CAPTIVE PORTALS

- Captive portals usually refer to open wifi networks.
- Widely used in hotels, airports, coffee shopsetc
- Allow users to access the internet after logging in.
- Users login using a web interface.



There are a number of ways to bypass captive portals depending on the way it is implemented:

- 1. Change MAC address to one of a connected client.
- 2. Sniff logins in monitor mode.
- 3. Connect and sniff logins after running an arp spoofing attack.
- 4. Create a fake AP, ask users to login.

SNIFFING CREDENTIALS IN MONITOR MODE

- Since captive portals are open.
- IE: they do NOT use encryption;
- We can sniff data sent to/from it using airodump-ng.
- Then use Wireshark to read this data including passwords.



SNIFFING CREDENTIALS USING ARP SPOOFING

- Since captive portals are open;
- Therefore we can connect to the target without a password;
- We can then run a normal arp spoofing attack;
- ightarrow Clients will automatically lose their connection and will be asked to login again
- → Data sent to/from router including passwords will be directed to us.

- When everything fails we target the users.
- Clone the login page used by the captive portal.
- Create a fake AP with the same/similar name.
- Deauth users to use the fake network with the cloned page.
- Sniff the login info!



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CREATING FAKE AP

The main components of a wifi networks are:

- 1. A router broadcasting signal -> use wifi card with hostapd.
- 2. A DHCP server to give IPs to clients -> use dnsmasq.
- 3. A DNS server to handle dns requests -> use dnsmasq.



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