Wireless Hacking

Getting onto a network, then what to do once you get there

What Makes Wireless Special?

- Clients on a wired network vs wireless
- Analogy: people with blindfolds
- Monitor mode vs Promiscuous
- How encryption factors in



WEP Cracking

- The different types of encryption
- WPS
- Why WEP is so vulnerable
- Aircrack



ARP spoofing

- You gained access, now what?
- Blindfolded people analogy
- MITM attack
- SSL strip
- note: no need for monitor mode





STOP





Demo time



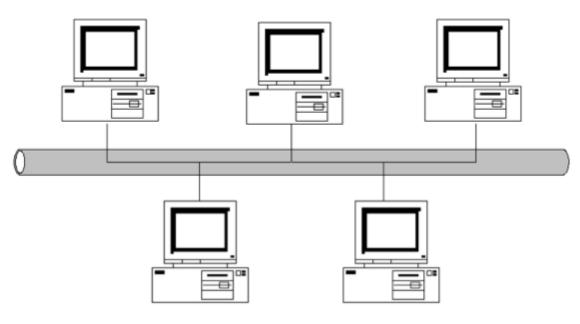
Networking

Hack Night 2015

Communicating



Sending and Receiving



Help Desk



ARP Tables, MAC address, IP Address

Packets



TCP vs UDP



DNS

https://howdns.works/

Domain to IP address: nslookup ebay.com

Ping/Pong: ping google.com

Following: tracert google.com

Tools

- Google Chrome Developer
 - Network
- Wireshark
 - Right click > Follow TCP Stream
 - File > Export Objects > HTTP
 - Using the filter

Exercise: picoCTF 2013

https://www.cloudshark.org/captures/f0741cdfee53

What is the author of the thing that this person is searching for?

Exercise: CSAW 2012

http://shell-storm.org/repo/CTF/CSAW-2012/Networking/100/

Hints:

What is the pcap file called?

What protocols are there within the pcap file?

Homework

The rest of the Networking challenges of CSAW 2012

http://shell-storm.org/repo/CTF/CSAW-2012/Networking/

Sauces

[1]: http://csawgirls.isis.poly.edu/2015ppts/1_Networks_Pt1_Naming.pptx

[2] & [3]: http://www.chriswrites.com/thetheory-behind-building-multiplayer-ios-apps/

[4]: http://busyevent.com/wp-content/uploads/2013/03/talking.jpg