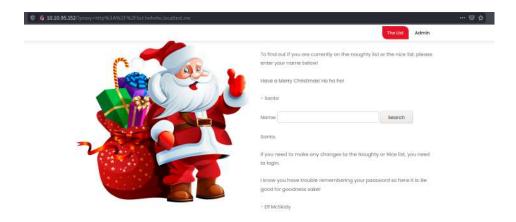
Answer: Your search has been blocked by our security team.

The hostname is different, as the only hostname allowed is list.hohoho.



Answer: Be good for goodness sake!

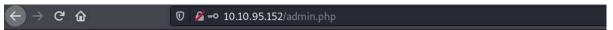
By going to the localhost.me page, there will be a note left by Elf. The note includes the password needed.



Question 7

Answer: THM{EVERYONE_GETS_PRESENTS}

By using the password given, you can now delete all the naughty lists. After deleting, the flag will pop out.



List Administration

This page is currently under construction.

Only press this button when emergency levels of Christmas cheer are needed! DELETE NAUGHTY LIST



Thought Process/Methodology

First, we visit the page and insert the name to get the naughty or nice list. We then change the hostname to list.hohoho and it passes through. Now we know that his hostname is allowed by the admin of the page. We then proceed to go to the localhost page to find the santa password. By inputting the username and password in the admin section, we can now alter with the naughty list, deleting it will show the flag needed.

Day 20: Blue Teaming - PowershELIF to the rescue

Tools Used: Kali Linux

Solution/Walkthrough:

Question 1

Answer: login name

Open the manpage of ssh and find the parameter -l.

```
-l login_name
Specifies the user to log in as on the remote machine. This also may be specified on a per-host basis in
the configuration file.
```

Question 2

Answer: 2 front teeth

After you login successfully, find the hidden files by using Get-ChildItem -Hidden. Then, read the content by using Get-Content.

```
Microsoft Windows [Version 10.0.17763.737]
(c) 2018 Microsoft Corporation. All rights reserved.
mceager@ELFSTATION1 C:\Users\mceager>powershell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
PS C:\Users\mceager> Set-Location .\Documents\
PS C:\Users\mceager\Documents> Get-ChildItem -Hidden
    Directory: C:\Users\mceager\Documents
Mode
                    LastWriteTime
                                          Length Name
d--hsl
             12/7/2020 10:28 AM
                                                 My Music
d--hsl
                                                 My Pictures
              12/7/2020 10:28 AM
                                                 My Videos
d--hsl
             12/7/2020 10:28 AM
             12/7/2020 10:29 AM
-a-hs-
                                            402 desktop.ini
-arh--
            11/18/2020 5:05 PM
                                             35 elfone.txt
PS C:\Users\mceager\Documents> Get-Content elfone.txt
Nothing to see here ...
PS C:\Users\mceager\Documents> cat elfone.txt
Nothing to see here ...
PS C:\Users\mceager\Documents> Get-Content elfone.txt
All I want is my '2 front teeth'!!!
PS C:\Users\mceager\Documents>
```

Answer: Scrooged

Change the directory to desktop and find the hidden folder with Get-ChildItem -Hidden -Directory . Change directory to the hidden folder and view file available with Get-ChildItem. Read the file using Get-Content.

```
PS C:\Users\mceager\Documents> cd
PS C:\Users\mceager> Set-Location .\Desktop\
PS C:\Users\mceager\Desktop> Get-ChildItem -Hidden -Directory
    Directory: C:\Users\mceager\Desktop
Mode
                   LastWriteTime
                                         Length Name
d--h-- 12/7/2020 11:26 AM
                                                elf2wo
PS C:\Users\mceager\Desktop> cd .\elf2wo\
PS C:\Users\mceager\Desktop\elf2wo> Get-ChildItem
    Directory: C:\Users\mceager\Desktop\elf2wo
Mode
                   LastWriteTime
                                         Length Name
          11/17/2020 10:26 AM
                                             64 e70smsW10Y4k.txt
PS C:\Users\mceager\Desktop\elf2wo> Get-Content e70smsW10Y4k.txt
I want the movie Scrooged <3!
PS C:\Users\mceager\Desktop\elf2wo>
```

Answer: 3lfthr3e

Change directory to C:\Windows\System32. Find the hidden folder with Get-ChildItem -Hidden -Directory -Filter "*3*".

Question 5

Answer: 9999

Find the hidden files by using Get-ChildItem -Hidden then find the number of words on the first text file by using Get-Content 1.txt | Measure-Object -Word.

Answer: Red Ryder

Use (Get-Content 1.txt)[index number] to find the words from the same file.

```
PS C:\Windows\System32\3lfthr3e> (Get-Content 1.txt)[551]
Red
PS C:\Windows\System32\3lfthr3e> (Get-Content 1.txt)[6991]
Ryder
```

Question 7

Answer: redryderbbgun

On the same directory, search the word in 2.txt by using Get-Content 2.txt | Select-String -Pattern "redryder".

```
PS C:\Windows\System32\3lfthr3e> Get-Content 2.txt | Select-String -Pattern "redryder" redryderbbgun
```

Thought Process/Methodology

We logged in the remote machine and used multiple cmdlets for our next steps such as Get-Content to read content and Get-ChildItem to list all directories and files. We first find the hidden file e1fone.txt in Documents that says elf 1 wants 2 front teeth. We then found the file e70smsW10Y4k.txt at the hidden folder elf2wo which is located at the Desktop. We also found a hidden folder called 3lfthr3e at \Windows\System32. From there we examined the two hidden text files and found how many words there are and the two important words in the first file. Also, we found what elf 3 wants from the second file.