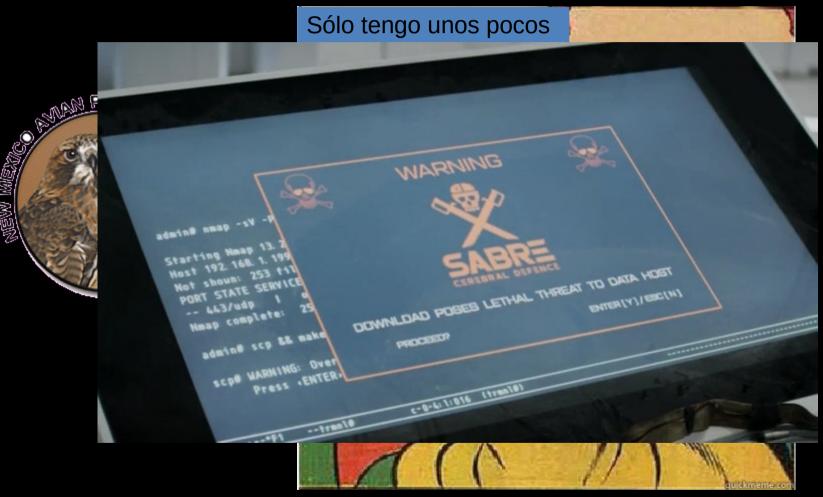








## NMAP?





#### 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 (pronto 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.

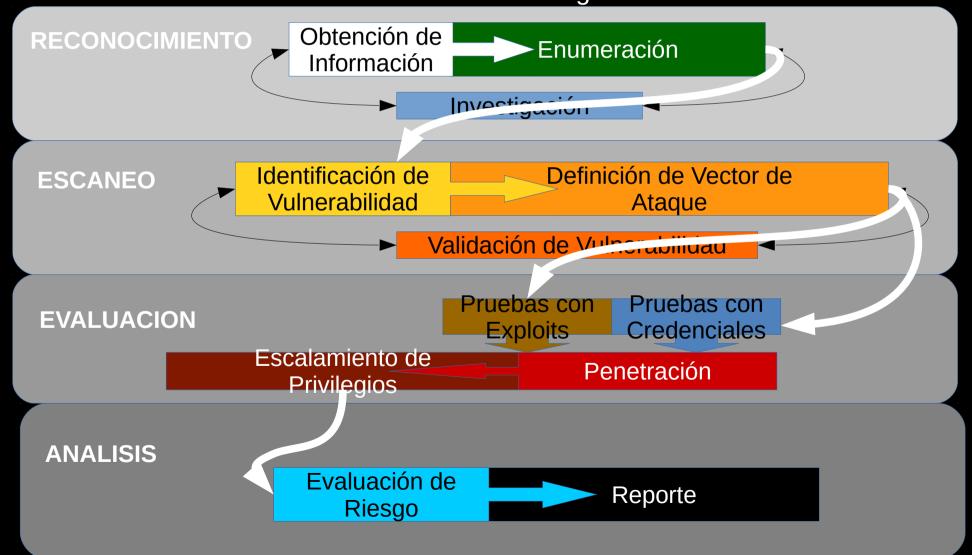


#### **NSE: NMAP Script Engine**

- 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
  - 106
- Cubren CASI todo el "ciclo clásico" del hacking



## Footprint (fingerprint)

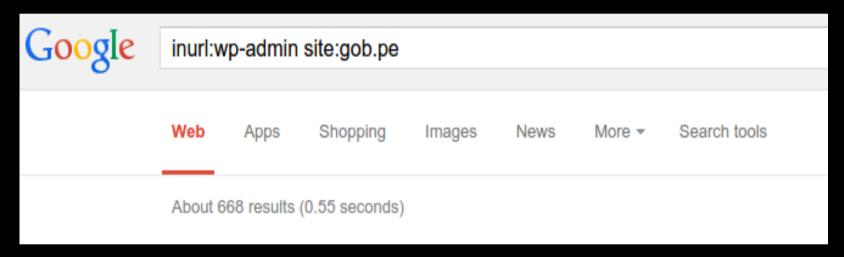
- Clásico: obtener cuentas de email
  - Para qué ?
    - http-email-harvest.nse

```
nmap -v -p 80 --script http-email-harvest.nse www.limin.pe
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.miningib.pe |
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
Scanning www.m. _____.pe (
Discovered open port 80/tcp on 1
Completed Connect Scan at 09:35, 0.02s elapsed (1 total ports)
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 SERVICE
80/tcp open http
 http-email-harvest:
 Spidering limited to: maxdepth=3; maxpagecount=20; withinhost=www.i
   marcocurricular@: .pe
   webmaster@
  contacto@r
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)

- Un "clásico" !
  - Http-google-email-nse



```
:~$ nmap -p80 --script http-google-email --script-args http-google-email.domain=", ...gob.pe" www. ...gob.pe
Starting Nmap 6.47 ( http://nmap.org ) at 2015-10-20 22:06 PET
Nmap scan report for www.pcm.gob.pe (190.116.25.15)
Host is up (0.20s latency).
      STATE SERVICE
PORT
80/tcp open http
 http-google-email:
 secretariadescentralizacion@<b>r ..gob.pe
 sperez@<b>, ...gob.pe
 gvaldivieso@<b> ..gob.pe
 llescano@<b>; .gob.pe
 ongei@<b> .gob.pe
 pecert@<b> .gob.pe
 sut@<b>r .gob.pe
 pcateriano@<b> .gob.pe
 sarobes@<b>, 1.gob.pe
 prensa@<b>; .gob.pe
 atencionciudadana@<b> 1.gob.pe
  --OPEN-SEC:Las direcciones de correo vienen precedidad de "bold". Siempre hay cambios en la rpta de Google.
  for email in body:gmatch('[A-Za-z0-9%.%%%+%-]+@<b>' .. target) do
 fvladez@<b
              .gob.pe
 mhuarniz@<b>
              .gob.pe
 procuraduria@<b: ..gob.pe
 ccosavalente@<b> .gob.pe
 jgonzalez@<b>, ..gob.pe
 aaroca@<b> 1.gob.pe
 aarzubiaga@<b>
                 .gob.pe
 lortiz@<b>, .gob.pe
 cvilchez@<b>r ..gob.pe
 rcornejo@<b> .gob.pe
                                                                                 stdnse.sleep(2.0)
 rgarcia@<b>
              .gob.pe
 pangulob@<b> 1.gob.pe
 cmazzetti@<b>; .gob.pe
    dominios@<b>_ :.gob.pe
 ajara@<b>
           .gob.pe
 _mllona@<b>| .gob.pe
```

Nmap done: 1 IP address (1 host up) scanned in 26.10 seconds

## Footprint (fingerprint)

- Revisar sí fue vulnerable y se reportó
  - Http-xssed.nse

R%3E%3CBR%3E%3CBR%<br/>br>3E%3CBR%3E%3CBR%3E%3CBR%3E%3CBR%3E%3CBR%3E%3CBR%3E

```
s nmap -v -p 80 --script http-xssed.nse www.info
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: poline.org (_____) [1 port]
Discovered open port 80/tcp on
Completed Connect Scan at 11:04, 0.20s elapsed (1 total ports)
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
```

#### Para mejorar el -sV ?

## Scanning

- Hay situaciones donde no funciona adecudamente
  - Cambiar banner por uno que se encuentre en firmas

```
root@bt:/pentest/enumeration/web/httprint/linux# ifconfig eth0 172.28.6.254
root@bt:/pentest/enumeration/web/httprint/linux# service apache2 start
* Starting web server apache2
                                                         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

 En ocasiones (ALGUNAS POCAS) el http-waf-detect.nse funciona

```
wcuestas@31337:~/ehtoolz/web/hmap$ nmap -v -p 80 --script http-waf-detect.nse www|
Starting Nmap 6.46 ( http://nmap.org ) at 2014-06-27 09:51 PET
NSE: Loaded 1 scripts for scanning.
NSE: Script Pre-scanning.
Initiating Ping Scan at 09:51
Scanning www.i
                                        [2 ports]
Completed Ping Scan at 09:51, 0.01s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 09:51
Completed Parallel DNS resolution of 1 host. at 09:51, 0.27s elapsed
Initiating Connect Scan at 09:51
Scanning www.i
                                        [1 port]
Discovered open port 80/tcp on
Completed Connect Scan at 09:51, 0.03s elapsed (1 total ports)
NSE: Script scanning |
Initiating NSE at 09:51
Completed NSE at 09:51, 0.48s elapsed
Nmap scan report for www.
Host is up (0.015s latency).
PORT STATE SERVICE
80/tcp open http
 http-waf-detect: IDS/IPS/WAF detected:
NSE: Script Post-scanning.
Read data files from: /usr/local/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 1.14 seconds
```

#### Enumeración

- robots.txt
  - Para qué ? En serio ?!

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

```
5 nmap -v -p 80 -Pn --script http-robots.txt.nse www.google.com
Starting Nmap 6.46 ( http://nmap.org ) at 2014-04-26 10:22 PET
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 /catalogs /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.
Read data files from: /usr/local/bin/../share/nmap
```

#### Enumeración

- Listar directorios
  - Básico porque las aplicaciones web siempre se evalúan de forma automatizada, verdad ?

```
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
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
NSE: Script Post-scanning.
Read data files from: /usr/local/bin/../share/nmap
```

#### Enumeración

- Métodos
  - Que tal si encontramos un PUT o DELETE?
    - Para qué ? En serio ?!

```
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._____pe (
Discovered open port 80/tcp on 133.113.1.3
Completed Connect Scan at 10:51, 0.02s elapsed (1 total ports)
NSE: Script scanning [13]
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
```

Todos quieren SQL Injection !!!

```
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
```

 Qué tal sí nos dejaron un "regalito" en los comments ?

```
$ nmap -v -p 80 -Pn --script http-comments-displayer.nse 172.28.6.254
Starting Nmap 6.46 ( http://nmap.org ) at 2014-04-26 11:09 PET
NSE: Loaded 1 scripts for scanning.
NSE: Script Pre-scanning.
                                            PORT
                                                   STATE SERVICE
Initiating Parallel DNS resolution of 1 h80/tcp open http
Completed Parallel DNS resolution of 1 hc| http-comments-displayer:
                                              Spidering limited to: maxdepth=3; maxpagecount=20; withinhost=172.28.6.254
Initiating Connect Scan at 11:09
Scanning 172.28.6.254 [1 port]
                                                  Path: http://172.28.6.254/images/style.css
Discovered open port 80/tcp on 172.28.6.2
                                                  Line number: 1
Completed Connect Scan at 11:09, 0.00s el
                                                  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-->
```

- Autenticación Básica ?
  - nmap -v -Pn -p 80 direccion\_IP\_o\_nombre\_DNS --script http-auth
    - --script-args=http-auth.path=/topsecret

```
$ nmap -v -p 80 127.0.0.1 --script http-auth --script-args=http-auth.path=/topsecret -oA auth-ht
tp-host-060715
Starting Nmap 6.47 ( http://nmap.org ) at 2015-08-13 13:21 PET
NSE: Loaded 1 scripts for scanning.
NSE: Script Pre-scanning.
Initiating Ping Scan at 13:21
Scanning 127.0.0.1 [2 ports]
Completed Ping Scan at 13:21, 0.00s elapsed (1 total hosts)
Initiating Connect Scan at 13:21
Scanning localhost (127.0.0.1) [1 port]
Discovered open port 80/tcp on 127.0.0.1
Completed Connect Scan at 13:21, 0.00s elapsed (1 total ports)
NSE: Script scanning 127.0.0.1.
Initiating NSE at 13:21
Completed NSE at 13:21, 0.00s elapsed
Nmap scan report for localhost (127.0.0.1)
Host is up (0.000034s latency).
PORT STATE SERVICE
80/tcp open http
| http-auth:
 HTTP/1.1 401 Unauthorized
   Basic realm=Por favor ingrese el password
NSE: Script Post-scanning.
Read data files from: /usr/local/bin/../share/nmap
```

- Cross Site Scripting
  - Almacenadas
  - Basadas en el DOM
  - \$\_SERVER["PHP\_SELF"]
  - nmap -v -Pn -p 80 direccion\_IP\_o\_nombre\_DNS--script "\*xss\*" -oA xss-host-060715

```
| http-xssed: | http-xssed: | UNFIXED XSS vuln. | UNFIXED XSS vuln. | http://ENTIDAD.gob.pe/index2.php?option=com_content&user_rating=1&submit_vote=index2.php? | opti<br/>br>on=com_content&amp;user_rating=1&amp;submit_vote=x&amp;task=vote&amp;pop=0&amp;Itemid=10&amp;cid=1&amp;url=http://xssed.com
```

- Cross Site Scripting
  - Almacenadas
  - Basadas en el DOM
  - \$\_SERVER["PHP\_SELF"]
  - nmap -v -Pn -p 80 direccion\_IP\_o\_nombre\_DNS--script "\*xss\*" -oA xss-host-060715

```
| http-dombased-xss:
| Spidering limited to: maxdepth=3; maxpagecount=20; withinhost=ENTIDAD.gob.pe
  Found the following indications of potential DOM based XSS:
| Source:
window.open('http://www.ENTIDAD.gob.pe: 2095/webmaillogout.cgi', 'targetWindow', 'toolbar=no, location=no, status=no, menubar=no, s
crollbars=ves,resizable=ves')
| Pages: http://ENTIDAD.gob.pe/DIR/, http://ENTIDAD.gob.pe/DIR/index.php/features-mainmenu-47/direccionesejecutivas,
http://ENTIDAD.gob.pe/DIR/index.php/directorio/directorio-trabajadores-DIR.
http://ENTIDAD.gob.pe/DIR/index.php/directorio/sample-menu-2, http://ENTIDAD.gob.pe/DIR/index.php/video,
http://ENTIDAD.gob.pe/DIR/index.php/21-featured-news/294-DIR-ciudad-inicia-desde-hoy-,
http://ENTIDAD.gob.pe/DIR/index.php/21-featured-news/244-informacion-presupuestas, http://ENTIDAD.gob.pe/DIR/,
http://ENTIDAD.gob.pe/DIR/index.php/21-featured-news/296-reportes-sigas-fed, http://ENTIDAD.gob.pe/DIR/index.php/21-
featured-news/298-director-regional, http://ENTIDAD.gob.pe/DIR/index.php/21-featured-news/291-gobjerno-regional-y-DIR-ciudad-
hicieron-lanzamiento, http://ENTIDAD.gob.pe/DIR/?view=featured, http://ENTIDAD.gob.pe/DIR/index.php/extensions/objetivo,
http://ENTIDAD.gob.pe/DIR/index.php/directorio, http://ENTIDAD.gob.pe/DIR/index.php/21-featured-news/245-actividad-oficial,
http://ENTIDAD.gob.pe/DIR/index.php/directorio/sample-menu, http://ENTIDAD.gob.pe/DIR/index.php/fed/adenda
```

- Archivos "no necesarios"
  - Bak
  - Web.config.bak
  - Copy of Php.ini
  - Htaccess.bak
  - Server.xml~
  - Tomcat-users.xml.bak
- nmap -v -Pn -p a,b,c,...
   direccion\_IP\_o\_nombre\_DNS --script http-backup-finder

```
Starting Nmap 6.47 ( http://nmap.org ) at 2015-08-13 14:41 PET
NSE: Loaded 1 scripts for scanning.
NSE: Script Pre-scanning.
Initiating Ping Scan at 14:41
Scanning
                .gob.pe (.
                                     ) [2 ports]
Completed Ping Scan at 14:41, 0.18s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 14:41
Completed Parallel DNS resolution of 1 host. at 14:41, 6.70s elapsed
Initiating Connect Scan at 14:41
Scanning
                .gob.pe (
                                      ) [1 port]
Discovered open port 80/tcp on
Completed Connect Scan at 14:41, 0.15s elapsed (1 total ports)
NSE: Script scanning
Initiating NSE at 14:41
Completed NSE at 14:41, 19.05s elapsed
Nmap scan report for
                            .gob.pe (
Host is up (0.12s latency).
      STATE SERVICE
PORT
80/tcp open http
http-backup-finder:
 Spidering limited to: maxdepth=3; maxpagecount=20; withinhost:
                                                                       .gob.pe
   http://
                 ..gob.pe/wp-includes/js/thickbox/thickbox.bak
               .gob.pe/wp-includes/js/thickbox/thickbox.css~
   http://
   http://
               .gob.pe/wp-includes/js/thickbox/thickbox copy.css
                 1.gob.pe/wp-includes/js/thickbox/Copy of thickbox.css
   http://
              .gob.pe/wp-includes/js/thickbox/Copy (2) of thickbox.css
   http://
              .gob.pe/wp-includes/js/thickbox/thickbox.css.1
   http://
                  .gob.pe/wp-includes/js/thickbox/thickbox.css.~1~
   http://
NSE: Script Post-scanning.
Read data files from: /usr/local/bin/../share/nmap
```

Nmap done: 1 IP address (1 host up) scanned in 26.33 seconds

NUCKUP IIIIUCI

- Redirecciones y Re-envios sin validar
  - nmap -v -Pn -p a,b,c,...
     direccion\_IP\_o\_nombre\_DNS --script http-open-redirect

```
Initiating NSE at 15:06

Completed NSE at 15:06, 0.24s elapsed

Nmap scan report for www..pe (1.2.3.4)

Host is up (0.12s latency).

rDNS record for 1.2.3.4: .pe

PORT STATE SERVICE

-- 80/tcp open https syn-ack

-- | http-open-redirect:

-- | https://www..pe:80/redirect.php?url=http%3A%2f%2fscanme.nmap.org%2f
```

## Un ataque a punta de puro NMAP

```
7:~$ nmap -Pn -v -p 80 --script http-email-harvest.nse www.
                                                                       .cl
Starting Nmap 6.47 ( http://nmap.org ) at 2015-05-11 23:06 PET
NSE: Loaded 1 scripts for scanning.
NSE: Script Pre-scanning.
Initiating Parallel DNS resolution of 1 host. at 23:06
Completed Parallel DNS resolution of 1 host. at 23:06, 6.87s elapsed
Initiating Connect Scan at 23:06
                          J) [1 port]
Scanning www.
                  .cl (
Discovered open port 80/tcp on '
Completed Connect Scan at 23:06, 0.07s elapsed (1 total ports)
NSE: Script scanning
Initiating NSE at 23:06
Completed NSE at 23:07, 11.37s elapsed
Nmap scan report for www. i.cl (
Host is up (0.066s latency).
                                            .cl
rDNS record for
                         ): www.
      STATE SERVICE
PORT
80/tcp open http
 http-email-harvest:
 capuertogtr@.
   capuertolqw@'
   capuertocst@c
   capuertoleb@c
   capuertotlc@c
   capuertovlp@ `
   capuertochg@r' '
   capuertovva@ _
   capuertoccp@
   capuertoptc@ _
   capuertoemu@c
   capuertolsv@
   capuertomej@
```

capuartogll@c

## Un ataque a punta de puro NMAP

```
wcuestas@31337:~$ nmap -n -v -p 80 -sT -sV --script http-wordpress-brute.nse --script-args 'userdb=/home/wcuestas/secgov/expocybsec/usuarios.lst,p
assdb=/home/wcuestas/secgov/expocybsec/passwords.lst',brute.firstonly=true 192.168.1.143
Starting Nmap 6.47 ( http://nmap.org ) at 2015-05-11 23:39 PET
NSE: Loaded 30 scripts for scanning.
NSE: Script Pre-scanning.
Initiating Ping Scan at 23:39
Scanning 192.168.1.143 [2 ports]
Completed Ping Scan at 23:39, 0.00s elapsed (1 total hosts)
Initiating Connect Scan at 23:39
Scanning 192.168.1.143 [1 port]
Discovered open port 80/tcp on 192.168.1.143
Completed Connect Scan at 23:39, 0.00s elapsed (1 total ports)
Initiating Service scan at 23:39
Scanning 1 service on 192.168.1.143
Completed Service scan at 23:39, 6.62s elapsed (1 service on 1 host)
NSE: Script scanning 192.168.1.143.
Initiating NSE at 23:39
Completed NSE at 23:39, 0.19s elapsed
Nmap scan report for 192.168.1.143
Host is up (0.00024s latency).
PORT STATE SERVICE VERSION
80/tcp open http
                    Apache httpd
 http-wordpress-brute:
   Accounts
     capuertoqtr:capuertoqtr
     capuertoqtr:capuertoqtr - Valid credentials
   Statistics
     Performed 3 guesses in 1 seconds, average tps: 3
```

NSE: Script Post-scanning. 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 ad<u>d</u>ress (1 host up) scanned in 6.94 seconds

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



#### Toma de Evidencias

nmap -n -v -p 80 --script http-screenshot.nse 192.168.1.215

Starting Nmap 6.46 ( http://nmap.org ) at 2014-04-26 06:56 PET NSE: Loaded 1 scripts for scanning. NSE: Script Pre-scanning. Initiating ARP Ping Scan at 06:56 Scanning 192.168.1.215 [1 port] Completed ARP Ping Scan at 06:56, 0.02s elapsed (1 Initiating SYN Stealth Scan at 06:56 Scanning 192.168.1.215 [1 port] Discovered open port 80/tcp on 192.168.1.215 Completed SYN Stealth Scan at 06:56, 0.03s elapsed NSE: Script scanning 192.168.1.215. Initiating NSE at 06:56 Completed NSE at 06:56, 0.75s elapsed Nmap scan report for 192.168.1.215 Host is up (0.00064s latency). STATE SERVICE PORT 80/tcp open http http-screenshot: Saved to screenshot-nmap-192.168.1.215:80.png MAC Address: 08:00:27:90:73:0A (Cadmus Computer Sy NSE: Script Post-scanning. Read data files from: /usr/local/bin/../share/nmap Nmap done: 1 IP address (1 host up) scanned in 1.0

la screenshot-nmap-192.168.1 2322753 2014-04-26 06:56 screenshot-nmap-1 screenshot-nmap-192.168.1.215:80.png File Edit View Image Go Help Your Company Name Evergreen Terrace 742 Kansas Missouri Phone: 432-653-3121 sales@thetiecompany.com ACME Co. Archivo 1 | Archivo 2 Welcome to A Hi! This is my third design for OSWD, with News Validation. You can do whatever you want w Hosting Colombia link at the bottom. Enjoy! September 27, 2006 Curabitur arcu tellus, suscipit in, aliquam eget, ultricies id, sapien, Nam est,

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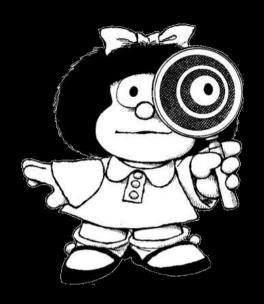


#### **Datos Adicionales**

- Documentación suficiente en
  - http://nmap.org/nsedoc/
- Scripts "no oficiales" en
  - https://secwiki.org/w/Nmap/External\_Script\_Library



# Preguntas?



## RETO: Funciona?

nmap -n -v -sT -script nbstat.nse host.test.com