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VALTED CUESTAS ASRAMONTE

@ 35745

WESESTASQOPES-SEC.COM



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Ethical Hacking



Análisis de Incidentes



Auditoría de Configuración



Revisión de Seguridad del Código Fuente de Aplicaciones



They run automated tools, We have ETHICAL HACKERS











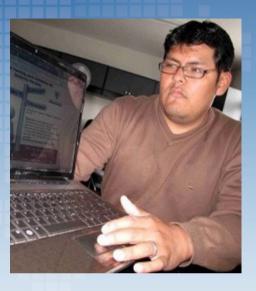






El team...







LATAM TOUR 2014







Experiencia

----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

Greetings Mauricio,

Bizagi has confirmed the vulnerabilities and plans to release patches in June. This would be beyond the standard 45-day publication date, but it is common for us to delay publication until a patch is released. As the original vulnerability reporter, it is your choice whether we delay publication or stick to the standard 45-day disclosure date. Is it acceptable with you if we delay publishing the vulnerability note until the patch is released?

Best regards,

Vulnerability Analysis Team

CERT Coordination Center

www.cert.org / cert@cert.org / Hotline: 1-412-268-7090

----BEGIN PGP SIGNATURE-----

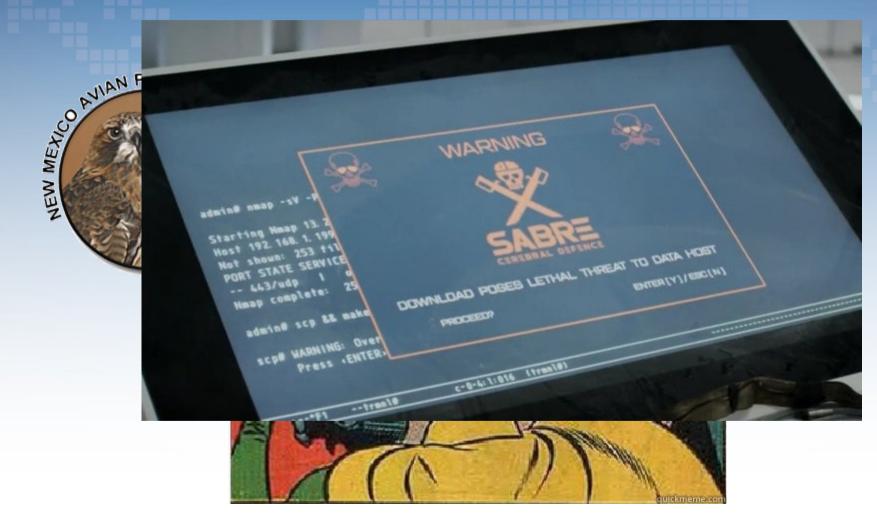
Version: GnuPG v1.4.5 (GNU/Linux)







NMAP?







Quiz Time !!!

- Sí eres root, qué tipo de escaneo hace por default (la fácil!)?
- Sí no se indica los puertos a escanear, cuáles escanea y de dónde los toma?
- Sí le cambias el banner a un Apache usando, por ejemplo, mod_sec, NMAP la hace?
 - SI (cuéntame cómo que no me sale!!!)
 - NO (próximo "chapter meeting" la solución)
- Puedo explotar vulnerabilidades con NMAP ?







- nmap 4.50 y posteriores
- Basados en LUA (Lightweight Scripting Language)
- Objetivo inicial : Mejorar la detección de versiones de software, detección de malware.
- Se ubican en /usr/local/share/nmap/scripts
 - /usr/share/nmap en Kali Linux
- -sC : la forma más fácil de usarlos.



OWASP
Open Web Application
Security Project

NSE: NMAP Script Engine

- Los scripts requieren la instalación de LUA y LUALIB
- En el archivo script.db esta la relación y categorías de scripts :
 - Entry { filename = "ftp-anon.nse", categories = { "auth",
 "default", "safe", } }
 - Entry { filename = "ftp-bounce.nse", categories = { "default", "intrusive", } }
 - Entry { filename = "ftp-brute.nse", categories = { "auth", "intrusive", } }
- La categoría se puede indicar con el parámetro :

--script=CATEGORIA





NSE: Para web

- Is *web* *http* | wc -l
 - -105
- Cubren todo el "ciclo clásico" del hacking
 - Aunque no hagan todo







Footprint (fingerprint)

```
Starting Nmap 6.46 ( http://nmap.org ) at 2014-04-26 09:35 PET
NSE: Loaded 1 scripts for scanning.
NSE: Script Pre-scanning.
Initiating Ping Scan at 09:35
Scanning www.nimedia.pe ( ) [2 ports]
Completed Ping Scan at 09:35, 0.23s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 09:35
Completed Parallel DNS resolution of 1 host. at 09:35, 0.18s elapsed
Initiating Connect Scan at 09:35
NSE: Script scanning .
Initiating NSE at 09:35
NSE Timing: About 50.00% done; ETC: 09:36 (0:00:35 remaining)
Completed NSE at 09:36, 34.75s elapsed
Nmap scan report for www.
Host is up (0.19s latency).
PORT STATE SERV
80/tcp open http
     STATE SERVICE
 http-email-harvest:
 Spidering limited to: maxdepth=3; maxpagecount=20; withinhost=www.
    marcocurricular@: .pe
   webmaster@
   contacto@r .pe
NSE: Script Post-scanning.
Read data files from: /usr/local/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 35.94 seconds
```





Footprint (fingerprint) * NMap -v -p 80 --script http-xssed.nse www.info poline.org

```
Starting Nmap 6.46 ( http://nmap.org ) at 2014-04-26 11:04 PET
NSE: Loaded 1 scripts for scanning.
NSE: Script Pre-scanning.
Initiating Ping Scan at 11:04
Scanning www.info online.org ( ) [2 ports]
Completed Ping Scan at 11:04, 0.19s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host, at 11:04
Completed Parallel DNS resolution of 1 host. at 11:04, 0.19s elapsed
Initiating Connect Scan at 11:04
Scanning www.info: pnline.org (_____) [1 port]
Discovered open port 80/tcp on
Completed Connect Scan at 11:04, 0.20s elapsed (1 total ports)
NSE: Script scanning
Initiating NSE at 11:04
Completed NSE at 11:04, 2.33s elapsed
Nmap scan report for www.info
Host is up (0.18s latency).
rDNS record for
     STATE SERVICE
80/tcp open http
 http-xssed:
    UNFIXED XSS vuln.
      http://www.info _________online.org/registro/registro.php?error=%3CH1%3E%3Cscript%3Ealert(%2FXSSED%2F)<br/>br>%3C/script%3E%3C/H1%3E
R%3E%3CBR%3E%3CBR%<br/>br>3E%3CBR%3E%3CBR%3E%3CBR%3E%3CBR%3E%3CBR%3E
```





```
nmap -n -v -p 80 -sV 172.28.6.254
 Starting Nmap 6.46 ( http://nmap.org ) at 2014-04-26 10:17 PET
 NSE: Loaded 29 scripts for scanning.
 Initiating ARP Ping Scan at 10:17
 Scanning 172.28.6.254 [1 port]
Completed ARP Ping Scan at 10:17, 0.03s elapsed (1 total hosts)
 Initiating SYN Stealth Scan at 10:17
 Scanning 172.28.6.254 [1 port]
Discovered open port 80/tcp on 172.28.6.254
 Completed SYN Stealth Scan at 10:17, 0.02s elapsed (1 total ports)
*Initiating Service scan at 10:17
 Scanning 1 service on 172.28.6.254
 Completed Service scan at 10:17, 6.02s elapsed (1 service on 1 host)
 NSE: Script scanning 172.28.6.254.
 Nmap scan report for 172.28.6.254
 Host is up (0.00059s latency).
 PORT STATE SERVICE VERSION
 80/tcp open http Microsoft IIS httpd 5.0
 MAC Address: 08:00:27:90:73:0A (Cadmus Computer Systems)
 Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
 Read data files from: /usr/local/bin/../share/nmap
 Service detection performed. Please report any incorrect results at http://nmap.org/submit/ .
 Nmap done: 1 IP address (1 host up) scanned in 6.42 seconds
            Raw packets sent: 2 (72B) | Rcvd: 2 (72B)
```





Scanning

```
$ nmap -v -p 80 -Pn --script http-waf-detect.nse www.
Starting Nmap 6.46 ( http://nmap.org ) at 2014-04-26 10:07 PET
NSE: Loaded 1 scripts for scanning.
NSE: Script Pre-scanning.
Initiating Parallel DNS resolution of 1 host. at 10:07
Completed Parallel DNS resolution of 1 host. at 10:07, 0.21s elapsed
Initiating Connect Scan at 10:07
Scanning www. ______.pe (
Discovered open port 80/tcp on [
Completed Connect Scan at 10:07, 0.01s elapsed (1 total ports)
NSE: Script scanning 1
Initiating NSE at 10:07
Completed NSE at 10:07, 4.42s elapsed
Nmap scan report for www.
Host is up (0.012s latency).
    STATE SERVICE
PORT
80/tcp open http
| http-waf-detect: IDS/IPS/WAF detected:
www. pe:80/?p4yl04d3=<script>alert(document.cookie)</script>
NSE: Script Post-scanning.
Read data files from: /usr/local/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 4.84 seconds
```





Enumeración

5 nmap -v -p 80 -Pn --script http-robots.txt.nse www.google.com

```
NSE: Loaded 1 scripts for scanning.
NSE: Script Pre-scanning.
Initiating Parallel DNS resolution of 1 host. at 10:22
Completed Parallel DNS resolution of 1 host. at 10:22, 0.26s elapsed
Initiating Connect Scan at 10:22
Scanning www.google.com (74.125.131.105) [1 port]
Discovered open port 80/tcp on 74.125.131.105
Completed Connect Scan at 10:22, 0.50s elapsed (1 total ports)
NSE: Script scanning 74.125.131.105.
Initiating NSE at 10:22
Completed NSE at 10:22, 0.99s elapsed
Nmap scan report for www.google.com (74.125.131.105)
Host is up (0.49s latency).
Other addresses for www.google.com (not scanned): 74.125.131.103 74.125.131.104 74.125.131.147 74.125.131.106 74.125.131.99
rDNS record for 74.125.131.105: vc-in-f105.1e100.net
PORT
      STATE SERVICE
80/tcp open http
http-robots.txt: 249 disallowed entries (40 shown)
 /search /sdch /groups /images /catalogues
/news /nwshp /setnewsprefs? /index.html? /? /?hl=*&
 /addurl/image? /pagead/ /relpage/ /relcontent /imgres /imglanding /sbd
 /keyword/ /u/ /univ/ /cobrand /custom /advanced group search
 /googlesite /preferences /setprefs /swr /url /default /m? /m/ /wml?
 /wml/? /wml/search? /xhtml? /xhtml/? /xhtml/search? /xml?
NSE: Script Post-scanning.
```



Starting Nmap 6.46 (http://nmap.org) at 2014-04-26 10:22 PET

Read data files from: /usr/local/bin/../share/nmap

Nmap done: 1 IP address (1 host up) scanned in 2.10 seconds



```
$ nmap -v -p 80 -Pn --script http-enum.nse 172.28.6.254
Starting Nmap 6.46 ( http://nmap.org ) at 2014-04-26 10:32 PET
NSE: Loaded 1 scripts for scanning.
NSE: Script Pre-scanning.
Initiating Parallel DNS resolution of 1 host. at 10:32
Completed Parallel DNS resolution of 1 host. at 10:32, 1.17s elapsed
Initiating Connect Scan at 10:32
Scanning 172.28.6.254 [1 port]
Discovered open port 80/tcp on 172.28.6.254
Completed Connect Scan at 10:32, 0.00s elapsed (1 total ports)
NSE: Script scanning 172.28.6.254.
Initiating NSE at 10:32
Completed NSE at 10:32, 1.82s elapsed
Nmap scan report for 172.28.6.254
Host is up (0.0037s latency).
      STATE SERVICE
PORT
80/tcp open http
| http-enum:
    /admin/: Possible admin folder
   /admin/index.php: Possible admin folder
   /admin/login.php: Possible admin folder
   /news/readme.html: Interesting, a readme.
   /file/: Potentially interesting folder
   /home/: Potentially interesting folder
   /icons/: Potentially interesting folder w/ directory listing
   /images/: Potentially interesting folder
   /news/: Potentially interesting folder
    /page/: Potentially interesting folder
                                       n automated tools, We have ETHICAL HAC
NSE: Script Post-scanning.
Read data files from: /usr/local/bin/../share/nmap
```





Enumeración

```
s nmap -v -p 80 -Pn --script http-methods.nse www.
Starting Nmap 6.46 ( http://nmap.org ) at 2014-04-26 10:51 PET
NSE: Loaded 1 scripts for scanning.
NSE: Script Pre-scanning.
Initiating Parallel DNS resolution of 1 host. at 10:51
Completed Parallel DNS resolution of 1 host. at 10:51, 0.20s elapsed
Initiating Connect Scan at 10:51
Scanning www.pline (...) [1 port]
Discovered open port 80/tcp on 155.115.1.51
Completed Connect Scan at 10:51, 0.02s elapsed (1 total ports)
NSE: Script scanning [1].
Initiating NSE at 10:51
Completed NSE at 10:51, 0.44s elapsed
Nmap scan report for www.
Host is up (0.024s latency).
rDNS record for I
PORT
    STATE SERVICE
80/tcp open http
| http-methods: OPTIONS TRACE GET HEAD POST
 Potentially risky methods: TRACE
See http://nmap.org/nsedoc/scripts/http-methods.html
NSE: Script Post-scanning.
Read data files from: /usr/local/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 1.62 seconds
```





Búsqueda de

```
s nmap -v -p 80 -Pn --script http-sql-injection.nse 172.28.6.254
Starting Nmap 6.46 ( http://nmap.org ) at 2014-04-26 11:00 PET
NSE: Loaded 1 scripts for scanning.
NSE: Script Pre-scanning.
Initiating Parallel DNS resolution of 1 host. at 11:00
Completed Parallel DNS resolution of 1 host. at 11:00, 0.09s elapsed
Initiating Connect Scan at 11:00
Scanning 172.28.6.254 [1 port]
Discovered open port 80/tcp on 172.28.6.254
Completed Connect Scan at 11:00, 0.00s elapsed (1 total ports)
NSE: Script scanning 172.28.6.254.
Initiating NSE at 11:00
Completed NSE at 11:00, 11.49s elapsed Nmap scan report for 172.28.6.254
Host is up (0.0013s latency).
PORT STATE SERVI
80/tcp open http
       STATE SERVICE
http-sql-injection:
    Possible sqli for queries:
      http://172.28.6.254/news.php?id=5'%200R%20sqlspider
      http://172.28.6.254/news.php?id=2'%200R%20sqlspider
      http://172.28.6.254/news.php?id=1'%200R%20sqlspider
      http://172.28.6.254/news.php?id=5'%200R%20sqlspider
      http://172.28.6.254/news.php?id=2'%200R%20sqlspider
      http://172.28.6.254/news.php?id=1'%200R%20sqlspider
      http://172.28.6.254/news.php?id=5'%200R%20sqlspider
```





RICALIA A CAMENTS - V - P 80 - Pn --script http-comments-displayer.nse 172.28.6.254

```
STATE SERVICE
NSE: Sci80/tcp open http
        http-comments-displayer:
        Spidering limited to: maxdepth=3; maxpagecount=20; withinhost=172.28.6.254
Initiat:
Scanning
            Path: http://172.28.6.254/images/style.css
Discover
            Line number: 1
Complete
            Comment:
                /* CSS Document */
            Path: http://172.28.6.254/images/style.css
            Line number: 24
            Comment:
                /*TEXT STYLES*/
            Path: http://172.28.6.254/images/style.css
            Line number: 3
            Comment:
                /*PAGE LAYOUT*/
            Path: http://172.28.6.254/images/style.css
            Line number: 19
            Comment:
                /*GRAY PANEL*/
            Path: http://172.28.6.254/#
            Line number: 77
            Comment:
                <!--Red Servidor DMZ 172.16.1.0/24 operador:0p3r4d0r123-->
```





Búsqueda de Vulnerabilidades

- http-backup-finder.nse
- http-config-backup.nse (CMS y web servers más comúnes)
- http-default-accounts.nse
- ·ssl-heartbleed.nse





Penetración (Explotación/Ataques)

- http-axis2-dir-traversal.nse
- http-barracuda-dir-traversal.nse
- http-brute.nse
- http-cors.nse
- http-default-accounts.nse
- http-dombased-xss.nse
- http-fileupload-exploiter.nse
- http-form-brute.nse
- http-passwd.nse
- http-phpmyadmin-dir-traversal.nse
- http-slowloris.nse

- http-vuln-cve2009-3960.nse
- http-vuln-cve2010-0738.nse
- http-vuln-cve2010-2861.nse
- http-vuln-cve2011-3192.nse
- http-vuln-cve2011-3368.nse
- http-vuln-cve2012-1823.nse
- http-vuln-cve2013-0156.nse
- http-vuln-zimbra-lfi.nse





Toma de Evidencias

- Todos dejan evidencia en los reportes
 - PERO, por ejemplo, uno "no oficial" permite tomar un screenshot del web
 - http-screenshot.nse
 - wget http://wkhtmltopdf.googlecode.com/files/wkhtmltoimage-0.11.0_rc1-static-i386.tar.bz2
 - tar -jxvf wkhtmltoimage-0.11.0_rc1-static-i386.tar.bz2
 - cp wkhtmltoimage-i386 /usr/local/bin/
 - git clone git://github.com/SpiderLabs/Nmap-Tools.git
 - cd Nmap-Tools/NSE/
 - cp http-screenshot.nse /usr/local/share/nmap/scripts/
 - nmap --script-updatedb





la screenshot-nmap-192.168.1.215:80.png

2322753 2014-04-26 06:56 screenshot-nmap-192.168.1.215:80.png

screenshot-nmap-192.168.1.215:80.png

File Edit View Image Go Help

Starting Nn

NSE: Loaded NSE: Scrip

Initiating

Scanning 1

Completed

Initiating

Discovered Completed

NSE: Scrip

Initiating

Completed

Nmap scan

Host is up

80/tcp oper

MAC Addres

http-scre

Saved

Scanning

Previous

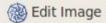














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Welcome to ACME Co. !

News

September 27, 2006

Curabitur arcu tellus, suscipit in, aliquam eget, ultricies id, sapien. Nam est. More...

September 27, 2006

Curabitur arcu tellus, suscipit in, aliquam eget, ultricles id, sapien. Nam est. More ...

September 27, 2006

Curabitur arcu tellus, suscipit in, aliquam eget, ultricies id, sapien. Nam est.

Hi! This is my third design for OSWD, with CSS and XHTML 1.0 Transitional Validation. You can do whatever you want with this template, just keep the Hosting Colombia link at the bottom. Enjoy!

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Aenean ut mauris luctus mauris interdum convallis. Nunc vestibulum sodales nulla. Nulla vitae massa. Maecenas vel tellus vitae elit mattis adipiscing. In pulvinar felis sed est. Mauris non mi. Duis ultrices dolor ut orci. Quisque lacinia arcu et purus. Sed euismod metus nec augue. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Nunc dolor leo, aliquam a, placerat sit amet, accumsan eget, dolor, Sed lacinia augue in magna, Fusce sed enim. Vestibulum et mauris, Phasellus in lectus, Pellentesque eu elit in dolor ullamcorper sodales. Vestibulum interdum ornare ligula. Mauris felis odio, rhoncus sed, adipiscing fermentum, tincidunt eu, metus. Suspendisse viverra rhoncus purus.

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1024 × 566 pixels 2.2 MB 71%

30/31

NSE: Script Post-scanning.

Read data files from: /usr/local/bin/../share/nmap

Nmap done: 1 IP address (1 host up) scanned in 1.06 seconds

8.1.215

Datos Adicionales

- Documentación suficiente en
 - http://nmap.org/nsedoc/
- Scripts "no oficiales" en
 - https://secwiki.org/w/Nmap/External_Script_Library







OUASE

Open Web Application Security Project Perú Chapter



Open-Sec

They run automated tools, We have ETHICAL HACKERS