Wifi Hacking

Preparing Handshakes For Cracking



Hcxdumptool Aircrack-ng

.pcapng file

.pcap file

.hc22000 file (for Hashcat)



Hashcat is a newer tool that can utilize GPU power to crack nearly all types of passwords. It supports multiple attacks like dictionary attacks and brute force attacks to crack more than 200 different types of passwords.







Phase-1

Convert Handshakes captured through Hcxdumptool

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You should be on Kali Linux or Parrot
OS in VMWARE, Virtual Box or running
natively on your PC

Update the kali linux packages

>sudo apt-get update

```
File Actions Edit View Help

(kali@kali)-[~]

$ sudo apt-get update

Get:1 http://kali.cs.nctu.edu.tw/kali kali-rolling InRelease [30.6 kB]

Get:2 http://kali.cs.nctu.edu.tw/kali kali-rolling/main Sources [14.7 MB]

13% [2 Sources 857 kB/14.7 MB 6%]

55.4 kB/s 22min 32s
```

Install the hcxpcapngtool

>sudo apt-get install hcxtools

```
(kali@ kali)-[~]
$ sudo apt-get install hcxtools
Reading package lists ... Done
Building dependency tree ... Done
Reading state information ... Done
The following package was automatically installed and is no longer required:
   libc-devtools
Use 'sudo apt autoremove' to remove it.
The following NEW packages will be installed:
   hcxtools
```

Convert the captured file with the tool

>hcxpcapngtool -o hash.hc22000 -E essidlist dumpfile.pcapng

Here:

- -hash.hc22000 is the converted file
- Essid list will contain the list of SSIDs
- Dumpfile.pcapng is the source file

Convert the captured file with the tool

>hcxpcapngtool -o hash.hc22000 -E essidlist dumpfile.pcapng

```
(kali@kali)-[~]
$ hcxpcapngtool -o hash.hc22000 -E essidlist dumpfile.pcapng
```

```
session summary
_____
processed pcapng files...... 1
```

Check the essidlist file for name of wifi networks

>nano essidlist

Sometimes wifi networks leak passwords and here we can see if there is some leaked password without even cracking something

Check the essidlist file for name of wifi networks

>nano essidlist

```
GNU nano 5.4

12345678

Home

Nayatel-877

Nomi

ORIENT-68C63ACC57C8

Raheel

ptcl bb

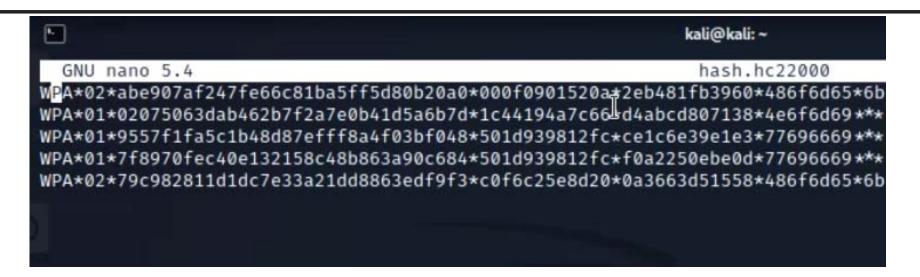
wifi
```

Check the BSSID of our network

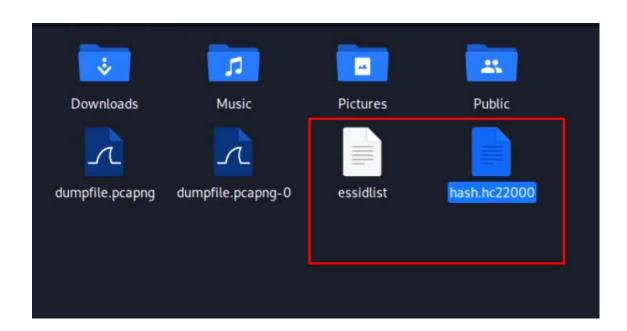
>sudo hcxdumptool -i wlan0 --do_rcascan

Delete the excessive information and keep only the target network handshakes

>nano hash.hc22000



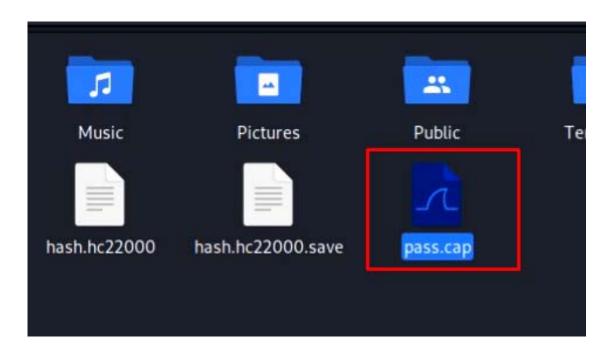
Now, we have our converted file hash.hc22000. Just copy it from Vmware machine to your main Windows Machine



Phase-2

Convert Handshakes captured through Aircrack suite

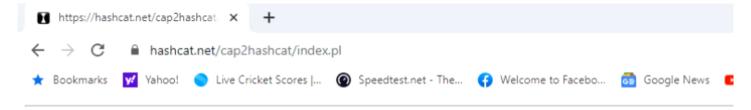
Copy the cap file from Vmware machine to Windows machine



Use the following official website from hashcat developers to convert the file to proper format(.hc2200)

https://hashcat.net/cap2hashcat/

Download the converted file



Handshake extraction successful: Download



THANKS