



Wi-Fi Leakage

Robin Wood



These slides were presented at Tech for Troops at Sheffield Hallam on 6th March 2016.

The probes analysed were put together specially for the presentation and are not from a real phone.



Who am I?

- Freelance security consultant
- In the industry for 8+ years
- Tested for most sectors including banks, casinos, retail and manufacturing



Who uses Wi-Fi on their phone?



Do you turn it off when you are not using it?



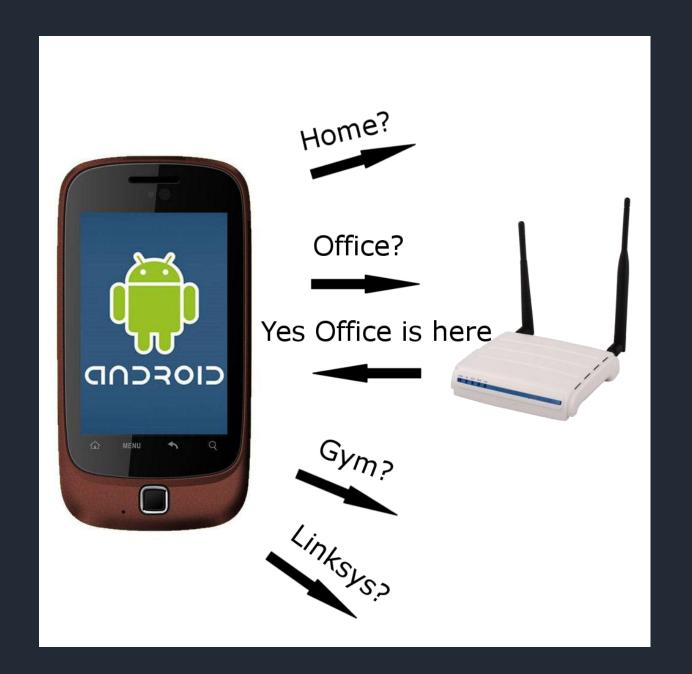
Please turn off Wi-Fi now if you do not want to be part of the live demo













Aircrack-ng Suite



Station MAC, First time seen, Last time seen, Power, # packets, BSSID, Probed ESSIDs 00:26:37:93:D8:E1, 2016-03-02 15:12:37, 2016-03-02 15:12:44, -44, 71, 64:70:02:DE:AF:A7, UNION JACKS, jardinTropicalFREE, 0449woodseat, GDKENERGY, Natwest_Free_WiFi, Sheffield_First_Lounge, eastcoast-wifi, simonsandrawireless, icec-guest



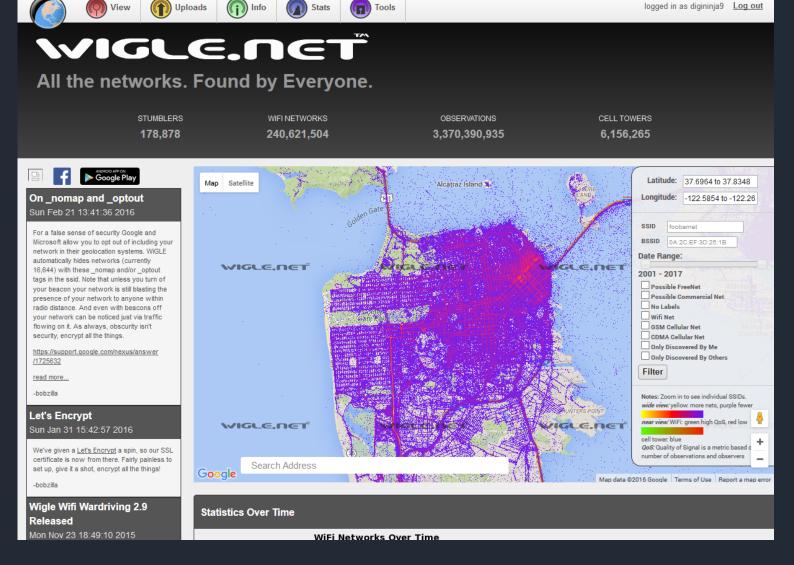
Probe Requests

- The Woodseats Palace
- Ladbrokes WiFi
- Natwest_Free_WiFi
- 0449woodseat
- Sheffield_First_Lounge

- eastcoast-wifi
- icec-guest
- GDKENERGY
- simonsandrawireless
- jardinTropicalFREE
- UNION JACKS

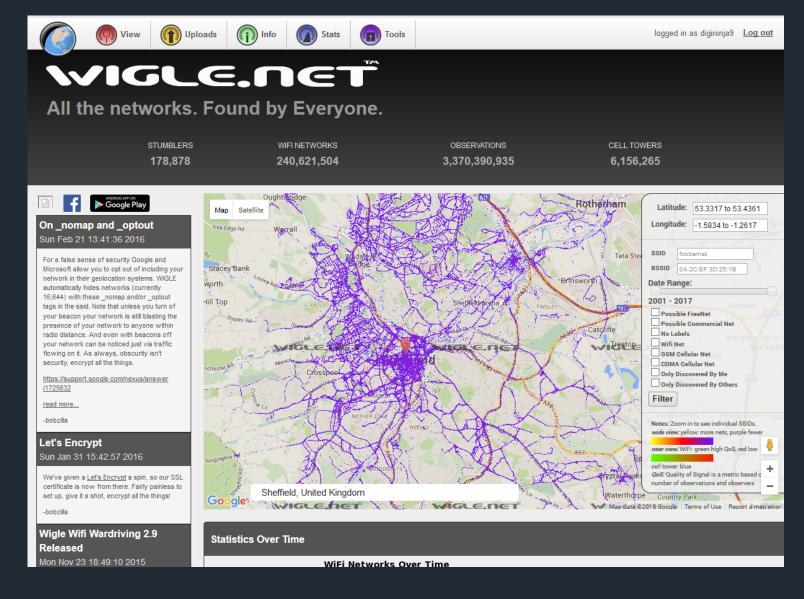


Wigle.net

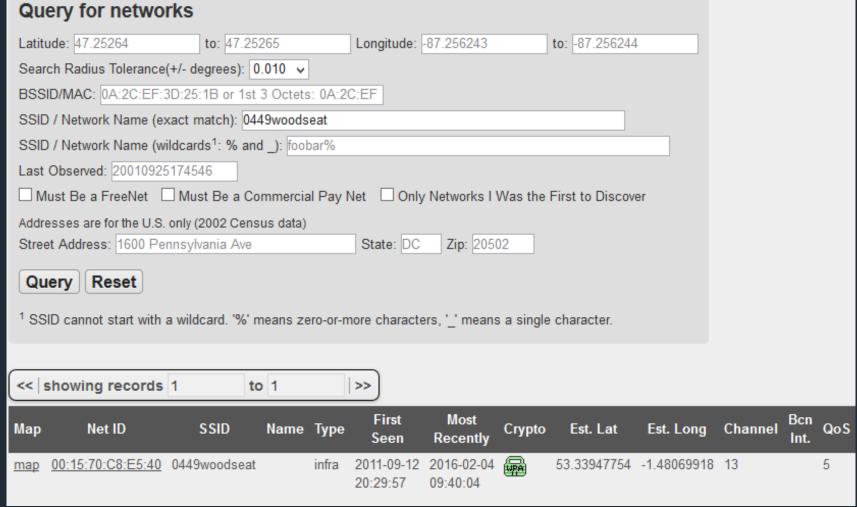




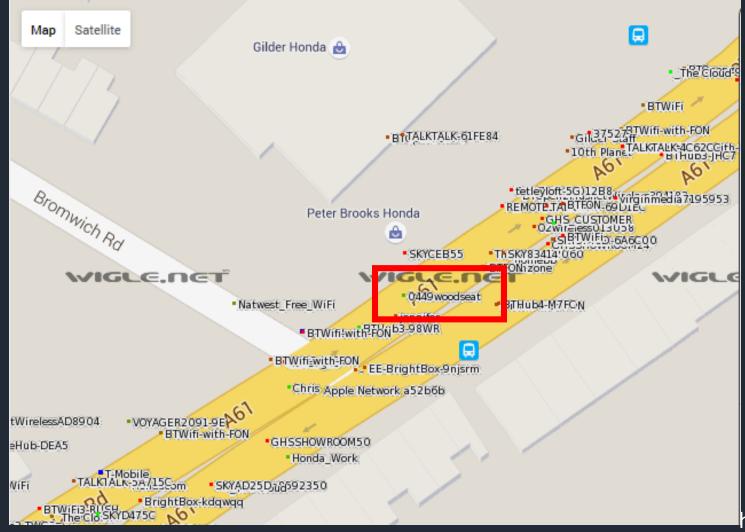
Wigle.net Sheffield



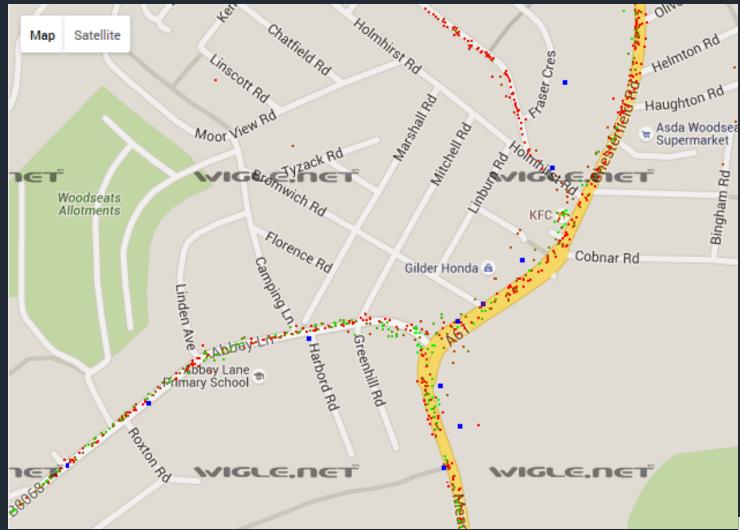




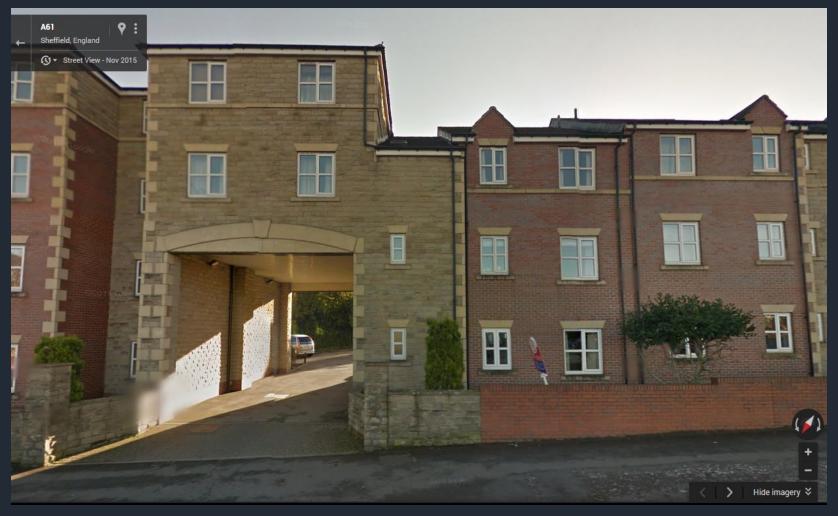






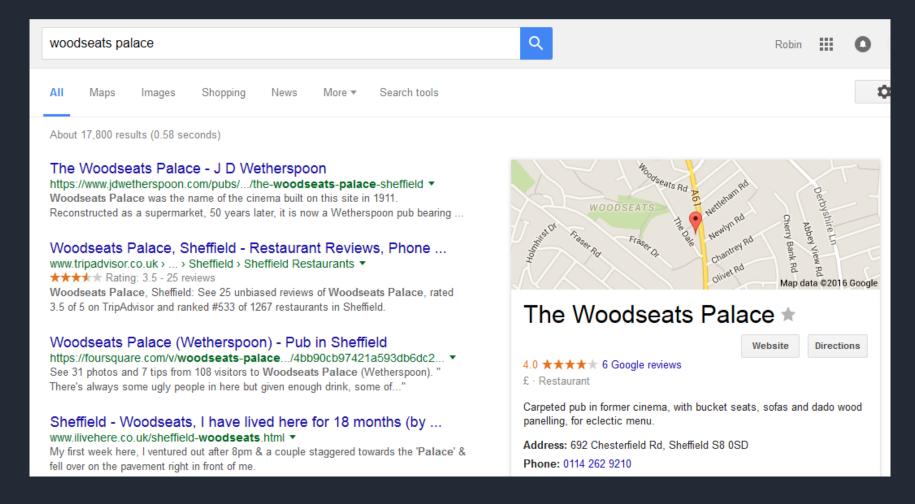






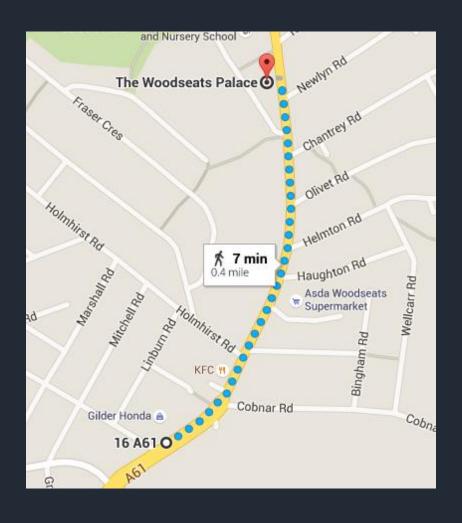


The_Woodseats_Palace





0449woodseat to The Woodseats Palace



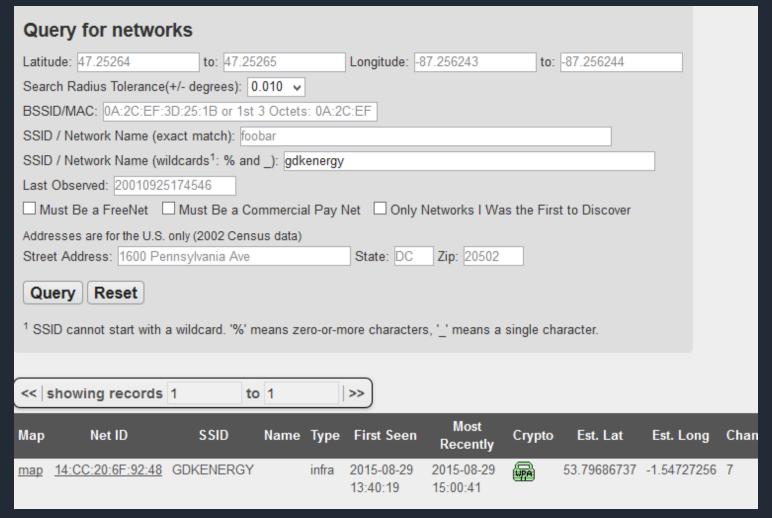


Ladbrokes



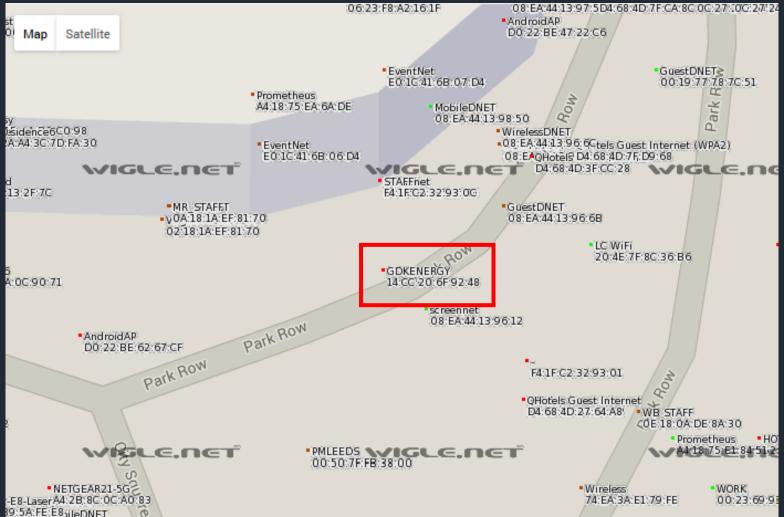


GDKENERGY





GDKENERGY





GDKENERGY





GDK Energy Ltd



New Website Under Construction

Our new website is under construction and will be available very soon, if you have a query in the meantime please use the contact details below.

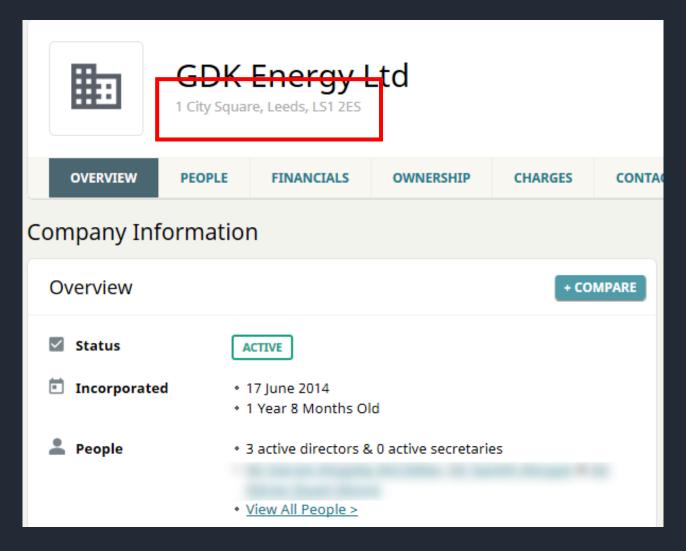
Contact GDK Energy Ltd

Tel: 08445 436492

Email: info@gdkenergy.co.uk



GDK Energy Ltd





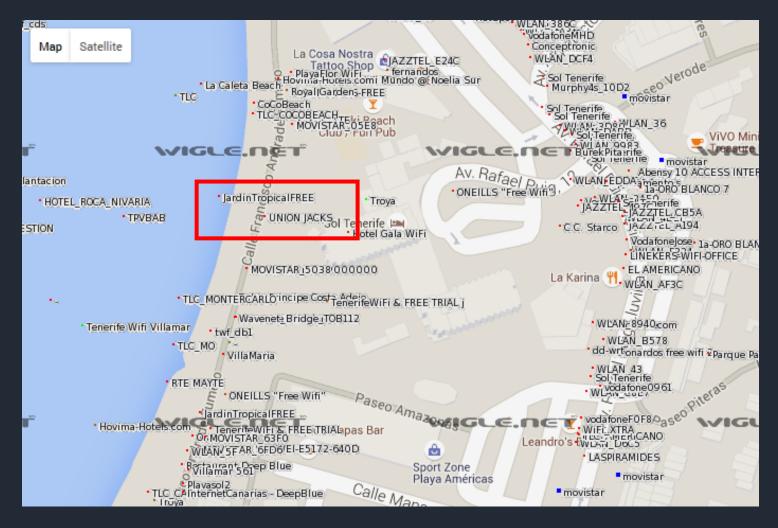
Sheffield_First_Lounge icec-guest





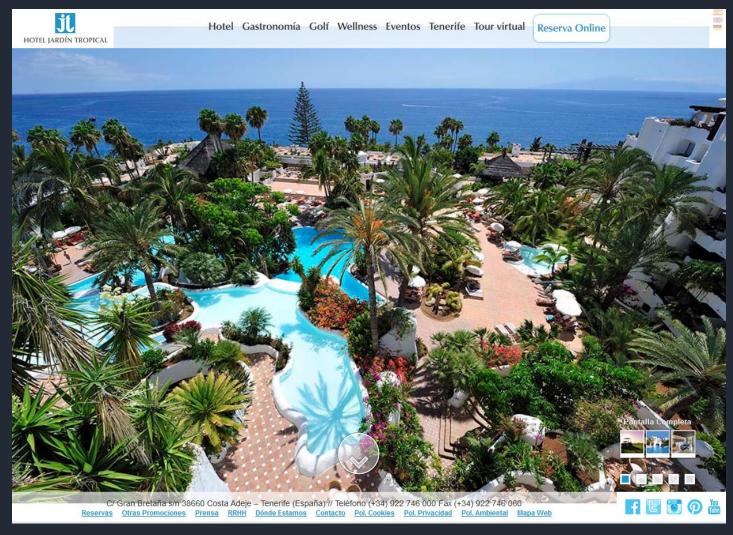


jardinTropicalFREE and UNION JACKS





Hotel Jardin Tropical





Let's Review

- House Chesterfield Road, Woodseats, Sheffield
- Local Woodseats Palace
- Interests Gambling
- Work GDK Energy Ltd, Leeds
- Travels to work by train
- Holidays in Tenerife

Enough to start a conversation?



What are you leaking?

Recently finished active duty?

Is your phone probing for Wi-Fi for local networks where you were stationed?



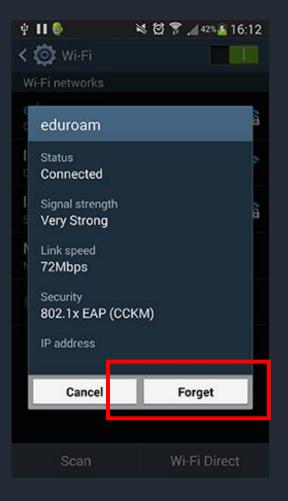
Protections

- Turn off Wi-Fi when not using it
- Remove networks you don't connect to regularly
- Consider using common network names for obfuscation



Android Remove Network







iPhone Remove Network





Questions?

Contact

- robin@digi.ninja
 - @digininja
- https://digi.ninja

