



Abstract

This projects presents a comprehensive examination of various cybersecurity tools such as Nmap for vulnerability scanning, John the Ripper for password cracking, and Aircrack-ng for Wi-Fi hacking. Purpose was to evaluate effectiveness of such tools in detecting and mitigating threats within network environment.

Introduction

Cybersecurity is constantly evolving, with new threats looming frequently. This project provides an analysis of several cybersecurity tools designed to identify and mitigate vulnerabilities. Trough efficient evaluation , we have explored how these tools can be utilized effectively to strengthen cybersecurity defenses and respond to the vigorous daily challenges posed by hackers and spiteful entities.

Background

This research dives into the mechanism and application of various cybersecurity tools such as Nmap, John the Ripper, and Aircrack-ng. Each tool Nmap for network scanning, John the Ripper for password cracking, and Aircrack-ng for Wi-Fi security. The project contextualizes the importance of these tools within cybersecurity domain and discusses their operational.

Problem

Despite widespread adoption, the real-world effectiveness of cybersecurity tools remain under-examined. This project addresses this gap by testing this tools against typical security that individuals face. By doing so, it aims to focus both strength and weaknesses of this tools, fostering a comprehensive understanding of their functionality.

Methodology

Methodology of this research was structured test the efficacy of the tools under control conditions within my own network and multiple devices and security setting.

1. Setup and Environment Preparation: For each tool, a test environment was created that included devices, documents, and network configuration, to include Kali Linux.

2. Execution of tools:

- Nmap was used on control environment to test my own network and devices to perform host discovery, port scanning, service and version detection, and OS detection on all devise connected to the network, Nmap utilized was on windows platform.

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Methodology

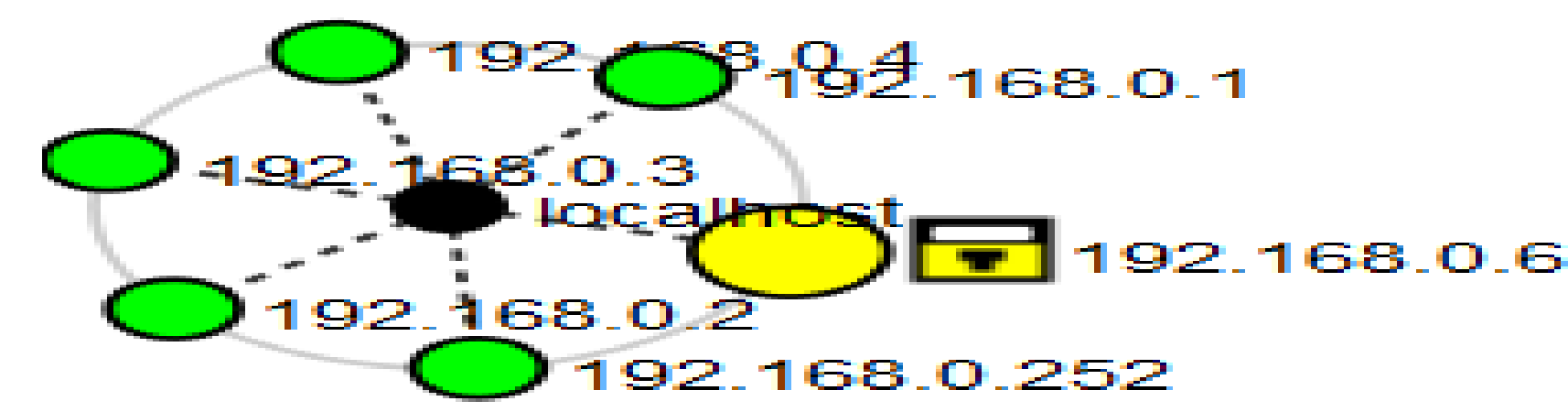


Figure 10: star topology from a network scan using Nmap tool, that shows multiples nodes connected within a private network, and tallow node that indicates a different device such as a printer.

```
nmap -sS 192.168.0.3
Starting Nmap 7.93 ( https://nmap.org ) at 2024-03-27 12:16 Eastern Daylight Time
Nmap scan report for 192.168.0.3
Host is up (0.014s latency).
Not shown: 994 closed tcp ports (reset)
PORT      STATE SERVICE
80/tcp    open  http
443/tcp   open  https
631/tcp   open  ipp
8080/tcp  open  http-proxy
9100/tcp  open  jetdirect
9220/tcp  open  unknown
MAC Address: 40:80:34:92:A2:A9 (Hewlett Packard)

Nmap done: 1 IP address (1 host up) scanned in 2.70 seconds
```

Figure 2: shows a TCP SYN scan on target IP address 192.168.0.3. showing multiple ports open that includes http/https which are good one for gaining access to the device.

- John the Ripper was used from within windows OS to crack password of protected file that was needed to be cracked for an arson case.



Figure28: generating the hash file for a specific document currently password protected, hash file is utilized with john the ripper to attempt and crack password.

```
C:\Users\Harry\Desktop\john-1.9.0-jumbo-1-wins1\run\ john -C:\Users\Harry\Desktop\prkhash
Warning: detected hash type "oldoffice", but the string is also recognized as "oldoffice-openssl"
Use the --format=oldoffice-openssl option to force loading these as that type instead
Using default input encoding: UTF-8
Loaded 1 password hash (oldoffice, MS Office <- 2003 [MD5/SHA1 RC4 32/64])
Cost 1 (hash type) is 1 for all loaded hashes
Will run 16 OpenMP threads
Proceeding with single, rules:Single
Press 'q' or Ctrl-C to abort, almost any other key for status
Almost done: Processing the remaining buffered candidate passwords, if any.
Proceeding with wordlist:password.lst, rules:wordlist
Proceeding with incremental:ASCII
MITM key: 12db34616
art (PRKs_world.doc)
```

Figure29: shows john the ripper successfully cracking the password for the specific hash "art" using 16OpenMP threads for the cracking process.

- Aircrack-ng was employed on Linux within a virtual machine to assess the security of the Wi-Fi networks around the area, assessing the encryption method and targeting multiple devices to capture and cracking WPA handshakes.

BSSID	PRR	Beacons	#Data	R/s	CH	MB	ENC	CIPHER	AUTH	ESSID
68:87:7E:DA:8C:69	-83	4	0	0	6	130	WPA2	CCMP	PSK	family
3C:5C:F1:E6:3A:46	-85	4	1	0	6	360	WPA2	CCMP	PSK	eero Perez Merced
3C:5C:F1:E6:3A:42	-82	4	0	0	6	360	WPA2	CCMP	PSK	<length: 0>
3C:5C:F1:39:65:06	-83	3	2	0	6	360	WPA2	CCMP	PSK	eero Perez Merced
3C:5C:F1:39:65:04	-83	3	0	0	6	360	WPA3	CCMP	SAE	<length: 0>
3C:5C:F1:E6:3A:42	-85	3	1	0	6	360	WPA3	CCMP	SAE	<length: 0>
9C:4F:5F:A0:AA:169	-86	3	2	0	6	130	WPA2	CCMP	PSK	El Guapo
68:87:7E:2E:81:A2	-89	0	2	0	6	-1	WPA			<length: 0>
68:87:7E:2E:3F:4E	-87	4	1	0	6	130	WPA2	CCMP	PSK	Raven0a11
8C:3B:AD:99:2C:16D	-90	2	0	0	11	130	WPA2	CCMP	PSK	ngHub_319485N302C7E
4E:AE:1B:0A:31:74	-79	2	0	0	3	65	WPA2	CCMP	PSK	<length: 0>
78:8C:89:3D:A6:62	-75	6	0	0	10	360	WPA2	CCMP	PSK	Arturo y Lizy
EE:9F:8B:F7:DB:68	-83	2	0	0	9	360	WPA2	CCMP	PSK	<length: 0>
3C:5C:F1:39:65:06	-82	2	0	0	3	360	WPA2	CCMP	PSK	DMF-7
40:8B:34:92:A2:AA	-30	1	0	0	11	65	WPA2	CCMP	PSK	DIRECT-AG-HP OfficeJet 4650
28:87:3B:72:F4:32	-73	5	1	0	3	270	WPA2	CCMP	PSK	Guillermo
8A:98:85:48:29:42	-66	10	0	0	3	130	WPA2	CCMP	PSK	Family Network-Gee

Figure 34: scanning the surrounding area with Wi-Fi-Adapter in monitor mode revealed multiple networks with important information such as mac address of access points, channel, encryption type, cypher which are critical information when trying to gain access to Wi-Fi.

Methodology

```
File Actions Edit View Help
kali@kali:~$ sudo aircrack-ng -dauth 0 -o 24:9a:cb:a2:37:5a wlan0mon
[sudo] password for kali:
[00:00:00] waiting for kalli:
[00:09:10] Waiting for beacon frame (BSSID: 24:9a:cb:a2:37:5a)
[00:09:11] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
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[00:11:41] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:11:42] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:11:43] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:11:44] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:11:45] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:11:46] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:11:47] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:11:48] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:11:49] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:11:50] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:11:51] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:11:52] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:11:53] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:11:54] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:11:55] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:11:56] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:11:57] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:11:58] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:11:59] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:12:00] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:12:01] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:12:02] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:12:03] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:12:04] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:12:05] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:12:06] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:12:07] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:12:08] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:12:09] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:12:10] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:12:11] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:12:12] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:12:13] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:12:14] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:12:15] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:12:16] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]
[00:12:17] Sending DeAuth (code 7) to broadcast -- BSSID: [24:9a:cb:a2:37:5a]

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