GUI Based Automated Wifi cracking

FERN is a Wireless security auditing and attack software program written using the Python Programming Language and the Python Qt GUI library

The program is able to crack and recover WEP/WPA/WPS keys in a GUI based environment in a click and forget manner

FERN VS WIFITE

Step- 1

- Prepare the dictionary file for FERN. Locate the dictionary file

> Locate rockyou

```
┌──(kali㉿kali)-[~]
└─$ locate rockyou
/usr/share/hashcat/masks/rockyou-1-60.hcmask
/usr/share/hashcat/masks/rockyou-2-1800.hcmask
/usr/share/hashcat/masks/rockyou-3-3600.hcmask
/usr/share/hashcat/masks/rockyou-4-43200.hcmask
/usr/share/hashcat/masks/rockyou-5-86400.hcmask
/usr/share/hashcat/masks/rockyou-6-864000.hcmask
/usr/share/hashcat/masks/rockyou-7-2592000.hcmask
/usr/share/hashcat/rules/rockyou-30000.rule
/usr/share/john/rules/rockyou-30000.rule
/usr/share/wordlists/rockyou.txt.gz
```

Step- 1

- Now Un compress the file

- gunzip /usr/share/wordlists/rockyou.txt.gz
- ls /usr/share/wordlists/

```
┌──(kali㉿kali)-[~]
└─$ gunzip /usr/share/wordlists/rockyou.txt.gz
```

```
┌──(kali㉿kali)-[~]
└─$ ls /usr/share/wordlists/

dirb  dirbuster  fasttrack.txt  fern-wifi  metasploit  nmap.lst  rockyou.txt  wfuzz
```

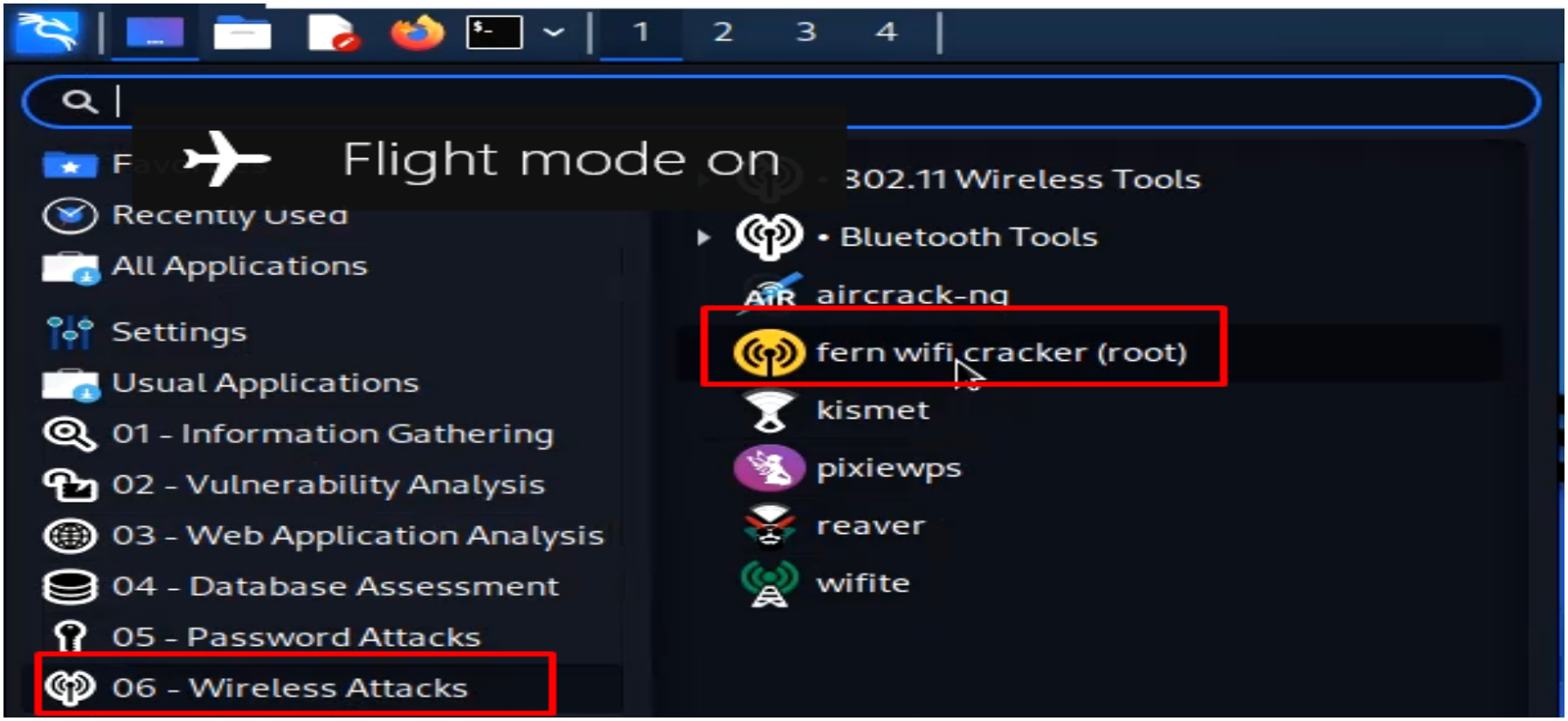
Alternate Dictionaries

Best Alternate Word lists Collections.

- ✓ **https://weakpass.com/**
- ✓ **https://github.com/danielmiessler/SecLists/tree/master/Passwords/WiFi-WPA**
- ✓ **https://labs.nettitude.com/blog/rocktastic/**
- ✓ **https://github.com/kennyn510/wpa2-wordlists**

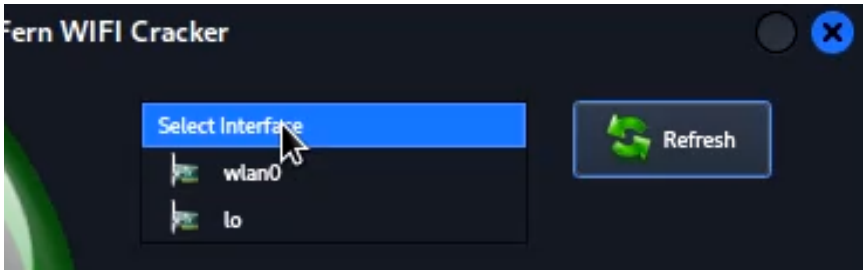
Step- 2

- Open FERN from Programs> Wireless Attacks> FERN



Step- 3

- Select your Interface, FERN will automatically put it in monitor mode



Step- 4

- Now Start Scanning, FERN will show the number of WEP and WPA networks that it finds

Step- 5

- Now Select WPA Networks and Here a new Window will appear listing all WPA/ WPA-2 networks

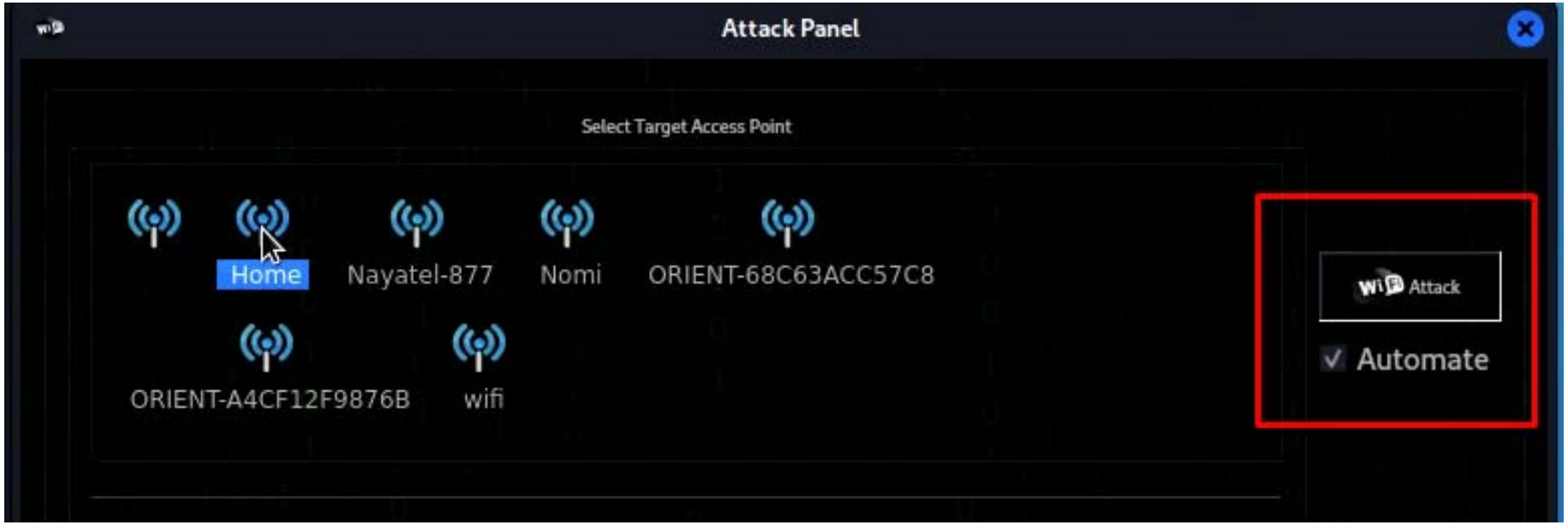
Step- 6

- Now you need to select the dictionary. Open the dictionary tab and select the Rockyou.txt from the following location

  - /usr/share/wordlists/

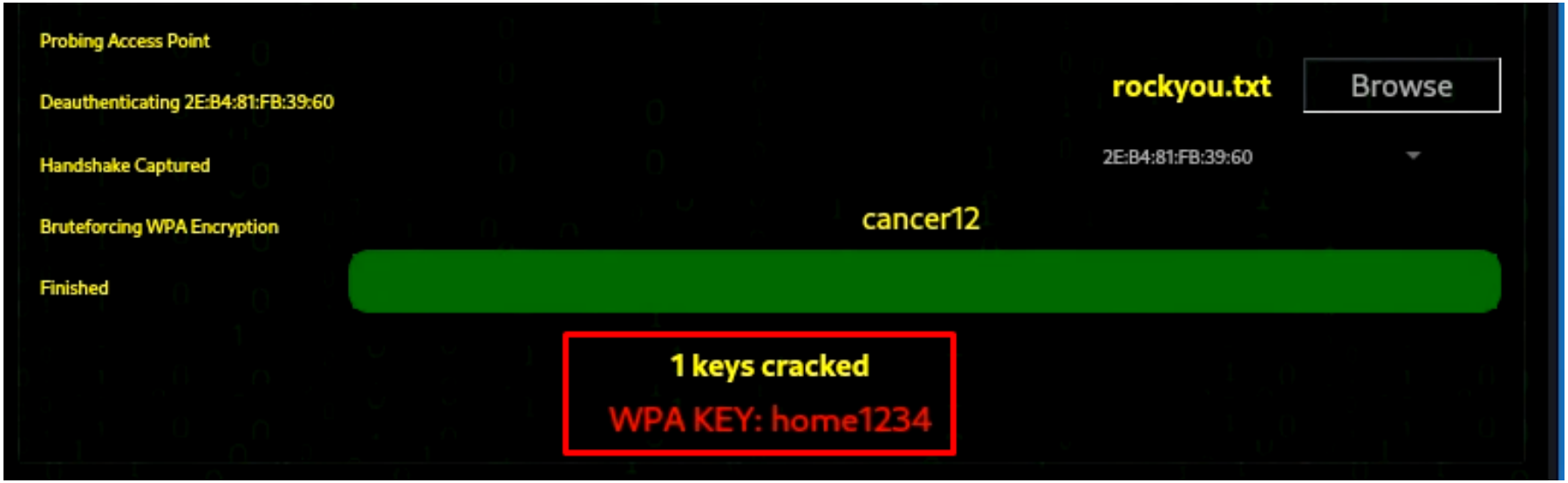
Step- 7

- Now Select the target network, select option to automate and click attack



Step- 8

- FERN will automatically disassociate the clients, capture the handshake and then crack the handshake. Once cracked, the password will be displayed



DEMO

THANKS