

# 8. WPA and WPA2 Cracking

Both, WPA and WPA2 can be cracked using the same methods. They are made to address the issues in WEP and made much more secure. Each packet is encrypted using a unique temporary key.

- Packets contain no useful information

## WPA and WPA2 Cracking

- both can be cracked using the same methods
- they are made to close the security holes of WEP
- and are way more secure
- each packet is encrypted using a unique temporary key

**Packets contain no useful information**

## ARP Request Replay

- WPS is a feature that can be used with WPA and WPA2.
- Allows clients to connect without the password
- Authentication is done using a 8 digit pin
  - 8 Digits are very small
  - We can try all possible pins in relatively short time
  - Then the WPS pin can be used to compute the actual password.

PS: This only works if the router is configured not to use PBC (Push Button Authentication)

## Check if Network has WPS active

```
wash --interface wlan0
```

The Output should look like this:

```
root@kali:~# wash --interface mon0
BSSID          Ch  dBm  WPS  Lck  Vendor  ESSID
-----
00:10:18:90:2D:EE  1  -53  1.0  No   Broadcom  Test_AP
^C
root@kali:~#
```

Here you can see WPS is labeled as 1.0. This doesn't tell you if it uses Pushbutton Authentication, you just have to try.

lets associate with the network

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